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Work towards our mission continued. marked by the fight against COVID-19. p.5



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About this report:

In its annual report, Vaisala applies the Integrated Reporting Framework, as defined by the International Integrated Reporting Council (IIRC). The primary purpose of an Integrated Report is to describe how a company creates value over time. We started our work towards this goal in 2016: this Vaisala annual report is the fifth one to apply the international <IR> Framework. Our aim is to develop our operations through exploring the different types

of value Vaisala creates for its stakeholders. Thus, this comprehensive report includes information about Vaisala's sustainability, governance and financials, as well as value creation. Vaisala has published standalone sustainability reports since 2008.

This report caters also to those who gather data from GRI (Global Reporting Initiative) reports. You can find the GRI content index

at the end of the Sustainable business practices section together with an Independent assurance report. Disclosure of non-financial information in accordance with Finnish Accounting Act chapter 3 a is presented in the Sustainable business practices section as well as in the chapters Business model in Our business section, Dashboard in the Creating value section, and Risk management in the Governance section.

How to navigate this report:



Read more about this topic

Observations for a better world

In 2020, Vaisala performed well despite the COVID-19 pandemic. The year was marked by adapting to the new global situation with new ways of working, supplying measurement solutions for the fight against the pandemic, enhancing sustainability matters, as well as by our technology's journey to Mars.

Vaisala is a global leader in weather, environmental, and industrial measurement - with quality, sustainability, and science-based innovations at its core. Building on 85 years of experience, Vaisala provides measurement solutions and services. The accurate and reliable data from them supports customers and societies' decision-making, safety, quality, and efficiency. Vaisala is headquartered in Finland, and Vaisala's A shares are listed on the Nasdag Helsinki stock exchange.

Key figures for 2020

379.5 net sales. MEUR



operating result, MEUR

1,900+ employees

R&D 14%

100% renewable electricity

of net sales

Business areas

Weather and Environment

Weather and Environment business area serves selected weather-dependent customers, to whom accurate, real-time, uninterrupted, and reliable weather data is essential to run efficient operations.

Main markets: meteorology, aviation, ground transportation, and renewable energy

> **NET SALES BY BUSINESS AREA** 2020

Industrial Measurements

Industrial Measurements business area serves a wide range of industrial customers. It offers a broad range of accurate and reliable measurement instruments, continuous monitorina systems, and services that help our customers optimize their processes, improve efficiency, minimize energy consumption, and ensure the high quality of their end products.

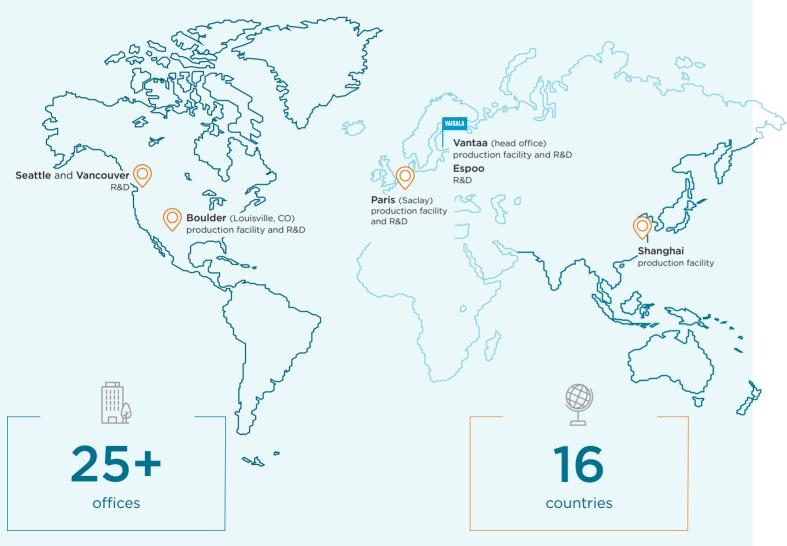
Main markets: high-end humidity, high-end carbon dioxide, continuous monitoring systems liquid measurements, and new markets (power and biogas)

38%

Weather and Environment business area 235.5 MEUR

Industrial Measurements business area 143.9 MEUR

Vaisala as a global company



AMERICAS

Orders received and net sales decreased compared to previous year due to lack of new large project orders. Profitability improved as a result of streamlined product offering to renewable energy customer segment as well as reorganization of the digital business. Large projects in Argentina and The Bahamas progressed slowly. New office building in Louisville, Colorado, was finalized.



36%



293

employees

APAC

Orders received and net sales decreased compared to the previous year. In Industrial Measurements business area, development was positive. Large projects in Vietnam and Australia were completed.



29% of net sales



172 employees

EMEA

Orders received decreased due to lack of new large project orders in MEA, and this was reflected in net sales. In Europe, both orders received and net sales developed positively. EMEA increased its share of Vaisala's total net sales and was as big as Americas. New R&D building in Vantaa, Finland, was finalized.



35% of net sales



1,446 employees

2020 – a remarkable year to remember

Vaisala's work towards its mission Observations for a better world continued throughout the year, marked by the global fight against the COVID-19 pandemic.

For several reasons, the year 2020 will go down in history. As we write this annual review, the content looks rather different than what we anticipated in the beginning of 2020. The global COVID-19 pandemic has impacted societies, organizations, and – above all – people and families across the world. Vaisala was no exception.

Vaisala's main priority during the pandemic was to ensure business continuity while at the same time secure the health and well-being of our employees globally. Many of our employees started working remotely to ensure both their own safety and a safe working environment for those colleagues whose roles required presence in Vaisala premises. Furthermore, our teams developed several new ways of serving our customers virtually. Two good examples include remote Factory Acceptance Tests and augmented reality (AR) customer service.

The year 2020 was twofold. Even though it was challenging in many ways, Vaisala's overall performance was good. The restrictions brought by the COVID-19 pandemic slowed down order intake, whereas we could see how trust in the global economy recovered in the second half of 2020. Despite the fluctuating demand, we managed to keep up our profitability and maintain our global delivery capability. This would not have been possible without the flexibility and innovativeness of our 1,900 experts globally. Therefore, we want to take this opportunity to thank the Vaisala team for its dedication, effort, and support throughout the year.



In addition to combating the COVID-19 pandemic in our own business operations, we contribute to the fight with several of our products. These comprise our continuous monitoring system used, for example, for monitoring vaccine development, production, and storage facilities as well as other instruments, such as our probes for measuring hydrogen peroxide vapor and utilized for sterilization of devices and spaces, such as laboratories. The examples illustrate well the important, needed, and continuously growing role that reliable measurements play in tackling major global societal and environmental challenges.



On a quest for a sustainable future

The COVID-19 pandemic has been a major part of a larger global megatrend: well-being and health. Our business is additionally intertwined with several other megatrends affecting our planet. These include, for example, climate change, digitalization, urbanization, resource efficiency, and circular economy.

We continue our commitment both to the UN Global Compact as well as to those UN Sustainable Development Goals (SDGs) that hold the highest relevancy for Vaisala. In 2020, we took important steps to further integrate these SDGs into our business plans and product development.



opment. In both of our business areas, sustainability and addressing the global megatrends are key elements.

Through our products and solutions, we help customers to make informed decisions and act upon the greatest challenges of our time. They can understand, adapt to, and mitigate climate change as well as save energy and natural resources.

Moreover, we strive to continuously improve sustainability in our own business practices. We are proud to say we reached our target of utilizing 100% renewable electricity in our premises by the end of 2020, which demonstrates our dedication to environmental sustainability in our business. Furthermore, we are committed to respecting human rights, promoting diversity and equality, ensuring occupational health and safety, and preventing corruption. This commitment includes both our own operations and our network of global partners.

Year of proven technological achievements

During the year, Vaisala launched new products both in the Weather and Environment as well as Industrial Measurements business area, including openings in the digital realm. The key launches of the year are presented in the Highlights chapter of this annual report.

In July 2020, technology by Vaisala and the Finnish Meteorological Institute once again took off to space and headed towards Mars. Our technology is known to be reliable and accurate also in the most demanding conditions. It is an honor that our pressure and relative humidity sensors, utilized in a multitude of applications on Earth, have been selected for planetary exploration to provide information on the conditions of the Red Planet.

Moreover, Vaisala's multigas instrument MGP261 for the biogas industry, launched in 2019, was awarded in the Finnish Quality Innovation Awards in November 2020. The instrument measures biogas quality and improves biogas energy production significantly. Winning the Circular economy and carbon neutrality innovations category, this serves as a strong example of our commitment to new innovations that contribute to a more sustainable future.

The foundation for our reliable and accurate products and technologies lies in our science-based approach and strong investments in R&D and innovation. In 2020, we invested 14% of our net sales in R&D. As we enter 2021, our new state-of-the-art innovation center in Vantaa is

opening its doors for ideation and co-creation by our R&D employees, customers, and partners. We are curious and excited to see what new inventions this will bring.

Towards future growth and innovations

Throughout its history of 85 years, Vaisala has been a forerunner in science-based innovations. As the global market leader in weather, environmental, and industrial measurements, we see that the requirements for accurate and reliable data will only increase, serving as a source for new growth and innovation opportunities.

We are committed to finding novel ways of making our planet safe and sustainable for future generations, continuing our high investments in R&D and strong collaboration with scientific community, customers, and other partners.

Closing this remarkable year, we want to thank our employees, customers, partners, and other stakeholders for their valuable contribution and collaboration in 2020. We look forward to writing the next chapters of Vaisala's story together with you.

Change of President and CEO

In late 2020, Kjell Forsén handed over the responsibility as President and CEO of Vaisala after 14 successful years in the company to his successor, Kai Öistämö. Öistämö joined the company on October 1, 2020.

On behalf of the Board of Directors, I want to once more thank Kjell Forsén for his valuable contribution to significantly develop and grow the Vaisala business.

- Raimo Voipio, Chairman of the Board of Directors

JJ

As the global market leader in weather, environmental, and industrial measurements, we see that the requirements for accurate and reliable data will only increase, serving as a source for new growth and innovation opportunities.

Raimo Voipio

Chairman of the Board of Directors

Kai Öistämö

President and CEO

Highlights of the year

Q1





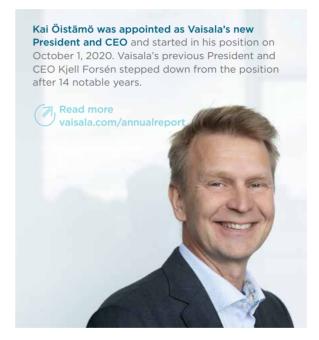
Our solutions were brought to use in the fight against the COVID-19 pandemic.

Our measurement instruments and solutions help customers in vaccine development as well as in the biodecontamination of laboratories and other research spaces.



Read more vaisala.com/annualreport

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We introduced the new cloudbased Vaisala Jade Smart Cloud system for monitoring humidity and temperature. The wireless system is the ideal solution for museums and data centers, for example, as well as for measuring structural moisture at construction sites.



Read more vaisala.com/annualreport

We launched Vaisala Wx Horizon that gathers, analyzes, and visualizes realtime road weather data from different sources, such as mobile sensors on vehicles.



Read more vaisala.com/annualreport

We unveiled the durable Indigo520 transmitter

to enable world-class data and smart decisions also in high-end industrial applications, such as pharmaceutical factories and industrial drying applications. It is part of the modular Indigo product family and can accommodate two probes.



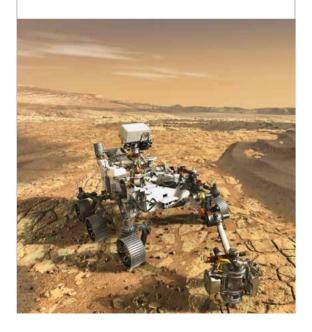
Read more vaisala.com/annualreport



Q3

Perseverance Rover was launched towards Mars. carrying Vaisala's HUMICAP and BAROCAP sensor technologies. Our technology is at the heart of the humidity and pressure sensors. developed by the Finnish Meteorological Institute. The rover gathers information on the Martian atmosphere after landing on the planet in February 2021. Image: NASA/JPL-Caltech







We started to deliver real-time, comprehensive weather data to new Hyundai Motor Company vehicles. The digital Vaisala Infotainment Weather service provides drivers with essential information on weather and driving conditions through the vehicle infotainment system.

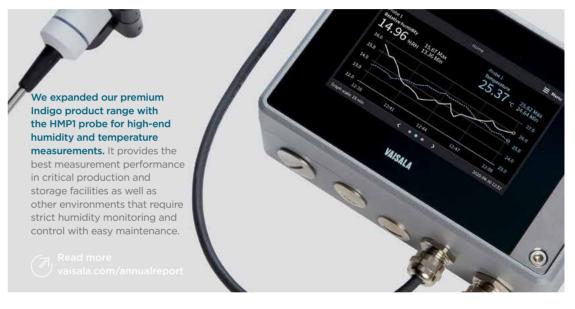


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We brought a unique method for detecting air ingress in sealed power transformers to the market. The method, based on measuring total pressure of all dissolved gases in the insulation oil, helps customers detect and repair air leaks early. This can lead to significant cost savings.



Read more vaisala.com/annualreport





As a member of the RE100 initiative, we achieved our target to utilize 100% renewable electricity in our facilities by the end of 2020.

We were able to achieve the goal within the set timeframe with a combination of selfproduced clean energy and green electricity from local energy companies.



Read more vaisala.com/annualreport

Our business

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- **I1** Business model
- 12 Weather and Environment business area
- 14 Industrial Measurements business area
- **16** Operations





Strategy

Our customer value is built on reliability, science-based technology leadership, industry expertise, engaged and talented employees, as well as strong partnerships. We drive excellence also in the future by focusing on great leadership, continuous learning, and Lean thinking. Furthermore, our strategy work is driven by our values as well as global megatrends that affect our operating environment and provide opportunities for growth. Read more about megatrends on page 22.



Weather and Environment

Global leadership based on best products and solutions

Industrial Measurements

Growth through product leadership



We drive excellence in high-mix, low-volume businesses.

We build our success on

Reliability
Application expertise

Science-based technology leadership

Engaged & talented people

Vaisala Production System Strong financial position Partnerships Sustainability

Our values guide us

Customer focus

We strive for deep understanding of our customers' needs and aim at meeting them in everything we do.

Innovation and renewal

We embrace pioneering innovation and drive change through continuous improvement and learning.

Strong together

We excel by sharing, learning, and working together with each other and our stakeholders.

Integrity

We are honest, respectful, and reliable. We promote sustainable and ethical behavior.

Business model

Partners

- Key customers
- Meteorological institutes
- Distributors
- R&D partners
- · Universities and research organizations
- Manufacturing partners
- Suppliers and sub-contractors

Activities

- Research and development
- Sales and marketing
- Sensor production
- Manufacturing

Delivery models

- 1. Product shipments
- 2. System projects, including installations, testing, and training
- 3. Services, including calibration, maintenance, and digital solutions

Products and technologies

- Large and leading product portfo- Thin-film sensors, infrared gas senlio based on proprietary technologies and technological expertise
- · Measurement sensors and instruments, systems, software, digital solutions, and services for measuring weather, environment, and industrial conditions and processes
- sors, optical liquid sensors, optical weather and process sensors, and radio frequency technologies
- 300 product families*
- * Our 300 product families include approximately 9,000 products.

Cost structure

- R&D investments 14% of net sales
- Personnel costs 154.1 MEUR
- Material costs 108.2 MEUR
- Asset-light business model
- Capital expenditure 31 MEUR

VAISALA

Value propositions

Reliable, high-quality measurements and observations for decisionmaking, safety, and efficiency

Global technology and market leader in weather. environmental, and high-end industrial measurements

> Excellence in high-mix, low-volume businesses

Solid dividend payer



Resources

- Application expertise
- Engaged and talented people
- Vaisala Production System
- In-house cleanroom
- Science-based technology leadership
- Strong financial position

Sales channel

Direct global sales

- Sales organization in approx. 20 countries
- E-commerce

Distribution network

- · Distributors and agents in over 100 countries
- Retailers

Customers in over 150 countries

Customer segments

Wide customer base covering public and private sector customers



WEATHER AND ENVIRONMENT

Meteorology Aviation Ground transportation Renewable energy

INDUSTRIAL MEASUREMENTS

High-end humidity High-end carbon dioxide Continuous monitoring systems Liquid measurements Power and biogas

Revenue streams

Products: 70% of total sales Projects: 16% of total sales Services: 14% of total sales

Net sales 379.5 MEUR EBIT 44.8 MEUR

AMERICAS 36% APAC 29% EMEA 35%

Weather and Environment business area

The customers of Vaisala's Weather and Environment business area focus on people's safety, protection of property, sustainability, and efficient processes, utilizing reliable measurements and decision support systems in all weather conditions. The customers include, among others, meteorological institutes, airports, road operators, and energy companies.

Weather and Environment business area strives for profitable growth by expanding its product and decision support systems portfolio. The main markets are meteorology, aviation, ground transportation, and renewable energy. The business area seeks growth in large meteorological infrastructure projects, software and data services, new customers segments, as well as environmental measurements.

Product categories

- Radiosondes and sounding systems
- Pressure, temperature, and humidity sensors as well as wind sensors
- · Visibility and present weather sensors
- Ceilometers
- · Remote wind sensing instruments
- Lightning sensors
- · Weather stations
- Weather radars
- · Air quality sensors
- Road state sensors

Digital decision support systems for

- Transportation
- · Lightning observations
- · Renewable energy
- B2B weather services
- Smart cities

Partners

- Customers
- Meteorological institutes
- · Governmental organizations
- Universities
- Research organizations

Main markets









Weather and Environment business area

We help our customers to

- prepare for increasing extreme weather events
- ensure the functionality of critical transportation infrastructure
- enhance the production of growing renewable energy
- optimize weather-dependent commercial operations
- make well-informed decisions

Growth through expansion

- Strengthening our position in weather observation products
- Large meteorological infrastructure development projects
- Digital decision support systems
- New business in environmental measurement markets

Competitive advantage

- Science- and application know-howbased technology leadership
- Comprehensive solutions from sensors to analytics
- Reliable partner for creating value throughout the product life cycle

Global market sizes and growth

MEUR	Meteorology	Transportation	Renewable energy	Ambient air quality
Market size*	450-500	300-350	250-300	150-200
Market growth p.a.**	0%	0-5%	10%	5%
Vaisala market share 2020	High	High	Mid	Low
Market size total		~1,300 MEUR / ~20	0% market share	

Market share indication: Low < 10%, Mid 10-25%, High > 25%



In order to ensure their operation, societies and companies need solutions that are based on reliable measurements and impact modelling. Due to extreme weather and air quality challenges, the need for comprehensive solutions in weather and environmental measurements continues to grow.

Jarkko Sairanen

EVP. Weather and Environment

^{*} Vaisala estimate of the size of the market that is addressable currently or with organic development of the business

^{**} Market growth rounded to a whole number divisible by 5.

Industrial Measurements business area

CREATING VALUE

The Industrial Measurements business area has a strong position in its flagship high-end humidity and carbon dioxide measurement markets. We aim to gain momentum in our growth markets: continuous monitoring systems, liquid measurements, and power markets. Additionally, we seek to expand by identifying new growth markets.

Industrial Measurements trusts its product leadership strategy, based on continuous investment in research and development according to customer needs. The business area expands its product portfolio to cloud-based measurement solutions and focuses on strengthening customer experience and service business.

Product categories

- Industrial instruments: The product area serves multiple industries and applications. Key products are instruments optimized for measuring high-end humidity and carbon dioxide as well as hydrogen peroxide vapor.
- Continuous monitoring systems: The most important applications are strictly regulated GxP environments. These are strictly regulated manufacturing and production environments in different industries, such as laboratories, cleanrooms, and warehouses. The product category provides solutions for measuring temperature, humidity, carbon dioxide, dew point, differential pressure, and other critical parameters.
- Liquid measurements: The core industries are, for example, the semiconductor industry, pulp and paper, as well as food and pharmaceutical industries. The process refractometers, developed for industrial processes, measure the dissolved solids in liquids.
- New markets (power and biogas): The product area serves the development of the energy sector by offering measurement solutions for the power and biogas industries. The most important instruments are the multigas DGA monitors, developed for continuous monitoring of high voltage power transformers, and products for biogas process optimization.

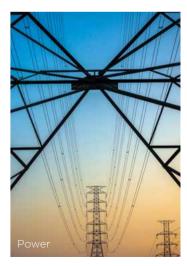
Main markets











ts

Industrial Measurements business area

Industrial Measurements helps customers to improve

- product quality
- productivity
- · energy efficiency
- maintenance activities
- · regulatory compliance

Partners

- End-users
- Original equipment manufacturers
- Integrators
- Distribution network
- Research and development partners
- Manufacturing partners and suppliers

Competitive advantages

- Science- and research-based technology leadership combined with strong application expertise
- Best customer experience
- Fast delivery times
- Global sales and services network





Despite the world-changing pandemic, we continued to grow thanks to our sales picking up at the end of the year. Orders increased especially in industrial instruments, monitoring systems aimed for health technology, as well as solutions for power transformer condition monitoring.

Sampsa Lahtinen
EVP. Industrial Measurements

Global market sizes and growth

MEUR	Industrial instruments	Continuous monitoring systems	Liquid measurements	New markets: power and biogas
Market size*	600-700	150-200	80-100	220-270
Market growth p.a.**	5%	10%	5%	10%
Vaisala market share 2020	Mid	Mid	Mid	Low
Market size total	~1,200	MEUR / ~10% mark	et share	

Market share indication: Low < 10%, Mid 10-25%, High > 25%

^{*} Vaisala estimate of the size of the market that is addressable currently or with organic development of the business.

^{**} Market growth rounded to a whole number divisible by 5.

Operations

Vaisala Operations manufactures products for both business areas and develops operational excellence in high-mix, low-volume supply chain. The command of a large product portfolio without compromising quality has always been Vaisala's core strength. The basis lies in Vaisala Production System.

The threefold Production System incorporates a Lean management system, systematic improvement, and standardized ways of working. In addition, Operations' strategy is guided by strategic choices: in-house manufacturing of key technologies and partnership-based sourcing.

Operations focus areas in 2020

In the previous productivity program, we aimed to increase productivity by 20 percentage points in comparison to 2016, and we achieved this great target by the end of 2019. In 2020, we shifted our development focus to improving our supply chain. We also continued to integrate the operations of Leosphere, acquired in 2018.

The strategic development areas in 2020 were:

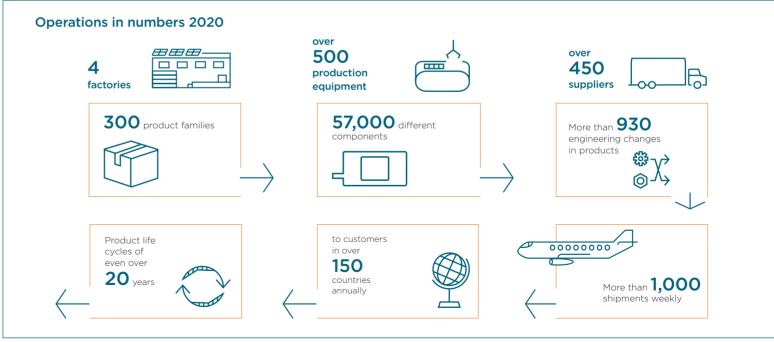
- further development of Vaisala Production System
- improving the product development process together with research and development
- · supply chain quality improvement
- Intelligent Factory project for identifying and adopting new technologies





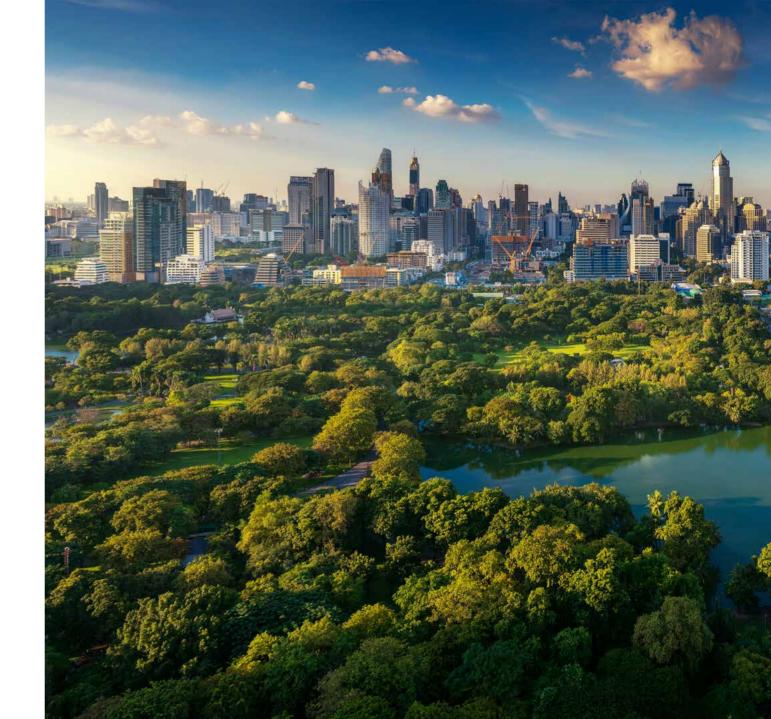
Despite the COVID-19 pandemic in 2020, we managed to continue operations and keep up our excellent delivery capability. This achievement was greatly thanks to our Operations employees, whose health and safety were taken care of during the year. This guarantees a strong position for us also in the future.

Vesa Pylvänäinen EVP, Operations



Creating value

- **18** UN Sustainable Development Goals
- 20 Value creation model
- **21** Dashboard
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- 24 Stakeholder engagement
- **25** Value for customers
- **27** Value for employees
- 29 Value for society and the environment
- Value for investors



UN Sustainable Development Goals

In 2020, we continued developing our business and practices in line with the UN Sustainable Development Goals that are the most relevant for Vaisala. Solutions that benefit society and the environment have always been at the core of our business. Integrating the goals to our strategy work helps us to better assess our impacts on sustainable development and get inspiration for developing new business and sustainable practices.

Sustainable solutions

Weather and Environment business area

UN Sustainable

Development The most relevant

Goal (SDG) UN SDG targets for Vaisala 13 CLIMATE

13.1 Strengthen resilience and
adaptive capacity to climate-
related hazards and natural
disasters in all countries.

- 13.3 Improve education. awareness-raising, and human and institutional capacity on climate change mitigation, adaptation, im
 - dropsondes
- pact reduction, and early warning. 7.2 By 2030, increase the share of renewable energy in the global
- 7.3 By 2030, double the global rate of improvement in energy efficiency.

energy mix substantially.



▼ AFFORDABLE AND

CLEAN ENERGY

- 11.2 By 2030, provide access to safe, affordable, accessible, and sustainable transport systems for all.
- 11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality.

Vaisala's solutions Read more

Reliable weather measure-Megatrends: Climate change ments and observations Value for customers: Quality of climate change Value for society and the Meteorological infrastrucenvironment ture development projects

Measuring hurricanes with

Optimizing wind and solar power production

Air quality measurement

networks

Megatrends: Renewable energy Value for customers

Improving the safety of Highlights of the year transport systems

Megatrends: Resource efficiency and circular economy, Green and smart cities. Future of mobility. Digitalization

Value for society and the environment: Resource efficiency

Industrial Measurements business area

UN Sustainable

Development The most relevant

Goal (SDG)

Γ	
	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
	AND IN NACINGUIONE

UN SDG targets for Vaisala

9.4 By 2030, upgrade infrastruc-

ture and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes.

energy mix substantially.





7.2 By 2030, increase the share of renewable energy in the global



3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services, and access to safe, effective, quality, and affordable essential medicines

and vaccines for all.

Monitoring of conditions in medicine manufacturing, storing, and supply chains Monitoring of conditions

in hospitals and

laboratories

Vaisala's solutions

Improving resource

Improving energy

Improvina eneray

Biogas production process optimization

processes

ventilation

efficiency in industrial

efficiency in buildings

by demand-controlled

efficiency with industrial

measurement solutions

Read more Highlights of the year

Megatrends: Climate change, Resource efficiency and circular economy, Green and smart cities Value for customers Value for society and the envi-

ronment: Resource efficiency

Megatrends: Renewable energy. Smart energy distribution and consumption, Green and smart cities. Digitalization Value for customers:

Productivity Value for society and the environment: Resource efficiency, Safety

Highlights of the year Megatrends: Well-being and

health, Digitalization Value for customers: Quality

Value for society and the

environment



CREATING VALUE

Sustainable business practices

UN			

VAISAI A

Development Goals (SDG)

The most relevant UN SDG targets for Vaisala

practices

Design for the environ-

ment and long product

% of employees

14001 certified sites

working on ISO

Recycling rate

Environment: Environmental management. Waste. Sustainable product design and management









12.2 By 2030, achieve the sustainable management and efficient use of natural resources.

12.4 Achieve environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water, and soil in order to minimize their adverse impacts on human health and the environment.

12.5 By 2030, reduce waste generation substantially through prevention, reduction, recycling, and reuse.

7.2 By 2030, increase the

share of renewable energy

in the global energy mix

7.3 By 2030, double the

in energy efficiency.

global rate of improvement

substantially.

warning.

life cycles Enabling safe use and end-of-life processing of products Increasing the recycling

Using renewable electricity Improving energy efficiency in our facilities

% of renewable electricity Energy use and energy intensity Scope 2 emissions

Highlights of the year Environment: Energy and emissions



13.3 Improve education, awareness-raising, and human and institutional capacity on climate change mitigation, adaptation, impact reduction, and early

Decreasing indirect emissions for example from commuting Raising awareness of climate change

and encouraging

personnel's climatefriendly choices

Scope 3 emissions

Value for society and the environment: Active community outreach and scientific collaboration Environment: Environmental management, Energy and emissions

UN Sustainable

Development Goal (SDG)

The most relevant UN SDG targets for Vaisala

Vaisala's business practices

Positive economic

Indicators

Economic value

Read more



8.1 Sustain per capita economic growth in accordance with national circumstances.

GOVERNANCE

8.7 Take immediate and effective measures to eradicate forced labour, end modern slavery and human trafficking, and by 2025 end child labor in all its forms

8.8 Protect labour rights and promote safe and secure working environments for all workers.

impact on communigenerated and ties through employdistributed ment and taxes, both % of suppliers directly and through rated with FSG supply chain metrics and suppliers that Upholding labor standards and have signed the occupational health Supplier Code of and safety as well

Conduct as managing human Total Recordable riahts risks in our Injuries rate (TRI), own operations and Proactive reports. partner network Employees in health and safety committees

Value for society and the environment: Economic value Ethics and compliance: Respect for human rights, Conflict minerals

Responsible supply chains Occupational health

and safety



10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies, and practices and promoting appropriate legislation, policies, and action in this regard.

Promoting diversity and providing equal opportunities, for example, in recruitment and development opportunities

Gender distribution (All/ Supervisor/ Management/ Board) Equality in

remuneration

Personnel: Diversity and equality



16.5 Reduce corruption and bribery in all their forms substantially.

Ensuring compliance with our International Anti-Corruption Policy

% of employees completed the Code of Conduct training

Ethics and compliance: Prevention of corruption and bribery

OUR YEAR CREATING VALUE

Value creation model

We create value in continuous interaction with our stakeholders. Our business leaves a positive handprint on society especially through our customers. With our solutions they can make reliable decisions and improve their productivity and processes in the areas of weather and environment as well as industrial measurements. This way we are also able to have an impact on current challenges, related to different megatrends, and contribute to the United Nations' Sustainable Development Goals by increasing awareness, resource efficiency, and safety in societies.

Our fundamentals

RELIABILITY

APPLICATION EXPERTISE

SCIENCE-BASED
TECHNOLOGY LEADERSHIP

ENGAGED AND TALENTED PEOPLE

VAISALA PRODUCTION SYSTEM

STRONG FINANCIAL POSITION

PARTNERSHIPS

SUSTAINABILITY





Dashboard

Our fundamentals	Topic	Performance 2020	Target
Reliability	On-time delivery accuracy (OTD)*	94.6% (94.8%)	96%
Vaisala Production System Partnerships	Product and delivery nonconformity rate	2.2% (1.7%)	Continuous reduction
Engaged and talented poople	Employee Engagement Index	4.23/5 (4.12/5)	> 4.00/5
Engaged and talented people	Learning Index	3.88/5 (3.84/5)	> 4.00/5
Science-based technology leadership Application expertise	R&D investments, % of net sales	14% (13.1%)	Over 10% of net sales
	Net sales growth year-on-year	-6% (16%)	> 5% growth year-on-year
Chang financial maritian	EBIT % of net sales	11.8% (10.2%)	> 12%
Strong financial position	Return on equity (ROE)	16.3% (17.7%)	
	Earnings per share (EPS), euros	0.91 (0.94)	
	Greenhouse gas emissions (Scope 1-3) in relation to net sales	33.9 tonnes CO₂e/ MEUR (47.1 tonnes CO₂e/MEUR)	Continuous reduction
	Carbon footprint reduction, Scope 2	97% from 2014 baseline (90%)	> 90% by 2020
Custainability	Renewable electricity of Group consumption	100% (93%)	100% by 2020
Sustainability	Waste recycling rate	59% (53%)	Continuous improvement
	Total recordable injuries rate (TRI)	2.0 injuries per million working hours (2.6)	Continuous reduction
	Suppliers scored for ESG metrics, % of spend	83% (82%)	Continuous improvement

^{*} Does not include Leosphere, acquired in the fall of 2018.

Megatrends

Global megatrends are transformational shifts that provide both a source of innovation and opportunities for growth for Vaisala. We constantly assess markets and technologies to find new ways to engage with these megatrends. Together with our customers, we create solutions to the pressing societal, environmental, and industrial needs and challenges posed by these megatrends.



CLIMATE CHANGE

Climate change increases extreme weather and creates a chain of societal, environmental, and economic effects. Vaisala helps customers to establish weather observation networks and build up capabilities to improve their capacity to predict extreme weather. We help nations to observe climate change and become more resilient to its impacts with first-rate environmental observations, forecasting, and early warning systems. We support the scientific community in increasing knowledge of climate change. Vaisala's instruments can also be used to measure carbon sequestration of natural carbon sinks.

Vaisala's measurement instruments offer industrial customers better visibility into their processes. Precise and reliable measurement data enables them to make choices that enhance production process efficiency as well as decrease emissions and thus also the carbon footprint of end-products.



RESOURCE EFFICIENCY AND CIRCULAR ECONOMY

Vaisala's measurement instruments make production more efficient, improve productivity, as well as help to decrease the loss of materials and save both energy and natural resources. Our durable and long-lasting instruments enable industrial customers to optimize their processes, resource efficiency, and end-product quality.

With Vaisala's road weather solutions, road transportation customers plan and allocate maintenance resources, such as maintenance routes and de-icing during winter, as well as evaluate the need for pavement repairs in the road network.



RENEWABLE ENERGY

Various forms of clean and renewable energy are becoming increasingly competitive and common and help to mitigate climate change. Vaisala's measurement technologies help to make wind and solar power plants even more efficient.

Accurate measurements enable our customers to select the optimal site for their wind parks, for example, as well as monitor, predict, and plan operations. Weather observations can also be utilized to optimize hydroelectric power plants.

Biogas provides significant opportunities for industrial needs and transportation. Vaisala's measurement solution for biogas process optimization helps to generate more value from waste by decreasing production costs and increasing the efficiency of the biogas plant. Vaisala's products enable also the optimal performance of fuel cells in the hydrogen economy.



SMART ENERGY DISTRIBUTION AND CONSUMPTION

Global energy demand is increasing: to meet the future needs, production and consumption of energy needs to become more efficient. Vaisala's measurement technologies help to optimize many industrial processes, improving energy efficiency and operations in a multitude of energy intensive industries. The energy efficiency of buildings is also enhanced with measurements of humidity, carbon dioxide, and temperature, as ventilation is adjusted based on the demand.

In power production, Vaisala supports smart electricity grids with lightning detection networks and online condition monitoring of power transformers. With Vaisala's devices and precision weather forecasts, energy demand can also be anticipated, enabling further optimization of energy distribution and production.

OUR YEAR

CREATING VALUE

SUSTAINABILITY

GREEN AND SMART CITIES

As population, traffic, and finance concentrate increasingly in the same areas, it affects the conditions and weather dependency in cities. Vaisala provides reliable instruments, systems, and digital solutions to measure and model air quality, road weather, as well as urban weather and microclimates. This helps smart cities to overcome their challenges with urbanization and make informed decisions regarding sustainability, economic growth, safety, and well-being.

We offer diverse and advanced measurement technologies for buildings, industrial environments, and automatized industrial processes. Such environments include, for example, smart buildings, subway networks, industrial hubs, and large manufacturing facilities. In addition, we support sustainable construction in cities: Vaisala's smart and wireless solution monitors the structural moisture of concrete and saves the data safely in a cloud service, provided by Vaisala.



FUTURE OF MOBILITY

Automation, digitalization, and innovative energy sources change traffic and the modes of transportation. Vaisala provides solutions that combine measurement technologies, computer vision, weather forecasts, and open data, thus delivering relevant information to the operators and users of road infrastructure. Based on that data, they can make suitable decisions and ensure the safety and efficiency of road, rail, sea, and air transport. Furthermore, Vaisala provides cars' navigational systems with weather data that will be essential also for autonomous vehicles and drones in the future.

In addition, Vaisala's solutions enable the use of high-quality fuel cells, lithium batteries, and biogas as the energy source of vehicles.



WELL-BEING AND HEALTH

By monitoring environmental indoor and outdoor conditions, people's health and well-being can be secured. Vaisala's solutions help to ensure safe and healthy living, working, and production conditions inside buildings. Accurate and reliable monitoring of prevailing conditions is particularly important, for example, in laboratories and hospitals as well as in the cold storages and incubators in these buildings. Our solutions are also used to monitor the development and manufacturing conditions in the strictly regulated pharmaceutical industry and supply chains as well as in the biodecontamination of spaces and equipment.

Outdoors, Vaisala's ambient air quality sensors monitor urban environments and provide data for better decision-making to improve health and quality of life.



DIGITALIZATION

Digitalization transforms ways of working and provides Vaisala with the opportunity to offer SaaS services. Weather observation networks provide data for governmental organizations, research organizations, and the public. Air quality and weather sensors can be connected seamlessly to the needs of smart cities, new data sources, and IoT technologies. Our computer vision application optimizes road maintenance and provides data for autonomous vehicles. By fusing artificial intelligence, machine learning, and different data sources, we help customers to optimize their operations based on weather and environmental conditions.

In the industrial business, we offer interfaces for our customers' systems, enabling reliable data transfer between systems and smooth process control. In the strictly regulated pharmaceutical industry, digital records and reporting provide improvements for our customers' operations and regulated reporting. Vaisala's instruments monitor also the conditions and energy efficiency in data centers.

Stakeholder engagement

Our stakeholders influence the future of our business, and we work in an open and continuous interaction with them.

In 2020, meetings and communication with employees and other stakeholder groups were largely organized in digital communication, sales, and marketing channels due to the COVID-19 pandemic. For instance, the Annual General Meeting for shareholders as well as other investor and analyst meetings were held virtually.

We identify and evaluate our stakeholders as part of our sustainability management and preparatory work for strategy updates. The stakeholder analysis and materiality assessments are typically updated annually. The process can be an internally conducted update, or it can involve surveying or interviewing key stakeholders.

We determine the impact of various stakeholders on the company and analyze how our actions in turn affect them. We maintain a constant dialogue with our most important stakeholders and actively seek partnerships and joint opportunities with customers, suppliers, academia, research institutes, and other parties.

Description Main activities Thousands of private and public sector Continuous customer relationship development and **Customers** customers in more than 150 countries management, e.g. in online channels, meetings, events, and exhibitions Distributors in more than 100 countries • Ongoing online surveys on customer training and field services operations as well as on technical support and services **Employees** Over 1,900 professionals globally • Learning and career development opportunities Monitoring employee satisfaction and well-being Active internal communications **Society and** Universities and research collaborators. Partnerships and collaboration with academic and the environment meteorological institutes, manufacturing scientific institutions partners and suppliers, governments and Scholarships and donations regulators, local communities, the media, and the public • Close cooperation with our global supply chain · Sharing expertise with external organizations and decision-makers • Raising awareness of environmental issues among experts and the public Continuous improvement of media relations, press releases, and activity in social media Major shareholders include descendants • Quarterly result presentations and Q&A for investors, **Owners and investors**

analysts, and the media

Annual General Meeting

· Stock exchange releases

ence calls

· Roadshows, investor and analyst meetings and confer-

of the founder Professor Vilho Väisälä.

other financial institutions, the Finnish Academy of Science and Letters, and private

shares on December 31, 2020

Novametor Oy, Finnish pension funds and

households. Ownership outside Finland and

nominee registrations amounted to 19.3% of

OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Value for customers

Vaisala's technologies and solutions help safeguard life and property, while enabling critical decision-making that facilitates productive, efficient, and high-quality operations. By measuring the environment or a process accurately, our customers can make more reliable decisions and ensure more efficient, safer, and more sustainable operations in any application area.

Reliable decisions

We enable our customers to make reliable decisions based on accurate environmental observations. For example, investments in wind energy production are based on reliable data on wind conditions and wind field performance. Our remote wind sensing solutions as well as our data services help customers to make profitable investments and decisions. With our solutions, they are able to select the best possible location for efficient wind energy production, monitor profitability as well as increase the performance of their wind park.

With Vaisala's measurement instruments, industrial customers can optimize their processes to achieve the best result. For example, in many industrial drying applications, reliable humidity measurement data helps to adjust drying conditions to the optimal level as well as ensure end-product quality and energy efficiency.



Productivity

Vaisala's solutions improve the cost efficiency of our customers' operations as well as increase productivity. For instance, Vaisala's innovative MGP261 multigas instrument for the optimization of biogas process enables biogas plants to generate more value from waste. The instrument measures humidity, methane, and carbon dioxide directly from the production process. In 2020, the instrument won a Finnish innovation competition.

Vaisala's automatic sounding systems enable flexible remote soundings, reducing costs. The systems make it possible to carry out automatic soundings for one month at a time, relieving resources for critical weather forecasts. Thanks to these sounding systems, national weather services can extend the coverage of their upper-air networks to geographically hard-to-reach locations. In January 2020, Vaisala finalized a sounding project with NOAA (National Oceanic and Atmospheric Administration) in the remote and challenging Alaska.

Quality

High-quality products and services have always been at the core of Vaisala, but it is equally important to us that our customers can ensure the quality of their own end-products and operations with the help of our technologies and expertise. For example, Vaisala's weather observing systems provide reliable and comparable observations that likewise support reliable weather forecasts and climate projects.

Accurate monitoring of industrial processes and test chambers helps to guarantee high-quality products. For instance, in the food industry as well as the pharmaceutical industry, liquid concentrations need to be measured in every batch in each factory to ensure even quality. The process refractometer, developed for industrial liquid measurements. provides our customers with accurate digital data on the liquid concentration and thus indicates end-product quality.

Read more examples of how Vaisala creates value for customers at vaisala.com/annualreport.

Case

CREATING VALUE

Value for customers



Vaisala launched Windcube Insights software for its Windcube Nacelle customers

Windcube Nacelle is a lidar, mounted on the nacelle of a wind turbine. The new WindCube Insights analytics software provides customers with accurate and open data through a web service, which enables them to make sure that their wind farms are performing efficiently.



Case



Vaisala's Indigo520 transmitter improves control of malting process

Vaisala's Indigo520 transmitter helps the highquality malt producer Viking Malt to monitor humidity conditions inside the malting process. By adjusting moisture, the high quality and compliance of products are ensured. In addition, continuous monitoring enables them to save costs.



OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Value for employees

Vaisala offers versatile opportunities for talented and motivated professionals who value work with a purpose and learning opportunities. We support the well-being of our employees and want to make sure they have the chance to develop at work.

Purposeful work

Vaisala's products and solutions have true positive influence on the environment, societies, businesses, and individuals, and our employees are motivated by the opportunity to solve the challenges of our time. Sustainable and ethical behavior is an integral part of the values of both Vaisala and our employees. We invest significantly in research and development, which guarantees that we can continue to respond to global issues also in the future as well as grow our business sustainably. This increases the meaningfulness of working in Vaisala.

Our annual employee survey was conducted in November 2020. The survey shows that Vaisala's employees were engaged and proud of their work even amidst changes. During the exceptional year, many of our employees worked remotely and teams developed new ways of working to keep up the meaningfulness of their work and serve customers. The Engagement Index in the survey continued its rising curve and was 4.23 on a scale of 1–5. The survey had a response rate of 85%, with answers from 1,574 employees.

We focus on good and motivating leadership, and we support managers and experts systematically in developing their leadership skills by organizing different training programs and courses. In the beginning of the year, we implemented a new bonus model that enables



VAISALA

Value for employees

managers to reward their team members immediately for outstanding performance. The feedback concerning the model has been positive. and it has provided managers with better opportunities to guide and motivate their team's work to the wanted direction.

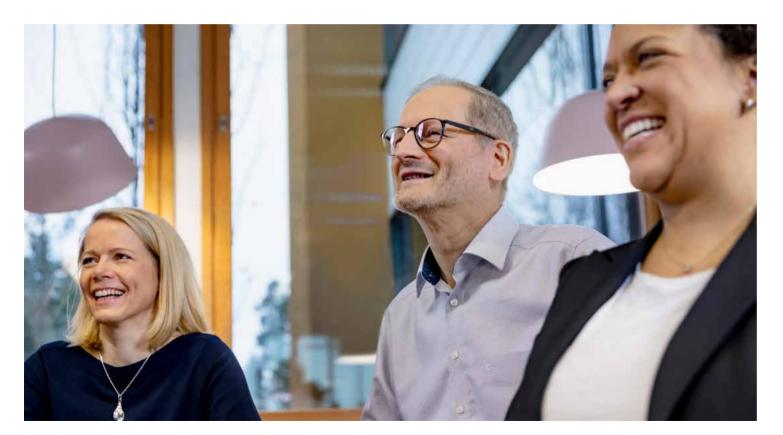
The Leadership Index remained on a good level and was 4.18 on a scale of 1–5. The key strengths of Vaisala managers are fairness and objectivity, ability to listen, as well as positive attitude towards initiatives.

Well-being

CREATING VALUE

At Vaisala, well-being at work is regarded as a whole, including the work community, leadership, the company, and the individuals themselves. Thus well-being consists of good leadership, motivating work community, balanced workload, meaningful work, as well as a safe working environment. As preventive measures, Vaisala supports well-being and energy at work by supporting sports and recovery. providing occupational healthcare, and preventing problems early on.

With these preventive measures, we aim to support our professionals in managing their work, ensuring recovery, and maintaining a



healthy lifestyle. In Finland, we provide our personnel with sports and recreational clubs, sport and cultural benefit, well-being weeks. trainings on time management and recovery, as well as the opportunity to participate in a well-being analysis on stress and quality of sleep. In 2020, we introduced virtual break exercises to support ergonomics and well-being: their importance was especially heightened in remote work during the year. In the United States, the Vaisala FIT program supports the well-being of employees.

Employee well-being is measured regularly in Vaisala employee surveys. The results show that Vaisala employees find their work meaningful and they feel that they are appreciated and treated equally. There is some room for development in ensuring that workloads are manageable. In November 2020, Vaisala Well-Being Index score was 4.01 on a scale of 1-5 and increased a little compared to the previous year.

During 2020, we also conducted two personnel surveys on how our personnel experienced the changes brought by the COVID-19 pandemic. According to the results, our personnel has adjusted well. We have supported managers by organizing trainings on virtual leadership as well as communicated regularly about the changed practices, for example concerning remote work.

Learning and development

Vaisala's competitive strength stems from our talented, motivated, and engaged personnel. Changes in the business environment, technologies, working methods, and tools require our employees to learn and take in new things continuously. We support and encourage the whole personnel to actively develop and keep up their knowledge and expertise.

During 2020, we encouraged managers to increase virtual discussions regarding the goals, development needs and well-being of their team members. Managers play an important role in enabling and supporting learning, and it is the responsibility of all managers to plan development and learning activities together with their teams. Developing expertise and knowledge is always in line with Vaisala's values as well as our business needs and objectives. Defining competence development needs is part of the annual People Forum process.

In November 2020, Vaisala Learning Index, derived from the personnel survey, was 3.88 on a scale of 1-5. Employee training costs amounted to 1.13 MEUR and averaged 591 EUR per employee in 2020.

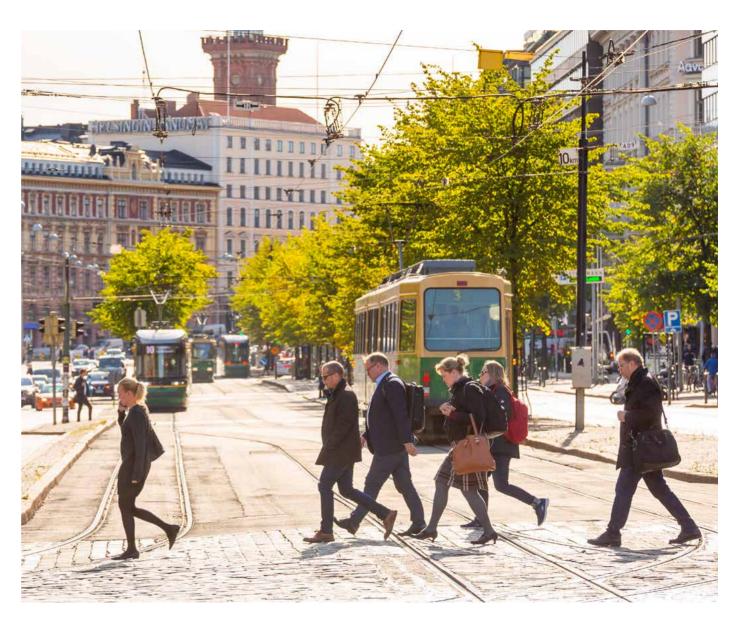
Value for society and the environment

We bring value to societies through accurate and reliable environmental measurements as well as decision-making support for national and local authorities and businesses. This way we help societies become better-informed, more resource efficient, and safer. In addition, we create value through significant investments in R&D and collaboration with the scientific community.

Better-informed societies

Vaisala works together with nearly all meteorological institutes in the world, supporting them in gathering accurate weather observations for weather forecasts that are critical for societies. We also collaborate with international funding agencies and weather experts to build capacity for weather observing networks and competence in developing economies. This way we help these societies to be better prepared for extreme weather and its impacts.

Health services are also one of the foundation pillars of an informed society, and for example hospitals require accurate and reliable environmental monitoring of their various activities. Vaisala's viewLinc Continuous Monitoring System monitors the critical parameters in, among other spaces, blood and tissue banks, where continuous monitoring ensures that the materials are preserved and remain viable. Our solutions are also widely used to monitor the manufacturing and storing of different medicines, such as the vaccine for COVID-19 in 2020.



Value for society and the environment

CREATING VALUE

Resource efficiency

VAISALA

Vaisala's measurement solutions improve resource efficiency in various industrial production processes. Accurate measurements enable our customers to optimize their production as well as reduce their energy consumption and material loss. With the data from Vaisala's measurement instruments, the air conditioning in data centers can be optimized energy efficiently, for example.

Vaisala's road weather stations and MD30 mobile detectors provide real-time data that, combined with road weather model, heat maps, and information systems, help to optimize road winter maintenance. Timely decisions on anti-icing, de-icing, and snow ploughing increase safety and resource efficiency as well as reduce the environmental effects of chemicals used in road maintenance.

Safety

Our technologies help our customers maintain safe operating environments in many parts of society. Extreme weather, such as hurricanes, can have devastating consequences for local economies and livelihoods. Vaisala's hurricane-tracking dropsondes can make in situ measurements inside a hurricane, providing essential information for forecasting its path and intensity. This advance information helps to safeguard both lives and infrastructure.

The essential institutions in society, such as hospitals and production facilities, consume electricity to guarantee safe operations. Our solutions make it easy to maintain and monitor the devices that are critical for power production and distribution, such as high voltage transformers. Continuous transformer condition monitoring supports smart power grids, where electricity consumption is controlled and adjusted as needed. With reliable online monitoring, operators can move from reactive operations to preventive maintenance, which enables them to detect faults in time and thus prevent power outages that would risk the safety and operation of society.

Read more examples of how Vaisala creates value for society and the environment at vaisala.com/annualreport.

Case



The sky is no limit: Vaisala's sensor technology on its way to Mars

International and scientific collaboration takes Vaisala and the Finnish Meteorological Institute's (FMI) measurement expertise once again to Mars, this time onboard the Perseverance Rover. Cutting-edge humidity and pressure instruments gather scientific data of the planet's conditions. Vaisala's core technology provides accuracy and stability in a challenging environment.



Case

Vaisala's system monitors medical assets in the Finnish **Red Cross Logistics Centre**

The Finnish Red Cross Logistics Centre is full of medicines and other necessities for emergency response - supplies that can also be delivered to disaster areas when needed. Vaisala's viewLinc Continuous Monitoring System helps to ensure that the medical assets are stored in the right conditions.







OUR YEAR

CREATING VALUE

Value for society and the environment

SUSTAINABILITY

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Case

To launch or not to launch: the impact of weather on space launches

Space launches are precise and expensive missions, where safety is not compromised. Weather conditions, such as wind and lightning, have a significant impact on the planning of the launch and resources, which is why accurate weather measurements play a key role.



Economic value

Vaisala has a positive impact on local communities through employment and taxes, both directly and through its supply chain. Responsible business practices and use of local suppliers create indirect benefits to local communities.

Vaisala as taxpayer

Vaisala's head office is located in Vantaa, Finland. Vaisala has established subsidiaries and branches in 16 countries. Our group structure is simple, and we have companies only in countries where we do business. In addition to the tax data published in the financial statement, Vaisala provides here more information on its approach to tax, tax management, and global tax footprint.

Approach to tax

Vaisala's values are the basis of all our activities, both within Vaisala and with our partners and customers. We value integrity: we are honest, respectful, and reliable. We promote sustainable and ethical behavior. We recognize that Vaisala has a liability to pay taxes that are legally due in any country in accordance with the rules set by the relevant authorities. Vaisala also has a responsibility to its shareholders to structure its

Direct economic value generated and distributed in 2020

MEUR	2020	2019	2018	2017	2016
Net sales	379.5	403.6	348.8	332.6	319.1
Operating costs	-162.2	-181.9	-166.2	-152.8	-144.8
Employee wages and benefits	-154.1	-157.7	-133.6	-129.9	-128.4
Payments to providers of capital ¹	-22.4	-21.1	-40.2	-17.8	-17.1
Payments to governments ²	-6.6	-8.4	-8.4	-8.7	-7.9
Community investments (donations)	-0.1	-0.2	-0.1	-O.1	-0.7
Economic value retained	34.1	34.2	0.3	23.2	20.2

Direct economic value generated and distributed in 2020

Net sales	379.5 M
	Operating costs -162.2 M
Employee wages and benefits	-154.1 M
Payments to providers of capital ¹	-22.4 M
Payments to governments ²	-6.6 M
Community investments (donations)	-0.1 M
Economic value retained	34.1 M

¹ Includes dividends and interest of borrowings

² Includes income taxes



OUR YEAR

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Value for society and the environment

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business in an efficient manner to ensure that strategic business objectives are met without incurring unnecessary tax costs.

Vaisala is committed to ensuring that it follows local and international tax rules and regulations in all jurisdictions where it conducts its business. We do not operate in tax haven countries for tax reasons. Vaisala does not practice tax planning that would aim at artificially decreasing the Group's taxable income. We pay and report taxes in countries where the reporting obligations are applicable as a result of our activities.

Vaisala's transfer pricing is aligned with the arm's length principle in accordance with OECD Transfer Pricing Guidelines. The rationale of the chosen transfer pricing methods is properly documented. We comply with OECD transfer pricing guidelines and local legislations in relation to all our intercompany transactions.

Tax management

The tax team within centralized Finance & Control function is responsible for managing and monitoring tax matters at Vaisala group level. Important matters of principle are presented and approved by the Audit Committee in Vaisala's Board of Directors.

Vaisala Group has outsourced a large part of its foreign recurring tax compliance work to a few professional service providers to ensure competences and resources in complying with the local rules and regulations. Vaisala Finance & Control regularly monitors the transparency, quality, and outputs of these outsourcing engagements.

Global tax footprint

To ensure focus on process implementation and comparable data collection, Vaisala decided to start its tax footprint initiative in 2019. Vaisala reports paid corporate income taxes, value added taxes, payroll taxes, excise taxes, and property taxes for the financial year 2020 and comparable figures for 2019. The principle of materiality has been observed in the collection and presentation of figures.

Vaisala benefits from R&D tax credits in the United States, Canada, and France. In addition, Vaisala has prior year tax losses in its subsidiaries located in the United States and France, which reduced their corporate income tax payments in 2020. The tax contribution of the parent company in Finland totaled 31.4 (26.2) MEUR in 2020.

Total taxes paid 2020 - Vaisala Group

Tax	Paid in 2020 (MEUR)	Paid in 2019 (MEUR)
Corporate Income Tax (CIT)	7.7	9.0
Value Added Tax (VAT)	10.4	10.8
Payroll Tax	32.6	28.9
Property Tax	0.6	0.5
Electricity Tax	0.1	0.1
Total	51.5	49.3



Corporate Income Tax (CIT) (18%)

Value Added Tax (VAT) (22%)

Payroll Tax (59%)

Property Tax (1%)

Electricity Tax



14% Americas 7.2 MEUR (9.4)
8% APAC 3.9 MEUR (4.1)
78% EMEA 40.2 MEUR (35.9)

Active community outreach and scientific collaboration

In addition to Vaisala's own research and development work, scientific collaboration strengthens our position as an industry pioneer and an innovative technology leader. Vaisala continues to be a contributor to many organizations, advancing technological development in several fields of study as well as supporting higher education, research, and science education.

Vaisala is a wide-ranging, research- and innovation-focused technology company, and our collaboration partners include several different organizations, research institutions, corporations, meteorological institutes, and universities from around the world and from different fields of technology. Therefore, instead of an exhaustive list of all our cooperation projects, we introduce illustrative and significant examples of our work in the scientific community and society.

Participating in the most significant scientific commissions and organizations in our field

Vaisala's solutions are used to observe and measure aviation weather, and thus Vaisala is active in the International Civil Aviation Organization (ICAO), a specialized agency of the United Nations (UN). The World Meteorological Organization (WMO), likewise an agency of UN, coordinates the study of the state and behavior of the Earth's atmosphere, including weather and climate. Vaisala participates in various expert teams and commissions working under and recognized by WMO. These groups focus on developing weather observations and forecasts globally. Such expert teams include the Commission for Instruments and Methods of Observation (CIMO) as well as the Association of Hydro-Meteorological Equipment Industry® (HMEI) and its Commission for Basic Systems (CBS).

We also participate in various industry standards development work in fields that are important to us, for example as a member of the European Telecommunications Standards Institute (ETSI) as well as in different national committees and groups of the International Electrotechnical Commission (IEC). Vaisala has also participated in the working groups of CIGRE (Conseil International des Grands Réseaux Électriques): the documentation created in these groups forms, for the most part, the basis for IEC's standards. In 2020, Vaisala's Industry Expert Senja Leivo was appointed as a member of CIGRE's Study Committee D1 that focuses on materials and emerging test techniques.

In Finland, Vaisala operates in close cooperation with various scientific stakeholders, including the Finnish Meteorological Institute (FMI), VTT Technical Research Centre of Finland Ltd., the Helsinki Region Environmental Services Authority HSY, and different universities. Vaisala has representation in the Technology Industries of Finland organization, and we cooperate with Technology Academy Finland TAF as a Millennium Technology Prize partner.

In the United States, our collaboration partners comprise, for example, the National Oceanic and Atmospheric Administration (NOAA) and the National Centre for Atmospheric Research (NCAR). Vaisala is also a strong contributor and corporate sponsor to the American Meteorological Society (AMS) that is a leading scientific organization dedicated to atmospheric, oceanic, and hydrologic sciences. In addition to sponsorships, Vaisala representatives contribute to the AMS through

Vaisala funds two Professor Dr. Vilho Väisälä Awards

The awards are administered by the World Meteorological Organization (WMO). They are granted to distinguished research in the field of environmental measurement instruments and observation methods as well as meteorological instrument work in developing countries and countries with economies in transition. Both awards carry a cash prize of 10,000 USD, and they are granted in connection with the CIMO TECO conference every other year. In 2020, the conference and awards were postponed until 2021 due to the COVID-19 pandemic.

several activities, such as scientific committees, journals, and articles.

Regarding software development, Vaisala is a long-term member in the Open Geospatial Consortium (OGC), developing global, open geospatial standards and APIs (Application Program Interface). In the Open Mobile Alliance, we participate in developing open and modern solutions for software device management. We also contribute to the CAR 2 CAR consortium that advances the digital interfaces in vehicles.

Seats in different sustainability and commerce organizations

We are active in the International Chamber of Commerce (ICC) Finland, which promotes international trade and investment worldwide. Vaisala is also a member in FIBS, Finland's leading corporate responsibility network, and in the Climate Leadership Coalition (CLC). The purpose the CLC is to improve the competitiveness of Finnish businesses and research organizations as well as their ability to respond to the threats posed by climate change.

VAISALA

Value for society and the environment

CREATING VALUE

Vaisala is a shareholder and research partner of CLIC Innovation Oy. CLIC is an open innovation cluster with the mission to create breakthrough solutions in bioeconomy, energy, and cleantech by facilitating joint research between industry and academia in Finland.

Enhancing academic research and science education

Academic research around the world is an integral part of the development of Vaisala's science-based innovations. Our experts participate in collaboration with several universities, and our personnel includes Masters' students and doctoral candidates. We equally participate in the EU Research and Innovation program Horizon 2020: the wind lidar business, acquired in 2018, is a part of the Innovative Training Network "Lidar Knowledge Europe (LIKE)". In LIKE, we advance the techniques of remote wind sensing and integrate them into standard tools applied by many industries together with PhD students.

In the United States, we collaborate with the Colorado State University (CSU) in the field of weather radars, among others; in 2020. Vaisala's Board of Directors renewed the annual donation of 25,000 USD to the university for three years. Another example of university collaboration is the Naniing Air Quality Testbed project, realized together with the University of Nanjing in China. Similar air quality project has been realized in Helsinki with the University of Helsinki. In the projects, dense air quality observation networks and predictive

In the field of science education. Vaisala aims to enhance awareness of natural sciences, innovations, and the environment by supporting research and education focused on these subjects. Already in 1963, Vaisala's founder Vilho Väisälä donated a fifth of Vaisala shares to the Finnish Academy of Science and Letters to promote the study of natural sciences and mathematics. The Academy's Väisälä Fund continues to distribute grants for study and research to this day. More information of the grants and prizes can be found in Finnish on the Finnish Academy of Science and Letters website.

models have been built in the cities, providing data for decision-making

Vaisala inspires children and youngsters in the field of science also as a long-term partner in Science Centre Heureka's exhibitions Science on a Sphere and Intelligent City in Finland. Overall, we support natural sciences and science education in different projects annually. Scholarships paid in the form of salary are outside the scope of Vaisala's community outreach activities.

Support for important climate and environment projects

Vaisala provides charitable donations with products, funding, or services to non-profit organizations as part of its community outreach activities. Our overall objective is to support organizations and projects that advance environmental awareness and science education. All our outreach activities are in line with our values and resonate well with topical issues close to our business, such as climate, weather, environmental and industrial measurements, and environmental sciences. Vaisala does not donate funds to political parties, causes, or campaigns.

Another focus are non-profit organizations working for environmental disaster prevention and recovery. Furthermore, impartial humanitarian organizations that provide protection and assistance to people affected by disasters are within the scope of possible donations. In 2020, we helped The Bahamas to recover from Hurricane Dorian by donating automated weather observing systems to three airports.

In 2020. Vaisala's personnel in Finland participated in the Kilometer Competition by the Chain Reaction Campaign. In the competition, Vaisala employees kept track of all the kilometers they cycled during the summer. Based on the total 70,000 kilometers. Vaisala made a donation to the Finnish Red Cross to help the Tajikistan mountain range, where climate change is causing melting of the glaciers as well as other societal and environmental challenges.

Case



Vaisala sponsors Mv2050 climate change game in Vantaa

My2050 is an informative mobile game about the future and climate matters. By sponsoring the game, Vaisala realizes its innovation- and collaboration-based values and increases understanding of climate change.

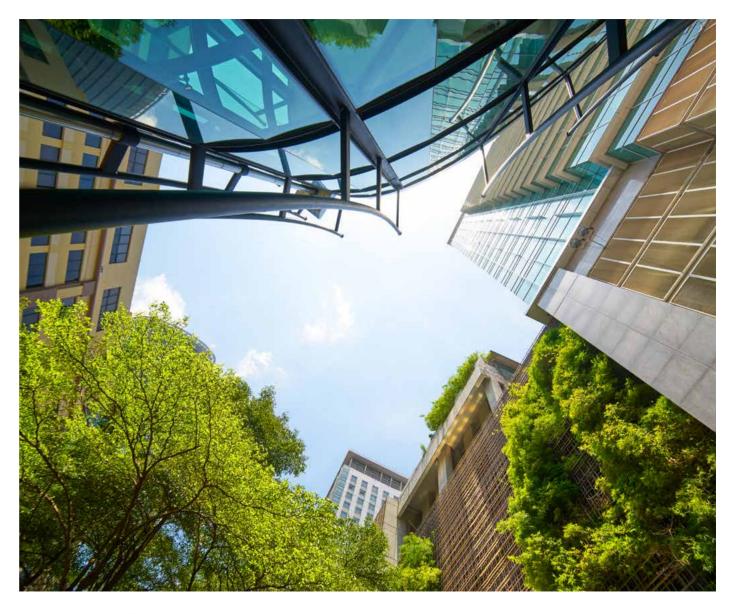


OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Value for investors

Vaisala is a stable, sustainable, and globally operating company based in Finland. As the technological leader in its field, Vaisala utilizes megatrends as well as invests in research and development to ensure growth also in the future.

The company's series A shares have been quoted on Nasdaq Helsinki stock exchange since 1994. Vaisala's target is to maintain high solvency and to pay a stable dividend which will increase in line with net profit development.



Technology leader and strong market position

- Leading technologies in environmental and industrial sensing with most accurate and reliable instruments, algorithms, and software
- Clear market leadership position in key products, high customer satisfaction. estimated total market size 2.5 billion EUR
- High continuous investments in R&D (2020: 53.2 MEUR or 14% of net sales)

Growth potential in multiple dimensions

New technologies

CREATING VALUE

Value for investors

- New products, applications. and digital solutions that leverage latest technologies, platforms, as well as business models based on recurring revenue
- Expansion into new customer segments and geographical regions

Well diversified sales mix

- Vaisala is a global player in its relevant markets with representatives in more than 100 countries
- 2020 geographical net sales split: 36% Americas | 29% APAC | 35% FMFA
- Several customer segments in governmental and private sectors

Asset-light business model

- High-mix. low-volume business model
- Sales growth does not require capex: related annual capex around 10 MEUR
- Potential for productivity improvement with volume arowth

Strong cash generation and financial position

- Enable investing in growth and long-term business development
- Strong cash conversion rate (2020: 0.9)
- Solvency ratio 59.0% (2020)
- Gearing 5.7% (2020)

Solid dividend paver

- Aim to distribute a stable dividend which will increase in line with net profit development
- Dividend per share for the last five years paid at the average rate of 86% on earnings and the average effective dividend yield of share 3.4%

Sustainable technologies in a responsible way

- Technologies, products, and digital solutions that contribute to building better-informed safer and more resource efficient societies.
- Reliable partner, whose corporate responsibility work has been recognized, for example, by the investor initiative CDP that focuses on climate reporting and the RE100 initiative that encourages the use of renewable energy
- Member in several sustainability networks, such as Climate Leadership Coalition as well as UN Global Compact and Caring for Climate initiatives

Sustainable business practices

- Reporting principles, policies, and due diligence
- Environment
- Personnel
- Occupational health and safety
- Ethics and compliance
- Responsible supply chains
- UN Global Compact
- Signatures
- 57 Independent assurance report
- GRI content index



OUR YEAR CREATING VALUE SUSTAINABILITY

GOVERNANCE FINANCIALS

Reporting principles, policies, and due diligence

Non-financial information

Disclosure of non-financial information in accordance with the Finnish Accounting Act chapter 3 a is presented in the Sustainable business practices section as well as the chapters Business model in Our business section, Dashboard in the Creating value section, and Risk management in the Governance section. The Sustainable business practices section includes information on environmental matters, social and employee matters, respecting human rights, as well as anti-corruption and anti-bribery compliance.

Policies and due diligence

We endorse the United Nations Global Compact strategic initiative for sustainable business practices and follow the Global Compact's Ten Principles, which cover the areas of human rights, labor, environment, and anti-corruption. These ten principles are reflected in Vaisala's Code of Conduct, and we report on the implementation of the principles on an annual basis as part of our sustainability reporting.

The Code of Conduct guides our actions and operations and reflects Vaisala values: Integrity, Strong together, Innovation and renewal, and Customer focus. We expect all our employees and partners, such as distributors and representatives, to comply with our Code of Conduct in all their actions. We have a separate Supplier Code of Conduct that sets standards for our suppliers and subcontractors. We comply with all applicable laws and regulations in the countries in which we operate. Where differences exist between regulatory requirements and Vaisala's Code of Conduct, we strive to apply whichever sets the highest standard. We respect and comply with international conventions, such as the United Nations Declaration of Human Rights and the International Labour Organization's (ILO) Declaration on Fundamental Principles and Rights at Work.

Our Code of Conduct includes guidance on environmental matters, social aspects and employment matters, human rights, and anti-bribery

and anti-corruption. Moreover, Vaisala Board of Directors has approved more detailed policies, such as the International Anti-Corruption Policy and the Quality, Environment, and Health and Safety (QEHS) Policy. The QEHS Policy is implemented through our global management system that includes our ISO 14001 certified Environmental Management System and ISO 45001 certified Health and Safety Management System.

We train our entire personnel regularly on the contents of the Code of Conduct and aim to bring up new angles on the matters in the trainings. In addition, separate trainings are organized on various topics, such as environment, health and safety, anti-corruption and bribery, and human rights risks management, some of which are mandatory for the entire personnel and others tailored to specific employee groups based on need.

Each Vaisala employee is responsible for complying with the Code of Conduct, and each manager monitors and supervises compliance with the Code of Conduct. Any suspected action against or violation of the Code of Conduct should be escalated either anonymously to our whistleblowing channel or directly to the legal department. We also monitor that our suppliers and other business partners comply with our Code of Conduct, for example through self-assessments and audits.

Implementing the GRI guidelines

To maintain transparency and consistency in our sustainability reporting, we apply the Global Reporting Initiative's (GRI) reporting guidelines. This report has been prepared in accordance with the GRI Standards: Core option. The GRI reference index can be found on pages 58–65 of this report.

Boundaries

Apart from the environmental data, our sustainability data is reported for the entire Group and for all locations. Our carbon footprint includes

offices with more than 20 employees or otherwise significant operations as well as indirect sources. The indicators related to energy consumption and waste are reported from the most significant manufacturing sites, located in Finland, the United States, and France.

Independent assurance

According to our reporting process, we seek assurance for the report from a third-party assurance provider. An independent third party, Deloitte Oy, has at Vaisala management's request externally assured the contents and indicators of the Sustainable business practices section on pages 38–55 as well as indicator 201-1 on page 31. Independent assurance report can be found on page 57.

Materiality

The material aspects are reviewed annually as part of the reporting process. Also, the development suggestions received from stakeholders are considered in the materiality review update. The material issues are included in the Creating value and Sustainable business practices sections of the annual report.

OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Environment

Environmental management

Our environmental responsibility work is guided by our Global Quality, Environment, and Health and Safety (QEHS) Policy and our ISO 14001 certified environmental management system, which covers our largest manufacturing sites and offices. Presently, 93% of our employees work in ISO 14001 certified locations. All our certified locations are audited by an independent third party as part of our audit program.

Our environmental management system helps us identify the most significant environmental impacts and risks at each location and set environmental targets both for the entire company and locally. Many of our locations have voluntary green teams which promote necessary measures for achieving the environmental targets.

Our head office in Finland has been committed to the WWF Green Office environmental program already for ten years. During 2020, we focused on promoting environmentally friendly commuting at our Finnish sites by enabling employees to use their sports and culture benefit on public transport tickets, participating in the national Kilometrikisa (Kilometer Competition) biking contest with our own Vaisala team, organizing a subsidized bicycle service campaign, and testing out a shuttle bus connection between our head office and the nearest train station.

Environmental impacts

We regularly assess our environmental impacts as part of our environmental management system and aim to continuously reduce the negative environmental impact of our product portfolio, business operations, and supply chain. The most significant environmental impacts from our business operations are related to energy consumption, waste, the materials our products contain, and indirect emissions. Such emissions arise, for example, from purchased products and services, business travel, logistics, commuting, and energy consumption during product

In previous years, we have also reported the water consumption of our manufacturing sites, but we have recognized that its share of our environmental impact is minor. Therefore, we have decided to no longer report it. However, we will continue to monitor our water consumption and will re-examine the situation, should changes occur in the consumption or availability of water at our sites.

The most significant environmental risks of our operations are related to potential emergency situations that can lead to local contamination. These risks are controlled, for example, as part of our emergency preparedness and management processes for hazardous substances.

Environmental indicators in 2020



Emissions from 2014 baseline (Scope 2)

-97% (2019: -90%)

Target 2020: -90%



Renewable electricity

100%

Target 2020: 100%



Waste recycling rate*

59% (2019: 53%)



Employees working on ISO 14001 certified sites

93% (2019: 85%)

^{*} Recycling rate includes reuse, material recycling, and composting.

Environment

Environmental impacts

VAISALA

MINIMIZING OUR ENVIRONMENTAL FOOTPRINT





MAXIMIZING OUR ENVIRONMENTAL HANDPRINT



Supply chain



Our operations

Logistics

Product use



Service and maintenance

Product end-

1,260 t materials used

100% renewable electricity

217 MWh solar energy generated

1,386 t emissions from business travel

213 t emissions from purchased energy

1,373 t emissions from employee commuting

663 t products shipped

8,428 t emissions from logistics

1,114 t emissions from product use (weather radars)

Reducing customers' environmental footprint through product use Extending lifecycles through calibration and updates

Vaisala services and calibrates over **60,000** instruments annually

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Product recyclability













Manufacturing

59% recycled waste

17.69 GWh energy consumption

Energy and emissions

We believe in a future in which societies are powered by renewable energy. In 2015, Vaisala joined RE100, a global initiative encouraging companies to make a 100% renewable energy commitment within a clear timeframe. With this initiative, we committed to using 100% renewable electricity in our facilities by the end of 2020.

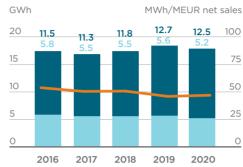
In 2020, we reached our target and succeeded in covering our sites' electricity consumption with 100% renewable sources. Even though our manufacturing sites in Finland and the United States are already using solar panels to produce clean energy, we still need to purchase most of our electricity from local energy companies. Those of our sites with the most significant energy consumption purchase green electricity products directly from their electricity providers. The origin of renewable energy for these green electricity products has been certified. In those sites where Vaisala cannot negotiate the electricity agreement directly. we achieved the goal by purchasing unbundled energy attribute certificates from the regional markets to match our consumption.

The energy efficiency of our facilities is important to us. At the end of the year, our head office in Vantaa was reinforced with a new research and development building, in which energy efficiency is improved by a heat recovery system, for example, A new building designed for energy efficiency and sustainability was also taken into use in Boulder, Colorado.

The use of renewable electricity has reduced our energy consumption emissions by 97% compared to our baseline year 2014 (Scope 2, marketbased). In 2020, our market-based Scope 2 emissions (calculated with supplier-specific emission factors) were only 213 metric tons of CO₂e (2019: 681 CO₂e). Our location-based Scope 2 emissions (calculated with country-specific average emission factors) were 2,986 metric tons of CO₂e (2019: 3,332 CO₂e).

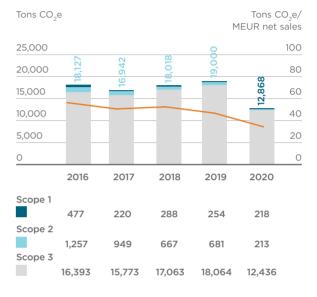
The majority of our emissions are other indirect emissions (Scope 3), mostly business travel, inbound and outbound logistics, waste treatment, and commuting. The year 2020 was exceptional due to the global COVID-19 pandemic, which is also reflected in our carbon footprint through increased remote work and especially reduced business travel. Business travel has been one of our most significant sources of emissions, but in 2020 the emissions associated with it decreased by 77%.

ENERGY USE GWh



Electricity

CARBON FOOTPRINT



ALUE SUSTAINABILITY

GOVERNANCE

Environment

Waste

Waste associated with Vaisala's business operations is produced at the beginning of the supply chain in the manufacture of materials and components, in Vaisala's own operations related to manufacturing, repairing and servicing of products and the work of our personnel, as well as at the end of the value chain when a customer removes a Vaisala product from service. These impacts are depicted in the waste process flow chart.

Our main manufacturing site in Finland generates most of the waste in our own operations. There waste is sorted into 14 categories to enable its efficient processing and use. In the future, we are going to put more effort in increasing personnel awareness, so that a larger portion of waste would end up in the correct category. We actively try to find ways to direct an even bigger proportion of waste to recovery in cooperation with our waste management service providers. We make sure that our waste operators have the appropriate licenses for waste treatment.

We also aim to reduce the amount of waste generated, for example by utilizing reusable trays for packaging with some of our suppliers and reducing scrap material produced in our manufacturing processes. We reduce the amount of waste at the end of the value chain by designing our products to last as long as possible and offering diverse maintenance and repair services for our products. In addition, we advise our customers on how to recycle our products at the end of their life cycles.

WASTE*





^{*} Waste management takes place offsite in our service provider's premises. The reported waste amounts do not include the temporary waste from our construction sites.



FINANCIALS

48.3% Recycling
34.5% Energy recovery
13.6% Composting
3.0% Landfill
0.6% Reuse

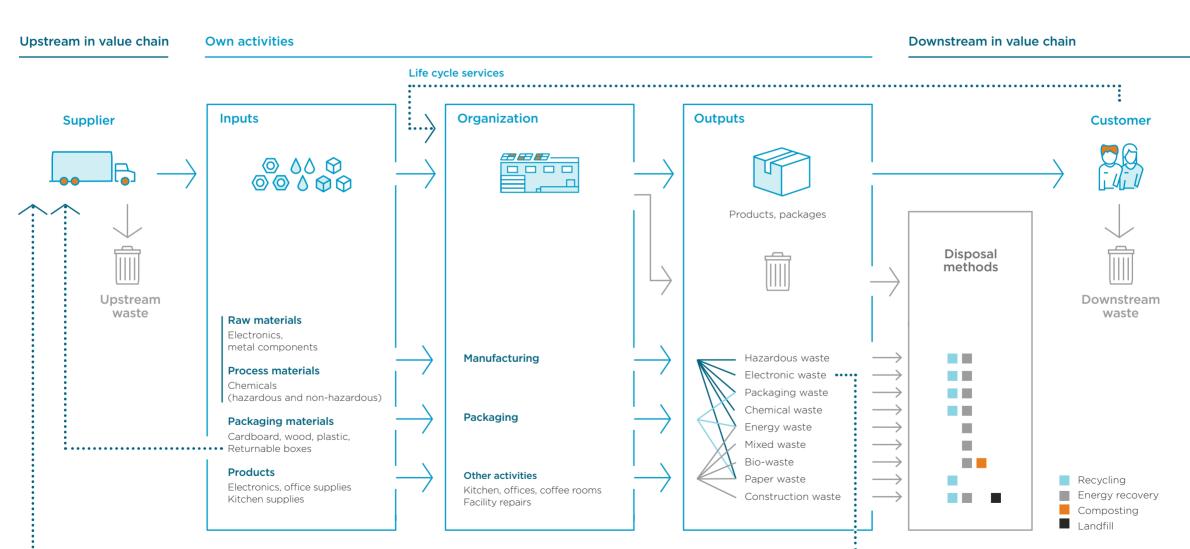


35.0% Physico-chemical treatment
30.7% Recycling
26.4% Incineration
7.2% Recovery

0.7% Landfill

Environment

OUR YEAR



Scope of environmental reporting

Most of our Group's energy consumption and waste generation can be attributed to our manufacturing locations in Finland, the United States, and France. Hence, these key indicators are reported only for these three largest manufacturing sites. The energy consumption of these locations does not include the fuel consumption of field-service vehicles due to the low number of such vehicles.

To calculate our carbon footprint, we collect data more extensively from those locations with more than 20 employees or otherwise significant operations. Vaisala's carbon footprint includes various parts of the company's value chain. Our reported carbon footprint is divided into three levels (Scope 1–3) in line with the GHG Protocol (Greenhouse Gas Protocol) Corporate Accounting and Reporting Standard. Scope 1 includes field-service vehicles owned by Vaisala. Purchased-energy emissions (Scope 2) include purchased power and heat.

Other indirect emissions (Scope 3) include business travel (flights, rail travel, and rental cars), inbound and outbound logistics, commuting, and waste treatment (only in Finland, where 78% of the Group's waste is generated). Emissions originating from the use of our products are calculated only for installed weather radars due to their relatively significant energy consumption and the availability of data. We have also identified purchased goods and services as a relevant category of scope 3 emissions, but for the time being, we do not have adequate data on our supply chain emissions to be able to include this category in our Scope 3 emissions.

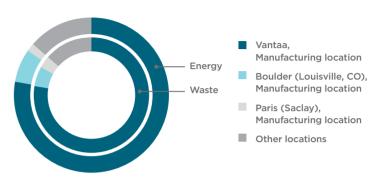
Data sources and assumptions

Energy and waste data are collected from various sources. In addition to having our own monitoring systems on the sites, we collect data from the systems and invoices of our service providers. All our sites in the reporting scope submit their environmental indicators in a centralized reporting system.

For indirect (Scope 3) emissions calculation, we collect business travel data from our travel agency, outgoing logistics data from our logistics partners, and waste treatment data from our waste management service providers. For incoming logistics and the energy consumption of weather radars, we use data from our internal systems, and for commuting, we utilize data from the commuting survey renewed in 2019 to estimate the proportions of different modes of transport. Additionally, we take into consideration the impact that increased remote work due to the global COVID-19 pandemic had on commuting in 2020.

The environmental figures for 2020 are based, for the relevant part, on data that was available at the time of the publication of the report for the first 10–12 months of the year. For the missing part, the figures are estimates based on actual data for the previous months. There is no reason to assume that there should be significant differences between the estimates and the actual figures for 2020.

DIVISION OF ENVIRONMENTAL IMPACTS BY LOCATION





Emission factors

Greenhouse gas emissions are calculated using the best available conversion factors. These emission factors mainly come from the DEFRA database and GHG Protocol calculation tools. Certain emission factors come from other sources, such as our logistics partners, local energy companies, and vehicle manufacturers. For flights, we use DEFRA's emission factor with radiative forcing that acknowledges also those climate change effects of aviation not attributable to CO_2 .

To determine our Scope 2 carbon footprint, we primarily use the market-based calculation method, which takes our purchased-energy specific emissions into account. In 2020, our purchased electricity has been entirely renewable, which means that we use 0.0 g $\rm CO_2e$ / kWh as the emission factor for electricity in the market-based calculation. In addition, we report our location-based Scope 2 emissions, which are based on average country-specific emissions from energy production.

Our carbon footprint includes all greenhouse gases converted into carbon dioxide using global warming potential (GWP-100).

Sustainable product design and management

A significant portion of the environmental impacts generated by our products arise during their use. Our industrial products and solutions help our customers improve their environmental performance, and our weather measurement solutions support decision-making in society by providing a wide range of critical information.

The environmental footprint generated by products over their life cycle can be influenced during the product design phase. Our product development process includes environmental requirements, and many of the required product qualities, such as energy efficiency, maintainability, and recyclability, are beneficial for the environment. The updateability and modular design of many of our products, combined with our field services, extend the product life cycle, which typically ranges from a year to over 20 years. However, we are aware that the global scarcity of resources and rapidly developing environmental requirements call for us to improve our product design process continuously. In 2020, we arranged a training session on this topic for our product designers and conducted a survey on sustainable development in product design. This survey raised development ideas which we will advance in the coming years.

To ensure that our products are safe for people and the environment,

we set strict requirements on the materials used in our products during the product design process. Components are analyzed early in the new product development process to ensure compliance. We systematically collect information about substances that REACH* legislation has defined to be of very high concern as well as about compliance with RoHS** legislation in order to enable the safe use and end-of-life treatment of products. Furthermore, we are prepared to report the required information in the SCIP database*** of the European Chemicals Agency. We select new suppliers carefully and ensure that they meet our strict requirements. At the end of a product's life cycle, we advise customers to recycle the products in accordance with local best practices for electronics recycling or to return them to Vaisala for recycling.

- * REACH = Registration, Evaluation, Authorisation, and Restriction of Chemicals
- ** RoHS = Restriction of Hazardous Substances in electrical and electronic equipment
- *** SCIP = Substances of Concern In articles, as such or in complex objects (Products)

OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Personnel

Personnel in 2020

The total number of employees at the end of 2020 was 1,919. The average number of personnel employed during the year was 1,911. The average age of personnel was 43 years. At the end of the year, 95% of employees were permanent and 5% temporary.

Employee turnover

During 2020, 190 permanent employees were recruited and 128 permanent employees left the company, out of whom 11 retired. The turnover rate for permanent employees was 7%, and the recruitment rate was 10%.

Collective agreements and trade unions

Vaisala recognizes Technology Industries of Finland as its trade union. Vaisala's employees in Finland are covered by three collective agreements: the collective agreement for employees in technology industries, the collective agreement for salaried employees in technology industries, and the collective agreement for senior salaried employees in technology industries.

Salaries and wages paid by the company are based on local collective and individual agreements, individual performance, and the requirements of each position. The base salaries are supplemented by a performance-based bonus system, which covers all Vaisala personnel.





OUR YEAR

CREATING VALUE

SUSTAINABILITY

Personnel

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Recruitments by age group

	-19	20-29	30-39	40-49	50-59	60-	Total
Male	13	83	55	41	16	2	210
Female	8	42	27	18	5		100
Total	21	125	82	59	21	2	310

Turnover by age group

	-19	20-29	30-39	40-49	50-59	60-	Total
Male	10	56	33	27	16	8	150
Female	6	37	15	9	5	7	79
Total	16	93	48	36	21	15	229

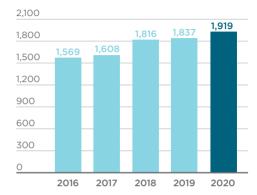
Recruitments by region

	Finland	Americas	EMEA	APAC	Total
Permanent	128	27	22	13	190
Temporary	94	4	18	4	120
Total	222	31	40	17	310

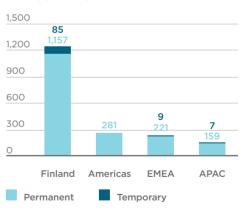
Turnover by region

	Finland	Americas EMEA		APAC	Total
Permanent	50	43	12	23	128
Temporary	71	5	21	4	101
Total	121	48	33	27	229

PERSONNEL AT THE END OF THE YEAR



PERSONNEL BY REGION AND CONTRACT



Americas: North and South America EMEA: Europe, Middle-East, and Africa APAC: Asia-Pacific OUR YEAR CREATING VALUE SUSTAINABILITY

Personnel

GOVERNANCE

FINANCIALS

Diversity and equality

In Vaisala, advancing diversity and equality is important from the points of view of employee well-being and attracting new talent, for example. By fostering the diversity and equality in our work community, we can also do our part to promote equality in the society at large.

As laid out in Vaisala's Code of Conduct, we recognize the value of diversity and do not accept any form of discrimination. We aim to treat all our employees and applicants equally in all recruitment, hiring, training, and development. Equality and fairness are also important elements of Vaisala's compensation policy. We do not distinguish between gender or other non-professional attributes in employee compensation or benefits plans.

According to the Finnish Non-Discrimination Act, an employer must create a plan to advance equality. The aim of our equality plan is that Vaisala's personnel, jobseekers, and the subcontractors operating within Vaisala's guidance and offices as well as leased personnel will be treated equally, independently of their attributes.

Furthermore, our goal is that our employees work within a safe, caring, communal, and accessible operating environment. Equality is advanced by developing good practices as well as identifying problems and presenting solutions to them. If discrimination occurs, it will be reacted to immediately and systematically. According to the principle of equality, we want to support our personnel in different stages of life and circumstances. We take a positive view on family leaves, irrespective of gender.

In accordance with the Finnish Equality Act, we promote gender equality in a target-oriented and systematic manner. As part of preparing our equality plan in 2020, we conducted a wage survey in Finland and found that there were no systematic differences in wages that could be explained with gender distribution. The women's wage was, on average, 97% of men's wage on the same job requirement level for salaried and senior salaried employees and 100% of men's wage for production employees.

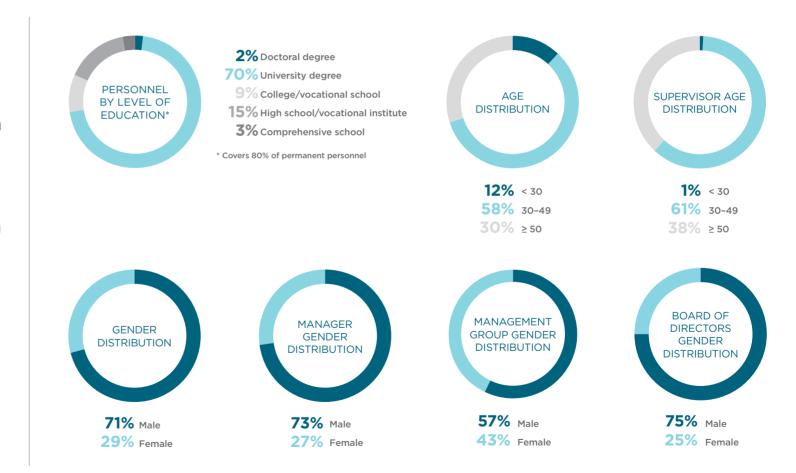
In North America, Vaisala Inc. is an Equal Opportunity Employer (EOE). All qualified applicants are considered for employment without regard to age, race, color, religion, gender, marital status, national origin, sexual orientation, disability, or veteran status.

Also, Leosphere SAS, that Vaisala acquired in late 2018, aims to promote diversity. Moreover, the French law protects employees from

discrimination in recruitment, remuneration, and career development, for example.

The level of equality in Vaisala was researched in 2020 in the personnel survey, where employees were asked whether they experience that all employees are treated equally without regard to any form

of diversity. The average score was 4.39 on a scale of 1-5. The open answers showed that supervisors are seen as fair and unbiased and that they respect different team members. Vaisala was seen as an open and fair employer that appreciates its employees.



Occupational health and safety

Occupational health and safety management

Occupational health and safety is an important part of all our activities, from the product development's health and safety requirements to the installation of the products. Our occupational health and safety management and development is guided by our Global Quality, Environment, and Health and Safety (QEHS) Policy and our ISO 45001 certified occupational health and safety system, which sets the background for continuous improvement. 94% of our employees work on certified sites, but the system covers all our activities and employees.

The identification and assessment of occupational health and safety related risks is systematic work, and it is done in cooperation with our employees and other stakeholders. The most significant injury risks appear especially in electrical work, working at heights, and working with chemicals or gases. We apply the hierarchy of controls to minimize risks. We aim to eliminate the most significant hazards or substitute them with less dangerous alternatives, if removing is not possible. We aim to further reduce the residual risk by controlling the risk at source through engineering controls. If personal protective equipment is needed, it is given to employees for free.

We invest in health and safety training for employees and ensure that all employees have the necessary qualifications for performing their work. All employees have the right to refuse work that they believe could cause them or another person injury or ill health. This and other occupational health and safety practices are covered in our safety e-training which was published also as a Chinese version this year, in addition to the previous Finnish, English, and French ones. Occupational safety training is free for our employees and subcontractors, and the trainings can be conducted during working hours.

Impacts of the COVID-19 pandemic

As a result of the COVID-19 pandemic, increased remote work, on the one hand, and ensuring the health security of the production employees, on the other, brought their own challenges to the health and safety work in 2020. The challenges were taken up in cooperation with the Risk Management and Human Resources functions. We managed to prevent the formation of epidemics at our workplaces by increasing remote work, improving hygiene instructions and cleaning, as well as tightening the travel and visitor restrictions.

The risks related to remote work were assessed by analyzing the experiences of remote workers and the results of two personnel surveys. Based on these results, we provided tools for better management of remote work and the related physical and psychological risks. The fact that the results improved as the pandemic continued indicates that the actions had an impact and that the management of risks related to remote work developed positively.

Collaboration

We have increased collaboration between employees and the employer by establishing Health and Safety Committees in several locations. The committees have an important role in monitoring and developing occupational health and safety. Currently, active Health and Safety Committees are operating in Finland, Canada, Germany, the United States, the United Kingdom, Japan, France, and China.

These committees meet at least four times a year. The representatives on the Health and Safety Committees currently make up 4.2% of all employees and represent 93% of the personnel. Our goal is to have at least one in three non-managerial employees on each committee.



SUSTAINABILITY

GOVERNANCE

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Occupational health and safety

Proactive reporting and investigation

We encourage our employees and contractors to proactively report any health and safety risks in the workplace and make suggestions to improve the safety of working conditions and methods. To prevent injuries, harmful exposure, and the recurrence of incidents, the line management is responsible for making sure that the reported deviations and their causes are investigated. After the investigation, corrective measures are implemented without delay. A globally consistent reporting procedure and database improve the efficiency and transparency of monitoring health and safety performance.

Our aim was to increase the frequency of proactive reporting (risks, near misses, and improvement suggestions) compared to the previous year. In 2020, our goal was one reported near miss, risk, or improvement suggestion per six (6) employees. The total amount of reports was 198 reports, so only 62% of the target was reached. The low reporting frequency was influenced significantly by the increased remote work.

We aim to increase the reporting frequency in the future by continuing to focus on education and increasing the understanding of the importance of proactive reporting. In addition, we aim to shorten the processing time of the reports.

Injuries

The injury rate went down in 2020 compared to the previous year. A total of eight injuries occurred, and the injury rate was 1.99 injuries per million hours worked, the total number of hours worked being 3.99 million hours. These injuries were mainly minor bruises or cuts, and none of the injuries resulted in a fatality or caused severe or long-term disability. We continue to work towards our long-term goal of zero injuries and occupational diseases, and we believe we can achieve this goal through continuous improvement.

Occupational health services

In Vaisala, the occupational healthcare is managed by following local legislative requirements, and thus the practices vary in different countries. Employees are informed about the services through our intranet, for example.

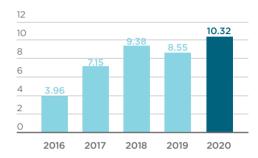
In Finland, Vaisala offers all employees general practitioner level medical care. Our working capacity insurance covers specialist level medical services for all but hourly based employees. Our healthcare contract covers treatment expenses caused by accidents that occur during working hours and free time.

In the United States, Vaisala provides a complete package of health-care benefits including but not limited to medical, dental, and vision coverage. In France, Vaisala's subsidiary Leosphere SAS pays 50% of employees' mandatory private health insurance that covers a variety of medical specialist treatments. In China, Vaisala provides annual medical check-ups to all employees and regular additional occupational medical examinations for employees who are exposed to risky working environments. An exclusive commercial medical insurance has been purchased for employees and their dependents, which covers the most treatment costs in public hospitals.

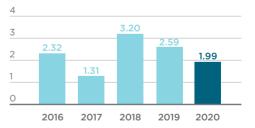
In countries other than the ones mentioned above (the countries mentioned cover approximately 90% of Vaisala's personnel), the occupational healthcare is managed in accordance with local legislation and practices.

PROACTIVE REPORTING

Reports/100 employees



INJURIES PER MILLION WORKING HOURS (TRI)



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Ethics and compliance

Vaisala Code of Conduct

The Code of Conduct reflects Vaisala's values: Integrity, Strong together, Innovation and renewal, and Customer focus. All our employees, partners, distributors, and agents must comply with the Code of Conduct under all circumstances.

All Vaisala employees must complete the Code of Conduct training at regular intervals and confirm their commitment to the Code and the International Anti-Corruption Policy. The mandatory Code of Conduct training was renewed in late 2020. Of all employees, 96% had completed the training by January 18, 2021. All new employees commit to complying with the Code of Conduct and the International Anti-Corruption Policy as part of their employment contracts as well as participate in induction training on the operating principles and procedures of the company. Violations of the Code of Conduct or the International Anti-Corruption Policy may lead to disciplinary action, including termination of employment.

Prevention of corruption and bribery

Vaisala has a zero tolerance policy towards all forms of corruption. Our International Anti-Corruption Policy strictly forbids offering, giving, soliciting, arranging, demanding, or accepting bribes, whether directly or through third parties. The Policy includes detailed guidelines on acceptable hospitality and entertainment. Periodical training for employees on the Code of Conduct also covers aspects related to the International Anti-Corruption Policy. In addition, a more specific Anti-Corruption Policy training has been tailored to employees who, according to risk analysis, might face challenging situations in their work.

To serve its customers as efficiently as possible, Vaisala conducts business through a network of partners: with distributors, agents, and resellers in more than 100 countries. Our business operations cover a large geographical area, meaning that we also operate in countries with a demanding business environment. For this reason, we pay special attention to selecting our business partners. Our agreements

with our partners typically include strict clauses concerning immediate termination if a partner violates any aspects of our Code of Conduct or International Anti-Corruption Policy, both of which are attached to the agreements we sign with partners.

In 2020, we also introduced an e-training on Vaisala's Code of Conduct targeted at our distribution partners. The completion of the training is monitored via the training system. The training emphasizes anti-corruption and bribery, and it aims to ensure that partners understand Vaisala's principles and can act according to them in all situations.

Supplier Code of Conduct

The Supplier Code of Conduct reflects Vaisala's values and operating principles and is based on the principles created by the International Labour Organization (ILO), the United Nations Global Compact initiative, and the Responsible Business Alliance (formerly EICC). In addition, the Supplier Code of Conduct includes requirements concerning standards and procedures in line with the Business Social Compliance Initiative (BSCI) and Social Accountability International (SAI).

Respect for human rights

Vaisala is committed to respecting human rights as defined in the United Nations' Universal Declaration of Human Rights and endorses ILO's Declaration of Fundamental Principles and Rights at Work. Vaisala does not condone violations of human rights or labor laws in any part of its supply chain. The company takes appropriate measures to ensure that the risk of violations of its Code of Conduct or Supplier Code of Conduct is minimized in its immediate supply chain.

Vaisala's internal human rights risk assessment suggests that the risk of most salient human rights violations is the highest beyond the third tier of suppliers. These risks are the same as in other electronics manufacturing supply chains, including unpaid or excessive overtime, dangerous working conditions, bonded labor, and low wages. The human rights risks in Vaisala's supply chain are mitigated by care-

fully choosing preferred suppliers and working closely with first-tier suppliers, insisting on policies that go beyond the requirements of local laws and obliging them to ensure that human rights are respected also in their supply chains.

Another area where we have identified a high need to understand and manage human rights risks is our global project subcontractor network, where we need to ensure, for example, that our partners follow adequate health and safety standards. Therefore, we have started to give concrete safety instructions and trainings to our subcontractors, in addition to ensuring their commitment to Vaisala's Supplier Code of Conduct.

We also train our sourcing personnel and project managers operating in high-risk areas to identify and manage human rights risks while operating with potential or selected suppliers or subcontractors.

Conflict minerals

Vaisala is committed to responsible sourcing of minerals. Our operating model for ensuring the responsibility of the minerals supply chain follows the Organisation for Economic Co-operation and Development (OECD) Guidance, and we use the Responsible Minerals Initiative's (RMI) reporting template to find out and document the origin of the minerals.

Vaisala's suppliers must aim to ensure that the parts delivered to Vaisala do not contain any minerals that have their origin in conflict areas, currently including but not limited to the tin, tungsten, tantalum, and gold mined in the Democratic Republic of Congo (DRC) or in adjoining countries. If parts or products supplied to Vaisala contain tin, tantalum, tungsten, or gold, the supplier must ensure responsible sourcing of these minerals and report to Vaisala using RMI's Conflict Minerals Reporting Template (CMRT).

Ethics and compliance

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Product safety

Vaisala is known for its reliable products, and customer health and safety are key considerations at all stages of our product development. We follow all safety standards applicable to each product in our product design. Our products are carefully designed and type tested keeping in mind their safe and environmentally friendly delivery, use, maintenance, and decommissioning. User documentation is built to support these goals. Accredited laboratories are widely used to ensure the safe design of our products. Vaisala performs an electrical safety inspection on all applicable products.

Compliance monitoring and violations

Compliance with the Code of Conduct and other guidelines is continuously monitored by regional and business area managers and immediate supervisors as well as by means of internal audits. If any Vaisala employee knows or suspects that the Code of Conduct or the International Anti-Corruption Policy is being violated, they must report the incident. Vaisala provides a whistleblowing channel for its employees and external stakeholders for reporting violations. Through the channel, they may report suspected violations or communicate others concerns.

The channel can be used via email or regular mail, and messages can also be sent anonymously. Vaisala ensures that the reporting does not cause any kind of harm to the complainant. The reported complaints or concerns are addressed immediately, and the complainants are informed about the progress of the handling process, if they have given their contact information.

Vaisala has a Compliance Committee, which monitors compliance with the Code of Conduct and other guidelines as well as processes reports of suspected non-compliance. The Committee consists of members from the Legal Department, Finance & Control, and Human Resources and is headed by the Senior Vice President for Compliance and Risk Management.

In 2020, the Committee became aware of one suspected violation of the Code of Conduct, which was related to the company's practices when ending an employment relationship. The suspected violation has been investigated and no violation could be found. The case was

handled in cooperation with the Human Resources department, and the result of the investigation has been reported to the complainant.

There were no complaints or sanctions by the authorities during 2020. No incidents of corruption, anti-competitive behavior, anti-trust or monopoly practices, or any other violations of laws or regulations were identified. Furthermore, no violations of human rights, labor rights, or environmental legislation or concerns related to these were identified in the immediate supply chain.



Read more

Read more about Vaisala's policies: vaisala.com/standards-and-policies Vaisala whistleblowing channel can be reached at wbc@vaisala.com

OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Responsible supply chains

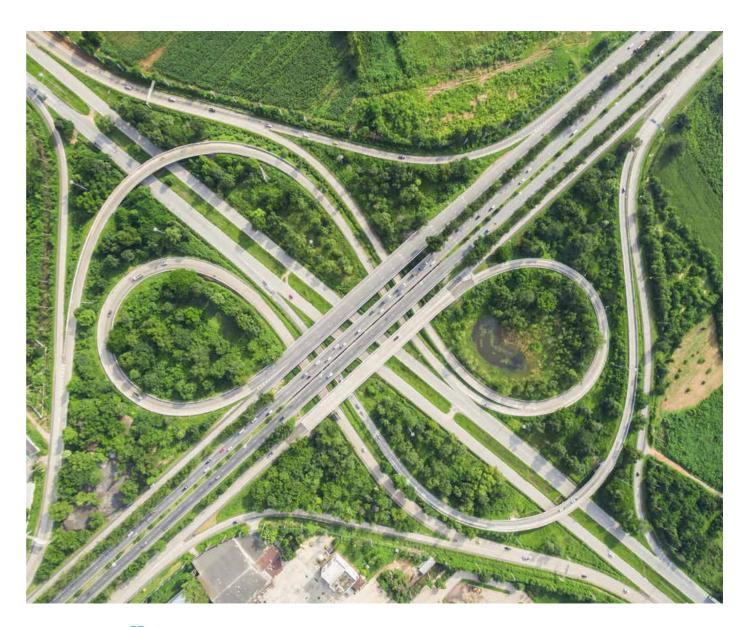
In its supply chain, Vaisala seeks to promote innovation and competitive advantage responsibly through cooperation. Our business operations are based on high mix and low volumes. Managing this complexity requires effective coordination of hundreds of suppliers and selected strategic partners. To deliver on our customer promise and meet stakeholder expectations, we must have a reliable and responsible supply chain. We set strict requirements for our suppliers, and we cooperate with them closely over the long term, which enables both parties to further develop their operations.

Typical product supply chain

Vaisala's direct suppliers are generally located close to its product development operations and manufacturing sites. We purchase subassemblies, components, and mechanical parts mainly from Finland and other European countries as well as the United States. Our upstream supply chains resemble other typical supply chains in the global electronics manufacturing industry.

Supplier management

Vaisala's supplier management model has four categories: potential, approved, preferred, and strategic suppliers. In addition to these categories, suppliers may be, for example, in phase-out when their contracts are being discontinued gradually or on watch-list when they are monitored closely due to serious issues experienced over the long term. The classification defines the relationship between Vaisala and the supplier and outlines the management model for each category. All suppliers are expected to meet certain requirements before they can be approved and categorized. The requirements for suppliers are based



Responsible supply chains

on the classification, risk assessment, and spend. Suppliers must also commit to the Supplier Code of Conduct.

We use a Supplier Sustainability Self-Assessment Questionnaire (SAQ) as part of supplier development in all categories in order to assess environmental, social, and governance (ESG) risks. The questionnaire exposes risks related to environmental management, occupational safety, social responsibility, governance, and supply chain management. If a supplier's assessment does not meet Vaisala's requirements, the supplier is expected to implement corrective measures to improve their sustainability as part of their comprehensive development plan, and any weaknesses are addressed in cooperation with the supplier.

As part of supplier management, we also audit our suppliers to check aspects related to quality and sustainability, such as their knowledge and application of our Supplier Code of Conduct, labor and human rights, occupational safety, environmental management, product safety (RoHS and REACH), and conflict mineral management.

In 2020, we continued the integration of the new suppliers that came through the acquisitions of Leosphere and K-Patents in late 2018 into the sustainability management processes of Vaisala's supply chain, prioritizing the suppliers based on risk and spend. Primarily, effort has been put into having the suppliers sign Vaisala's Supplier Code of Conduct, and a good level has already been reached. Only a few ESG risk evaluations following Vaisala's process have been made for these new suppliers, and the work will be continued in the coming years.



Read more

Read more about supplier management at Vaisala: vaisala.com/suppliers



50% Strategic suppliers (11 suppliers)
18% Preferred suppliers (44 suppliers)
27% Approved suppliers (331 suppliers)
5% Other (68 suppliers)



60% Finland
(161 suppliers)

25% Other EU
(131 suppliers)

10% North America
(109 suppliers)

2% China
(45 suppliers)

2% South-East Asia
(4 suppliers)

1% Japan, South Korea, and

Australia (4 suppliers)





454 (2019: 490) suppliers

(2019: 28) suppliers audited during the year

83%
(2019: 82%)
of purchases
(based on spend)
were made from
suppliers rated on
ESG metrics

92%

(2019: 87%)
of purchases
(based on spend)
were made from
suppliers who had
signed the
Supplier Code
of Conduct

^{*} By direct suppliers, we mean suppliers related to our products, which includes manufacturing partners as well as mechanics and other component suppliers.

UN Global Compact

Vaisala joined the UN Global Compact in 2008 and has committed to following the ten guiding principles of the initiative. These ten principles are reflected in Vaisala's Code of Conduct, and we report on the implementation of the principles on an annual basis as part of our sustainability reporting. Our sustainability reports have qualified for the Global Compact Advanced differentiation level since its introduction in 2010.

Human rights

Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights.	p. 51 Ethics and compliance
Principle 2: Make sure that they are not complicit in human rights abuses.	p. 51 Ethics and compliance

Labor standards

Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining.	p. 46 Collective agreements and trade unions
Principle 4: The elimination of all forms of forced and compulsory labor.	p. 51 Ethics and compliance
Principle 5: The effective abolition of child labor.	p. 51 Ethics and compliance
Principle 6: The elimination of discrimination in respect of employment and occupation.	p. 48 Diversity and equality, p. 51 Ethics and compliance

Environment

Principle 7: Businesses should support a precautionary approach to environmental challenges.	p. 45 Sustainable product design and management
Principle 8: Undertake initiatives to promote greater environmental responsibility.	p. 39 Environmental management, p. 41 Energy and emissions, p. 42 Waste
Principle 9: Encourage the development and diffusion of environmentally friendly technologies.	p. 45 Sustainable product design and management

Anti-corruption

Principle 10: Businesses should work	p. 51 Ethics and compliance
against corruption in all its forms, including	
extortion and bribery.	

OUR YEAR

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Signing of non-financial information

Disclosure of non-financial information in accordance with Finnish Accounting Act is presented in the annual report's Sustainable business practices section as well as the chapters Business model in Our business section, Dashboard in the Creating value section, and Risk management in the Governance section.

Vantaa February 18, 2021

Petri Castrén Antti Jääskeläinen

Petra Lundström

Jukka Rinnevaara

Kaarina Ståhlberg

Tuomas Syrjänen

Raimo Voipio Chairman of the Board of Directors Ville Voipio
Vice Chairman of the
Board of Directors

Kai Öistämö President and CEO

Independent limited assurance report

To the Management of Vaisala Oyj

We have been engaged by the management of Vaisala Oyj (hereafter Vaisala) to provide a limited assurance on the GRI indicators disclosed in the Vaisala's annual report for the reporting period of January 1, 2020 to December 31, 2020. In the scope of the assurance were the indicators presented in the Sustainable business practices section on pages 38–55 and the indicator 201-1 on page 31 of the report (hereafter Sustainability Information).

Management's responsibility

Management is responsible for the preparation of the Sustainability Information in accordance with the Reporting criteria as set out in Vaisala's reporting principles on page 38 of the Non-Financial Information report and the Sustainability Reporting Standards (Core) of the Global Reporting Initiative. This responsibility includes: designing, implementing, and maintaining internal control relevant to the preparation and fair presentation of the Sustainability Information that are free from material misstatement, whether due to fraud or error, selecting and applying appropriate criteria, and making estimates that are reasonable in the circumstances.

Assurance provider's responsibility

Our responsibility is to express a limited assurance conclusion on the Sustainability Information based on our engagement. We conducted our assurance engagement in accordance with International Standard on Assurance Engagements (ISAE) 3000 (Revised). The assurance criteria used was the Sustainability Reporting Standards of the Global Reporting Initiative.

ISAE 3000 standard requires that we comply with ethical requirements and plan and perform the assurance engagement to obtain limited assurance whether any matters come to our attention that cause us to believe that the Sustainability Information has not been prepared, in all material respects, in accordance with the Reporting criteria.

We did not perform any assurance procedures on the prospective

information, such as targets, expectations, and ambitions, disclosed in the Sustainability Information. Consequently, we draw no conclusion on the prospective information. Our assurance report is made in accordance with the terms of our engagement with Vaisala. We do not accept or assume responsibility to anyone other than Vaisala for our work, for this assurance report, or for the conclusions we have reached.

A limited assurance engagement with respect to responsibility related data involves performing procedures to obtain evidence about the Sustainability Information. The procedures performed depend on the practitioner's judgment, but their nature is different from, and their extent is less than, a reasonable assurance engagement. They do not include detailed testing of source data or the operating effectiveness of processes and internal controls, and consequently they do not enable us to obtain the assurance necessary to become aware of all significant matters that might be identified in a reasonable assurance engagement.

Our procedures on this engagement included:

- Interviewing senior management of the Company;
- Conducting interviews with employees responsible for the collection and reporting of the Sustainability Information and reviewing of the processes and systems for data gathering, including the aggregation of the data for the Sustainability Information;
- Reviewing internal and external documentation to verify to what extent
 these documents and data support the information included in the Sustainability Information and evaluating whether the information presented in the Sustainability Information is in line with our overall knowledge
 of corporate responsibility at Vaisala;
- Performing analytical review procedures and testing data on a sample basis to assess the reasonability of the presented Sustainability Information;
- Conducting an interview with Vaisala's Paris site through a video conference
- Assessing that the Sustainability Information has been prepared in accordance with the Sustainability Reporting Standards (Core) of the Global Reporting Initiative.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

Our independence, quality control, and competences

We have complied with Deloitte's independence policies which address and, in certain cases, exceed the requirements of the Code of Ethics for professional accountants issued by the International Ethics Standards Board for Accountants. We have maintained our independence and objectivity throughout the year, and there were no events or prohibited services provided which could impair our independence and objectivity.

Deloitte Oy applies International Standard on Quality Control 1 and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. This engagement was conducted by a multidisciplinary team including assurance and sustainability expertise with professional qualifications. Our team is experienced in providing sustainability reporting assurance.

Conclusion

On the basis of the procedures we have performed, nothing has come to our attention that causes us to believe that the information subject to the assurance engagement is not prepared, in all material respects, in accordance with the Sustainability Reporting Standards (Core) of the Global Reporting Initiative or that the Sustainability Information is not properly prepared, in all material respects, in accordance with the Reporting criteria.

Our assurance statement should be read in conjunction with the inherent limitations of accuracy and completeness for sustainability information.

Vantaa February 18, 2021 Deloitte Oy

Reeta Virolainen Authorized Public Accountant Teemu Jaatinen Authorized Public Accountant CREATING VALUE

GRI content index

The Global Reporting Initiative (GRI) content index is provided to assist the reader in navigating through the annual report and to compare it to the GRI Standards Guidelines. For more information about the guidelines, please see globalreporting.org.

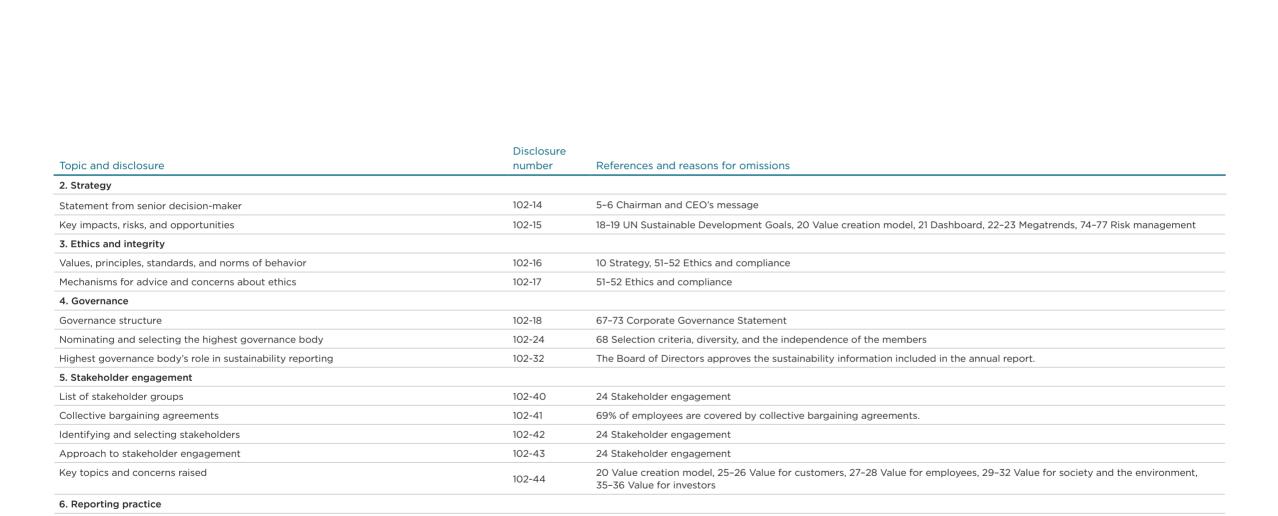
Topic and disclosure	Disclosure number	References and reasons for omissions
GENERAL DISCLOSURES		
GRI 102: GENERAL DISCLOSURES 2016		
1. Organizational profile		
Name of the organization	102-1	Vaisala Oyj
Activities, brands, products, and services	102-2	3 Business areas
Location of headquarters	102-3	Vantaa, Finland
Location of operations	102-4	4 Vaisala as a global company, 38 Boundaries,
		137 Consolidated financial statements: Note 26. Subsidiaries
Ownership and legal form	102-5	96 Board of Directors' report: Ownership structure
Markets served	102-6	3 Business areas, 4 Vaisala as a global company, 11 Business model
Scale of the organization	102-7	3 Key figures for 2020 (net sales, number of employees), 4 Vaisala as a global company (number of offices), 11 Business model (number of products), 16 Operations (Operations in numbers), 100 Consolidated statement of financial position
Information on employees and other workers	102-8	47 Personnel by area and contract
		Gender distribution of temporary and part-time employees is not reported separately due to the small amount of such employees. Work performed by workers who are not employees is not reported due to the small amount of such work.
Supply chain	102-9	53-54 Responsible supply chains
Significant changes to the organization and its supply chain	102-10	84-97 Board of Directors' report, 129 Consolidated financial statements: Capital structure
Precautionary principle or approach	102-11	45 Sustainable product design and management
External initiatives	102-12	33-34 Active community outreach and scientific collaboration, 36 Sustainable technologies in a responsible way, 55 UN Global Compact
Membership of associations	102-13	33-34 Active community outreach and scientific collaboration, 46 Collective agreements and trade unions

Entities included in the consolidated financial statements

Defining report content and topic boundaries

List of material topics

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137 Consolidated financial statements: Note 26, Subsidiaries

health and safety, 51-52 Ethics and compliance, 53-54 Responsible supply chains

18-19 UN Sustainable Development Goals, 20 Value creation model, 25-26 Value for customers, 27-28 Value for employees, 29-32 Value for society and the environment, 35-36 Value for investors, 39-45 Environment, 46-48 Personnel, 49-50 Occupational

38 Reporting principles, policies, and due diligence

102-45

102-46

102-47



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	Disclosure	
Topic and disclosure	number	References and reasons for omissions
Restatements of information	102-48	No restatements
Changes in reporting	102-49	39 Environmental impacts
		In previous years, we have also reported the water consumption of our manufacturing sites, but we have recognized that its share of our environmental impacts is minor. We are therefore no longer reporting it.
Reporting period	102-50	Calendar year 2020
Date of most recent report	102-51	25.2.2020
Reporting cycle	102-52	Annually
Contact point for questions regarding the report	102-53	164 Contacts
Claims of reporting in accordance with the GRI Standards	102-54	This report has been prepared in accordance with the GRI Standards: Core option.
GRI content index	102-55	
External assurance	102-56	38 Independent assurance, 57 Independent limited assurance report
ECONOMIC PERFORMANCE		
GRI 103: MANAGEMENT APPROACH 2016	103-1-3	31 Economic value
GRI 201: ECONOMIC PERFORMANCE 2016		
Direct economic value generated and distributed	201-1	31 Direct economic value generated and distributed
		Figures are reported on Group level. We consider the regional level reporting of these figures proprietary information.
Defined benefit plans and obligations and other retirement plans	201-3	110-112 Consolidated financial statements: Note 6. Pension obligations
		Percentage of salary contributed and participation level are not reported.





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	Disclosure	
Topic and disclosure	number	References and reasons for omissions
PERSONNEL		
GRI 103: MANAGEMENT APPROACH 2016	103-1-3	27-28 Value for employees, 46-48 Personnel
GRI 401: EMPLOYMENT 2016		
New employee hires and employee turnover	401-1	46 Employee turnover
GRI 402: LABOR/MANAGEMENT RELATIONS 2016		
Minimum notice periods regarding operational changes	402-1	The personnel in Finland (65% of Vaisala's personnel) is covered by collective agreements of technology industries, which specify the minimum notice period. For other countries, the notice periods vary depending on legislation.
GRI 404: TRAINING AND EDUCATION 2016		
Percentage of employees receiving regular performance and career development reviews	404-3	28 Learning and development
		As all of our employees are offered the opportunity to have annual development discussions, regional and gender distribution are not considered relevant to report for this indicator.
GRI 405: DIVERSITY AND EQUAL OPPORTUNITY 2016		
Diversity of governance bodies and employees	405-1	48 Diversity and equality, 78-79 Board of Directors (years of birth), 80 Management Group (years of birth)
Ratio of basic salary and remuneration of women to men	405-2	48 Diversity and equality
		The study was conducted only in Finland, which covers approximately 64% of Vaisala's permanent employees. The study has not yet been conducted for other locations.
GRI 406: NON-DISCRIMINATION 2016		
Incidents of discrimination and corrective actions taken	406-1	No incidents of discrimination



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	Disclosure	
Topic and disclosure	number	References and reasons for omissions
OCCUPATIONAL HEALTH AND SAFETY		
GRI 103: MANAGEMENT APPROACH 2016	103-1-3	49-50 Occupational health and safety
GRI 403: OCCUPATIONAL HEALTH AND SAFETY 2018		
Occupational health and safety management system	403-1	49 Occupational health and safety management
Hazard identification, risk assessment, and incident investigation	403-2	49 Occupational health and safety management, 50 Proactive reporting and investigation
Occupational health services	403-3	50 Occupational health services
Worker participation, consultation, and communication on occupational health and safety	403-4	49 Collaboration
Worker training on occupational health and safety	403-5	49 Occupational health and safety management
Promotion of worker health	403-6	28 Well-being, 50 Occupational health services
Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	403-7	51 Respect for human rights
Workers covered by an occupational health and safety management system	403-8	49 Occupational health and safety management
Work-related injuries	403-9	49 Occupational health and safety management, 50 Injuries
		Data for contractors is too limited for reporting.

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	Disclosure	
Topic and disclosure	number	References and reasons for omissions
ETHICS AND COMPLIANCE		
GRI 103: MANAGEMENT APPROACH 2016	103-1-3	51-52 Ethics and compliance
GRI 205: ANTI-CORRUPTION 2016		
Communication and training about anti-corruption policies and procedures	205-2	51 Vaisala Code of Conduct, 51 Prevention of corruption and bribery
Confirmed incidents of corruption and actions taken	205-3	52 Compliance monitoring and violations (no incidents)
GRI 206: ANTI-COMPETITIVE BEHAVIOR 2016		
Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	206-1	52 Compliance monitoring and violations (no incidents)
GRI 307: ENVIRONMENTAL COMPLIANCE 2016		
Non-compliance with environmental laws and regulations	307-1	52 Compliance monitoring and violations (no incidents)
GRI 407: FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING 2016		
Operations and suppliers in which the right to freedom of association and collective	407-1	51 Respect for human rights, 53-54 Responsible supply chains
bargaining may be at risk		The topic is material only in some parts of the supply chain, not in Vaisala's own operations.
GRI 408: CHILD LABOR 2016		
Operations and suppliers at significant risk for incidents of child labor	408-1	51 Respect for human rights, 53-54 Responsible supply chains
		The topic is material only in some parts of the supply chain, not in Vaisala's own operations.
GRI 409: FORCED OR COMPULSORY LABOR 2016		
Operations and suppliers at significant risk for incidents of forced or compulsory labor	409-1	51 Respect for human rights, 53-54 Responsible supply chains
		The topic is material only in some parts of the supply chain, not in Vaisala's own operations.
GRI 412: HUMAN RIGHTS ASSESSMENT 2016		
Employee training on human rights policies or procedures	412-2	Vaisala's Code of Conduct training, organized annually, includes also topics related to human rights.



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	Disclosure	
Topic and disclosure	number	References and reasons for omissions
GRI 416: CUSTOMER HEALTH AND SAFETY 2016		
Incidents of non-compliance concerning the health and safety impacts of products and services	416-2	52 Compliance monitoring and violations (no incidents)
GRI 417: MARKETING AND LABELING 2016		
Incidents of non-compliance concerning product and service information and labeling	417-2	52 Compliance monitoring and violations (no incidents)
GRI 419: SOCIOECONOMIC COMPLIANCE 2016		
Non-compliance with laws and regulations in the social and economic area	419-1	52 Compliance monitoring and violations (no incidents)
RESPONSIBLE SUPPLY CHAINS		
GRI 103: MANAGEMENT APPROACH 2016	103-1-3	53-54 Responsible supply chains
GRI 308: SUPPLIER ENVIRONMENTAL ASSESSMENT 2016		
New suppliers that were screened using environmental criteria		The four new suppliers approved during 2020 had not been assessed with ESG criteria by the end of the reporting period. Three of these are related to Lesphere SAS whose supplier management integration is still in process. One new supplier was approved due to a change in an existing supplier's legal entity followed by a merger. In this case, the ESG assessment had not yet been finished.
GRI 414: SUPPLIER SOCIAL ASSESSMENT 2016		
New suppliers that were screened using social criteria	414-1	The four new suppliers approved during 2020 had not been assessed with ESG criteria by the end of the reporting period. Three of these are related to Lesphere SAS whose supplier management integration is still in process. One new supplier was approved due to a change in an existing supplier's legal entity followed by a merger. In this case, the ESG assessment had not yet been finished.

Governance

- **67** Corporate Governance Statement 2020
- **74** Risk management
- **78** Board of Directors
- **80** Management Group
- 81 Information for shareholders



Corporate Governance Statement 2020

Vaisala's general governance principles

Vaisala's corporate governance is based on and complies with the laws of Finland and Vaisala's Articles of Association. Consolidated financial statements and other financial reports are prepared according to the International Financial Reporting Standards (IFRS), approved by the EU. The company complies with the rules, regulations, and guidelines for listed companies issued by Nasdaq Helsinki Ltd and Finnish Supervisory Authority as well as Finnish Corporate Governance Code 2020 published by the Securities Market Association.

Vaisala Board of Directors has approved this Corporate Governance Statement in its meeting on February 18, 2021. Deloitte Oy, audit firm, the company's auditor, has verified that the statement has been issued and that the general description of internal audit and risk management systems associated with the financial reporting process conforms to the same in financial statements.

Deviation from the recommendations of the Corporate Governance Code and explanation for the deviation

The term of the members of Vaisala's Board of Directors deviates from the Recommendation 6 of Corporate Governance Code, which recommends a term of one year. The term of Vaisala's member of the Board of Directors is determined in accordance with its Articles of Association. Under the Articles of Association, a member's term is three years, beginning at the close of the General Meeting in which the member is elected and ending at the close of the third subsequent Annual General Meeting.

A longer term of office of the Board members is justified by the long-term development of Vaisala's business as well as by the nature of the business. The practice has worked well, and Vaisala's shareholders are committed to it.

Governing bodies

The General Meeting, the Board of Directors, and the President and CEO, assisted by the Management Group, are responsible for the governance of the Vaisala Corporation.

General meeting

The General Meeting is the supreme decision-making body of Vaisala, in which all the shareholders of the company can participate in the supervision and control of the company and exercise their right to vote, speak, and ask questions. The Annual General Meeting is held once a year before the end of June on a date determined by the Board of

Directors. It decides on the matters stipulated in the Finnish Limited Liability Companies Act and the Articles of Association. The decisions are mainly made with simple majority of votes.

The Chairman of the Board of Directors, members of the Board of Directors, and the President and CEO are present at the Annual General Meeting. The auditor is present at the Annual General Meeting. Board member candidates are present at the Annual General Meeting where they are elected. If the above-mentioned person or persons fail to attend the Annual General Meeting, Vaisala notifies the General Meeting of such non-attendance. The members of the Management Group participate in the Annual General Meeting, if possible.

Participation in the General Meeting requires that the shareholder



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is registered in Vaisala's shareholder register, maintained by Euroclear Finland Ltd, on the record date of the meeting and that he/she registers for the meeting by the date mentioned in the meeting notice.

Shareholders are entitled to have an issue placed on the agenda of the Annual General Meeting, provided that the issue can be decided upon by the Annual General Meeting according to the Limited Liability Companies Act. The request must be submitted in writing to the Board of Directors early enough that the issue can be included in the meeting notice. On its website, the company announces the date by which the shareholder must notify the Board of Directors of an issue to be added to the agenda of the Annual General Meeting. The date is available by the end of the previous financial year.

Vaisala publishes a notice of the Annual General Meeting no more than two months before the record date and no less than three weeks before the meeting on the company's website or in any other way that may be decided by the Board of Directors, or Vaisala may deliver it directly to shareholders when required by law. In addition, Vaisala publishes a meeting notice as a stock exchange release after the Board of Directors has decided on the convening of the Annual General Meeting. Agenda of the Annual General Meeting, proposals on decisions, and meeting documents are available on the company's website at least three weeks prior to the meeting. Documents of the Annual General Meeting will be held on the company's website for at least five years from the time of the meeting. Minutes of the meeting will be published on the company's website within two weeks of the meeting.

Due to the COVID-19 pandemic, the Annual General Meeting 2020 was held on June 3, 2020 in accordance with the temporary legislative act approved by the Finnish Parliament on April 24, 2020 and in a manner that the shareholders, auditor, and members of Board of Directors were not present. Shareholders both voted and were allowed to ask questions in advance.

Board of Directors

Competence, composition, and election

The Board of Directors is responsible for the administration and the proper organization of the operations of the company. The Board acts in accordance with the Articles of Association and the applicable legislation as well as the instructions and recommendations of the Financial

Supervisory Authority and Nasdaq Helsinki Ltd. In accordance with the Articles of Association, Vaisala Corporation Board of Directors comprises at least four and maximum eight members. The Annual General Meeting elects all Board members. The Board of Directors elects a Chairman and a Vice Chairman from among its members. Under the Articles of Association, the term of the Board members is three years. The term begins at the close of the General Meeting in which the member is elected and ends at the close of the third subsequent Annual General Meeting following the member's election.

Selection criteria, diversity, and the independence of the members

The primary goal in Board member election is to gather capability, expertise, and experience from various technologies, international relations, global business, and strategically significant industries to the Board of Directors. The Board should be considered as a whole that is capable of managing its tasks and duties in the best possible way. The goal of the election of the members of the Board of Directors is to ensure that the Board supports the development of the company's current and future business. In addition, the Board should consist of members of both genders, and the members should have the chance to allocate a sufficient amount of time to managing their tasks. The goal is that there is at least 25% representation of both men and women in the Board of Direcctors.

Vaisala complies with the Finnish Corporate Governance Code 2020 in evaluation of the independence of the members of the Board. The majority of the members of the Board must be independent of the company, and at least two members in this majority must be independent of the company's major shareholders. The Board of Directors evaluates the independence of the members annually based on an overall evaluation. This evaluation of a member takes into account information and analysis provided by the member himself/herself.

Vaisala Board of Directors in 2020 represents adequate expertise and experience as well as diversity on the established goals. All members of the Board of Directors were independent of the company and of the company's major shareholders.

Meetings, duties, and decision-making

The Board of Directors convenes at least eight times a year and if otherwise needed. The President and CEO and the Chief Financial Officer

also attend Board meetings. The other members of the Management Group attend Board meetings as required on the invitation of the Board of Directors. The Board of Directors may, on the basis of the Chairman's decision, establish working groups from among its members in individual cases to prepare the matters allocated for it in order to ensure the effective organization of the Board of Directors' work.

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The Board of Directors operates in accordance with an approved written charter, published on the company's website. Meetings may, if necessary, be held as conference calls, video meetings, or e-mail meetings. Minutes of the meetings are compiled in English, with annually running numbering. The General Counsel acts as the Secretary of the Board of Directors.

A member of the Board of Directors is not allowed to participate if he/she is biased in that issue between him/her and the company or between the company and a third party when there is a possibility to achieve essential advantage to him/her, which may conflict with the company's interest.

The members of the Board of Directors are bound by obligations related to commercial and trade secrets as well as by the restrictions and requirements of the Market Abuse Regulation (EU) N:o 596/2014 (MAR) and the restrictions and obligations of Vaisala's Insider Policy. In their decision-making and other activities, the Board and its members must act in accordance with the interest of the company and all its shareholders as well as in accordance with the principles of due care and data protection.

The Board will have a quorum when more than half of the members are present. Decisions are made on a simple majority basis, and when the votes are even, the Chairman has the casting vote. When the votes for election of the Chairman are even, the Chairman is elected by drawing lots.

The President and CEO is responsible for the execution of the Board of Directors' decisions, oversees their implementation, and reports to the Board on deficiencies or problems observed during the execution.

Main responsibilities of the Board of Directors are

- to decide on the election and dismissal of the President and CEO
- to decide on the employment terms of the President and CEO
- to decide on the election and dismissal of the members of the Management Group and their job descriptions based on the President and CEO's proposition

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- to ensure that the company has organized internal control of accounting and financial management as well as to monitor the effectiveness of supervision
- to determine the company's strategy and oversee its implementation and to approve the strategic plans of the business areas
- to determine the company's long-term targets and to monitor their implementation and to accept business areas' long-term targets
- to assess the company's and its business areas' annual action plans
- to approve the company's and its business areas' financial targets
- to make the business decisions, the value of which exceeds the approval limit of the President and CEO according to the Approval Policy, such as business reorganizations, acquisitions and divestitures, major contracts and liabilities, investments, and financing arrangements
- to review and approve the company's most important policies and instructions, such as Approval Policy, Treasury Policy, Disclosure Policy, Dividend Policy, Risk Management Policy, Insider Policy, Code of Conduct, and Anti-Corruption Policy
- to decide on management remuneration and incentive systems

Members of the Board of Directors in 2020

During January 1-June 3, 2020, the Board of Directors comprised eight members. The Chairman of the Board of Directors was Raimo Voipio, the Vice Chairman was Ville Voipio, and the members were Petri Castrén, Petra Lundström, Jukka Rinnevaara, Kaarina Ståhlberg, Tuomas Syrjänen, and Pertti Torstila. The Board of Directors' secretary was General Counsel Katriina Vainio.

The Annual General Meeting held on June 3, 2020 confirmed that the number of Board members is eight. Petri Castrén, Petra Lundström, Jukka Rinnevaara, Kaarina Ståhlberg, Tuomas Syrjänen, Raimo Voipio, and Ville Voipio continued as members of the Board of Directors. Antti Jääskeläinen started as a new member of the Board. The Chairman of the Board of Directors is Raimo Voipio, and the Vice Chairman is Ville Voipio. The Board of Directors' secretary is General Counsel Katriina Vainio.

Composition of the Board of Directors Dec 31, 2020

		End of					Shareholding
Member	Member since	term	Born	Education	Nationality	Main occupation	Dec 31, 2020
	1989		'				
Raimo Voipio,	Chairman since						570,524 (A share)
Chairman	1994	2023	1955	M.Sc. (Eng.)	Finnish	Board professional	454,296 (K share)
Ville Voipio							396,493 (A share)
Vice Chairman	2015	2021	1974	D.Sc. (Tech.)	Finnish	CTO, Si-Tecno Oy	96,712 (K share)
				LL.M., MBA (University of			
Petri Castrén	2017	2022	1962	Connecticut)	Finnish	CFO, Kemira Oyj	2,807 (A share)
				M.Sc. (Eng.), M.Sc. (Econ.),		Executive Vice President, UPM	
Antti Jääskeläinen	2020	2023	1972	MBA (INSEAD, France)	Finnish	Raflatac	406 (A share)
				M.Sc.		Vice President, Nucle- ar Services, Fortum	
Petra Lundström	2014	2021	1966	(Tech. Physics)	Finnish	Power and Heat Oy	6,207 (A share)
Jukka Rinnevaara	2019	2023	1961	M.Sc. (Econ.)	Finnish	President and CEO, Teleste Corporation	1,126 (A share)
				LL.M (Helsinki and		General Counsel and	
Kaarina Ståhlberg	2016	2022	1966	Columbia Universities)	Finnish	M&A, Posti Group Oyj	5,607 (A share)
						Program Director - Al	
Tuomas Syrjänen	2019	2022	1976	M.Sc. (El. Eng.)	Finnish	Renewal, Futurice Oy	2,476 (A share)
							985,646 (A share)

551,008 (K share) 1,536,654 (Total)

Total

Shareholdings include also shares held by the Board of Directors' controlled organizations.

In accordance with the recommendation 10, all Board members are independent of the company and of significant shareholders of the company.

Attendance in board meetings 2020

	Attendance/	
Member	number of meetings	Attendance %
Raimo Voipio (Chairman)	16/16	100
Petri Castrén	16/16	100
Antti Jääskeläinen	8/8	100
Petra Lundström	16/16	100
Jukka Rinnevaara	16/16	100
Kaarina Ståhlberg	16/16	100
Tuomas Syrjänen	15/16	94
Pertti Torstila	7/7	100
Ville Voipio	16/16	100

Board committees

The Board of Directors has two permanent committees: Audit Committee and Remuneration and HR Committee. The members and the chairs of the Committees are appointed annually from among the members of the Board of Directors in accordance with the charter of the respective committee.

Audit Committee

The Audit Committee assists the Board of Directors in supervising the company's accounting and asset management, risk management, as well as in organizing internal controls and external and internal audits. The Audit Committee manages its tasks in accordance with the charter approved by the Board of Directors, the Securities Market Association's Finnish Corporate Governance Code, as well as the applicable laws and regulations. The Audit Committee's charter is published as part of the charter of the Board of Directors on the company's website. The Audit Committee reports regularly about its meetings to the Board of Directors.

The Audit Committee comprises at least three members, appointed annually by the Board of Directors from among its members. The members of the committee must be independent of the company, and at least one member must also be independent of significant shareholders of the company. A member of the Audit Committee may not participate in the company's or its group company's daily management. Members of the Audit Committee have sufficient expertise and experience in matters forming part of the Audit Committee's duties and of the mandatory tasks related to audit.

Remuneration and HR Committee

The Remuneration and HR Committee is responsible for preparing human resources matters pertaining to the compensation of the President and CEO as well as top management, evaluation of the performance of the President and CEO and the Management Group, and to remuneration and incentive plans. Remuneration and HR Committee prepares Remuneration Policy for governing bodies and Remuneration Report. Additionally, the Remuneration Committee oversees the performance evaluation and successor planning of top management. The Remuneration and HR Committee's charter is available as part of the charter of the Board of Directors on the company's website. The Remuneration and HR Committee reports regularly about its meetings to the Board of Directors.

The Remuneration and HR Committee comprises at least three members, appointed annually by the Board of Directors from among its members. The majority of the members of the committee must be independent of the company.

Temporary Nomination Committee

In 2020, the Board of Directors appointed a temporary four-member Nomination Committee from among its members to assist in the selection of President and CEO. The Committee was active during January-April 2020, and it reported regularly of its actions to the Board of Directors.

Committee members and their attendance in committee meetings in 2020

		Attendance/ number of		
Committee	Member	meetings		Attendance %
Audit Committee	Kaarina Ståhlberg (Chair)		4/5	80
	Petri Castrén		5/5	100
	Antti Jääskeläinen (as of June 3, 2020)		3/3	100
	Jukka Rinnevaara (until June 3, 2020)		2/2	100
	Ville Voipio		5/5	100
Remunera-	Ville Voipio (Chair)		6/6	100
tion and HR Committee	Petri Castrén (until June 3, 2020)		1/1	100
	Petra Lundström		6/6	100
	Jukka Rinnevaara (as of June 3, 2020)		5/5	100
Temporary	Raimo Voipio (Chair)	10)/10	100
Nomination Committee	Jukka Rinnevaara	10)/10	100
	Kaarina Ståhlberg	10)/10	100
	Ville Voipio	10)/10	100

All members of the Audit Committee as well as the Remuneration and HR Committee are independent of both the company and its significant shareholders. Members of the temporary Nomination Committee were independent of both the company and its significant shareholders.

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President and CEO

The Board of Directors appoints the President and CEO. The President and CEO is responsible for the day-to-day management of the company in accordance with the guidelines and instructions given by the Board of Directors and informs the Board of Directors of the development of the company's business and financial situation. The President and CEO is responsible for ensuring that the company's accounting is legally compliant and that its financial affairs have been arranged in a reliable manner. Kjell Forsén was the President and CEO of Vaisala as well as the Chairman of Vaisala Management Group since 2006 until the end of September 2020. He retired at the end of the year. Kai Öistämö started as President and CEO in October 2020. He was born in 1964 and holds a Ph.D. degree in computer science.

Management Group

The President and CEO is the Chairman of the Management Group. In 2020, the Management Group comprised seven members. The Management Group meets at least once a month to assist the President and CEO in developing and implementing the strategy, managing operational business, as well as preparing matters handled by the Board. The Management Group draws up annual operational and financial plans as well as targets related to these plans, monitors the implementation of the plans, and prepares major investments and acquisitions. The President and CEO is responsible for the decisions made by the Management Group. Members of the Management Group are responsible for implementing the decisions in their own areas of responsibility.

Members of the Management Group are the Executive Vice Presidents of both business areas, the Chief Financial Officer, the Executive Vice President of Operations, the Executive Vice President of Human Resources, as well as the Group General Counsel. The General Counsel acts as secretary to the Management Group.

Members of the Management Group Dec 31, 2020

Director	Member since	Born	Education	Nationality	Position at Vaisala	Shareholding Dec 31, 2020
Kai Öistämö	2020	1964	PhD (Computer science)	Finnish	President and CEO	-
Mari Heusala	2019	1966	M.Sc. (Econ.)	Finnish	EVP, Human Resources	-
Sampsa Lahtinen	2013	1963	M.Sc. (El. Eng.)	Finnish	EVP, Industrial Measurements business area	25,606 (A share)
Kaarina Muurinen	2011	1958	M.Sc. (Econ.)	Finnish	CFO	29,496 (A share)
Vesa Pylvänäinen	2011	1970	M.Sc. (Econ.)	Finnish	EVP, Operations	20,412 (A share)
Jarkko Sairanen	2016	1963	M.Sc. (Ind. Eng.), MBA (INSEAD)	Finnish	EVP, Weather and Environment business area	13,176 (A share)
Katriina Vainio	2017	1967	LL.M.	Finnish	EVP, Group General Counsel	13,088 (A share)
Total						101,778 (A share)

Shareholdings include also shares held by the Management Group's controlled organizations.

Vaisala announced on January 1, 2021 that Olli Nastamo, M.Sc. (Engineering), b. 1956, has been appointed Executive Vice President, Operational Excellence as of March 1, 2021. He becomes a member of the Vaisala Management Group and reports to the President and CEO Kai Öistämö. With this appointment, the number of management group members rises to eight (8).



Main features of the internal control and risk management systems pertaining to the financial reporting process

Internal control seeks to ensure the company's compliance with applicable laws, regulations, Code of Conduct, and with other recommendations as well as the reliability of financial and operational reporting. Furthermore, internal control seeks to safeguard the assets of the company and to ensure overall effectiveness and efficiency of operations to meet strategic, operational, and financial targets. Internal control practices are aligned with the risk management process. The goal of risk management is to support strategy and achievement of targets by anticipating and reacting to potential business threats and opportunities.

Vaisala's operating model of internal control and risk management related to financial reporting aims to provide sufficient assurance regarding the reliability of financial reporting and that the financial statements have been prepared in accordance with the applicable laws and regulations, accepted accounting principles (IFRS), and other requirements for listed companies. The principal components of internal control are control environment, risk assessment, control activities, communications, and monitoring.

Control environment

The Board of Directors has the overall responsibility for the internal control of financial reporting. The Board of Directors has established a written charter that clarifies its responsibilities and regulates the internal distribution of work of the Board of Directors and its committees. The Board of Directors has appointed the Audit Committee whose task is to ensure that established principles for financial reporting, risk management, and internal control are followed by and to enable appropriate external audit. The President and CEO is responsible for organizing an effective control environment and ongoing work on internal control as regards financial reporting. The internal audit reports all relevant issues to the Audit Committee and the President and CEO.

Internal audit focuses on developing and enhancing controls related to financial reporting by proactively and consistently assessing internal control environment and by monitoring the effectiveness of the control design. Most important internal steering instruments for financial reporting comprise the Code of Conduct, Approval Policy, Treasury Policy, Credit Policy, Disclosure Policy, accounting policies, and other reporting instructions.

Risk assessment

Risk assessment as regards financial reporting aims to identify and systematically evaluate most significant threats at the levels of Vaisala, reporting segments, functions, and processes. As a result of risk assessment, the company defines control targets through which it seeks to ensure that the fundamental requirements placed on financial reporting are fulfilled. Information on the development of essential risk areas as well as reactions to the risks are communicated regularly to the Audit Committee.

Control activities

The President and CEO is operationally responsible for internal controls. Internal control related to financial activities as well as to control of the business and the management has been integrated into Vaisala's business processes. The company has defined and documented significant internal control activities related to its financial statements reporting process as part of business processes. Approval mechanisms, access rights, segregation of duties, authorizations, verifications, reconciliations, and follow-up of financial reporting are essential internal activities.

All business units have their own defined controller function whose representatives participate in planning and evaluating the unit's performance. They ensure that monthly and quarterly financial reporting follows the company's policies and instructions and that all financial reporting is delivered on time. The management follows up the achievement of targets through monthly management reporting routines. The Chief Financial Officer regularly reports the results of the internal control work and the efficiency of the control activities to the Audit Committee.

Communications

Vaisala seeks to ensure that the internal and external communication of the company is open, transparent, accurate, and timely. The Disclosure



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Policy defines how and when information should be given and by whom it is given. It also defines the accuracy and comprehensiveness of the information in order to fulfill the communication obligations. Code of Conduct, Approval Policy, Treasury Policy, Credit Policy, accounting policies, and reporting instructions as well as Disclosure Policy and Insider Policy are available on the company's intranet.

Monitoring

The Board of Directors, the Audit Committee, the President and CEO, and internal audit monitor the effectiveness of internal control related to financial reporting. The monitoring includes follow-up of monthly financial reports, review of the rolling forecasts and plans, as well as reports from internal audit and auditors. Internal audit assesses the effectiveness of operations and adequacy of risk management and reports the risks and development areas related to the internal control processes. Internal audit compiles an annual audit plan and reports the status of the plan and findings regularly to the Audit Committee and the Management Group. Furthermore, the Chief Financial Officer, the General Counsel, internal audit, and auditor coordinate audit planning and monitoring regularly.

General development measures in internal control and risk management in 2020

In 2020, internal audit focused on a renewed sourcing and procurement process, the integration process of acquired companies, access management process, and certain follow-up audits, such as GDPR compliance and sales process. A sourcing and procurement audit resulted in recommendations in process improvement and efficiency. Other audits provided input to continual improvement of processes and internal controls.

Harmonization of the control environment in businesses recently acquired by Vaisala has been a priority of internal controls during several years. In 2020, Finance and Control created a Control Catalog describing the most significant risk-based internal controls to ensure completeness, timeliness, and reliability of financial reporting and to prevent fraud.

Related party transactions

Vaisala Board of Directors has defined principles for monitoring and assessing related party transactions as well as keeps a record of related parties. The Board of Directors resolves on all related party transactions that are not made in the ordinary course of business and implemented under arms-length terms.

On top of its affiliates, related parties of Vaisala are Vaisala Board members, Vaisala Management Group (VMG) members including President and CEO, as well as their spouses, partners, and children and legal entities, where a Member of Board or a VMG member has control. Board of Directors has approved guidelines that stipulate approval process and reporting concerning related party transactions. In accordance with the guidelines, Finance and Control as well as Legal follow related party transactions as part of regular reporting and control procedures. Board of Directors will resolve on all related party transactions that are not made in the ordinary course of business and implemented under arms-length terms.

Vaisala reports related party transactions in a note to financial statements. Vaisala has currently no related party transactions which would be material and in conflict with the ordinary course of business and not implemented under arms-length terms.

Auditing and auditor's fees

According to the Articles of Association, the company has one auditor, who must be a public accountant or an audit firm authorized by the Finland Chamber of Commerce. If an audit firm is not chosen to perform the auditing, a deputy auditor must be elected as well. Auditor's term of office covers the current fiscal year and expires at the close of the following Annual General Meeting. Annual General Meeting elects the auditor and decides on the compensation paid to them.

The Annual General Meeting held on June 3, 2020 re-elected Deloitte Oy, audit firm, as the Auditor for a term of one year. APA Reeta Virolainen has acted as the auditor with the principal responsibility as of June 3, 2020. APA Merja Itäniemi acted as the auditor with the principal responsibility of the company during March 26, 2014–June 3, 2020.

Auditor's fees

EUR 1,000	2020	2019
Audit	416	488
Tax advice	34	30
Statements	12	16
Other fees	74	50
Total	536	584

Insiders

Vaisala maintains project- or event-specific insider lists when needed. 30-day closed window applies to the managers defined by the company before publishing Interim Reports, Half Year Financial Report, Financial Statement Release, and Financial Statements. Closed window ends on the day following the publication day. Closed window also applies to the persons engaged in preparation of those reports. The managers subject to transaction notification obligations comprise the Board of Directors, the President and CEO, as well as members of the Management Group. The company's legal department is responsible for insider management, training, creation, and maintenance of projectand event-specific insider lists as well as monitoring of the same.

The President and CEO, Chief Financial Officer, and/or the General Counsel, two together, can decide, based on an evaluation of the conditions set out in the Market Abuse Regulation being met, to delay publication of insider information. When the company makes the decision on delay of disclosure, a project- or event-based insider list regarding the inside information will be established. Persons, to whom project- or event-specific inside information is disclosed, are entered into the project- or event-specific insider list.

Risk management

The objective of Vaisala's risk management is to identify and manage material risks related to strategy implementation and business operations. Vaisala's Risk Management Policy, approved by the Board of Directors, covers the company's strategic, operational, hazard, and financial risks. The policy aims to ensure the safety of the company's personnel, operations, and products as well as the continuity and compliance of business operations.

The Board of Directors defines and approves risk management principles and assesses the effectiveness of risk management. The Audit Committee reviews compliance with Risk Management Policy and processes. Vaisala's Risk Management Steering Group is responsible for the operational oversight of risk management and assures that all significant risks are identified and reported and that risks are acted upon in the appropriate manner.

Risk management is integrated into key business processes and operations by incorporating risk identification, assessment, management, and risk reporting actions into the core processes. The most significant risks are reported to the Vaisala Management Group quarterly and to the Audit Committee annually.

Various risks may have an adverse effect on Vaisala's business operations. The list in this chapter explains some of the risks with their potential impacts and how Vaisala manages those risks. Risk likelihoods and impacts are estimates, provided by a small group of subject area experts. No quantitative methods have been applied to assess either likelihoods or impacts.

Risks related to sustainable practices

Environment

We assess environmental risks as part of our environmental management system. The most significant environmental risks of our operations are related to potential emergency situations that can lead to local contamination. These risks are controlled as part of our emergency preparedness and our management process for hazardous substances. Climate change, on the other hand, has been assessed to increase the likelihood of certain risks (*H4* and *O1* in the table introduced here). Exceptional weather conditions, storms, floods, and drought – all related to climate change – may provide Vaisala also with business opportunities.

Social and personnel matters

On an individual level, personnel risks relate to occupational health and occupational accidents. On corporate level, the risks are related to the company's ability to retain and attract talent. These risks are controlled through continuous development of Vaisala's occupational health and safety system, support for the well-being of our employees, monitoring employee satisfaction, as well as providing purposeful work, learning opportunities, and an equal work environment.

Respecting human rights and preventing corruption and bribery

Risks related to human rights violations, corruption, and bribery impact corporate reputation, brand, and the company's ability to attract the best talent. Other potential consequences are judicial processes, penalties, contract cancellations, and exclusion from tenders. These risks are managed through recurring and compulsory Code of Conduct trainings as well as audits. We choose our suppliers carefully and verify the sustainability of their practices. Our Supplier Code of Conduct sets the requirement level for their operation. Our other partners, such as distributors and agents, are committed to complying with our Code of Conduct. The compliance of all our partners is assessed and monitored.



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Risk management

LIKELIHOOD	VERY HIGH					
LIKE	HIGH	F1 F4	04	S5 S6	S1	
	MEDIUM		H4	\$4	S2 S3	
	LOW		НЗ	01	02 03	H2
	VERY LOW	F2 F3			H5	Н
		VERY LOW	LOW	MEDIUM	HIGH	VERY HIGH

IMPACT

Key ı	risks 2020	Impact/Likelihood
Strat	egic risks	
S1	Challenges in the aviation industry decrease the demand for aviation weather solutions	high/high
S2	Larger austerity measures in the public sector than anticipated or global depression due to the COVID-19 pandemic	high/medium
S3	Industry consolidation, increased competition, loss of market leader and price premium position	high/medium
S4	Lack of success in winning large projects in weather business	medium/medium
S5	Slow growth of the remote wind sensing business	medium/high
S6	Political, legislative, or regulatory changes	medium/high
Haza	rd risks	
H1	Long disruption in the cleanroom operation	very high/very low
H2	Severe field service personnel accident caused by working conditions	very high/low
НЗ	Critical failure of infrastructure supporting digital solutions	low/low
H4	Natural disaster, epidemic (other than COVID-19), civil unrest, terrorism	low/medium
Н5	Long disruption in radiosonde production	high/very low
Oper	rational risks	
01	Business continuity risks related to suppliers	medium/low
02	Cyber risk	high/low
03	Long unavailability of IT systems	high/low
04	Delay in a significant product launch	low/high
Finar	ncial risks	
F1	Credit risk	very low/high
F2	Liquidity and refinancing risk	very low/very low
F3	Financial credit and interest rate risk	very low/very low
F4	Currency risk	very low/high

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(S1) Challenges in the aviation industry decrease the demand for aviation weather solutions

Due to the COVID-19 virus, air traffic has decreased significantly. The aviation industry is facing major financial challenges, affecting the investment needs and capabilities of Vaisala's customers in the near future.

Managing risk

- Updating aviation weather solutions instead of renewing them
- Focusing on efficiency and automation in Vaisala's offering
- Studying the demand for new business models

(\$2) Larger austerity measures in the public sector than anticipated or global depression due to the COVID-19 pandemic

The scale of the austerity measures that are implemented due to the COVID-19 virus and affect Vaisala's customers is not yet known. Moreover, global depression is possible.

Managing risk

- Highlighting the importance of investments in weather observations
- Utilizing financial stimulus packages and funding mechanisms together with customers
- Saving costs with the help of automation and remote services
- Managing cost

(S3) Industry consolidation, increased competition, loss of market leader and price premium position

Vaisala is a market leader in many businesses. Loss of that position would lead to a significant reduction in profitability. Competitor mergers are taking place especially in the weather and environment business area, which will affect the competitive situation.

Managing risk

- Continued focus on product leadership
- · Striving for outstanding customer experience and superior product quality
- · Gathering and analyzing competitor information
- Actively managing product portfolio
- Focusing on capacity building projects in the weather business

(\$4) Lack of success in winning large projects in weather business Large infrastructure projects have a significant impact on net sales.

Managing risk

- Growing the number of projects in the sales funnel
- Frequent customer contacts
- Development of project funding solutions

(\$5) Slow growth of the remote wind sensing business

The market for lidar technology, used for remote wind sensing, is very competitive. The expansion of the applications into wind energy production and aviation is slow.

Managing risk

- Partnerships and local production in China
- Integration of airport applications into the rest of Vaisala's product portfolio
- · Lowering unit costs

(\$6) Political, legislative, or regulatory changes

Changes in the market environment and growing protectionism can lead to loss of market potential or increased cost of accessing the market.

Managing risk

- Geographic and market diversity of businesses
- · Increasing local production in the Unites States and China together with partners
- · Market and regulatory foresight
- Partnerships
- Following the economic and political developments in the United States, China, and Russia

Hazard risks

(H1) Long disruption in the cleanroom operation

Long disruption of cleanroom operation would have a major impact on the delivery capability of both business areas. Potential causes could include fire, contamination, or breakdown of key equipment

Managing risk

- Emergency stock of sensor components, management of manufacturing equipment and spare parts, safety of facilities
- · Business continuity planning
- Manufacturing partnerships
- Business Interruption Insurance

H2 Severe field service personnel accident caused by working conditions

A serious accident caused by hazardous working conditions, for example at roadsides, in tall towers, or in extreme conditions.

Managing risk

- Continuous development of occupational safety, emergency procedures, job hazard analysis
- Tracking system for employees working in hazardous conditions

GOVERNANCE





Service unavailability due to, for example, a communications or software failure or power outage, causing significant harm to customers.

Managing risk

- Geographic system redundancy across multiple server sites
- Transition to cloud computing

(14) Natural disaster, epidemic (other than COVID-19), civil unrest, terrorism

Impaired business environment caused by external events.

Managing risk

- · Geographic diversity of business
- Business Interruption Insurance
- · Monitoring the business environment
- Risk assessment of business opportunities
- Crisis management team

H5 Long disruption in radiosonde production

A long disruption in production can result in the loss of long-term customers.

Managing risk

- Identification of critical production factors and managing their risks
- · Safety of facilities
- · Reserve stocks
- Business Interruption Insurance

Operational risks

(01) Business continuity risks related to suppliers

Long disruption in the operations of a strategic supplier, for example due to a natural disaster, equipment breakdown, an accident, or bankruptcy.

Managing risk

- · Active supplier risk assessment
- Long-term supplier development plans
- Strategic supplier business continuity audits
- Parts stock at Vaisala

©2 Cyber risk

Interruptions to operations or digital services, financial loss, loss of trade secrets or personal data.

Managing risk

- ISO 27000 compliant Information Security Management System (ISMS) creation and deployment
- Cyber insurance
- · GDPR controls

03 Long unavailability of IT systems

Unavailability of systems leads to interruptions in operations, especially in manufacturing.

Managing risk

- IT Disaster Recovery Plan as part of Information Security Management System
- Shortening the resolution time of critical incidents
- Change management process of systems, including impact assessments and formal approvals
- · Cyber insurance

04 Delay in a significant product launch

A product development project may be delayed due to technical or resource-related issues, leading to additional costs and delayed profit.

Managing risk

- Continuous improvement of product development processes
- Developing software architecture and product platforms
- Management and prioritization of the product portfolio
- Use of Lean methods as part of product development

Financial risks

F1 Credit risk

Managing risk

- · Secured terms of payment
- · Business credit checks
- · Diverse customer pool

F2 Liquidity and refinancing risk

Managing risk

· Sustainable capital structure

F3 Financial credit and interest rate risk

Managing risk

- · High credit rating of financial counter parties
- · Low risk cash investment

F4 Currency risk

Managing risk

· Currency hedging



Board of Directors



Raimo Voipio

Chairman of the Board of Directors b. 1955, Finnish citizen, M.Sc. (Engineering) Independent member of the Vaisala Board of Directors since 1989 and Chairman since 1994. End of term 2023.

Main occupation: Board professional

Vaisala shares held

Dec 31, 2020: 570,524 A shares and 454,296 K shares Dec 31, 2019: 570,002 A shares and 454,296 K shares



Ville Voipio

Vice Chairman of the Board of Directors, Member of the Audit Committee, Chairman of the Remuneration and HR Committee

b. 1974, Finnish citizen, D.Sc. (Measurement Technology)

Independent member of the Vaisala Board of Directors since 2015. End of term 2021.

Main occupation: CTO, Si-Tecno Oy, R&D and strategy management

Vaisala shares held

Dec 31, 2020: 396,493 A shares and 96,712 K shares Dec 31, 2019: 396,087 A shares and 96,712 K shares



Petri Castrén

Member of the Audit Committee Born 1962, Finnish citizen, LL.M, MBA (University of Connecticut, USA) Independent member of the Vaisala Board of Directors since 2017. End of term 2022.

Main occupation: Chief Financial Officer, Kemira Oyj

Vaisala shares held

Dec 31, 2020: 2,807 A shares Dec 31, 2019: 2,401 A shares



Antti Jääskeläinen

Member of the Audit Committee b. 1972, Finnish citizen, M.Sc. (Eng.), M.Sc. (Econ.), MBA (INSEAD, France) Independent member of the Vaisala Board of Directors since 2020. End of term 2023.

Main occupation: Executive Vice President, UPM Raflatac, Member of the UPM Group Executive Team

Vaisala shares held

Dec 31, 2020: 406 A shares

Dec 31, 2019: -

GOVERNANCE





Petra Lundström

Member of the Remuneration and HR Committee b. 1966, Finnish Citizen, M.Sc. (Technical Physics) Independent member of the Vaisala Board of Directors since 2014. End of term 2021.

Main occupation: Vice President, Nuclear Services, Fortum Power and Heat Oy

Vaisala shares held Dec 31, 2020: 6,207 A shares

Dec 31, 2019: 5.801 A shares



Jukka Rinnevaara

Member of the Remuneration and HR Committee

b. 1961, Finnish citizen, M.Sc. (Econ.)

Independent member of the Vaisala Board of Directors since 2019. End of term 2023.

Main occupation: President and CEO, Teleste Corporation

Vaisala shares held

Dec 31, 2020: 1,126 A shares Dec 31, 2019: 720 A shares



Kaarina Ståhlberg

Chairman of the Audit Committee b. 1966, Finnish citizen, LL.M. (University of Helsinki and Columbia University, NY) Independent member of the Vaisala Board of Directors since 2016. End of term 2022.

Main occupation: General Counsel and M&A, Member of the Executive Board, Posti Group Oyj

Vaisala shares held

Dec 31, 2020: 5,607 A shares Dec 31, 2019: 5,201 A shares



Tuomas Syrjänen

Member of the Board of Directors b. 1976, Finnish citizen, M.Sc. (El. Eng.) Independent member of the Vaisala Board of Directors since 2019. End of term 2022.

Main occupation: Program Director - Al Renewal, Futurice Oy

Vaisala shares held

Dec 31, 2020: 2,476 A shares Dec 31, 2019: 2,070 A shares

Shareholdings include direct holdings and shares held by interest parties and controlled organizations. Read full CV information on the company's website at vaisala.com.

Management Group



Kai Öistämö

President and CEO, Chairman of the Management Group since 2020 b. 1964, Finnish citizen, D.Sc. (Tech.) Vaisala shares held Dec 31, 2020: -Dec 31, 2019: -



Vesa Pylvänäinen

Executive Vice President, Operations since 2011 b. 1970, Finnish citizen, M.Sc. (Econ.) Vaisala shares held
Dec 31, 2020: 20,412 A shares
Dec 31, 2019: 15,212 A shares



Mari Heusala

Executive Vice President, Human Resources since 2019 b. 1966. Finnish citizen. M.Sc. (Econ.)

Vaisala shares held Dec 31, 2020: -Dec 31, 2019: -



Jarkko Sairanen

Executive Vice President, Weather and Environment since 2016 b. 1963, Finnish citizen, M.Sc. (Ind. Eng.), MBA (INSEAD) Vaisala shares held Dec 31, 2020: 13,176 A shares Dec 31, 2019: 14,776 A shares



Sampsa Lahtinen

Executive Vice President, Industrial Measurements since 2013 b. 1963, Finnish citizen, M.Sc. (El. Eng.) Vaisala shares held
Dec 31, 2020: 25,606 A shares
Dec 31, 2019: 15,206 A shares



Katriina Vainio

Executive Vice President, Group General Counsel since 2017 b. 1967, Finnish citizen, LL.M. Vaisala shares held

Dec 31, 2020: 13,088 A shares

Dec 31, 2019: 7,888 A shares



Kaarina Muurinen

CFO since 2011 b. 1958, Finnish Citizen, M.Sc. (Econ.) Vaisala shares held
Dec 31, 2020: 29,496 A shares
Dec 31, 2019: 29,096 A shares

Shareholdings include also shares held by the Management Groups' controlled organizations. Read full CV information on the company's website at vaisala.com.

Information for shareholders

Vaisala Corporation's Annual General Meeting will be held on Tuesday March 30, 2021. The Board of Directors of Vaisala has resolved on exceptional procedure for the meeting based on the temporary legislative act approved by the Finnish Parliament on October 2, 2020. The company has resolved to take actions enabled by the act in order to hold the meeting in a predictable manner, taking into account the health and safety of the company's shareholders, personnel, and other stakeholders. Shareholders can follow the meeting via live webcast on Vaisala website at vaisala.com/agm. More information about the Annual General Meeting at vaisala.com/agm.

Payment of dividends

The Board of Directors proposes to the Annual General Meeting a dividend of EUR 0.61 per share for the fiscal year 2020 to be paid. The dividend would be paid to shareholders registered in the Register of Shareholders held by Euroclear Finland Ltd on the record date of the dividend distribution, April 1, 2021. The Board of Directors proposes that the dividend will be paid on April 12, 2021.

Change of address

Vaisala's shareholders are kindly requested to report written changes of address to the bank where they have their book entry account.

Listing of Vaisala shares

Vaisala Corporation has two classes of shares: the listed series A shares and the non-listed series K shares. The Vaisala series A shares are listed on the Nasdaq Helsinki and are registered at Euroclear Finland Ltd.

Publication of financial information

Vaisala Corporation publishes financial information in Finnish and English. All materials are available on Vaisala's website at vaisala.com.

The printed Finnish Annual Report will be mailed only upon request. The company's mailing list for financial reports can be joined on Vaisala's website at vaisala.com.

Interim Reports and Half Year Report

- April 29, 2021: Interim Report January-March 2021
- July 23, 2021: Half Year Financial Report 2021
- October 28, 2021: Interim Report January-September 2021

Silent period

Silent period begins 30 calendar days before the publishing of the Interim Reports, Half Year Financial Report, and Financial Statement Release, and lasts until the publishing of the Interim Reports, Half Year Financial Report, and Financial Statement Release. Exceptions to this rule are the Annual General Meeting (if held during the silent period) and the publishing of a stock exchange release regarding a significant business event and the related communication. During silent periods, Vaisala's spokespersons refrain from discussing and commenting on issues related to the company's financial performance or meeting with capital market representatives.

Comprehensive investor relations pages and investor relations contact information can be found at vaisala.com/investors.

Financial statements and Board of Directors' Report

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160 Auditor's report



OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE FINANCIALS

Key figures



38% Industrial Measurements

62% Weather and Environment 235,5 MEUR



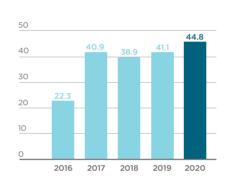
36% Americas 135 MEUR 29% APAC 110 MEUR 35% EMEA 134 MEUR

Americas: North and South America
APAC: Asia Pacific
EMEA: Europe, Middle East and Africa

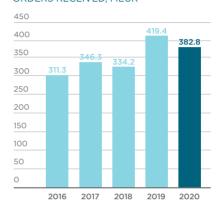
NET SALES, MEUR



OPERATING RESULT (EBIT), MEUR



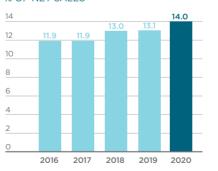
ORDERS RECEIVED. MEUR



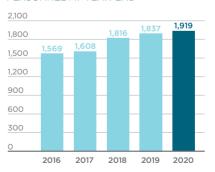
ORDER BOOK, MEUR



RESEARCH & DEVELOPMENT COSTS % OF NET SALES



PERSONNEL AT YEAR-END





Board of Directors' Report 2020

Key figures

Financial key figures

	2020	2019	2018	2017	2016
Net sales, MEUR	379.5	403.6	348.8	332.6	319.1
Exports and international operations, %	97.0	98.0	98.0	97.0	98.0
Gross profit, %	56.1	54.8	53.1	52.3	51.6
Operating result, MEUR	44.8	41.1	38.9	40.9	22.3
% of net sales	11.8	10.2	11.1	12.3	7.0
Result before taxes, MEUR	41.3	40.2	37.5	38.1	22.1
% of net sales	10.9	10.0	10.8	11.5	6.9
Result for the financial year, MEUR	32.8	33.6	29.5	27.2	18.8
% of net sales	8.7	8.3	8.5	8.2	5.9
R&D expenditure, MEUR	53.2	52.8	45.4	39.6	38.0
% of net sales	14.0	13.1	13.0	11.9	11.9
Depreciation, amortization and impairment, MEUR	21.1	23.5	12.1	9.7	24.1

	2020	2019	2018	2017	2016
Cash and cash equivalents, MEUR	45.4	56.4	72.7	91.3	72.4
Equity, MEUR	205.5	198.3	182.9	185.4	178.5
Statement of financial position total, MEUR	351.8	361.5	334.4	273.8	255.0
Return on equity, %	16.3	17.7	16.0	15.0	10.5
Solvency ratio, %	59.0	55.7	55.6	68.9	71.1
Interest-bearing liabilities, MEUR	57.0	51.5	40.5	-	0.0
Gearing, %	5.7	-2.4	-17.6	-49.2	-40.6
Capital expenditure, MEUR	31.0	26.8	14.5	8.5	7.7
% of net sales	8.2	6.6	4.2	2.5	2.4
Cash flow from operating activities, MEUR	41.0	40.8	48.3	49.2	41.8
Orders received, MEUR	382.8	419.4	334.2	346.3	311.3
Order book at the end of financial year, MEUR	137.8	139.0	120.6	124.8	118.0
Personnel expenses, MEUR	154.1	157.7	133.6	129.9	128.4
Average personnel	1,911	1,829	1,678	1,592	1,590
Personnel at the end of financial year	1,919	1,837	1,816	1,608	1,569



OUR YEAR

Key figures

Share key figures

	2020	2019	2018	2017	2016
Earnings per share (EPS), EUR	0.91	0.94	0.82	0.76	0.53
Diluted earnings per share, EUR	0.91	0.93	0.81	0.75	0.52
Cash flow from operating activities per share, EUR	1.14	1.14	1.35	1.38	1.17
Equity per share, EUR	5.70	5.52	5.11	5.20	5.00
Dividend per share, EUR	*0.61	0.61	0.58	1.05	0.50
Dividend per earnings, %	**66.9	65.2	70.7	138.2	95.2
Effective dividend yield, %	**1.51	1.92	3.51	4.72	2.97
Price/earnings (P/E)	44.34	33.78	20.12	29.28	32.10
Series A share price development, EUR					
highest price	42.50	32.80	23.90	24.45	18.48
lowest price	21.65	15.95	15.85	15.94	10.91
volume weighted average price	32.58	23.56	20.14	20.13	14.14
closing price	40.35	31.75	16.50	22.25	16.85

	2020	2019	2018	2017	2016
Market capitalization at the end of financial year***, MEUR	1,452.6	1,139.2	590.5	794.1	601.6
A shares traded					
pieces	3,852,297	3,442,439	3,710,610	4,298,504	4,062,272
% of total series	13.0	11.6	12.5	14.5	13.7
Number of shares, pieces	36,436,728	36,436,728	36,436,728	36,436,728	36,436,728
A shares, pieces	29,705,636	29,685,330	29,658,066	29,658,066	29,658,026
K shares, pieces	6,731,092	6,751,398	6,778,662	6,778,662	6,778,702
Outstanding shares at the end of financial year***, pieces	35,999,689	35,880,739	35,790,092	35,692,000	35,702,974

^{*} Proposal by the Board of Directors

The share issue without payment approved by Vaisala's Annual General Meeting on April 10, 2018 doubled the total number of series K and A shares. All share related figures in this Board of Directors' Report have been adjusted to reflect the increased number of shares.

Trading information is based on Nasdaq Helsinki Ltd. statistics.

^{**} Calculated according to the proposal by the Board of Directors

^{***} Including series A and K shares, excluding treasury shares. Series K shares are valued using the closing price for the series A share on the last trading day of December.



SUSTAINABILITY



Calculation of key figures

Earnings/share, EUR	= Result for the period +/- non-controlling interest Average number of shares outstanding
Cash flow from business operations/share, EUR	= Cash flow from business operations Number of shares outstanding at the end of the period
Equity/share, EUR	= Total equity attributable to owners of parent company Number of shares outstanding at the end of the period
Dividend/share, EUR	= Dividend Number of shares outstanding at the end of the period
Dividend/earnings, %	= Dividend Result for the period +/- non-controlling interest x 100
Effective dividend yield, %	= Dividend / share Closing price for the series A share at the end of the period
Price/earnings (P/E)	= Closing price for the series A share at the end of the period Earnings / share
Market capitalization, MEUR	= Closing price for the series A share x number of shares shares outstanding

Alternative performance measures

Vaisala presents in its financial reporting alternative performance measures, which describe businesses' financial performance and its development as well as investments and return on equity. In addition to accounting measures which are defined or specified in IFRS, alternative performance measures complement and explain presented information. Vaisala presents in its financial reporting the following alternative performance measures:

Net sales with comparable exchange rates	 Net sales converted to euros with exchange rates used during comparison period
Gross margin, %	= Net sales - Cost of sales Net sales - x 100
Operating result	 Result before income taxes, financial income and expenses, and share of result in associated company as presented in Consolidated Statement of Income. Operating result describes profitability and development of business areas' performance.
Result before taxes	= Result before taxes as presented in Consolidated Statement of Income.
Return on equity (ROE), %	= Result for the period
Solvency ratio, %	= Total equity Statement of financial position total - advances received x 100
Investmets	= Gross investments in non-current intangible assets as well as property, plant and equipment
Order book	= Undelivered customer orders at the end of the period
Gearing, %	= Interest-bearing liabilities - cash and cash equivalents x 100 Total equity

Financial review 2020

Orders received and order book

MEUR	2020	2019	Change	FX*
Orders received	382.8	419.4	-9%	-8%
Order book, end of period	137.8	139.0	-1%	

^{*} Change with comparable exchange rates

In 2020, orders received, EUR 382.8 (419.4) million, were impacted by the global economic downturn caused by the COVID-19 pandemic and decreased by 9% compared to strong comparison period. In Weather and Environment business area, orders received decreased due to lack of large project orders. Orders received decreased mainly in aviation segment and somewhat in ground transportation. Majority of the decrease came from Latin America and MEA. Orders received in APAC region decreased as well. Orders received increased in North America and in Europe. Orders received in Industrial Measurements business area increased by 2% as a result of improved demand during the second half and especially the fourth quarter of the year. Orders received increased in Americas and APAC regions and were flat in EMEA. Increase in orders received came from continuous monitoring systems and power industry applications, whereas demand for liquid measurements solutions decreased. Orders received for industrial instruments were at previous year's level.

At the end of December 2020, order book amounted to EUR 137.8 (139.0) million and decreased by 1% compared to previous year. In Weather and Environment business area, order book decreased by 2% mainly as a result of weak orders received in MEA throughout the year as well as reduced scope and value of the Argentina contract. EUR 13 million weather infrastructure project order with the National Meteorology Agency in Ethiopia, announced in October 2019, is not included in order book. Order book for Industrial Measurements business area increased by 7% compared to previous year following strong orders received during the fourth quarter and increase was highest in Americas region. EUR 100.1 (101.4) million of the order book is scheduled to be delivered in 2021.

Financial performance

MEUR	2020	2019	Change	FX**
Net sales	379.5	403.6	-6%	-5%
Products	267.3	278.5	-4%	
Projects	59.3	73.2	-19%	
Services	52.9	51.9	2%	
Gross margin, %	56.1	54.8		
Operating expenses	169.2	177.3	-5%	
R&D expenditure	53.2	52.8	1%	
% of net sales	14.0	13.1		
Amortization*	7.5	9.6		
Operating result	44.8	41.1		
% of net sales	11.8	10.2		

^{*} Amortization of intangible assets related to the acquired businesses

Net sales by region

MEUR	2020	2019	Change
Americas	134.9	149.7	-10%
APAC	110.4	119.6	-8%
EMEA	134.2	134.3	-0%
Total	379.5	403.6	-6%

In 2020, net sales decreased by 6% compared to previous year and were EUR 379.5 (403.6) million. Operations outside Finland accounted for 97 (98) % of net sales. Foreign currency translation impact on

net sales was negative EUR 3.3 million, evenly distributed between business areas. Net sales in Weather and Environment business area decreased by 10% compared to previous year as a result of decrease in both project and product deliveries. Net sales decreased in all other regions than in Europe. Industrial Measurements business area's net sales increased by 1% as a result of increase in APAC region, whereas net sales in EMEA and Americas regions were at previous year's level. Growth in net sales came mainly from continuous monitoring systems and power industry applications, whereas net sales of liquid measurements solutions decreased.

In 2020, gross margin improved to 56.1 (54.8) % as a result of profitability improvement in Weather and Environment business area's digital services and in Industrial Measurements business area's service business. Operating result increased from previous year to EUR 44.8 (41.1) million, 11.8 (10.2) % of net sales. Decrease in net sales decreased operating result, however, improved gross margin partially off-set the impact. Operating expenses decreased compared to previous year due to restrictions imposed by the COVID-19 and savings related to discontinuation of assessment services provided for renewable energy segment. On the other hand, investments to research and development, sales and marketing as well as in process development continued. Amortization of intangible assets, included in operating expenses, decreased by EUR 2.2 million compared to previous year. Other operating income and expenses improved operating result by EUR 1.1 (-2.7) million. This included among others EUR 1.4 million cost related to discontinuation of assessment services provided for renewable energy segment and EUR 2.0 million positive impact mainly as valuation of contingent considerations related to acquired businesses decreased as a result of updated financial plans. Comparison period included among others cost related to Vaisala Digital refocus and reorganization, one-off expense related to a lease contract termination, as well as cost related to termination of a product line.

In 2020, financial income and expenses were EUR -3.6 (-1.1) million. This was mainly a result of valuation of USD denominated receivables and interest expenses. Income taxes were EUR 8.5 (6.6) million and effective tax rate 20.6 (16.3) %. Effective tax rate in 2019 was

^{**} Change with comparable exchange rates



exceptionally low. Result before taxes was EUR 41.3 (40.2) million and result for the period EUR 32.8 (33.6) million. Earnings per share was EUR 0.91 (0.94).

Statement of financial position, cash flow and financing

Vaisala's financial position remained strong in 2020. Cash and cash equivalents decreased to EUR 45.4 (56.4) million at the end of December. Dividend payment amounted to EUR 22.0 (20.8) million. At the end of December, statement of financial position totaled EUR 351.8 (361.5) million.

In 2020, cash flow from operating activities remained at previous year's level totaling to EUR 41.0 (40.8) million.

On December 31, 2020. Vaisala had interest-bearing loans from financial institutions totaling EUR 45.2 (40.2) million, of which EUR 40.0 million related to term loan and FUR 5.0 million related to utilized revolving credit facility. In addition, interest-bearing lease liabilities totaled FUR 11.9 (11.3) million.

Capital expenditure

In 2020, capital expenditure in intangible assets and property, plant and equipment totaled EUR 31.0 (26.8) million. Capital expenditure was mainly related to building projects in Vantaa, Finland and Louisville, Colorado US, as well as to investments in machinery and equipment to develop and maintain Vaisala's production and service operations. Louisville office building was finalized during the third guarter and Vantaa R&D building during the fourth quarter. On December 31, 2020, commitments related to building projects totaled EUR 0.3 (8.8) million.

Depreciation, amortization and impairment were EUR 21.1 (23.5) million. This included EUR 7.5 (9.6) million of amortization of identified intangible assets related to the acquired businesses.

Personnel

The average number of personnel employed in 2020 was 1,911 (1,829). At the end of 2020, the number of employees was 1,919 (1,837), 77 (74) % of employees were located in EMEA, 15 (16) % in Americas and 9 (9) % in APAC. 65 (62) % of employees were based in Finland.

Number of employees by region

Total	1,919	1,837	82
Finland	1,242	1,142	100
EMEA (excluding Finland)	230	224	6
APAC	166	174	-8
Americas	281	297	-16
	Dec 31, 2020	Dec 31, 2019	Change

Number of employees by function

	Dec 31, 2020	Dec 31, 2019	Change
Sales and marketing	467	449	18
R&D	446	407	39
Operations	470	441	29
Services	336	347	-11
Administration	200	193	7
Total	1,919	1,837	82

In addition to sales and marketing, number of employees increased mainly in R&D and operations. About half of the increase in R&D was related to in-sourcing of software development. Major part of the increase in operations related to product launches as well as process and system development. In Americas and APAC regions, number of employees declined mainly due to discontinuation of assessment services provided for renewable energy segment.

In 2020, personnel expenses totaled EUR 154.1 (157.7) million.

Share-based incentive plans

The share issue without payment approved by Vaisala's Annual General Meeting on April 10, 2018 doubled the total number of series K and A shares. All share-related figures have been adjusted to reflect the increased number of shares. Until the end of 2017, the cost of the share part of the share-based payments corresponded to the value of Vaisala's series A share closing price on the grant date of the incentive plan, and the cash-settled part of the share-based payments was valued at the closing price of the share. As of January 1, 2018, the cost of the share part as well as the cash-settled (cash) part of the share-based payments correspond to the value of Vaisala's series A share closing price on the grant date of the incentive plan less expected discounted dividends.

On December 16, 2015, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2016. The reward payment corresponded to 49% of the maximum target. On March 5, 2019, a total of 88,452 company's series A shares were conveyed without consideration to the 30 key employees participating in this incentive plan. The rest of the reward was paid in cash. Closing price of Vaisala's series A share was EUR 11.57 on the grant date of the incentive plan. A total expense of this plan of EUR 2.3 million was recorded for 2016-2019.

On February 10, 2016, the Board of Directors resolved for a sharebased incentive plan, in which the earning criteria was uninterrupted employment of certain group employees for a defined number of years. This share-based incentive plan ended in March 2018, and the remaining reward, corresponding to 3,000 Vaisala's series A shares including the cash portion, was conveyed without consideration to the key employees participating in this incentive plan. A total expense of this plan of EUR 0.3 million was recorded for 2016-2018.

On December 15, 2016, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2017. The reward payment corresponded to 65% of the maximum target. On March 3, 2020, a total of 118,950 company's series A shares were conveyed without consideration to 33 key employees participating in this incentive plan. The rest of the reward was paid in cash. In addition, on June 28, 2019, a total reward of 1,734 Vaisala's series A shares was conveyed without consideration to a key employee who participated in this incentive plan and the other half of the reward was paid in cash. Closing price of Vaisala's series A share was EUR 17.90 on the grant date of the incentive plan. A total expense of this plan of EUR 4.2 million was recorded for 2017-2020.



SUSTAINABILITY



On February 7, 2018, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2018. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2021. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 320,000 series A shares, and the reward payment will correspond to 55% of the maximum target. No reward will be paid if a key employee's employment or service ends before the reward payment date. The expenses of this share-based incentive plan are accrued over the term of the plan from April 2018 to March 2021. Closing price of Vaisala's series A share was EUR 22.10 on the grant date of the incentive plan. On December 31, 2020, this sharebased incentive plan was directed to 27 persons and the maximum reward payable totals to 166,200 Vaisala's series A shares, including the cash portion. On the grant date October 1, 2020, a total of 8,000 series A shares were directed to Kai Öistämö. President and CEO, and the earning criteria for these shares is uninterrupted service until the payment date. On June 28, 2019, a total reward of 461 Vaisala's series A shares was conveyed without consideration to a key employee who participated in this incentive plan and the other half of the reward was paid in cash.

On February 12, 2019, the Board of Directors resolved for approximately 45 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and profitability in 2019-2021. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2022. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 330,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary. The expenses of this share-based incentive plan are accrued over the term of the plan from April 2019 to March 2022. Closing price of Vaisala's series A share was EUR 19.06 on the grant date of the incentive plan. On December 31, 2020, this share-based incentive plan

was directed to 44 persons. On the grant date October 1, 2020, a total of 4,000 series A shares were directed to Kai Öistämö, President and CEO, and the earning criteria for these shares is uninterrupted service until the payment date.

On February 12, 2020, the Board of Directors resolved for approximately 45 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and profitability in 2020-2022. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2023. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 240,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary. The expenses of this share-based incentive plan are accrued over the term of the plan from May 2020 to March 2023. Closing price of Vaisala's series A share was EUR 28.65 on the grant date of the incentive plan. On December 31, 2020, this sharebased incentive plan was directed to 48 persons, including a total of 21.375 series A shares directed to Kai Öistämö. President and CEO. on the grant date October 1, 2020.

On December 17, 2020, the Board of Directors resolved for approximately 40 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and profitability in 2021-2023. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2024. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 180,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary.

Expenses for share-based incentive plans

EUR million	2016	2017	2018	2019	2020
Share-based incentive plans 2016	0.7	1.2	0.6	0.2	
Share-based incentive plan 2017		1.1	1.3	1.5	0.3
Share-based incentive plan 2018			0.6	1.2	1.5
Share-based incentive plan 2019				0.6	1.6
Share-based incentive plan 2020					0.6





2020 review by business area

Weather and Environment business area

MEUR	2020	2019	Change	FX**
Orders received	236.9	276.2	-14%	-14%
Order book, end of period	119.8	122.3	-2%	
Net sales	235.5	261.3	-10%	-9%
Products	137.4	149.0	-8%	
Projects	59.3	73.2	-19%	
Services	38.8	39.1	-1%	
Gross margin, %	51.0	49.9		
Operating expenses	106.3	113.0	-6%	
R&D expenditure	34.1	34.0	0%	
of net sales, %	14.5	13.0		
Amortization*	5.8	6.9		
Operating result	14.6	17.7		
of net sales, %	6.2	6.8		

^{*} Amortization of intangible assets related to the acquired businesses

Weather and Environment business area's 2020 orders received were EUR 236.9 (276.2) million and decreased by 14% compared to strong comparison period and due to lack of large project orders. Orders received decreased mainly in aviation segment and somewhat in ground transportation. Majority of the decrease came from Latin America and MEA. Orders received in APAC region decreased as well. Orders received increased in North America and in Europe.

At the end of December 2020, Weather and Environment business area's order book amounted to EUR 119.8 (122.3) million and decreased by 2% compared to previous year. Order book decreased mainly as a result of weak orders received in MEA throughout the year as well as reduced scope and value of the Argentina contract. On the other hand, order book increased by 19% in Europe and was flat in North America. EUR 13 million weather infrastructure project order with the National Meteorology Agency in Ethiopia, announced in October 2019, is not included in order book. EUR 83.6 (86.6) million of the order book is scheduled to be delivered in 2021.

Weather and Environment business area's 2020 net sales decreased by 10% compared to previous year as a result of decrease in both project and product deliveries and were EUR 235.5 (261.3) million. Net sales decreased in all other regions than in Europe. On-going large projects represented three quarters of business area's project net sales. Gross margin was 51.0 (49.9) %. Profitability improved in digital services.

Weather and Environment business area's 2020 operating result decreased compared to previous year and totaled EUR 14.6 (17.7) million, 6.2 (6.8) % of net sales. Decrease in net sales decreased operating result, however, improved gross margin partially off-set the impact. Operating expenses decreased compared to previous year due to restrictions imposed by the COVID-19 pandemic and savings related to discontinuation of assessment services provided for renewable energy segment. Amortization of intangible assets, included in operating expenses, decreased by EUR 1.0 million compared to previous year and improved operating result. Other operating income and expenses improved operating result. This included among others EUR 1.4 million cost related to discontinuation of assessment services provided for renewable energy segment and EUR 1.9 million positive impact mainly as valuation of contingent considerations related to acquired businesses decreased as a result of updated financial plans.

Industrial Measurements business area

MEUR	2020	2019	Change	FX**
Orders received	146.0	143.2	2%	3%
Order book, end of period	18.0	16.8	7%	
Net sales	143.9	142.3	1%	2%
Products	129.9	129.5	0%	
Services	14.1	12.8	10%	
Gross margin, %	64.4	63.9		
Operating expenses	61.5	63.4	-3%	
R&D expenditure	19.2	18.8	2%	
of net sales, %	13.3	13.2		
Amortization*	1.7	2.8		
Operating result	31.6	26.1		
of net sales, %	21.9	18.4		

^{*} Amortization of intangible assets related to the acquired businesses

Industrial Measurements business area's 2020 orders received increased by 2% compared to previous year as a result of improved demand during the second half and especially the fourth quarter of the year and totaled EUR 146.0 (143.2) million. Orders received increased in Americas and APAC regions and were flat in EMEA region. Increase in orders received came from continuous monitoring systems and power industry applications, whereas demand for liquid measurements solutions decreased. Orders received for industrial instruments were at previous year's level.

^{**} Change with comparable exchange rates

^{**} Change with comparable exchange rates



At the end of December 2020, Industrial Measurements business area's order book amounted to EUR 18.0 (16.8) million and increased by 7% compared to previous year following strong orders received during the fourth quarter and increase was highest in Americas region. EUR 16.6 (14.8) million of the order book is scheduled to be delivered in 2021.

Industrial Measurements business area's 2020 net sales increased by 1% compared to previous year and were EUR 143.9 (142.3) million. Net sales increased in APAC region, whereas net sales in EMEA and Americas regions were at previous year's level. Growth in net sales came mainly from continuous monitoring systems and power industry applications, whereas net sales of liquid measurements solutions decreased. Gross margin was on good level at 64.4 (63.9) %.

Industrial Measurements business area's 2020 operating result improved from previous year and totaled EUR 31.6 (26.1) million, 21.9 (18.4) % of net sales. Net sales growth and gross margin improvement increased operating result. Operating expenses decreased compared to previous year due to restrictions imposed by the COVID-19 pandemic. On the other hand, investments in research and development as well as in sales and marketing continued. Amortization of intangible assets, included in operating expenses, decreased by EUR 1.1 million compared to previous year. Comparison period included EUR 1.5 million one-off expense related to a lease contract termination.

Impact of the COVID-19 pandemic

The global economic downturn caused by the COVID-19 pandemic impacted especially airports customer segment and emerging markets. Weather and Environment business area missed larger project orders. Orders received decreased mainly in aviation segment and somewhat in ground transportation. Orders received decreased the most in Latin America and MEA as well as in APAC. Industrial Measurements business area did not meet growth targets for industrial instruments and liquid measurements products due to volatile market situation. Even though orders received increased in Americas and APAC regions, they did not meet growth targets, and in EMEA orders received remained flat. Vaisala estimates that as a result of weakening demand as well as delays in some project deliveries due to restrictions related

to the COVID-19 pandemic, lost orders received during January-December 2020 was in the range of EUR 30-40 million and lost net sales in the range of EUR 25-35 million. Related negative impact on operating result was offset by improved gross margin and low operating expenses.

Vaisala's production and logistics have been running smoothly as a result of successful mitigation activities. Vaisala has closely cooperated with its strategic suppliers to ensure availability of components. Inventory levels for most critical components were increasing during the first half of the year but were near to normal levels at the end of December 2020. Field service capabilities have been limited due to travel restrictions and lockdowns and thus limited access to customer sites.

Despite the COVID-19 pandemic, Vaisala has uninterruptedly carried on R&D projects as well as core process and system development to ensure progress of strategic projects according to plans.

Vaisala's financial position and cash flow remained strong despite EUR 31 million capital expenditure and EUR 22 million dividend payments in 2020. Gearing was 5.7% at the end of December 2020. No material changes were identified in customers' payment behavior and credit loss allowance remained on previous year's level.

Strategy and its implementation in 2020

In 2020, Vaisala continued to execute strategy for 2019–2023. Fundamentals of profitable growth are reliable products and solutions that are based on leading technologies, perform with superb quality, create value for our customers and optimize total cost of ownership.

Industrial Measurements business area drives profitable growth through product leadership strategy in gas and liquid measurement technologies. In addition to business area's flagship markets, high-end humidity and high-end carbon dioxide, growth is sought from liquid measurements, continuous monitoring systems and power industry applications. Target is to exceed Vaisala's average growth. Objective is to win by most reliable measurements, best customer experience, fast delivery as well as excellent sales and service capabilities.

In 2020, Industrial Measurements business area's flagship markets, high-end humidity and high-end carbon dioxide, as well as liquid measurements were most hit by consequences of the COVID-19

pandemic and customers' delayed decision making. However, demand increased during the second half and especially the fourth quarter of the year gave signs of recovery. Within the growth businesses, annual growth of continuous monitoring systems was good especially in pharmaceutical customer segment. Growth of power industry applications accelerated, which increased business' market share. Demand for liquid measurements solutions declined, and therefore, development of the business was a disappointment. These growth businesses together accounted for one fourth of the business area's net sales.

Industrial Measurements business area launched Indigo520 transmitter for harsh industrial environments. This transmitter allows dual probe installations and enables enhanced data visualization.

Industrial Measurements business area also launched a new high-performance probe HMP1 for humidity and temperature measurements in high-end facilities such as data centers. This probe is compatible with any Vaisala Indigo series transmitters. With the Indigo200 series transmitter it forms a single wall-mounted unit with no probe cable or probe holder. With the robust Indigo520 transmitter it offers flexibility to installations allowing optimal positioning of the probe.

In addition, Industrial Measurement business area introduced Vaisala Jade Smart Cloud, a remote measurement system allowing access to high-quality measurement data anywhere: The data can be viewed on the go; on a mobile device and on a pc or laptop. The Jade Smart Cloud is ideal for any structural moisture or ambient humidity trend measurement need.

Moreover, Industrial Measurement business area introduced a method for detecting power transformer air leaks. This accurate and reliable method, based on measuring total pressure of all dissolved gases in the power transformer insulation oil, will help customers detect and repair any air leaks early. This can extend the lifetime of a transformer and lead to significant cost savings. The new measurement solution will be made available to the current customers via a software release for Vaisala's Optimus™ DGA Monitor OPT100.

Weather and Environment business area's strategic intent is to remain undisputable global leader for weather observations. Business area's strategy has four pillars: offer industry-leading products for weather observations, strive for excellence in large system project deliveries, develop digital solutions for selected weather critical

operations, and expand into environmental measurements with urban air quality as spearhead. Objective is to win by focusing R&D in instrument and weather radar offering renewal, driving growth of wind lidar business, and developing innovative digital solutions targeted to intelligent transportation market.

In 2020, Weather and Environment business area's project deliveries proceeded well despite delays in some project implementations caused by the COVID-19 pandemic. On-going large projects represented three quarters of business area's project net sales. Net sales of wind lidar business fell short of previous year's level, as did the entire Weather and Environment business area. During the second quarter, Vaisala decided to discontinue unprofitable assessment consulting services provided for renewable energy segment. This as well as earlier refocus and reorganization, enabled digital business to improve its profitability significantly, while net sales growth was marginal. Renewable energy segment remains a strategic growth area for Vaisala as it will continue to offer wind lidars and energy forecasting services to the segment to enable optimized operations and development activities.

Weather and Environment business area launched Vaisala Beacon, an easy-to-use compact weather station solution that provides reliable measurements, data collection, connectivity, end-to-end security and data visualization from the cloud in one package. For the first time, businesses have the opportunity to implement out of the box the premier weather intelligence Vaisala is known for, to ensure efficient and safe operations. For meteorologists, the offering amplifies through supplementary measurements their use of existing reference-grade observation networks.

Weather and Environment business area announced an improved version of its turbine nacelle mounted wind lidar, WindCube® Nacelle. It can measure the wind conditions at hub height and has the unprecedented capability to measure up to 700 meters ahead. The WindCube Nacelle's extraordinary measurement range and accuracy provides a complete picture of the wind profile for any turbine rotor size.

Weather and Environment business area launched a completely new product Wx Horizon targeted to support road authorities in their weather critical winter maintenance operations. Wx Horizon combines Vaisala's industry-leading road weather station and mobile sensors with world-class weather and road surface state forecasting capabilities to deliver timely, accurate winter road condition intelligence to arm road

agencies with the road weather data required to keep roads safe.

Weather and Environment business area introduced an upgrade to Vaisala's Global Lightning Dataset GLD360. Vaisala has completely rebuilt the backend processing software to locate lightning strikes with an accuracy of one kilometer compared to 1.5–2.0 kilometers earlier. When considered that GLD360 sensors can detect lightning events over 10,000 kilometers away, it is even more impressive to pinpoint the location within such a small radius.

Vaisala Operations manufactures products for both business areas and develops operational excellence in high mix low volume supply chain through Vaisala Production System. Strategic programs are productivity improvement, early involvement to product creation, as well as scouting and deploying latest smart factory technologies.

In 2020, target set for direct labor productivity improvement was not met due to decline in volumes. Delivery capability was solid through-out the year. Operations participated in multiple product development projects together with business areas in order to ensure good producibility and timely production ramp-up.

Vaisala's process development focused on customer facing processes. Solution creation and renewal of CPQ (Configure Price and Quote) as well as eCommerce progressed well. Renewal of ERP solution was initiated and focused on technology selection.

Long-term financial targets

Vaisala's long-term financial targets are an average annual growth exceeding 5% and operating profit margin (EBIT) exceeding 12%.

Vaisala does not consider the long-term financial targets as market guidance for any given year.

Group structure

Vaisala's headquarters are located in Vantaa, Finland. On December 31, 2020 Vaisala had subsidiaries in Australia, Brazil, Canada, China, Finland, France, Germany, India, Japan, Kenya, Malaysia, Mexico, United Kingdom and United States. The parent company has branches in Argentina and Colombia. Vaisala Digital Oy was merged into Vaisala Corporation on April 1, 2020, and K-Patents Inc. into Vaisala Inc. on November 1, 2020.

Board of Directors

The Annual General Meeting held on June 3, 2020 confirmed that the number of the Board members is eight.

Members of the Board of Directors on December 31, 2020

- · Raimo Voipio, Chairman
- · Ville Voipio, Vice Chairman
- Petri Castrén
- · Antti Jääskeläinen
- Petra Lundström
- Jukka Rinnevaara
- · Kaarina Ståhlberg
- Tuomas Syrjänen

Management Group

On June 3, 2020, Vaisala's Board of Directors appointed Kai Öistämö, b. 1964, as President and CEO. Öistämö started at Vaisala on October 1, 2020. Vaisala's previous President and CEO Kjell Forsén stepped down from his position and retired at the end of 2020.

On December 31, 2020, Vaisala's Management Group members were

- Kai Öistämö, President and CEO, Chairman of the Management Group
- Mari Heusala, EVP, Human Resources
- Sampsa Lahtinen, EVP, Industrial Measurements Business Area
- · Kaarina Muurinen, CFO
- · Vesa Pylvänäinen, EVP, Operations
- · Jarkko Sairanen, EVP, Weather and Environment Business Area
- Katriina Vainio, EVP, Group General Counsel

On January 7, 2021, Olli Nastamo (b. 1956) was appointed Executive Vice President, Operational Excellence. He will be a member of the Vaisala Management Group and report to President and CEO Kai Öistämö. Olli Nastamo will start in his position on March 1, 2021.



Risk management

The objective of Vaisala's risk management is to identify and manage material risks related to strategy implementation and business operations. Vaisala's Risk Management Policy, approved by the Board of Directors, covers the company's strategic, operational, hazard, and financial risks. The policy aims to ensure the safety of the company's personnel, operations, and products as well as the continuity and compliance of business operations.

The Board of Directors defines and approves risk management principles and assesses the effectiveness of risk management. The Audit Committee reviews compliance with Risk Management Policy and processes. Vaisala's Risk Management Steering Group is responsible for the operational oversight of risk management and assures that all significant risks are identified and reported and that risks are acted upon in the appropriate manner.

Risk management is integrated into key business processes and operations by incorporating risk identification, assessment, management, and risk reporting actions into the core processes. The most significant risks are reported to the Vaisala Management Group quarterly and to the Audit Committee annually.

Vaisala is exposed to a number of financial risks in its operations of which key ones are currency risk, interest rate risk, refinancing and liquidity risks as well as financial counterparty risk and trade receivables credit risks. Vaisala's objective is to limit the impact of these risks on statement of income, statement of financial position and cash flow statement. The management of financial risks is based on the treasury and credit policies approved by the Board of Directors.

Currency risk

Currency risk refers to the uncertainty in statement of income, statement of financial position and cash flow statement arising from exchange rate fluctuations. Vaisala's business is global and is exposed to transaction and translation risks in multiple currencies. The transaction risk is related to the currency flows of sales and expenses. The translation risk arises from net investments in entities outside the euro area.

Vaisala's sales are denominated in various currencies. In 2020, 46% of the group's sales was in EUR, 32% in USD, 7% in CNY, 6% in JPY and

4% in GBP. Expenses and purchases occur mostly in EUR and USD. The group's policy is to hedge foreign currency positions which consists of the order book, purchase commitments and net receivables. Vaisala does not hedge forecasted cash flows that are not in the order book. Vaisala does not apply hedge accounting in accordance with IFRS and changes in fair value are recognized in the statement of income.

Intercompany loans and deposits are mainly initiated in subsidiaries' local currencies. Vaisala does not hedge intercompany loans, deposits or equities of subsidiaries. Translation of subsidiaries' equities into euros caused translation difference of EUR -4.0 (0.5) million. The most significant translation risk exposures are in USD.

The IFRS 7 currency risk sensitivity analysis is based on the group companies' foreign currency receivables, cash and cash equivalents and liabilities. The calculation does not include internal loans, order book or forecasted cash flows, but includes foreign exchange forwards in their nominal value. The effect of a 10% appreciation in all open net currency positions on Vaisala's result after taxes and equity would have been EUR -0.1 (-0.5) million. Three largest foreign exchange net exposures in euro and their sensitivity analysis based on a 10% change (before taxes) are presented in the following table:

Foreign exchange net exposures against EUR

	2020		2019
HRK	-3.0	USD	-7.9
USD	-2.7	SEK	-3.5
SEK	-2.3	SGD	-2.3

Interest rate risk

Interest rate risk refers to the uncertainty in statement of income, statement of financial position and cash flow statement arising from interest rate changes. The group is exposed to cash flow interest rate risk, if it has floating rate liabilities. At the end of the financial year 2020 Vaisala's interest-bearing liabilities and loans were at floating rates and totaled to EUR 57.0 (51.5) million. EUR 11.9 (11.3) million of

interest-bearing liabilities and loans related to lease liabilities. As the group has floating rate loans, the group is exposed to interest rate risk arising from changes in interest rates.

Refinancing and liquidity risks

Refinancing and liquidity risk refers to the uncertainty in the ability to maintain liquidity. In order to ensure liquidity, cash and cash equivalents and availability of credit facilities are maintained at a sufficient level.

Vaisala's cash and cash equivalents amounted to EUR 45.4 (56.4) million.

On May 25, 2020, Vaisala signed a EUR 40.0 million unsecured term loan agreement with one of its core banks and on May 29, 2020, the loan was fully utilized. The loan matures in three years from the signing date and has a financial covenant (gearing), which is tested semi-annually. On December 31, 2020, Vaisala was in compliance with the covenant. This facility will be used for refinancing of existing indebtedness as well as for general corporate and working capital purposes. In addition, Vaisala has a EUR 50 million unsecured revolving credit facility which was signed on October 5, 2018. The committed credit facility agreement matures in 5 years from the signing and it has no financial covenants. On December 31, 2020, Vaisala had interest bearing liabilities totaling EUR 57.0 (51.5) million, of which EUR 5 (40) million related to utilized revolving credit facility, which matures within the next 12 months. Group has no loans that would mature after five years or more. In addition, Vaisala has a domestic commercial paper program amounting to EUR 150 million that was not utilized as of December 31 2020

Financial counterparty risk

Financial counterparty risk refers to the uncertainty about the counterparty's ability to assume the obligations related to the financing. Vaisala is exposed to financial counterparty risk in respect of cash and cash equivalents and derivative financial instruments. Vaisala's cash and cash equivalents amounted to EUR 45.4 (56.4) million and the nominal value of derivative financial instruments to EUR 31.4 (33.8) million. Vaisala deposits its assets and concludes derivative financial contracts with counterparties with good creditworthiness and approved by the Board of Directors. The creditworthiness of banks is constantly assessed.



Trade receivables credit risk

Trade receivables credit risk means the customer-related uncertainty about the collectability of receivables. These trade receivables credit risks are managed by using letter of credit, advance payments and bank quarantees as payment terms. Additionally, trade receivables credit risk is managed by utilizing credit risk insurance and by monitoring customer liquidity. Management estimates that the group does not have significant credit risk concentrations because, due to its globally distributed customer base, no single customer or a group of customers constitutes a significant risk. During the financial year, credit losses and related reversals for trade receivables recognized in the statement of income amounted to EUR -0.3 (-0.2) million. Credit loss is recognized once it has been officially declared that the receivable will not be paid as a result of liquidation or bankruptcy.

Further information about risk management is available in the Annual Report's sections Governance/Risk Management and on the company's website at vaisala.com.

Annual General Meeting 2020

Vaisala Corporation's Annual General Meeting was held on June 3. 2020. The meeting approved the financial statements and discharged the members of the Board of Directors and the President and CEO from liability for the financial period January 1-December 31, 2019.

Dividend

The Annual General Meeting decided a dividend of EUR 0.61 per share. The record date for the dividend payment was June 5, 2020, and the payment date was June 12, 2020.

Board of Directors

The Annual General Meeting confirmed that the number of Board members is eight. Petri Castrén. Petra Lundström, Jukka Rinnevaara. Kaarina Ståhlberg, Tuomas Syrjänen, Raimo Voipio and Ville Voipio will continue as members of the Board of Directors. Antti Jääskeläinen was elected as a new member of the Board of Directors.

The Annual General Meeting confirmed that that the annual remuneration payable to the Chairman of the Board of Directors is EUR

45,000 and each Board member EUR 35,000 per year. Approximately 40% of the annual remuneration will be paid in Vaisala Corporation's series A shares acquired from the market and the rest in cash. In addition, the Annual General Meeting confirmed that the meeting fee for the Chairman of the Audit Committee would be EUR 1.500 per attended meeting and EUR 1,000 for each member of the Audit Committee and Chairman and each member of the Remuneration and HR Committee and any other committee established by the Board of Directors for a term until the close of the Annual General Meeting in 2021. The meeting fees are paid in cash. Possible travel expenses are proposed to be reimbursed according to the travel policy of the company.

Auditor

The Annual General Meeting re-elected Deloitte Oy as the auditor of the company and APA Reeta Virolainen will act as the auditor with the principal responsibility. The auditors are reimbursed according to invoice presented to the company.

Authorization for the directed repurchase of own series A shares

The Annual General Meeting authorized the Board of Directors to resolve on the directed repurchase of a maximum of 500,000 of the company's own series A shares in one or more instalments by using company's unrestricted equity. The authorization is valid until the closing of the next Annual General Meeting, however, no longer than December 3 2021

Authorization on the issuance of the company's own series A shares

The Annual General Meeting authorized the Board of Directors to resolve on the issuance of a maximum of 937.039 company's own series A shares. The issuance of own shares may be carried out in deviation from the shareholders' pre-emptive rights (directed issue). The authorization entitles the issuance of treasury series A shares as a directed issue without payment as part of the company's share-based incentive plan. The subscription price of the shares can instead of cash also be paid in full or in part as contribution in kind. The authorization is valid until December 3, 2021. The authorization for the company's incentive program shall however be valid until June 3, 2024.

The organizing meeting of the Board of Directors

At its organizing meeting held after the Annual General Meeting the Board elected Raimo Voipio to continue as the Chairman of the Board of Directors and Ville Voipio as the Vice Chairman.

Kaarina Ståhlberg was elected as the Chairman and Petri Castrén. Antti Jääskeläinen and Ville Voipio as members of the Audit Committee, Ville Voipio was elected as the Chairman and Petra Lundström and Jukka Rinnevaara as members of the Remuneration and HR Committee. The Chairman and all members of the Audit Committee as well as the Remuneration and HR Committee are independent both of the company and of significant shareholders.

Shares and shareholders

Share capital and shares

Vaisala's share capital totaled EUR 7.660.808 on December 31, 2020. Vaisala has 36.436.728 shares, of which 6.731.092 are series K shares and 29,705,636 series A shares. During the third quarter, number of series K shares decreased by 20,306 and number of series A shares increased by 20.306 as the Board of Directors decided that 20.306 series K shares were converted to series A shares. This conversion was registered into the Trade Register on July 31, 2020. The series K shares and series A shares are differentiated by the fact that each series K share entitles its owner to 20 votes at a General Meeting of Shareholders while each series A share entitles its owner to 1 vote. The series A shares represented 81.5% of the total number of shares and 18.1% of the total votes. The series K shares represented 18.5% of the total number of shares and 81.9% of the total votes

Trading and share price development

In 2020, a total of 3,852,297 series A shares with a value totaling EUR 125.6 million were traded on the Nasdag Helsinki Ltd. During the year. the share price increased by 27% while OMXHCAPPI index increased by 10%. The closing price of the series A share on the Nasdaq Helsinki stock exchange was EUR 40.35. Shares registered a high of EUR 42.50 and a low of EUR 21.65. Volume-weighted average share price was EUR 32.58.



The market value of series A shares on December 31, 2020 was EUR 1,181.0 million, excluding company's treasury shares. Valuing the series K shares – which are not traded on the stock market – at the rate of the series A share's closing price on the last trading day of December, the total market value of all the series A and series K shares together was EUR 1,452.6 million, excluding company's treasury shares.

Treasury shares

In March 2020, a total of 118,950 of treasury shares were conveyed without consideration to the 33 key employees participating in the Share-based incentive plan 2017 under the terms and conditions of the plan. This directed share issue was based on an authorization given by the Annual General Meeting held on March 26, 2019.

Following this directed share issue, the number of series A treasury shares on December 31, 2020 was 437,039, which represents 1.5% of series A shares and 1.2% of total shares.

Major shareholders December 31, 2020

	A shares	K shares	Total	% of shares	% of votes
Novametor Oy	2,778,000	998,358	3,776,358	10.36	13.84
Finnish Academy of Science and Letters	322,445	1,757,760	2,080,205	5.71	21.59
Nordea Nordic Small Cap Fund	1,791,351	0	1,791,351	4.92	1.09
Mandatum Life Insurance Company Ltd.	1,197,100	274,800	1,471,900	4.04	4.07
Weisell-säätiö	1,440,000	0	1,440,000	3.95	0.88
Voipio Mikko	666,000	602,312	1,268,312	3.48	7.74
Caspers Anja	406,560	562,936	969,496	2.66	7.10
Voipio Raimo*	514,524	454,296	968,820	2.66	5.84
Ilmarinen Mutual Pension Insurance Company	911,051	0	911,051	2.50	0.55
Voipio Tauno	591,520	315,304	906,824	2.49	4.20
Voipio Lauri	561,692	83,376	645,068	1.77	1.36
Voipio Riitta	561,692	83,376	645,068	1.77	1.36
Voipio Ville	396,493	96,712	493,205	1.35	1.42
Voipio Mari	391,486	96,712	488,198	1.34	1.42
Voipio Timo	391,484	96,712	488,196	1.34	1.42
Total	12,921,398	5,422,654	18,344,052	50.34	73.88
Nominee registered shares**	6,977,269	0	6,977,269	19.15	4.25

^{*} In addition to direct share ownership, Raimo Voipio's controlled organization Imar Oy owned 56,000 series A shares.

^{**} Includes 1,000,000 series A shares owned by Lannebo Fonder, which represented 2.74% of all shares and 0.61% of all votes (according to Lannebo's notification).



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Ownership structure (series A and K shares) December 31, 2020

	Shares	% of shares
Households	14,676,300	40.28
Nominee registered and outside Finland	7,023,294	19.28
Private companies	4,856,066	13.33
Financial and insurance institutions	4,798,783	13.17
Non-profit organizations	3,929,548	10.79
Public sector organizations	1,152,737	3.16
Total	36,436,728	100.00

Ownership distribution (series A and K shares) December 31, 2020

		%		
	Share-	of share-		%
	holders	holders	Shares	of shares
1-100	5,170	48.24	222,753	0.61
101-500	3,541	33.04	963,536	2.64
501-1 000	988	9.22	746,123	2.05
1 001-5 000	784	7.32	1,681,690	4.62
5 001-10 000	91	0.85	638,187	1.75
10 001-50 000	88	0.82	1,778,634	4.88
50 001-100 000	22	0.21	1,447,065	3.97
100 001-500 000	19	0.18	5,173,559	14.20
500 001-	14	0.13	23,785,181	65.28
Total	10,717	100.00	36,436,728	100.00
Nominee registered	10			

Shareholders' agreements

The Board of Directors is not aware of any agreements concerning the ownership of the company's shares and the use of their voting rights.

Shareholding by the Board of Directors and the Management Group

On December 31, 2020, the Board of Directors held and controlled 985.646 (988.083) series A shares. These shares accounted for 3.3 (3.3) % of series A shares and 2.7 (2.7) % of total shares. The number of series K shares held and controlled by the Board was 551,008 (551,008). Total votes attached to the series A and K shares held and controlled by the Board were 12,005,806 (12,008,243), which accounted for 7.3 (7.3) % of the total votes of all shares.

On December 31, 2020, Kai Öistämö, the President and CEO, did not hold nor control any series A or series K shares. Other Management Group members held and controlled 101,778 (82,178) series A shares but none series K shares.

Corporate Governance Statement includes more details on the shareholdings of the Board of Directors and the Management Group.

More information about Vaisala's shares and shareholders are presented on the company's website at vaisala.com/investors.

Donations

Vaisala collaborates with the Colorado State University (CSU) in the US in the field of weather radars, among others. In 2020, Vaisala's Board of Directors renewed the annual donation of 25,000 USD to the university for three years.

Non-financial information

Disclosure of non-financial information in accordance with the Finnish Accounting Act chapter 3 a is presented in the Sustainable business practices section as well as the chapters Business model in Our business section, Dashboard in the Creating value section, and Risk management in the Governance section. The Sustainable business practices section includes information on environmental matters, social and employee matters, respecting human rights, as well as anticorruption and anti-bribery compliance.

Corporate Governance Statement

Corporate Governance Statement will be published as a part of the Annual Report as well as a separate report on the company's website at vaisala.com/investors.

Remuneration Report

Remuneration Report will be published as a separate report on the company's website at vaisala.com/investors.

Near-term risks and uncertainties

COVID-19 pandemic's impact on Vaisala's business is depending on the duration and severity of this exceptional situation. Vaisala's delivery capability may deteriorate due to disruptions in suppliers' operations, absence of own production employees or disruptions in incoming and/ or outgoing logistics. Demand may fluctuate materially by country or customer segment and customers' recovery from the exceptional situation varies a lot. Effects of the pandemic on customers' cash flow can be significant and lead to credit losses. Exceptional situation may also cause delays or interruptions in Vaisala's operations, e.g. in project deliveries and R&D.

Uncertainties in international trade policies or political situation may reduce or delay demand for Vaisala's products and services. Customers' preference for local manufacturing may reduce demand for Vaisala's products and services.

Obstacles related to market acceptance, sales channel development, or regulatory certification of new products and services may postpone realization of Vaisala's growth and profitability targets. Customers' budgetary constraints, complex decision-making processes, changes in scope, and financing arrangements may postpone closing of infrastructure contracts in Weather and Environment business area. Cyber risk and downtime of IT systems may impact operations and delivery of digital solutions.



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Board of Directors' Report





Measures taken to mitigate impacts of the COVID-19 pandemic Employees

Ensuring employees' wellbeing and their health and safety has been the most important focus area during the COVID-19 pandemic. To enforce containment actions and safe work environment for production workers, access to factories has been limited. Remote working practices were introduced in all offices and office environments have been adapted to meet local recommendations and regulations.

Customers

Effective delivery of products and services has been crucial while customer organizations have dealt with staff shortages, closures of offices and factories and health protection measures. Remote customer meetings, electronic signatures, re-routing of shipments, remote acceptance testing and cooperation with local field service companies and their remote support are examples of measures, which have been taken to fulfill customer expectations.

Supplier relationships and cooperation

Vaisala has numerous suppliers, technology providers and outsourcing partners. Strategic suppliers, which are critical to ongoing business operations, have been assessed for their business continuity and information reliability. Purchase orders, delivery schedules and changes in lead times have been assessed to ensure timely receipt of components. Inventory levels for most critical components were increased by two-three months availability.

Communications

Vaisala has communicated regularly with multiple stakeholders: employees, customers, suppliers and authorities. Objective has been to ensure clear and transparent communication how Vaisala manages possible impacts of the COVID-19 pandemic, and to ensure continuity of core operations, including support and services for customers without endangering employees, customers and other stakeholders. Digital marketing efforts have been intensified to compensate for absence of conventional marketing events.

Liquidity

Vaisala's financial position and liquidity have been assessed. New term loan agreement was negotiated in order to provide more flexibility.

Scenario planning

Vaisala has done scenario planning and contingency planning in order to make sound decisions in a highly volatile operating environment. Vaisala has identified risks related to delivery capability and demand outlook as well as diverse challenges emerging in the operating environment. Scenario plans and related assumptions have been continuously updated and followed up.

Further information about risk management and risks are available in Annual Report and on the company's website at vaisala.com/investors.

Market development and business outlook for 2021

COVID-19 pandemic will continue to cause significant uncertainty in 2021. Still, the global economy is expected to continue to recover in 2021.

Market for high-end industrial instruments is expected to recover after weak 2020. Life science and power industry market is expected to continue to grow.

Meteorology market in developing countries is expected to continue to suffer due to lack of funding and delayed decision making while demand in developed countries is expected to remain stable. Aviation market declined significantly in 2020 as a result of the global pandemic, and market outlook remains weak, although some recovery is expected. Ground transportation market is expected to be stable. Renewable energy market is expected to continue to grow.

Vaisala estimates that its full-year 2021 net sales will be in the range of EUR 370-400 million and its operating result (EBIT) will be in the range of EUR 30-45 million.

Board of Directors' proposal for dividend

The parent company's distributable earnings amount to EUR 172,498,369.07, of which the result for the period is EUR 23,477,939.71. The Board of Directors proposes to the Annual General Meeting that

dividend of EUR 0.61 per share be paid out of distributable earnings totaling approximately EUR 22.0 million and the rest to be carried forward in the shareholders' equity. No dividend will be paid for treasury shares held by the company.

There have been no significant changes in the company's financial position since the close of the financial period. According to the Board of Directors, the proposed dividend distribution does not endanger the company's financial standing.

Annual General Meeting 2021

Vaisala Corporation's Annual General Meeting will be held on Tuesday March 30, 2021. The Board of Directors of Vaisala has resolved on exceptional procedure for the meeting based on the temporary legislative act approved by the Finnish Parliament on October 2, 2020. The company has resolved to take actions enabled by the act in order to hold the meeting in a predictable manner, taking into account the health and safety of the company's shareholders, personnel and other stakeholders. Shareholders can follow the meeting via live webcast at Vaisala website vaisala.com/agm.

Vantaa, February 18, 2021

Vaisala Corporation Board of Directors

The forward-looking statements in this Board of Directors' Report are based on the current expectations, known factors, decisions and plans of Vaisala's management. Although the management believes that the expectations reflected in these forward-looking statements are reasonable, there is no assurance that these expectations would prove to be correct. Therefore, the results could differ materially from those implied in the forward-looking statements, due to for example changes in the economic, market and competitive environments, regulatory or other government-related changes, or shifts in exchange rates.

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The audited financial statements comprise the consolidated statement of income, consolidated statement of comprehensive income, consolidated statement of financial position, consolidated cash flow statement, consolidated statement of changes in equity and notes to the consolidated financial statements, as well as the parent company income statement, parent company balance sheet, parent company cash flow statement and notes to the parent company financial statements.



Consolidated financial statements

Consolidated statement of income

		Jan 1-Dec 31,	Jan 1-Dec 31,
EUR million	Note	2020	2019
Net sales	1, 2, 3	379.5	403.6
Cost of goods sold	5, 13, 16	-166.6	-182.4
Gross profit		212.9	221.2
Sales, marketing and administrative costs	5, 7, 16	-116.0	-124.5
Research and development costs	5, 7, 8, 16	-53.2	-52.8
Other operating income and expenses	4	1.1	-2.7
Operating result		44.8	41.1
Share of result in associated company	27	0.2	0.1
Financial income and expenses	9	-3.6	-1.1
Result before taxes		41.3	40.2
Income taxes	10	-8.5	-6.6
Result for the financial year		32.8	33.6
Attributable to			
Owners of the parent company		32.8	33.5
Non-controlling interests		0.0	O.1
Result for the financial year		32.8	33.6
Earnings per share for result attributable to the equity holders of the parent company	11		
Earnings per share, EUR		0.91	0.94
Diluted earnings per share, EUR		0.91	0.93

Consolidated statement of comprehensive income

		Jan 1-Dec 31,	Jan 1-Dec 31,
EUR million	Note	2020	2019
Items that will not be reclassified to profit or loss (net of taxes)			
Actuarial profit (loss) on post-employment benefits	6	0.0	0.2
Total		0.0	0.2
Items that may be reclassified subsequently to profit or loss			
Translation differences		-4.0	0.5
Total		-4.0	0.5
Total other comprehensive income		-4.0	0.7
Comprehensive income for the financial year		28.9	34.3
Attributable to			
Owners of the parent company		28.8	34.2
Non-controlling interests		0.0	0.1
Comprehensive income for the financial year		28.9	34.3

The notes are an essential part of the financial statements.





Consolidated statement of financial position

EUR million	Note	Dec 31, 2020	Dec 31, 2019
Assets			
Non-current assets			
Intangible assets	16	63.6	72.7
Property, plant and equipment	16	83.9	63.4
Right-of-use assets	17	12.5	12.3
Investments in shares		0.1	O.1
Investment in associated company	27	1.1	1.1
Non-current receivables	20	0.9	0.9
Deferred tax assets	10	7.3	9.8
Total non-current assets		169.5	160.3
Current assets			
Inventories	13	44.5	39.6
Trade and other receivables	12	64.0	77.3
Contract assets	3	24.2	25.0
Income tax receivables		4.3	2.8
Cash and cash equivalents	23	45.4	56.4
Total current assets		182.4	201.1
Total assets		351.8	361.5

EUR million	Note	Dec 31, 2020	Dec 31, 2019
Equity and liabilities			
Equity	18		
Share capital		7.7	7.7
Other reserves		5.6	7.0
Translation differences		-2.8	1.3
Treasury shares		-6.3	-7.9
Retained earnings		200.8	190.0
Total equity attributable to owners of parent company		205.1	198.0
Non-controlling interests		0.4	0.3
Total equity		205.5	198.3
Non-current liabilities			
Interest-bearing loans from financial institutions	21	40.0	-
Interest-bearing lease liabilities	17	9.2	8.3
Post-employment benefits	6	2.3	2.4
Deferred tax liabilities	10	7.7	8.1
Provisions	15	0.1	O.1
Other non-current liabilities	21	2.6	4.3
Total non-current liabilities		62.0	23.3



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EUR million	Note	Dec 31, 2020	Dec 31, 2019
Current liabilities			
Interest-bearing loans from financial institutions	21	5.2	40.2
Interest-bearing lease liabilities	17	2.7	3.0
Trade and other payables	14	52.3	64.5
Contract liabilities	3	20.9	27.3
Income tax liabilities		1.5	1.7
Provisions	15	1.7	3.2
Total current liabilities		84.3	139.8
Total liabilities		146.2	163.1
Total equity and liabilities		351.8	361.5

The notes are an essential part of the financial statements.





Consolidated cash flow statement

EUR million	Note	Jan 1-Dec 31, 2020	Jan 1-Dec 31, 2019
Cash flow from operating activities			
Result for the financial period		32.8	33.6
Depreciation, amortization and impairment	16	21.1	23.5
Financial income and expenses	9	3.6	1.1
Gains and losses on sale of intangible assets and property, plant and equipment	4	-O.1	-0.3
Share of result in associated company	27	-0.2	-O.1
Income taxes	10	8.5	6.6
Other adjustments	22	-5.6	1.6
Inventories, increase (-) / decrease (+)	13	-1.8	-7.5
Non-interest bearing receivables, increase (-) / decrease (+)	12	12.6	-7.8
Non-interest bearing liabilities, increase (+) / decrease (-)	14	-18.4	1.5
Changes in working capital		-7.5	-13.9
Financial items paid	9	-3.5	-2.3
Income taxes paid	10	-8.2	-9.0
Cash flow from operating activities		41.0	40.8
Cash flow from investing activities			
Acquisition of subsidiaries, net of cash acquired	25	-0.2	-7.3
Capital expenditure on intangible assets and property, plant and equipment	16	-31.0	-26.8
Proceeds from sale of intangible assets and property, plant and equipment	4	O.1	0.5
Proceeds from sale of shares		0.1	-
Cash flow from investing activities		-31.0	-33.6

EUR million	Note	Jan 1-Dec 31, 2020	Jan 1-Dec 31, 2019
Cash flow from financing activities	Note	2020	2013
Dividends paid	18	-22,0	-20,8
Change in loan receivables		O,1	0,1
Proceeds from borrowings	21	100,1	80,0
Repayment of borrowings	21	-95,0	-80,5
Principal payments of lease liabilities	17	-3,3	-4,1
Cash flow from financing activities		-20,0	-25,4
Change in cash and cash equivalents, increase (+) / decrease		-10,0	-18,1
Cash and cash equivalents at the beginning of the financial year		56,4	72,7
Change in cash and cash equivalents		-10,0	-18,1
Transfer of cash and cash equivalents classified as assets held for sale to continuing operations		-	1,1
Effect from changes in exchange rates		-1,O	0,7
Cash and cash equivalents at the end of the financial year	23	45,4	56,4

The notes are an essential part of the financial statements.





Consolidated statement of changes in equity

							Equity attributable to		
				Translation		Retained	owners of the	Non-controlling	
EUR million	Note	Share capital	Other reserves	differences	Treasury shares	earnings	parent company	interests	Total
Equity at Dec 31, 2018		7.7	6.1	0.8	-9.0	177.3	182.9		182.9
Result for the financial year	18					33.5	33.5	O.1	33.6
Other comprehensive income	18		0.0	0.5		0.2	0.7		0.7
Dividend distribution	18					-20.8	-20.8		-20.8
Share-based payments	7, 18		0.8		1.1		1.9		1.9
Transfer between items	18		0.0			-0.0	0.0		0.0
Changes in non-controlling interests that did not result in changes in control						-0.2	-0.2	0.2	0.0
Equity at Dec 31, 2019		7.7	7.0	1.3	-7.9	190.0	198.0	0.3	198.3
Result for the financial year	18					32.8	32.8	0.0	32.8
Other comprehensive income	18		-0.0	-4.0		0.0	-4.0		-4.0
Dividend distribution	18					-22.0	-22.0		-22.0
Share-based payments	7, 18		-1.4		1.6		0.2		0.2
Transfer between items	18		0.0			-0.0	0.0		0.0
Changes in non-controlling interests that did not result in changes in control						-0.0	-0.0	0.0	0.0
Equity at Dec 31, 2020		7.7	5.6	-2.8	-6.3	200.8	205.1	0.4	205.5



Notes to the consolidated financial statements

Basic information

Vaisala is a global leader in weather, environmental and industrial measurement. With more than 80 years of experience, Vaisala provides a comprehensive range of innovative observation and measurement products and services for chosen weather-related and industrial markets.

The parent company, Vaisala Corporation, is a Finnish public limited company, domiciled in Vantaa, Finland. The registered address is Vanha Nurmijärventie 21, FI-01670 Vantaa, Finland (P.O. Box 26, FI-00421 Helsinki). The company's Business ID is 0124416-2.

These financial statements have been approved for publication by the Board of Directors of Vaisala Corporation on February 18, 2021. Under the Finnish Companies Act, shareholders have the right to approve, reject or make changes to the financial statements in the Annual General Meeting to be held after the publication. A copy of the consolidated financial statements is available on the company's website at vaisala.com/investors or at the parent company head office at the address Vanha Nurmijärventie 21, FI-01670 Vantaa, Finland (P.O. Box 26, FI-00421 Helsinki).

Accounting principles for the consolidated financial statements

The consolidated financial statements of Vaisala have been prepared in accordance with International Financial Reporting Standards (IFRS) approved for adoption by the European Union, including International Accounting Standards (IAS) and the SIC and IFRIC Interpretations valid on December 31, 2020. In the Finnish Accounting Act and ordinances based on the provisions of the Act, IFRS refer to the standards and their interpretations adopted in accordance with the procedures laid down in regulation (EC) No. 1606/2002 of the European Parliament and of the Council. The notes to the consolidated financial statements are also in accordance with the Finnish accounting and corporate law.

The consolidated financial statements are presented in millions of euros, if not otherwise stated. All presented figures have been rounded and consequently the sum of individual figures may deviate from the presented sum. Financial statements are based on original acquisition costs, if not otherwise stated in the accounting principles. In the text sections figures from previous years are presented in parenthesis. Calculation of key figures and alternative performance measures are presented in the Board of Directors' Report.

The reporting of cash flows from operating activities in the consolidated cash flow statement has been changed from the direct method to the indirect method as of January 1, 2020. Indirect method specifies the change in working capital and its impact on cash flows from operating activities. The comparative information has been reported accordingly.

Consolidation principles

The consolidated financial statements include the parent company Vaisala Corporation and those subsidiaries in which the group has control. The group has control of an entity when it is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee. Subsidiaries, acquired or founded during the financial period, are consolidated from the date on which control is transferred to the group and are no longer consolidated from the date that control ceases.

Business combinations are accounted for using the acquisition method. The consideration transferred is the fair value of transferred assets, issued equity interests and liabilities incurred to former owners. Any contingent consideration is recognized at fair value at the acquisition date and classified as a liability or equity. Contingent considerations classified as a liability are measured at fair value on each reporting date with changes recognized in consolidated statement of income. Identifiable assets acquired as well as assumed liabilities and contingent liabilities are measured initially at their fair values on the date of acquisition without deducting non-controlling interest. The amount by which the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition date fair value of any previous equity interest exceeds the fair value of identifiable net assets is recognized as goodwill. If the consideration transferred is lower than the acquired net assets, the gain is recognized in the consolidated statement of income on the acquisition date. All acquisition-related costs, except for the costs to issue debt or equity securities, are expensed in the periods in which the costs are incurred and the services are received.

The non-controlling interests' share of the result and of the comprehensive income for the financial year are presented in the consolidated statement of income and in the consolidated statement of comprehensive income. The non-controlling interests' share of the equity is presented as a separate item in the consolidated statement of financial position.

The group's intercompany transactions, unrealized margins on internal deliveries, receivables and liabilities as well as dividends are eliminated. Unrealized losses on internal transactions are also eliminated unless costs are not recoverable or the loss results from an impairment. The consolidated financial statements are prepared applying consistent accounting principles to similar transactions and other events under equal conditions.

The share of results of associated companies, i.e. companies of which Vaisala owns 20–50% or over which it otherwise has significant influence, are included in the consolidated financial statements applying the equity method. If Vaisala's share of an associated company's losses exceeds the carrying amount of the investment, the investment is recognized in the consolidated statement of financial position at zero value and further losses are not recognized unless the group has incurred obligations on behalf of the associated company. Unrealized gains on transactions between the group and its associated companies have been eliminated to the extent of the group's interest in the associated companies. The group's share of associated companies' results is presented in the consolidated statement of income as a separate item before 'financial income and expenses'. Investments in associated companies are initially recognized at cost and the carrying amount



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is increased or decreased by the share of post-acquisition results. Distribution of profit received from an investment reduces the carrying amount of the results.

Foreign currency translation

Items relating to the consolidated result and financial position are measured using the currency of the primary economic environment in which the entity operates ("the functional currency"). The consolidated financial statements have been presented in euros, which is the parent company's functional and presentation currency.

Transactions in foreign currencies are recorded in the functional currency using the exchange rate on the date of transaction. Receivables and payables in foreign currency have been valued at the rates quoted by European Central Bank on the last trading date of the financial year. Exchange rate differences resulting from the settlement of monetary items or from the presentation of items in the financial statements at different exchange rates from which they were originally recognized during the financial period or presented in the previous financial statements, are recognized as financial income or expenses in the financial period in which they arise.

Statements of financial position of subsidiaries in other functional currency than euro have been translated into euros using the rates quoted by European Central Bank on the last trading date of the financial year. Translating statements of income monthly average exchange rates have been used. Translating net income for the financial year using different exchange rates in the consolidated statements of income and in the consolidated statement of financial position, results in a translation difference, which is recognized in other comprehensive income. Translation differences arising from the elimination of the acquisition cost of foreign subsidiaries and the translation of the accumulated equity items after the acquisition are recognized in other comprehensive income. When a foreign subsidiary or associated company is disposed of or partly disposed of, the translation difference is recognized in the consolidated statement of income as part of the gain or loss on the sale.

Goodwill or fair value adjustments arising from the acquisition of a foreign entity are treated as assets and liabilities in the functional currency of the foreign entity and are translated at the rate of the last trading date of the financial year.

Key exchange rates

	Average rates		Perio	od end rates
	2020	2019	Dec 31, 2020	Dec 31, 2019
USD	1.1384	1.1213	1.2271	1.1234
CNY	7.8807	7.7282	8.0225	7.8205
JPY	121.51	122.29	126.49	121.94
GBP	0.8853	0.8795	0.8990	0.8508

New and amended IFRS standards that are effective for the year 2020

The following new or revised IFRSs have been adopted from January 1, 2020 in these consolidated financial statements. Their adoption has not had any material impact on the disclosures or on the amounts reported in these financial statements.

Amendments to References to the Conceptual Framework in IFRS Standards

The amendments included in Amendments to References to the Conceptual Framework in IFRS Standards include consequential amendments to affected Standards so that they refer to the new Framework. Not all amendments, however, update those pronouncements with regard to references to and quotes from the Framework so that they refer to the revised Conceptual Framework. Some pronouncements are only updated to indicate which version of the Framework they are referencing to (the IASC Framework adopted by the IASB in 2001, the IASB Framework of 2010, or the new revised Framework of 2018) or to indicate that definitions in the Standard have not been updated with the new definitions developed in the revised Conceptual Framework. The Standards which are amended are IFRS 2, IFRS 3, IFRS 6, IFRS 14, IAS 1, IAS 8, IAS 34, IAS 37, IAS 38, IFRIC 12, IFRIC 19, IFRIC 20, IFRIC 22, and SIC-32.

Amendments to IFRS 3 Definition of a business

The amendments clarify that while businesses usually have outputs, outputs are not required for an integrated set of activities and assets to qualify as a business. To be considered a business an acquired set of activities and assets must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create outputs. The amendments remove the assessment of whether market participants are capable of replacing any missing inputs or processes and continuing to produce outputs. The amendments also introduce additional guidance that helps to determine whether a substantive process has been acquired. The amendments introduce an optional concentration test that permits a simplified assessment of whether an acquired set of activities and assets is not a business. Under the optional concentration test, the acquired set of activities and assets is not a business if substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or group of similar assets. The amendments are applied prospectively to all business combinations and asset acquisitions for which the acquisition date is on or after January 1, 2020.

Amendments to IAS 1 and IAS 8 Definition of material

The amendments make the definition of material in IAS 1 easier to understand and are not intended to alter the underlying concept of materiality in IFRS Standards. The prohibition of 'obscuring' material information with immaterial information has been included as part of the new definition. The threshold for materiality influencing users has been changed from 'could influence' to 'could reasonably be expected to influence'. The definition of material in IAS 8 has been replaced by a reference to the definition of material in IAS 1. In addition, the IASB amended other Standards and the Conceptual Framework that contain a definition of 'material' or refer to the term 'material' to ensure consistency.



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The following new and revised IFRSs has had no impact on the disclosures or on the amounts reported in these financial statements.

- COVID-19-related rent concessions amendment to IFRS 16 has had no impact on these financial statements as Vaisala as a lessee has not received any rent concessions occurring as a direct consequence of COVID-19.
- Interest rate benchmark reform amendments to IFRS 9 and IFRS 7 has had no impact on these financial statements as the group does not apply hedge accounting.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

The preparation of financial statements in accordance with IFRS requires management to make estimates and judgment in the application of the accounting policies. The financial statements are based on estimates and assumptions concerning the future, the outcome of which may differ from the estimates and assumptions made. The estimates and judgments made are based on past experience and other factors, such as assumptions about future events that may reasonably be expected to occur in the circumstances. Estimates and assumptions are reviewed on a regular basis.

Estimates and judgment have been used in particular in the following areas for which significant accounting policies and accounting estimates and judgments have been described in the accompanying notes:

- Revenue recognition (note 3) (judgment and estimate)
- Income taxes (note 10) (judgment and estimate)
- Allowances for excess and obsolete inventory (note 13) (estimate)
- Fair value allocation of purchase price in business combinations (notes 16 and 25) (estimate)
- Impairment testing (note 16) (estimate)
- Leases (note 17) (judgment)

In addition, estimates, judgment and assumptions are related to the following areas:

- With regard to pension obligations (note 6) assumptions in actuarial calculations related to e.g. discount interest rate, inflation and development of salary and pension indexes (assumption)
- With regard to share-based payments (note 7) estimate related to e.g. profitability forecasts and attrition of participants benefiting from the share-based payment plans (estimate)
- With regard to warranty provision (note 15) estimate related to future costs (estimate)
- With regard to credit loss allowance for trade receivables and contract assets (note 21) estimate related to expected credit loss risk for different groups of receivables (estimate)

Financial development

1. REPORTABLE SEGMENTS

S Accounting principles

Vaisala has two operating and reportable segments, which are based on the type of business operations: Weather and Environment Business Area and Industrial Measurements Business Area. Operating segments have not been aggregated to build the reportable segments.

Operating segments are based on the management reports reviewed by Vaisala Management Group, which is the chief operating decision-maker of Vaisala. Vaisala Management Group is responsible for allocating resources and assessing performance of the operating segments. Vaisala Management Group assesses the performance of the operating segment based on the operating result. The reporting provided to Vaisala Management Group is prepared in consistency with the principles of IFRS consolidated financial statements. As of the beginning of the financial year 2020 only income and expenses related to discontinued businesses are not allocated to operating segments and are presented in Other operations. Previously no restructuring and M&A activities related costs nor discontinued operations were allocated to operating segments and were presented in Other operations. Transfer pricing between segments is based on arm's length principle.

Weather and Environment Business Area serves selected weather-dependent markets where accurate, real-time, uninterrupted, and reliable weather data is essential to run efficient operations. Main markets are meteorology, ground transportation, aviation, railway, maritime, safety and security, renewable energy, and ambient air quality.

Industrial Measurements Business Area serves a wide range of industrial customers. It offers a broad range of measurement instruments to ensure operational quality and productivity. Main markets are highend humidity and carbon dioxide measurements, life science, and power industry.

Revenue recognition principles are presented in note 3, Revenue from contracts with customers.



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Reportable segments

2020 EUR million	Weather and Environment	Industrial Measurements	Other operations	Vaisala total
Products	137.4	129.9		267.3
Projects	59.3			59.3
Services	38.8	14.1		52.9
Net sales	235.5	143.9		379.5
Performance obligations satisfied at a point in time	154.2	141.2		295.5
Performance obligations satisfied over time	81.3	2.7		84.0
Net sales	235.5	143.9		379.5
Operating result	14.6	31.6	-1.4	44.8
Share of result in associated company				0.2
Financial income and expenses				-3.6
Result before taxes				41.3
Income taxes				-8.5
Result for the financial year				32.8

Reportable segments

2019 EUR million	Weather and Environment	Industrial Measurements	Other	Vaisala total
EUR MIIIION		Measurements	operations	
Products	149.0	129.5		278.5
Projects	73.2			73.2
Services	39.1	12.8		51.9
Net sales	261.3	142.3		403.6
Performance obligations satisfied at a				
point in time	168.6	140.0		308.6
Performance obligations satisfied over				
time	92.7	2.3		95.0
Net sales	261.3	142.3		403.6
Operating result	17.7	26.1	-2.7	41.1
Share of result in associated company				0.1
Financial income and expenses				-1.1
Result before taxes				40.2
Income taxes				-6.6
Result for the financial year				33.6





2. GEOGRAPHICAL SEGMENTS

Vaisala's reportable segments operate in geographical areas which are Americas, APAC and EMEA.¹⁾

Geographical segments

2020 EUR million	Net sales, by destination country ²⁾	Net sales, by location country ³⁾	Non-current assets ³⁾
Americas	134.9	124.3	35.7
of which United States	109.9	117.5	35.4
APAC	110.4	67.1	4.8
EMEA	134.2	324.5	121.7
of which Finland	9.8	258.4	111.1
Eliminations		-136.5	
Total	379.5	379.5	162.2

Geographical segments

2019 EUR million	Net sales, by destination country ²⁾	Net sales, by location country ³⁾	Non-current assets ³⁾
Americas	149.7	137.1	32.1
of which United States	120.1	129.5	31.7
APAC	119.6	63.9	3.5
EMEA	134.3	341.7	115.0
of which Finland	9.8	275.2	104.7
Eliminations		-139.1	
Total	403.6	403.6	150.6

¹⁾ Americas: North and South America, APAC: Asia Pacific, EMEA: Europe, Middle East and Africa

3. REVENUE FROM CONTRACTS WITH CUSTOMERS

S Accounting principles

Vaisala's net sales consist of revenue recognized from contracts with customers. Net sales are divided into products, projects and services. Indirect taxes and discounts have been deducted from sales revenue. Exchange rate differences are recognized in the financial income and expenses.

Product net sales include revenue from products, spare parts and system deliveries. A system delivery contains a standard product delivery with limited amount of configuration. Each distinct product delivery is a performance obligation under IFRS 15. Revenue from the sale of products is recognized at a point in time when the control is transferred to the customer.

Projects are integrated projects, in which observation solutions, consisting of products, services and software, are delivered. Solutions are integrated to customer systems according to customer specifications. Therefore, one project is one performance obligation under IFRS 15. Revenue for all projects is recognized over time using percentage of completion method. Progress is measured by cost-to-cost method, comparing incurred costs and forecasted costs, as it best describes the satisfaction of a performance obligation by transferring the promised asset to a customer. Projects meet the over-time revenue recognition criteria mainly by creating an asset without an alternative use and Vaisala having an enforceable right to payment for performance completed to date.

Services are divided into service contracts and one off service deliverables. Services may include maintenance, calibration and repair, modernization, extended warranties and data based solutions supporting decisions in weather-dependent operations. Service contracts are continuous services including for example extended warranty, availability of customer support and availability of spare part delivery. One service contract or one service deliverable is one performance obligation. Service contracts are recognized over time or at a point of time depending on the nature of the service and content of a contract. In case of one-off request services, the revenue is recognized at a point in time when the service has been rendered.

Standard warranty period for products is one year and 2, 5 or 10 years for selected products. Standard warranty period for services is 6 or 12 months. Extended warranty is a separately sold and priced service over a separately agreed period. Revenue for extended warranty is recognized over time starting at the time of standard warranty expiration. Provision for warranty costs is recognized as described in Note 15, Provisions.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

Revenue recognition over time under IFRS 15 requires management judgment related to cost throughout the project delivery. When the outcome of a project cannot be estimated reliably, project costs are recognized as expenses in the same period when they arise and project revenues only to the extent of project costs incurred where it is probable that those costs will be recoverable. When it is probable that total costs necessary to complete the project will exceed total project revenue, the expected loss is recognized as an expense immediately.

²⁾ Sales to external customers have been presented as net sales by destination country

³⁾ Net sales and non-current assets have been presented according to the group's and associated companies' countries



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Additionally, judgment is exercised in defining the timing of revenue recognition, estimating the probability of payments related to contracts with customers, defining performance obligations and combining contracts. Judgment related to all of these factors may have an impact on timing and/or amount of revenue recognized.

Disaggregation of revenue

Disaggregation of revenue is presented in Note 1, Reportable segments and Note 2, Geographical segments.

Payment terms

Payment terms vary based on geographical areas. In product and service business, the standard payment term is 30 days net, but in some areas prepayments are commonly used. Project invoicing is based on milestones and typically follows the general project delivery terms (where 30% is advance payment, 60% against delivery documents and 10% after site acceptance test) or terms as per contract. In project business the most common payment terms are letter of credit or as per contract.

Vaisala takes advantage of IFRS 15 practical expedient related to the significant financing component. In those cases, in which Vaisala expects, at contract inception, that the period between when Vaisala transfers a promised good or service to a customer and when the customer pays for that good or service will be one year or less, Vaisala does not adjust the promised amount of consideration for the effects of a significant financing component. Additionally, financing component is considered only if significant prepayment is received over one year in advance before related delivery.

Contract balances

The following table provides information about receivables, contract assets and contract liabilities from contracts with customers included in the statement of financial position.

Assets and liabilities related to contracts with customers

EUR million	Dec 31, 2020	Dec 31, 2019
Trade receivables	52.2	65.0
Contract assets	24.2	25.0
Contract liabilities	20.9	27.3

Contract assets include the balance of project and service revenue recognized but not yet invoiced.

In general, most of project revenue is recognized after the product manufacturing as percentage of completion increases and most of the performance obligation is satisfied. According to general project

delivery terms, majority of project is invoiced before the delivery. Therefore, the amount of contract assets is typically at its highest between product manufacturing phase of the project and delivery of the product to the customer. For services, which are satisfied over time, the customer is mainly invoiced in advance and only in some cases in arrears after the customer has received or consumed the service. Arrears invoicing generates contract asset balance as revenue is recognized before invoicing.

Contract liabilities include the balance of projects, services and products invoiced but revenue not yet recognized as well as customer payments related to contracts not yet invoiced. Project-related contract liabilities often arise in the early stages of a project, when the prepayment has been invoiced, but the project is only at an early stage and there is none or little revenue recognized under percentage of completion method. Services, which are recognized over time, are often invoiced in advance and therefore contract liability is generated in the beginning of service period. For products and services, which are recognized at a point in time, contract liability is generated when customer has been invoiced, but performance obligation has not been satisfied and consequently revenue has not been recognized.

In 2020, Vaisala recognized EUR 14 (17) million revenue that was included in the contract liability balance at the beginning of the financial year.

At the end of 2020, the performance obligations that are unsatisfied or partially unsatisfied, that is the order book, amounted to EUR 137.8 (139.0) million. Of the order book EUR 100.1 (101.4) million is estimated to be recognized as revenue in 2021 and EUR 37.6 (37.6) million is estimated to be recognized later.

4. OTHER OPERATING INCOME AND EXPENSES

Other operating income

EUR million	2020	2019
Gain on the disposal of tangible assets	0.1	0.3
Gain on items related to business combinations	2.0	0.1
Income related to termination of a contract	0.2	-
Indemnities	0.0	0.0
Other	0.2	0.5
Total	2.5	0.9



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EUR million	2020	2019
Loss on the disposal of tangible assets	0.0	-
Restructuring expenses	1.4	2.2
Expenses related to termination of a contract	-	1.5
Total	1.4	3.6
Other operating income and expenses, net	1.1	-2.7

5. PERSONNEL EXPENSES AND NUMBER OF PERSONNEL

Personnel expenses

EUR million	2020	2019
Salaries	124.9	126.6
Share-based payments	4.0	3.5
Social costs	11.1	12.2
Pensions		
Defined benefit plans	0.0	0.1
Defined contribution plans	14.1	15.3
Total	154.1	157.7

Personnel expenses by function

Total	154.1	157.7
Research and development	44.1	40.3
Sales, marketing and administration	64.7	69.2
Procurement and production	45.3	48.2
EUR million	2020	2019

Personnel, average by business area

Persons	2020	2019
Weather and Environment	817	797
Industrial Measurements	424	390
Other operations	670	642
Total	1,911	1,829

Personnel, average by geographical area

Persons	2020	2019
Americas	293	321
APAC	172	163
EMEA (excluding Finland)	234	225
Finland	1,212	1,119
Total	1,911	1,829

Information on share-based payments is disclosed in Note 7, Share-based payments.

Information on key management compensation is disclosed in Note 28, Related party transactions.

6. PENSION OBLIGATIONS

S Accounting principles

The group has several pension plans around the world based on local practices. These pension schemes are classified either as defined contribution or as defined benefit plans. In defined contribution plans expenses are recognized in the statement of income on an accrual basis. TyEL pensions managed in insurance companies are defined contribution plans.

In defined benefit pension plans, liability to be recognized is the net amount of the present value of the defined benefit obligation in the end of the financial year and the fair value of the plan assets adjusted by the unamortized portion of unrecognized past service cost. The defined benefit obligation is calculated by actuaries independent of Vaisala and it is based on the projected unit credit method in which the estimated future cash flows are discounted to their present value using the interest rates approximating high quality corporate bonds. Pension costs are recognized in the statement of income on an accrual basis over years of service. Actuarial gains and losses are recognized in statement of comprehensive income.



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Defined benefit plans

The defined benefit plans are in the parent company. The additional pension coverage of parent company personnel was arranged by Vaisala Pension Fund that was closed on January 1, 1983. The pension fund liability was transferred to a pension insurance company on December 31, 2005 and the fund was dissolved in 2006. The company retains, however, an obligation under IAS 19 for future index and salary increases in terms of individuals covered by the Pension Fund who are employed by the company.

Defined benefit pension liability

EUR million	2020	2019
Fair value of funded obligations	4.9	4.9
Fair value of assets	-4.4	-4.3
Net liability in the statement of financial position at Dec 31	0.6	0.6

Amounts recognized in the statement of income and the statement of other comprehensive income

EUR million	2020	2019
Current service cost	0.0	0.0
Interest	0.0	0.0
Expense recognized in the statement of income	0.0	0.0
Net actuarial gain and loss	-0.0	-0.2
Total recognized in the statement of income and the statement of other comprehensive income	-0.0	-0.2

Pension costs in the statement of income have been recognized in sales, marketing and administrative costs.

Present value of obligation

EUR million	2020	2019
Changes in the present value of obligation		
Present value of obligation Jan 1	4.9	5.0
Current service cost	0.0	0.0
Interest cost	0.0	0.1
Remeasurements		
Actuarial gain (-) / loss (+) arising from changes in		
financial assumptions	0.1	0.3
Experience adjustment	0.4	-0.2
Benefits paid	-0.4	-0.3
Present value of obligation Dec 31	4.9	4.9

Changes in the fair value of plan assets

EUR million	2020	2019
Fair value of plan assets Jan 1	4.3	4.3
Interest income on assets	0.0	O.1
Net return on plan assets	0.5	0.4
Benefits paid	-0.4	-0.3
Contributions	-0.0	-O.1
Fair value of plan assets Dec 31	4.4	4.3



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Changes of liabilities presented in the statement of financial position

EUR million	2020	2019
Liabilities Jan 1	0.6	0.7
Expense (+) / income (-) recognized in statement of income	0.0	0.0
Total recognized in other comprehensive income	-0.0	-0.2
Contributions paid	0.0	O.1
Liabilities Dec 31	0.6	0.6

Actuarial assumptions used

	2020	2019
Discount rate, %	0.36	0.58
Rate of salary increase, %	2.01	2.05
Rate of inflation, %	1.05	1.09
Annual adjustments to pensions, %	1.29	1.33

Sensitivity of the net liability changes in the principal assumptions

Assumption	Change in assumption	Increase in assumption	assumption
Discount rate	0.25%	2.48% decrease	2.60% increase
Salary increase rate	0.25%	0.08% increase	0.08% decrease
Pension increase rate	0.25%	23.00% increase	22.43% decrease

Assumption	Increase by one year	Decrease by one year	
Life expectancy at birth	5.25% increase	4.99% decrease	

The sensitivity analyses presented above are based on the assumption that if one assumption changes, all other assumptions remain unchanged. In practice, this is unlikely, and changes in some assumptions may correlate with each other. The sensitivity of defined benefit obligation to changes in significant actuarial assumptions has been calculated using the same method as that used to calculate the pension liability recognized in the statement of financial position.

7. SHARE-BASED PAYMENTS

§ Accounting principles

Group's share-based payments are related to share-based incentive plans. Share-based payments are recognized as costs during the vesting period. The costs are based on an estimate of the amount of shares to be paid at the end of vesting period. Assumptions, on which estimates are based, are updated whenever changes occur and the effect of changes in assumptions are recognized in the statement of income.

As of January 1, 2018, the cost of the share part of the share-based payments as well as the cash part of the share-based payments correspond to the value of share closing price on the grant date of the incentive plan. Until the end of 2017, the cost of the equity-settled part of the share-based payments corresponded to the value of share closing price on the grant date of the share-based incentive plan, and the cash-settled part of the share-based payments was valued at the closing price of the share in the end of the financial year.

Expenses arising from share-based incentive plans

EUR million	2016	2017	2018	2019	2020	Total
Share-based incentive plans 2016	0.7	1.2	0.6	0.2		2.7
Share-based incentive plan 2017		1.1	1.3	1.5	0.3	4.2
Share-based incentive plan 2018			0.6	1.2	1.5	3.3
Share-based incentive plan 2019				0.6	1.6	2.2
Share-based incentive plan 2020					0.6	0.6
Total	0.7	2.3	2.5	3.5	4.0	13.0

Share-based incentive plans

The share issue without payment approved by Vaisala's Annual General Meeting on April 10, 2018 doubled the total number of series K and A shares. All share-related figures have been adjusted to reflect the increased number of shares. Until the end of 2017, the cost of the share part of the share-based payments corresponded to the value of Vaisala's series A share closing price on the grant date of the incentive plan, and the cash-settled part of the share-based payments was valued at the closing price of the share. As of January 1, 2018, the cost of the share part as well as the cash-settled (cash) part of the share-based payments correspond to the value of Vaisala's series A share closing price on the grant date of the incentive plan less expected discounted dividends.

On December 16, 2015, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2016. The reward payment corresponded to 49% of the maximum target. On March 5, 2019, a total of 88,452

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company's series A shares were conveyed without consideration to the 30 key employees participating in this incentive plan. The rest of the reward was paid in cash. Closing price of Vaisala's series A share was EUR 11.57 on the grant date of the incentive plan. A total expense of this plan of EUR 2.3 million was recorded for 2016–2019.

On February 10, 2016, the Board of Directors resolved for a share-based incentive plan, in which the earning criteria was uninterrupted employment of certain group employees for a defined number of years. This share-based incentive plan ended in March 2018, and the remaining reward, corresponding to 3,000 Vaisala's series A shares including the cash portion, was conveyed without consideration to the key employees participating in this incentive plan. A total expense of this plan of EUR 0.3 million was recorded for 2016–2018.

On December 15, 2016, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2017. The reward payment corresponded to 65% of the maximum target. On March 3, 2020, a total of 118,950 company's series A shares were conveyed without consideration to 33 key employees participating in this incentive plan. The rest of the reward was paid in cash. In addition, on June 28, 2019, a total reward of 1,734 Vaisala's series A shares was conveyed without consideration to a key employee who participated in this incentive plan and the other half of the reward was paid in cash. Closing price of Vaisala's series A share was EUR 17.90 on the grant date of the incentive plan. A total expense of this plan of EUR 4.2 million was recorded for 2017–2020.

On February 7, 2018, the Board of Directors resolved for the group key employees a share-based incentive plan that was based on the development of group's profitability in calendar year 2018. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2021. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 320,000 series A shares, and the reward payment will correspond to 55% of the maximum target. No reward will be paid if a key employee's employment or service ends before the reward payment date. The expenses of this share-based incentive plan are accrued over the term of the plan from April 2018 to March 2021. Closing price of Vaisala's series A share was EUR 22.10 on the grant date of the incentive plan. On December 31, 2020, this share-based incentive plan was directed to 27 persons and the maximum reward payable totals to 166,200 Vaisala's series A shares, including the cash portion. On the grant date October 1, 2020, a total of 8,000 series A shares were directed to Kai Öistämö, President and CEO, and the earning criteria for these shares is uninterrupted service until the payment date. On June 28, 2019, a total reward of 461 Vaisala's series A shares was conveyed without consideration to a key employee who participated in this incentive plan and the other half of the reward was paid in cash.

On February 12, 2019, the Board of Directors resolved for approximately 45 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and

profitability in 2019–2021. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2022. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 330,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary. The expenses of this share-based incentive plan are accrued over the term of the plan from April 2019 to March 2022. Closing price of Vaisala's series A share was EUR 19.06 on the grant date of the incentive plan. On December 31, 2020, this share-based incentive plan was directed to 44 persons. On the grant date October 1, 2020, a total of 4,000 series A shares were directed to Kai Öistämö, President and CEO, and the earning criteria for these shares is uninterrupted service until the payment date.

On February 12, 2020, the Board of Directors resolved for approximately 45 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and profitability in 2020–2022. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2023. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 240,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary. The expenses of this share-based incentive plan are accrued over the term of the plan from May 2020 to March 2023. Closing price of Vaisala's series A share was EUR 28.65 on the grant date of the incentive plan. On December 31, 2020, this share-based incentive plan was directed to 48 persons, including a total of 21,375 series A shares directed to Kai Öistämö, President and CEO, on the grant date October 1, 2020.

On December 17, 2020, the Board of Directors resolved for approximately 40 group key employees a share-based incentive plan that is based on the development of the total shareholder return (TSR) and profitability in 2021-2023. The reward will be paid partly in Vaisala's series A shares and partly in cash in spring 2024. The cash proportion will cover taxes and tax-related costs arising from the reward to a key employee. The maximum amount of this plan originally corresponded to 180,000 series A shares. No reward will be paid if a key employee's employment or service ends before the reward payment date. In addition, Vaisala's Board of Directors requires that the President and CEO and each member of the Management Group retains his/her ownership of shares received under this plan until the value of his/her ownership in Vaisala corresponds to at least his/her annual gross base salary.





8. RESEARCH AND DEVELOPMENT EXPENDITURE

S Accounting principles

Research and development expenditure is recognized as costs in the financial year in which they incur, except for machinery and equipment acquired for research and development purposes, which are capitalized and depreciated on a straight-line basis.

According to IAS 38, an intangible asset is recognized in the statement of financial position only when it is probable that the expected future economic benefits will flow to the entity. Vaisala does not capitalize costs related to the development of new products and processes as their future returns will not be realized until the products enter the market. According to IAS 38 no intangible asset arising from research shall be recognized and if an entity cannot distinguish the research phase from the development phase of an internal project, the entity treats the expenditure as if it were incurred in research phase only. It is typical for the industry, in which Vaisala operates, that it is not possible to distinguish the research phase of an internal project that aims to create an asset from its development phase.

The statement of income includes research and development costs of EUR 53.2 (52.8) million in 2020.

9. FINANCIAL INCOME AND EXPENSES

(§) Accounting principles

Exchange rate differences resulting from settlement of monetary items or from presentation of items in the financial statements at different exchange rates from which they were originally recognized during the financial period or presented in the previous financial statements, are recognized as financial income or expenses in the financial period in which they arise.

All derivative financial contracts are initially recognized at cost and subsequently remeasured at their fair value. Derivative financial contracts are valued at their fair value using the market prices of derivative financial contracts at the closing date of the financial year. Unrealized and realized gains and losses arising from changes in the fair value are recognized in the statement of income in 'financial income and expenses" in the period in which they arise.

Interest income and expenses related to financial assets and liabilities at amortized cost are recognized over time. Principles related to interest expenses related to lease liabilities are presented in note 17, Leases.

Financial income

EUR million	2020	2019
Interest and financial income	0.0	0.3
Gains arising from sale of shares	O.1	-
Gains arising from changes in fair values of derivative financial contracts	2.3	1.3
Foreign exchange gains	2.5	3.0
Total	5.0	4.6

Financial expenses

EUR million	2020	2019
Interest expenses	0.6	0.3
Interest expenses on lease liabilities	0.4	0.3
Other financial expenses	0.3	0.3
Losses arising from changes in fair values of derivative financial contracts	1.3	2.5
Foreign exchange losses	5.9	2.3
Total	8.5	5.7
Financial income and expenses, net	-3.6	-1.1

Foreign exchange gains and losses include gains and losses mainly from revaluation of cash and cash equivalents, trade and other receivables, internal loans as well as trade and other payables.

10. INCOME TAXES

S Accounting principles

The group tax expense includes taxes of group companies based on taxable profit for the financial year, tax adjustments for previous years and changes in deferred taxes. Taxes are recognized in the consolidated statement of income except when they are related with items recognized in other comprehensive income or directly in shareholder's equity. Current taxes are calculated on the taxable income based on the tax rates enacted or substantively enacted for each country by the end of the financial year. Taxes are adjusted for the taxes of previous financial periods, if applicable.



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Deferred taxes are calculated for all temporary differences between the carrying amount of an asset or a liability and its tax base, and those are measured with enacted or substantively enacted tax rates by the end of the financial year. Main temporary differences arise from depreciation and amortization, accruals for share-based incentive plans and tax losses carried forward. Other temporary timing differences consist mainly of provisions and accruals of operating expenses. Deferred tax assets are recognized to the extent that it is probable that these can be utilized against future taxable profits.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

Defining income taxes and deferred tax assets and liabilities as well as to what extent deferred tax assets may be recognized require management judgment. Group is subject to income taxation in several countries, in which interpretation of tax legislation may require management judgment and uncertainty may relate to the applied interpretations. Additionally, management assumptions and estimates are needed especially in recognizing deferred tax assets related to tax losses carried forward. Key assumptions relate to the facts that recoverability periods for tax losses carried forward will not change and existing tax laws and rates remain unchanged in the near future. Recognizing deferred tax assets on tax losses carried forward requires also preparing estimates on future taxable income and its timing.

Income taxes

Total	8.5	6.6
Change in deferred tax assets and liabilities	1.9	-1.9
Taxes from previous financial years	-0.9	-0.6
Tax based on taxable income for the financial year	7.5	9.1
EUR million	2020	2019

Reconciliation statement between the statement of income tax item and taxes calculated at the tax rate of the group country of domicile

Effective tax rate	20.6%	16.3%
	0.5	0.0
Total	8.5	6.6
Other	-0.4	0.1
Reassessment of deferred tax assets	0.6	-1.9
Other direct taxes	0.1	0.1
Taxes from previous financial years	-0.9	-0.6
Non-deductible expenses, tax-free revenue and tax incentives	-0.2	0.1
Effect of foreign subsidiaries' tax rates	1.0	0.8
Taxes calculated at the Finnish tax rate	8.3	8.0
Result before taxes	41.4	40.2
EUR million	2020	2019

Vaisala had in total of EUR 8.9 (7.8) million tax losses carried forward for which no deferred tax assets have been recognized as of December 31, 2020. In financial year 2019 deferred tax liabilities in total of EUR 0.8 million was recognized for intangible assets (including technology-based and customer related intangible assets) identified in business combinations.

Deferred taxes in the statement of financial position

EUR million	2020	2019
Deferred tax assets	7.3	9.8
Deferred tax liabilities	-7.7	-8.1
Total	-0.4	1.7

Recognized in



Gross change in deferred taxes recognized in the statement of financial position

EUR million	2020	2019
Deferred taxes Jan 1	1.7	0.4
Items recognized in the statement of income	-1.9	1.9
Effect of business combinations	0.0	-0.8
Translation differences	-0.2	0.0
Items recognized in the equity	0.0	0.2
Items recognized in the statement of comprehensive income	-0.0	0.0
Deferred taxes Dec 31	-0.4	1.7

Changes in deferred taxes during 2020

		Recognized in the		the statement of	
EUR million	Jan 1, 2020	statement of income	Translation differences	comprehensive income	Dec 31, 2020
Deferred tax assets					
Internal margin of inventories, intangible assets and property, plant and equipment	0.8	0.2	0.0		1.0
Employee benefits and share-based payments	2.0	0.0	0.0	-O.O	2.0
Unused tax losses	4.0	-0.8	-0.1		3.1
Timing difference of amortization on intangible assets and depreciation on property,					
plant and equipment	2.3	-0.6			1.7
Other temporary timing differences	3.4	-1.0	-0.2		2.0
Netted against deferred tax liabilities	-2.7	0.2			-2.5
Total	9.8	-2.1	-0.4	-0.0	7.3
Deferred tax liabilities					
Timing difference of amortization on intangible assets and depreciation on property,					
plant and equipment	10.4	-0.4	-0.2		9.8
Other	0.4	0.1	0.0		0.5
Netted against deferred tax assets	-2.7	0.2			-2.6
Total	8.1	-0.1	-0.2		7.7
Deferred taxes, net	1.7	-1.9	-0.2	-0.0	-0.4



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Recognized in



EUR million	Jan 1, 2019	Recognized in the statement of income	Effect of business combinations	Translation differences	Recognized in equity	the statement of comprehensive income	Dec 31, 2019
Deferred tax assets							,
Internal margin of inventories, intangible assets and							
property, plant and equipment	0.7	0.1		0.0			0.8
Employee benefits and share-based payments	1.9	0.2		0.0		0.0	2.0
Unused tax losses	2.8	1.2		0.0			4.0
Timing difference of amortization on intangible assets and depreciation on property, plant and							
equipment	2.8	-0.5					2.3
Other temporary timing differences	3.7	-0.2		0.0			3.4
Netted against deferred tax liabilities	-2.0	-0.7					-2.7
Total	9.8	0.0		0.0		0.0	9.8
Deferred tax liabilities							
Timing difference of amortization on intangible assets and depreciation on property, plant and							
equipment	11.0	-1.3	0.8				10.4
Other	0.5	0.1			-0.2		0.4
Netted against deferred tax assets	-2.0	-0.7					-2.7
Total	9.4	-1.9	0.8		-0.2		8.1
Deferred taxes, net	0.4	1.9	-0.8	0.0	0.2	0.0	1.7





11. EARNINGS PER SHARE

S Accounting principles

Earnings per share is calculated by dividing the result for the period attributable to the parent company's shareholders by weighted average number of issued shares during the financial year. Diluted earnings per share is calculated by adjusting the weighted average number of shares outstanding during the financial year with the diluted effect of potential shares from the share-based payments.

Earnings per share

	2020	2019
Result attributable to the shareholders of the parent company, EUR million	32.8	33.5
Weighted average number of shares outstanding, 1,000 pcs	35,979	35,864
Effect of share-based incentive plans, 1,000 pcs	243	269
Weighted average diluted number of shares, 1,000 pcs	36,223	36,133
Earnings per share, EUR	0.91	0.94
Diluted earnings per share, EUR	0.91	0.93

Net working capital

12. TRADE RECEIVABLES AND OTHER RECEIVABLES

Accounting principles related to trade receivables and other receivables are presented in Note 21, Financial assets and liabilities.

Trade receivables and other receivables

EUR million	2020	2019
Trade receivables	52.2	65.0
Advances paid	0.7	0.9
Value-added tax receivables	3.4	4.1
Other receivables	1.1	0.9
Derivative financial contracts	1.2	0.3
Other prepaid expenses and accrued income	5.4	6.2
Total	64.0	77.3

The fair value of trade and other receivables is, in all material respects, equivalent to their carrying amounts.

Expected credit losses of trade receivables

Dec 31, 2020	Trade receivables, gross amount	Credit loss allowance	Trade receivables, net amount
Current	34.5	0.1	34.3
Due less than 90 days	11.8	0.0	11.7
Due 91-180 days	0.8	0.1	0.7
Due over 180 days	1.0	0.4	0.6
Credit loss allowance other than those based on age analysis	5.9	1.0	4.8
Total	53.9	1.7	52.2



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Expected credit losses of trade receivables

Dec 31, 2019	Trade receivables, gross amount	Credit loss allowance	Trade receivables, net amount
Current	38.4	0.1	38.2
Due less than 90 days	16.4	0.1	16.3
Due 91-180 days	1.3	0.2	1.1
Due over 180 days	1.6	0.7	0.9
Credit loss allowance other than those based on age analysis	9.5	1.0	8.5
Total	67.1	2.0	65.0

Reconciliation of credit loss allowance of trade receivables

EUR million	2020	2019
Opening balance for credit loss allowance on Jan 1	2.0	2.2
Change in credit loss allowance recognized in profit or loss during the financial year	0.2	0.2
Receivables recognized as final credit losses during the financial year due to uncollectability	-0.5	-0.7
Assets held for sale	-	0.3
Exchange rate differences	-O.1	0.0
Total	1.7	2.0

Credit losses and related reversals arising from trade receivables recognized for the financial year amounted to EUR -0.3 (-0.2) million.

Trade receivables by currency

EUR million	2020	2019
EUR	23.5	31.3
USD	17.4	21.3
GBP JPY	2.6	3.7
JPY	4.7	5.1
AUD	0.8	0.8
CNY	1.7	1.3
CAD	1.0	0.8
Others	0.5	0.7
Total	52.2	65.0

13. INVENTORIES

S Accounting principles

Inventories are stated at the lower of standard cost or net realizable value. Inventory cost includes the cost of purchase (including mainly purchase price, import duties and transport), direct labor and a proportion of production overhead. An allowance is recognized for excess inventory and obsolescence.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

Allowance for inventory is recognized for possible excess, obsolescence and decrease in net realizable value below inventory cost. Estimates and judgment are required in determining the value of the allowance for excess and obsolete inventory. Management analyses estimates of demand and determines allowance for excess and obsolete inventory. Possible changes in the assumptions may cause revaluation of inventory valuation in the future periods.



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Inventories

EUR million	2020	2019
Materials, supplies and finished goods	44.5	39.6
Total	44.5	39.6

The cost of inventories recognized in the statement of income as an expense corresponding to net sales was EUR 108.2 (111.6) million.

Write-offs and excess and obsolescence allowances for slow moving and obsolete inventory recognized during the financial year amounted to EUR 1.2 (2.4) million.

14. TRADE PAYABLES AND OTHER LIABILITIES

(§) Accounting principles

Due to the short maturity of trade payables and other liabilities the carrying amount is considered to be the fair value. Trade and other payables are classified as current liabilities if they are due within 12 months from the balance sheet date or are to be settled within the normal operating business cycle. Accounting principles for derivative financial contracts are presented in note 21. Financial assets and liabilities.

Trade payables and other liabilities

EUR million	2020	2019
Trade payables	13.8	18.0
Personnel cost accruals	27.0	32.2
Derivative financial contracts	0.1	0.4
Other accrued expenses and deferred income	5.0	6.6
Other current liabilities	6.4	7.3
Total	52.3	64.5

Trade payables arise from ordinary course of business and they relate to purchases of inventories, intangible and tangible assets and other goods and services. Personnel cost accruals are mainly related to bonuses and unused vacations.

15. PROVISIONS

S Accounting principles

A provision is recognized when group has a legal or constructive obligation as a result of a prior event, it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate of the amount can be made. The amount recognized as a provision is the best estimate of the expenditure required to settle the present obligation at the end of reporting period. If the effect of the time value of money is material, the amount of provision is the present value of the expenditure expected to be required to settle the obligation. The discount factor used in calculating the present value is selected so that it reflects the market view of the time value of money and the risks related to the obligations at the time of examination.

Where some or all of the expenditure required to settle a provision is expected to be reimbursed by a third party, the reimbursement is recognized as a separate asset but only when the reimbursement is virtually certain. The amount of provisions is reviewed at end of each reporting period and the amount is adjusted to reflect the current best estimate. A provision is reversed when the probability of financial settlement has been removed. A change in provision is recognized in the same item of the statement of income in which the provision was originally recognized.

Provisions can relate to restructuring of operations, loss-making contracts, warranties, legal disputes and other commitments.

A restructuring provision is recognized when a detailed and appropriate plan for restructuring has been prepared and the company has started to implement the plan or has announced it to those affected by it. Restructuring provisions include mainly lease termination penalties and redundancy payments.

A provision for a loss-making contract is recognized when unavoidable costs of meeting the obligation exceed the economic benefits expected to be received from the contract.

A warranty provision covers the cost of repairing or replacing the products. The warranty provision is based on past experience and an estimate of future costs.



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Non-current provisions

EUR million	2020	2019
Provisions Jan 1	0.1	0.2
Increase in provisions	0.0	0.0
Tranferred to current provisions	-	-0.0
Exchange rate differences	-	0.0
Provisions Dec 31	0.1	0.1

Current provisions

EUR million	2020	2019
Provisions Jan 1	3.2	3.2
Increase in provisions	O.1	1.3
Transferred from non-current provisions	-	0.0
Used provisions	-1.5	-1.3
Provisions Dec 31	1.7	3.2

In 2020 and 2019 provisions related to warranties, restructuring, loss-making contracts and other contractual commitments.

Intangible and tangible assets

16. INTANGIBLE AND TANGIBLE ASSETS

S Accounting principles

Goodwill

Goodwill represents the excess of the consideration transferred of an acquisition over the fair value of the group's share of the net assets of the acquired entity at the date of acquisition. Goodwill is calculated in the currency of the operating environment of the acquired entity. If the consideration transferred is lower than the net asset value of the acquired entity, the difference is recognized in the statement of income. Goodwill is not amortized but tested annually for possible impairment and whenever there is an indication that the value may be impaired. For this purpose, goodwill has been allocated to cash-generating units. Vaisala's total goodwill is allocated to the cash-generating unit formed by the Weather and Environment Business Area. Goodwill is valued at acquisition cost less impairment losses. Impairment losses are recognized in the statement of income.

Technology-based and customer related intangible assets

Intangible assets identified in connection with acquisitions are measured at the fair value at the acquisition date. In business combinations consideration transferred has been allocated to technology-based and customer related intangible assets. Initial measurement of technology-based and customer related intangible assets has been prepared by applying income and cost approach method. Intangible assets identified in connection with acquisitions are amortized over their delivery times or estimated useful lifetimes.

Other intangible assets

Other intangible assets include mainly patents, trademarks and licenses. Other intangible assets are recognized initially at acquisition cost and amortized using the straight-line method over their useful lifetime. Intangible assets that have an indefinite useful lifetime are not amortized, but are tested annually for impairment. The carrying amount of these intangible assets is not material.

Estimated useful lifetimes for intangible assets are:

Technology-based intangible assets
Customer related intangible assets
Intangible rights
Software licenses
Other intangible assets
7-8 years
3-20 years
3-5 years
3-5 years



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Property, plant and equipment comprise mainly land and buildings as well as machinery and equipment. The carrying amount of assets are based on original acquisition cost less accumulated depreciation as well as possible impairment losses. The cost of self-constructed assets includes materials and direct labor as well as a proportion of overhead costs attributable to construction labor. If a tangible asset consists of several parts which have different useful lifetimes, these parts are treated as separate assets. Accordingly, expenses relating to the renewal of a part are capitalized and the remaining part is recognized as an expense. Otherwise, expenditures that incur later are included in the carrying amount of the tangible assets only if it is probable that the future economic benefit connected with the asset is for the benefit of group and that the acquisition cost can be reliably determined. Other repair and maintenance expenses are recognized in the statement of income when realized.

Depreciation is calculated using the straight-line method and is based on the estimated useful lifetime of the asset. Land is not depreciated. Estimated useful lifetimes for assets are:

Buildings and structures 5-40 years
Machinery and equipment 3-8 years
Other tangible assets 3-8 years

The residual values, depreciation methods and useful lifetimes of the assets are reviewed, and adjusted if necessary, in connection with each financial statement to reflect changes in the expectations of future economic benefit. Gains and losses on disposals are determined by comparing the disposal proceeds with the carrying amount of the asset and are included in the operating result.

Public grants received for investments are recognized as a reduction in the carrying amounts of tangible assets. Thus, grants are recognized in the form of lower depreciation over the useful lifetime of the asset.

Impairment

In the end of each reporting period, the group reviews assets for any indication of impairment. The need for impairment is reviewed at cash-generating unit level, i.e. at the lowest level of units which is mainly independent of other units and whose cash flows are separate and highly independent from the cash flows of other corresponding units. If there is an indication of impairment, the recoverable amount of the asset is assessed. Additionally, the recoverable amount is assessed annually for the following assets irrespective of whether there is indication of impairment: goodwill, intangible assets which have an indefinite useful lifetime, as well as incomplete intangible assets.

The recoverable amount is the higher of the asset's fair value less the cost arising from disposal and its value in use. In determining value in use, the estimated future cash flows are discounted to their present value using discount rates that reflect the average pre-tax cost of capital for the respective country and industry (WACC = weighted average cost of capital). The special risks associated with these assets are also taken into account in the discount rates. For an individual asset that does not independently generate future cash flows, the recoverable amount is determined for the cash-generating unit to which the asset belongs.

An impairment loss is recognized as an expense when the carrying amount of the asset is greater than its recoverable amount. An impairment loss is reversed if there has been a change in the circumstances that led to the estimates and the recoverable amount of the asset has changed since the impairment loss was recognized.

An impairment loss is not reversed more than the carrying amount of the asset (less depreciation) without an impairment loss recognized. Impairment losses recognized for goodwill are not reversed under any circumstances.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

In business combinations, IFRS 3 requires the acquirer to recognize an intangible asset separately from goodwill, if the recognition criteria are met. Recognition of an intangible asset at fair value requires management estimates of future cash flows. To the extent possible, management has used available market values as the basis for allocating costs to determine fair values. When this is not possible, which is typical especially for intangible assets, valuation is mainly based on the expectations on returns of the asset and its intended use in the business. Valuations are based on discounted cash flows and require management's estimates and assumptions about the future use of the assets and their effect on the financial position of the company. Changes in the focus and direction of the company's business operations may, in the future, result in changes in the original valuation. Group tests goodwill annually for impairment and assesses indications of impairment of property, plant and equipment and intangible assets as described above. The recoverable amounts of cash-generating units are determined using value in use calculations. Although management believes that the assumptions used are appropriate, the estimated recoverable amounts might differ materially from those realized in the future.



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Intangible assets

EUR million	Goodwill	Technology-based intangible assets	Customer related intangible assets	Other intangible assets	Advance payments and construction in progress	Total
Acquisition cost Jan 1, 2020	29.8	39.1	14.1	32.9	0.4	116.3
Translation difference	-1.3	0.0		-0.6	0.0	-1.9
Increases				0.2	0.1	0.4
Decreases		-0.0		-0.9		-0.9
Transfers between items				0.1	-0.1	0.0
Acquisition cost Dec 31, 2020	28.5	39.1	14.1	31.7	0.4	113.8
Accumulated amortization and impairment Jan 1, 2020		6.7	6.3	30.5		43.6
Translation difference		0.0		-0.6		-0.6
Accumulated amortization of decreases and transfers		-0.0		-0.9		-0.9
Amortization for the financial year		5.3	1.9	0.9		8.1
Impairment for the financial year				0.0		0.0
Accumulated amortization and impairment Dec 31, 2020		12.1	8.2	30.0		50.2
Carrying amount Dec 31, 2020	28.5	27.0	5.9	1.7	0.4	63.6



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		Technology-based	Customer related		Advance payments and	
EUR million	Goodwill	intangible assets	intangible assets	Other intangible assets	construction in progress	Total
Acquisition cost Jan 1, 2019	25.2	37.3	11.8	33.1	0.4	107.8
Translation difference	0.3	0.0		0.1	0.0	0.4
Increases				0.2	O.1	0.4
Business combinations	4.3	1.8	2.3			8.4
Decreases		-0.0		-0.7		-0.7
Transfers between items				0.1	-O.1	0.0
Acquisition cost Dec 31, 2019	29.8	39.1	14.1	32.9	0.4	116.3
Accumulated amortization and impairment Jan 1, 2019		1.4	2.3	30.0		33.7
Translation difference		0.0		0.1		0.1
Accumulated amortization of decreases and						
transfers		-0.0		-0.7		-0.7
Amortization for the financial year		5.4	4.0	1.1		10.5
Impairment for the financial year				0.0		0.0
Accumulated amortization and impairment Dec 31, 2019		6.7	6.3	30.5		43.6
Carrying amount Dec 31, 2019	29.8	32.4	7.8	2.4	0.4	72.7

Impairment testing

Vaisala assesses the value of goodwill, intangible assets which have an idefinite useful lifetime, as well as incomplete intangible assets for impairment annually and whenever there is an indication that the unit may be impaired. The recoverable amount of the cash-generating unit is based on value in use calculations and cash flows are based on three year forecasts approved by Vaisala management. Vaisala's total goodwill is allocated to the cash-generating unit formed by Weather and Environment Business Area.

In Weather and Environment Business Area cash-generating unit the recoverable amount exceeds the carrying amount by EUR 233 million. Weather and Environment Business Area sales are expected to grow in average 6% next three years. Terminal growth rate is 2% and Weighted Average Cost of Capital is 7.9%. Key assumptions in impairment testing are net sales, profitability and discount rate. Vaisala's management has estimated it to be unlikely that any expected change in key assumptions would lead to carrying amount of the cash-generating unit exceeding the recoverable amount.





Property, plant and equipment

EUR million	Land and waters	Buildings and structures	Machinery and equipment	Other tangible assets	Advance payments and construction in progress	Total
Acquisition cost Jan 1, 2020	4.7	57.5	79.5	0.1	23.7	165.4
Translation difference	-0.2	-0.5	-1.3		-0.5	-2.6
Increases		21.5	4.1		5.0	30.6
Decreases		-0.8	-12.2			-13.1
Transfers between items		15.2	4.9		-20.2	-0.1
Acquisition cost Dec 31, 2020	4.5	92.9	74.9	0.1	8.0	180.4
Accumulated depreciation and impairment Jan 1, 2020		40.8	61.2			102.0
Translation difference		-0.4	-1.2			-1.6
Accumulated depreciation of decreases and transfers		-0.8	-12.2			-13.0
Depreciation for the financial year		3.0	6.0			9.0
Impairment for the financial year		0.1	0.1			0.1
Accumulated depreciation and impairment Dec 31, 2020		42.5	53.9			96.4
Carrying amount Dec 31, 2020	4.5	50.4	21.0	0.1	8.0	83.9

On December 31, 2020, the carrying amount of machinery and equipment used in production was EUR 13.3 (11.9) million.



SUSTAINABILITY



Property, plant and equipment

ELID million		Duildings and structures	Machinewandanaiamant	Othor toppilale accets	Advance payments and	Tatal
EUR million	Land and waters	Buildings and structures	Machinery and equipment	Other tangible assets	construction in progress	Total
Acquisition cost Jan 1, 2019	4.6	56.1	73.3	0.1	7.0	141.2
Translation difference	0.0	0.1	0.4		0.0	0.5
Increases		1.0	5.8		19.3	26.2
Decreases		-0.0	-2.8			-2.8
Transfers between items		0.3	2.8		-2.7	0.4
Acquisition cost Dec 31, 2019	4.7	57.5	79.5	0.1	23.7	165.4
Accumulated depreciation and impairment Jan 1, 2019		38.1	56.8			94.9
Translation difference		0.1	0.3			0.4
Accumulated depreciation of decreases and						
transfers		0.0	-2.2			-2.2
Depreciation for the financial year		2.5	6.0			8.6
Impairments for the financial year		0.0	0.4			0.4
Accumulated depreciation and impairment Dec 31, 2019		40.8	61.2			102.0
Carrying amount Dec 31, 2019	4.7	16.8	18.2	0.1	23.7	63.4



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Depreciation, amortization and impairment by function

EUR million	2020	2019
Procurement and production	3.8	4.0
Sales, marketing and administration	12.4	14.3
Research and development	1.1	1.2
Total	17.3	19.4

Depreciation, amortization and impairment by asset group 2020

EUR million	Depreciation	Impairment	Total
Technology-based intangible assets	5.3		5.3
Customer related intangible assets	1.9		1.9
Other intangible assets	0.9	0.0	0.9
Buildings and structures	3.0	O.1	3.0
Machinery and equipment	6.0	O.1	6.1
Total	17.1	0.2	17.3

Depreciation, amortization and impairment by asset group 2019

EUR million	Depreciation	Impairment	Total
Technology-based intangible assets	1.1	0.0	1.1
Customer related intangible assets	5.4		5.4
Other intangible assets	4.0		4.0
Buildings and structures	2.5	0.0	2.5
Machinery and equipment	6.0	0.4	6.4
Total	19.0	0.4	19.4

17. LEASES

SAccounting principles

Vaisala acts as a lessee and its lease contracts consist mainly of offices, other premises, land area, apartments and cars.

Majority of Vaisala's lease contracts are fixed-term arrangements without one-sided extension or termination options and thus the lease term is defined based on the duration of the contract. If an arrangement includes extension, termination or purchase option management estimates the probable lease term for each arrangement based on an understanding of the business needs.

A contract may include both a lease component and other components (such as a service fee), for which the contract consideration is allocated on the basis of relative separate prices. Other components are excluded from IFRS 16 calculation, except for service fees for car leases, which are included in the lease component.

For leases, right-of-use asset and corresponding lease liability are recognized in the statement of financial position.

The cost of initial measurement of the right-of-use asset comprise the following items:

- the amount of the initial measurement of the lease liability;
- any lease payments made at or before the commencement date, less any lease incentives received (such as rent-free period);
- · any initial direct costs incurred by the lessee; and
- · the potential costs of restoring the underlying asset

Right-of-use assets are tested for impairment as described in Note 16, Intangible and tangible assets. Subsequently right-of-use asset is measured at cost less accumulated depreciation and impairment losses, adjusted for any remeasurement of the lease liability.

The lease liability is initially measured at the present value of the future lease payments discounted by incremental borrowing rate. Incremental borrowing rate is the rate of interest that Vaisala would have to pay to borrow over a similar term, and with a similar security, the funds necessary to obtain an asset of a similar value to the right-of-use asset in a similar economic environment. Subsequently, in valuation of lease liability effective interest rate method is applied, according to which lease liability is recognized at amortized cost and interest expense is accrued over the lease term.



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Lease liabilities include the net fair value of the following items:

- fixed payments (including in-substance fixed payments), less any lease incentives receivable;
- variable lease payments that depend on an index or a rate, initially measured using the index or rate as at the commencement date;
- · amounts expected to be payable by the lessee under residual value guarantees;
- the exercise price of a purchase option if the lessee is reasonably certain to exercise that option; and
- payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminate the lease.

Leases based on extension options that are reasonably certain to be exercised are also included in the liability. Subsequently, the amount of lease liability is affected by, among other things, the interest accrued by the lease liability, the leases paid, the index increases in leases and the effects of changes in contract.

Depreciation and impairments of right-of-use assets, interest on lease liabilities and items arising from contractual changes are recognized in the consolidated statement of income.

Accounting principles requiring management judgment and the main uncertainty factors relating to estimates

The application of IFRS 16 requires management to consider the duration of the lease term if there is an option for extension, termination or purchase. When evaluating the likelihood of the option being exercised and, therefore, the duration of the lease term, management takes into account all known facts and circumstances that create a financial incentive to exercise, or not to exercise, the option on a contractual basis.

Management's estimates of the business needs and hence the likelihood of the exercise of various options are based on known short- and long-term strategies and action plans and on the possible reorganization plans and investment decisions based on them. When evaluating the likelihood of the exercise of options, the decision is also influenced by, among other things, the purpose of the use of the premises and the extent of the investments made.

Amounts recognized in the statement of financial position related to leases

Carrying amounts of right-of-use assets

EUR million	2020	2019
Land and waters	1.3	1.3
Buildings and structures	10.7	10.3
Machinery and equipment	0.6	0.7
Total	12.5	12.3

Additions to the right-of-use assets during the financial year 2020 were EUR 4.4 (4.0) million.

Interest-bearing lease liabilities

EUR million	2020	2019
Non-current	9,2	8,3
Current	2,7	3,0
Total	11,9	11,3

Maturity of lease liabilities is presented in note 21, Financial assets and liabilities. Future cash outflows from leases not yet commenced at the end of the financial year is presented in note 24, Contingent liabilities and pledges given.

Amounts recognized in the statement of income related to leases

Depreciation of right-of-use assets

EUR million	2020	2019
Buildings and structures	2.9	3.7
Machinery and equipment	0.4	0.5
Total	3.3	4.1

Write-downs of right-of-use assets

Total	0.5	-
Buildings and structures	0.5	-
EUR million	2020	2019

Other items recognized in the statement of income

EUR million	2020	2019
Interest expense on lease liabilities	0.4	0.3

The total cash outflow for leases in 2020 was EUR 3.7 (4.4) million.



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Capital structure

18. SHARFHOI DERS' FQUITY

(§) Accounting principles

The group's equity consists of share capital, reserve fund, fund of invested non-restricted equity, translation differences and retained earnings.

Shares issued by the parent company are presented as share capital. Expenses related to the share issues or acquisition of own shares are presented as a reduction of equity. If the company acquires back its own shares, the consideration paid including direct costs is deducted from the equity.

The Board of Directors' proposal for dividend distribution is not recognized in the financial statements. The dividends are recognized only after the Annual General Meetings' approval.

Shares and share capital

On April 24, 2019 Board of Directors of Vaisala Corporation decided to convert 27,264 series K share to series A shares. This conversion was registered into the Trade Register on May 27, 2019. On July 21, 2020 Vaisala Corporation's Board of Directors decided to convert 20,306 K shares to series A shares. This conversion was registered into the Trade Register on July 31, 2020. After this Vaisala Corporation has 36.436.728 shares, of which 6.731.092 are series K shares and 29.705.636 series A shares. The shares do not have nominal value. The series K shares and A shares are differentiated by the fact that each series K share entitles its owner to twenty (20) votes at General Meeting of Shareholders while each series A share entitles its owner to one (1) vote. The shares have the same rights to dividend. Series K shares can be converted to series A shares according to specific rules stated in the Articles of Association.

On December 31, 2020 and 2019, the fully paid and registered share capital of Vaisala Corporation amounted to FUR 7660 80786

Share capital and reserves

	Number of			Treasury	
EUR million	shares 1,000	Share capital	Other reserves	shares	Total
Dec 31, 2018	35,790	7.7	6.1	-9.0	4.8
Share-based payments	91		0.8	1.1	1.9
Transfers between items			0.0		0.0
Translation difference			0.0		0.0
Dec 31, 2019	35,881	7.7	7.0	-7.9	6.8
Share-based payments	119		-1.4	1.6	0.2
Transfers between items			0.0		0.0
Translation differences			-0.0		0.0
Dec 31, 2020	36,000	7.7	5.6	-6.3	7.0
Own shares held by the company	437				
Total	36,437				

Other reserves

Other reserves consist of reserve fund and invested non-restricted equity. Share-based payments are also recognized in other reserves. The reserve fund, EUR 0.5 (0.5) million, includes items based on local rules of subsidiaries. Eligibility of the reserve fund is subject to restrictions based on local regulations. Invested non-restricted equity includes funds transferred from the share premium fund. On December 31, 2020 the amount of other reserves totaled to EUR 0.1 (0.1) million.

Own shares

Own shares (treasury shares) include the acquisition cost of own shares held by the group and are presented as a deduction from retained earnings.



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	Number of shares	Purchase price EUR million
Treasury shares Dec 31, 2018	646,636	9.0
Distribution of treasury shares to key employees	-90,647	-1.1
Treasury shares Dec 31, 2019	555,989	7.9
Distribution of treasury shares to key employees	-118,950	-1.6
Treasury shares Dec 31, 2020	437,039	6.3

On December 31, 2020 the company held 437,039 (555,989) series A shares representing 1.2% (1.5) of the total number of shares and 0.3% (0.3) of the voting rights. The consideration paid for the shares held by the company was EUR 6.3 million.

Treasury shares can be used as consideration in possible acquisitions or in other business related arrangements, to finance investments, as part of the company's incentive program, or be retained, conveyed, or cancelled by the company.

Translation differences

Translation differences include the translation differences arising from the elimination of the acquisition cost of non-euro area group companies and from post-acquisition equity items, and the translation differences arising from translation of profit or loss for the period. The group has not hedged any equity denominated in foreign currency.

The result for the financial year is recognized in retained earnings.

Dividend

For the financial year 2019 a dividend of EUR 0.61 per share was paid, totaling to EUR 22.0 million.

The Board of Directors proposes to the Annual General Meeting to be held on March 30, 2021 that a dividend of EUR 0.61 per share be paid for the financial year 2020, representing a total dividend of approximately EUR 22.0 million. The proposed dividend has not been recognized as a dividend liability in these financial statements.

19. FINANCIAL RISK MANAGEMENT

Vaisala is exposed to a number of financial risks in its operations of which key ones are currency risk, interest rate risk, refinancing and liquidity risks as well as financial counterparty risk and trade receivables credit risks. Vaisala's objective is to limit the impact of these risks on statement of income, statement of financial position and cash flow statement. The management of financial risks is based on the treasury and credit policies approved by the Board of Directors.

Currency risk

Currency risk refers to the uncertainty in statement of income, statement of financial position and cash flow statement arising from exchange rate fluctuations. Vaisala's business is global and is exposed to transaction and translation risks in multiple currencies. The transaction risk is related to the currency flows of sales and expenses. The translation risk arises from net investments in entities outside the euro area.

Vaisala's sales are denominated in various currencies. In 2020, 46% of the group's sales was in EUR, 32% in USD, 7% in CNY, 6% in JPY and 4% in GBP. Expenses and purchases occur mostly in EUR and USD. The group's policy is to hedge foreign currency positions which consists of the order book, purchase commitments and net receivables. Vaisala does not hedge forecasted cash flows that are not in the order book. Vaisala does not apply hedge accounting in accordance with IFRS and changes in fair value are recognized in the statement of income.

Intercompany loans and deposits are mainly initiated in subsidiaries' local currencies. Vaisala does not hedge intercompany loans, deposits or equities of subsidiaries. Translation of subsidiaries' equities into euros caused translation difference of EUR -4.0 (0.5) million. The most significant translation risk exposures are in USD.

The IFRS 7 currency risk sensitivity analysis is based on the group companies' foreign currency receivables, cash and cash equivalents and liabilities. The calculation does not include internal loans, order book or forecasted cash flows, but includes foreign exchange forwards in their nominal value. The effect of a 10% appreciation in all open net currency positions on Vaisala's result after taxes and equity would have been EUR -0.1 (-0.5) million. Three largest foreign exchange net exposures in euro and their sensitivity analysis based on a 10% change (before taxes) are presented in the following table:

Foreign exchange net exposures against EUR

2020				2019	
EUR million	Net position	Sensitivity	EUR million	Net position	Sensitivity
HRK	-3.0	+/- 0.3	USD	-7.9	+/- 0.8
USD	-2.7	+/- 0.2	SEK	-3.5	+/- 0.3
SEK	-2.3	+/- 0.2	SGD	-2.3	+/- 0.2

Interest rate risk

Interest rate risk refers to the uncertainty in statement of income, statement of financial position and cash flow statement arising from interest rate changes. The group is exposed to cash flow interest rate risk, if it has floating rate liabilities. At the end of the financial year 2020 Vaisala's interest-bearing liabilities and loans were at floating rates and totaled to EUR 57.0 (51.5) million. EUR 11.9 (11.3) million of interest-bearing liabilities and loans related to lease liabilities.



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Refinancing and liquidity risks

Refinancing and liquidity risk refers to the uncertainty in the ability to maintain liquidity. In order to ensure liquidity, cash and cash equivalents and availability of credit facilities are maintained at a sufficient level.

Vaisala's cash and cash equivalents amounted to FUR 45.4 (56.4) million.

On May 25, 2020, Vaisala signed a EUR 40.0 million unsecured term loan agreement with one of its core banks and on May 29, 2020, the loan was fully utilized. The loan matures in three years from the signing date and has a financial covenant (gearing), which is tested semi-annually. On December 31, 2020, Vaisala was in compliance with the covenant. This facility will be used for refinancing of existing indebtedness as well as for general corporate and working capital purposes. In addition, Vaisala has a EUR 50 million unsecured revolving credit facility which was signed on October 5, 2018. The committed credit facility agreement matures in 5 years from the signing and it has no financial covenants. On December 31, 2020, Vaisala had interest bearing liabilities totaling EUR 57.0 (51.5) million, of which EUR 5 (40) million related to utilized revolving credit facility, which matures within the next 12 months. Group has no loans that would mature after five years or more. In addition, Vaisala has a domestic commercial paper program amounting to EUR 150 million that was not utilized as of December 31, 2020.

Financial counterparty risk

Financial counterparty risk refers to the uncertainty about the counterparty's ability to assume the obligations related to the financing. Vaisala is exposed to financial counterparty risk in respect of cash and cash equivalents and derivative financial instruments. Vaisala's cash and cash equivalents amounted to EUR 45.4 (56.4) million and the nominal value of derivative financial instruments to EUR 31.4 (33.8) million. Vaisala deposits its assets and concludes derivative financial contracts with counterparties with good creditworthiness and approved by the Board of Directors. The creditworthiness of banks is constantly assessed.

Trade receivables credit risk

Trade receivables credit risk means the customer-related uncertainty about the collectability of receivables. These trade receivables credit risks are managed by using letter of credit, advance payments and bank guarantees as payment terms. Additionally, trade receivables credit risk is managed by utilizing credit risk insurance and by monitoring customer liquidity. Management estimates that the group does not have significant credit risk concentrations because, due to its globally distributed customer base, no single customer or a group of customers constitutes a significant risk. During the financial year, credit losses and related reversals for trade receivables recognized in the statement of income amounted to EUR -0.3 (-0.2) million. Credit loss is recognized once it has been officially declared that the receivable will not be paid as a result of liquidation or bankruptcy.

20. NON-CURRENT RECEIVABLES

	2020 carrying		2019 carrying	
EUR million	amounts	Fair values	amounts	Fair values
Non-current rent deposits	0.7	0.7	0.9	0.9
Other non-current receivables	0.2	0.2	0.0	0.0
Total	0.9	0.9	0.9	0.9

21. FINANCIAL ASSETS AND LIABILITIES

S Accounting principles

Financial assets

Financial assets are classified into following categories: at amortized cost and at fair value through profit and loss. Financial assets are measured on the basis of the entity's business model for managing the financial assets and the contractual cash flow characteristics of the financial assets or by applying fair value option in connection with the original acquisition. All purchases and sales of financial assets are recognized on the clearance date.

Financial assets measured at amortized cost are held to maturity date within a business model to collect contractual cash flows and these cash flows consist solely of payments of principal and interest on the principal amount outstanding. Financial assets measured at amortized cost include mainly trade receivables, prepaid income, accrued income and other receivables.

In initial recognition of financial asset classified as at amortized cost, the asset is measured at fair value including transaction costs that are directly attributable to the acquisition. Due to their nature current trade receivables' and other receivables' carrying amount approximates to its fair value. Interest income related to these financial assets is measured with the effective interest rate method and is included in the financial income. Financial assets are derecognized from the statement of financial position when the contractual rights to the cash flows from the financial asset expire or the entity substantially transfers the risks and rewards outside the group. Profit or loss related to the derecognition of financial assets from the statement of financial position is recognized in the statement of income. Impairment losses are recognized in the statement of income.

Financial assets recognized at fair value through profit and loss are financial assets that are held for trading purposes such as derivative financial instruments for which Vaisala does not apply hedge accounting according to IFRS 9. Realized and unrealized gains and losses arising from changes in fair value are recognized in the statement of income in the period in which they arise. Financial assets held for trading as well as those maturing within 12 months are included in current assets.



Carrying



Impairment of financial assets

Credit loss allowance for trade receivables and contract assets is measured applying simplified approach according to IFRS 9 as no significant financing component is included in those assets. Lifetime expected credit losses are determined based on the provision matrix, utilizing different credit risk across different receivable groups. The groupings are based on aging buckets, geographical regions, existence of collaterals and insolvency proceedings or other evidence of an increased credit risk of the receivables. Expected credit loss risks for different receivable groups are based on historical loss rates and management estimates. Changes in the credit loss allowance based on lifetime expected credit losses as well as final credit losses are recognized in the statement of income.

Cash and cash equivalents are recognized in the statement of financial position at original cost. Cash and cash equivalents consist of cash on bank accounts and bank deposits.

Financial liabilities

Financial liabilities are classified into following categories: at amortized cost and at fair value through profit and loss. Financial liabilities are initially measured at fair value based on the original consideration received. Transaction costs are included in the original carrying amount of the financial liabilities. Subsequently all financial liabilities, except for derivative financial instruments, are measured applying the effective interest method at amortized cost. Financial liabilities are included both in current and non-current liabilities and those may be both interest-bearing and non-interest-bearing. Liabilities maturing in less than 12 months are presented in current liabilities. Financial liabilities are derecognized from statement of financial position when the obligation specified in the contract is discharged, cancelled or expires.

Derivative financial instruments

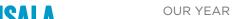
The group's all derivative financial contracts are foreign exchange forward contracts. The group has sales in a number of foreign currencies, of which the most significant are the USD, CNY, JPY and GBP. All derivative financial contracts are classified at fair value through profit and loss and are initially measured at fair value on the closing date of the derivative financial contract. Derivative financial contracts are subsequently measured at fair value through profit and loss at the end of each reporting date. The fair value of a foreign exchange forward contract is measured at the present value of the future cash flows. Unrealized and realized gains and losses arising from changes in the fair value are recognized in the statement of income in financial income and expenses in the period in which they arise. Derivative financial contracts are included in the statement of financial position in other receivables and payables. The group does not apply hedge accounting under IFRS 9 to foreign exchange forward contracts.

The fair value of the derivative financial contracts is based on information that is observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices). In addition to the quoted prices, Vaisala prepares own assessment using commonly acceptable valuation techniques. Hence Vaisala's derivative financial contracts belong to the level 2 in fair value hierarchy. There were no transfers between the hierarchy levels in 2019 or 2020.

The group has a number of investments in foreign subsidiaries whose net assets are exposed to currency risk. The group does not hedge the currency risk related to subsidiaries' net assets.

Classification of financial assets and liabilities as of December 31, 2020

			amount of		
	Fair value	A 11 1	statement		
EUR million	through profit and loss	Amortized cost	of financial position items	Fair value	Note
Financial assets					
Non-current receivables	0.0	0.9	0.9	0.9	20
Trade receivables and other receivables	1.2	62.9	64.0	64.0	12
Cash and cash equivalents		45.4	45.4	45.4	23
Total	1.2	109.0	110.2	110.2	
Financial liabilities					
Interest-bearing non-current loans from financial institutions		40.0	40.0	40.0	21
Interest-bearing non-current lease liabilities		9.2	9.2	9.2	17
Other non-current liabilities	O.1	2.5	2.6	2.6	21
Interest-bearing current loans from financial institutions		5.0	5.0	5.0	21
Interest-bearing current lease liabilities		2.7	2.7	2.7	17
Interest-bearing current liabilities		0.2	0.2	0.2	21
Trade payables and other liabilities	O.1	52.2	52.3	52.3	14
Total	0.2	111.8	112.0	112.0	



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Classification of financial assets and liabilities as of December 31, 2019

			Carrying		
			amount of		
	Fair value		statement		
EUD III	through profit	Amortized	of financial	mata sa ta a	NI-4-
EUR million	and loss	cost	position items	Fair value	Note
Financial assets					
Non-current receivables		0.9	0.9	0.9	20
Trade receivables and other receivables	0.3	65.8	66.1	66.1	12
	0.3	05.8	00.1	00.1	IZ
Cash and cash equivalents		56.4	56.4	56.4	23
Total	0.3	123.0	123.3	123.3	
Financial liabilities					
Interest-bearing non-current loans from		0.7	0.7	0.7	17
financial institutions		8.3	8.3	8.3	17
Other non-current liabilities		4.0	4.0	4.0	21
Interest-bearing current loans from financial					
institutions		40.0	40.0	40.0	21
Interest-bearing current lease liabilities		3.0	3.0	3.0	17
Interest-bearing current liabilities		0.2	0.2	0.2	21
Trade payables and other liabilities	0.4	21.7	22.0	22.0	14
Total	0.4	77.2	77.6	77.6	

On May 25, 2020, Vaisala signed a EUR 40.0 million unsecured term loan agreement with one of its core banks and on May 29, 2020, the loan was fully utilized. The loan matures in three years from the signing date and has a financial covenant (gearing), which is tested semi-annually. On December 31. 2020, Vaisala

was in compliance with the covenant. This facility will be used for refinancing of existing indebtedness as well as for general corporate and working capital purposes. In addition, Vaisala has a EUR 50 million unsecured revolving credit facility which was signed on October 5, 2018. The committed credit facility agreement matures in 5 years from the signing and it has no financial covenants. The facility will be used for working capital needs, for financing of acquisitions and for general corporate purposes.

On December 31, 2020, Vaisala had interest-bearing liabilities totaling EUR 57.0 (51.5) million, of which EUR 5 (40) million related to utilized revolving credit facility, which matures within the next 12 months. Vaisala has no loans that would mature after five years or more.

Maturity and interest rates of interest-bearing liabilities 2020

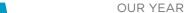
EUR million	2021	2022-2025	2026-2030	2031-2033	Interest rate
Loans from financial institutions		40.0			1.1%
Revolving credit facility	5.0				0.65%
Other interest-bearing loans	0.2				1.0%
Lease liabilities	3.0	5.9	2.7	2.2	0.5-8.69%
	8.2	5.9	2.7	2.2	

Maturity and interest rates of interest-bearing liabilities 2019

EUR million	2020	2021-2024	2025-2029	2030-2033	Interest rate
Revolving credit facility	40.0				0.65%
Other interest-bearing loans	0.2				1.0%
Lease liabilities	3.3	4.9	2.2	2.7	0.5-11.67%
	43.5	4.9	2.2	2.2	

Derivative financial contracts

Nominal value, total	31.4	33.8
Foreign exchange forwards	31.4	33.8
Nominal value of derivative financial contracts made to hedge against exchange rate risk		
EUR million	2020	2019



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Nominal value of derivative financial contracts in currencies

2020	2019
2020	2013

	Currency million	EUR million	Currency million	EUR million
USD	19.0	16.5	23.5	20.7
CNH	40.0	5.0	19.0	2.4
GBP	-	-	1.3	1.5
HRK	22.5	3.0	-	-
JPY	250.0	2.0	350.0	2.9
SEK	33.0	3.1	43.0	4.0
SGD	3.0	1.9	3.5	2.2
Total		31.4		33.8

Maturity of derivative financial contracts

EUR million	2020	2019
Less than 90 days	9.6	8.2
Over 90 days and less than 120 days	2.7	5.3
Over 120 days and less than 180 days	5.8	8.5
Over 180 days and less than 365 days	9.1	11.8
Over 365 days and less than 545 days	4.2	-
Total	31.4	33.8

Fair value of derivative financial contracts made to hedge against exchange rate risk

EUR million	2020	2019
Fair values of derivative financial contracts, assets	1.2	0.3
Fair values of derivative financial contracts, liabilities	0.2	0.4

22. INTEREST-BEARING LIABILITIES AND OTHER ADJUSTMENTS IN CASH FLOW STATEMENT

Reconciliation of movements of interest-bearing liabilities to cash flow arising from financing activities

			Non-cash	
EUR million	Dec 31, 2019	Cash flow effect	changes	Dec 31, 2020
Loans from financial institutions	-	40.0		40.0
Credit facility	40.0	-35.0		5.0
Lease liabilities	11.3	-3.3	3.8	11.9
Other interest-bearing liabilities	0.2			0.2
Exchange rate differences	0.0	0.1		
Total	51.5	1.8	3.8	57.1

Reconciliation of movements of interest-bearing liabilities to cash flow arising from financing activities

			Cash flow	Non-cash	
EUR million	Dec 31, 2018	Jan 1, 2019	effect	changes	Dec 31, 2019
Loans from financial					
institutions	0.2		-0.2		-
Credit facility	40.0		0.0		40.0
Lease liabilities*	-	10.8	-4.1	4.6	11.3
Other interest-bearing					
liabilities	0.2		-0.0		0.2
Exchange rate differences			-O.3		
Total	40.5	10.8	-4.6	4.6	51.5

^{*} As a result of implementation of IFRS 16 Leases, lease liabilities were generated as of January 1, 2019.



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EUR million	2020	2019
Change in bad debt provision	-0.3	-0.2
Change in excess and obsolete provision in inventory	-3.6	O.1
Change in provisions	-1.3	0.0
Adjustment related to share-based incentive plans	0.2	1.9
Other adjustments	-0.7	-O.1
Total	-5.6	1.6

23. CASH AND CASH EQUIVALENTS

Accounting principles related to cash and cash equivalents are presented in Note 21, Financial Assets and Liabilities.

Cash and cash equivalents

EUR million	2020	2019
Cash and cash equivalents	45.4	56.4

The fair values of cash and cash equivalents are equivalent to their carrying amounts.

24. CONTINGENT LIABILITIES AND PLEDGES GIVEN

Contingent liabilities and pledges given

EUR million	2020	2019
Bank guarantees issued for obligations	17.4	16.7

In the end of the financial year 2019, Vaisala was committed to lease contracts for which the lease term had not yet started. Payments related to those contracts were estimated to be EUR 1.8 million. In the end of the financial year 2020, Vaisala did not have such commitments.

Investment commitments

Group had commitments related to Vantaa building project in total of EUR 0.3 million as of December 31, 2020. Group had commitments related to Vantaa and Louisville building projects in total of EUR 8.8 million as of December 31, 2019. In addition, Vaisala had other commitments related to intangible and tangible assets for EUR 4 (2) million.

Purchase commitments

Group had purchase commitments totaling to EUR 12 (15) million. Additionally, group had commitments under the purchase agreements totaling a maximum of EUR 18 (18) million, if realized.

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25. BUSINESS COMBINATIONS

Business combinations in 2020

There were no business combinations during financial year 2020.

Business combinations in 2019

On October 1, 2019 Vaisala acquired all the shares in Vaisala Digital Oy offering business-to-business weather services from Foreca Oy. Foreca's professional business-to-business weather services strengthens the offering and development of the Vaisala Digital product line for highly weather-dependent customers by bringing new expertise to the team, as well as industry leading technology platform for forecasting, modeling and weather impact analysis. Vaisala Digital Oy serves weather-dependent professional customers in transportation, energy, and industry segments.

Vaisala Digital Oy was established on September 1, 2019 as a result of demerger of Foreca Oy. Therefore, no information on net sales for 2018 is available.

Net sales of the acquired company between October 1, 2019 and December 31, 2019 were EUR 0.4 million and operating result EUR 0.0 million. If the acquisition had occurred on January 1, 2019, management estimates consolidated net sales would have been EUR 406 million and operating result EUR 41 million for the financial year 2019.

The consideration transferred was EUR 7 million.

Goodwill was recognized for EUR 3.8 million and allocated to Weather and Environment Business Area cash-generating unit. Goodwill reflects the synergies which Vaisala expects to realize especially from the access gained to automotive market. Vaisala also expects to realize synergies from possibilities to develop new epoch-making solutions by combining Vaisala's competencies together with acquired competencies and expertise.

Acquisition related costs were immaterial.

The amounts of the assets acquired and liabilities assumed recognized and the cash flow from the acquisition were as follows:

EUR thousand	Fair value recognized
Goodwill	3,764
Technology-based intangible assets	1,807
Customer related intangible assets	2,253
Brand	24
Non-current receivables	2
Trade receivables and other receivables	250
Cash and cash equivalents	139
Total assets	8,238
Deferred tax liabilities	817
Current liabilities	421
Total liabilities	1,238
Net assets	7,000
Purchase price paid in cash	-7,000
Cash and cash equivalents acquired	139
Total net cash outflow on acquisition	-6,861

In the financial year 2020 no contingent consideration relating to prior acquisitions was paid. In the financial year 2019 the paid amount totaled to EUR 0.2 million. The remaining contingent consideration liability related to prior acquisitions was EUR 3.3 (4.0) million in the end of financial year 2020 and its range of the outcome was from EUR 1.6 to 3.5 (1.0 to 6.6) million. In the financial year 2020, reversal of contingent consideration liability amounting to EUR 1.8 (0.1) million was recognized as other operating income based on the financial performance after the acquisition and based on the estimated future financial performance.



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Name	Country	Group ownership %, Dec 31, 2020	Group ownership %, Dec 31, 2019
Vaisala Holding Oy	Finland	100	100
Vaisala Limited	United Kingdom	100	100
Vaisala Pty Ltd	Australia	100	100
Vaisala GmbH	Germany	100	100
Vaisala KK	Japan	100	100
Vaisala Inc.	United States	100	100
Vaisala China Ltd	China	100	100
Vaisala Canada Inc	Canada	100	100
Vaisala SAS	France	100	100
Vaisala Sdn Bhd	Malaysia	100	100
Vaisala Servicos De Marketing Ltda	Brazil	100	100
3TIER R&D India Pvt Ltd	India	100	100
Vaisala East Africa Limited	Kenya	100	100
Vaisala Mexico Limited, S. de R.L. de C.V.	Mexico	100	100
Leosphere SAS	France	92.22	92.53
Upwind SAS	France	100	100
SCI Septentrion	France	100	100
K-Patents Inc.	United States	-	100
K-Patents (Shanghai) Co.,Ltd.	China	100	100
Vaisala Shanghai Sensors Ltd	China	100	100
Vaisala Digital Oy	Finland	-	100

On April 1, 2020 Vaisala Digital Oy was merged into Vaisala Corporation. On November 1, 2020 K-Patents Inc. was merged into Vaisala Inc.

On August 31, 2019 K-Patents Oy and Janesko Oy were merged into Vaisala Corporation. On October 1, 2019 Vaisala Corporation acquired all the shares in Vaisala Digital Oy.

27. ASSOCIATED COMPANY

Accounting principles related to associated companies are presented in Consolidation principles.

The group has one associated company, SAS Meteorage. SAS Meteorage is a French company, which maintains lightning detection networks and sells information related to lightning strikes. Ownership in Meteorage supports Vaisala's role in the global lightning detection community.

SAS Meteorage	France	35%	Equity method
Company name	principal place of business	Share of ownership	Measurement method
	Place of incorporation and		

Summarized financial information of the associated company

EUR million	2020	2019
Non-current assets	3.3	2.3
Current assets	3.4	3.3
Liabilities	3.4	2.6
Net assets	3.2	3.0
Vaisala's share of net assets	1.1	1.1
Net sales	4.0	3.9
Result for the financial year	0.5	0.4

The information presented in the table is based on the latest available financial information.



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Carrying amount of investments in associated company

EUR million	2020	2019
Carrying amount at Jan 1	1.1	1.0
Share of result	0.2	O.1
Dividend received	-O.1	-O.1
Exchange rate differences	0.0	0.0
Carrying amount at Dec 31	1.1	1.1

The carrying value of the associated company does not include goodwill.

Transactions with associated company and receivables and liabilities

EUR million	2020	2019
Sales	0.3	0.6
Receivables	0.1	O.1

Other notes

28. RELATED PARTY TRANSACTIONS

Related parties of Vaisala group are the parent company, subsidiaries, associated company, members of Board of Directors and Vaisala Management Group, Related party transactions are based on market prices of goods and services and on common market terms. Only transactions that are not eliminated in the consolidated financial statements are disclosed as related party information.

The subsidiaries are presented in note 26, Subsidiaries and the associated company in note 27, Associated company. Transactions with the associated company as well as receivables and liabilities are presented in note 27, Associated company.

Kjell Forsén served as the President and CEO until September 30, 2020 and Kai Öistämö assumed the position on October 1, 2020.

Employee benefits of management

EUR thousand	2020	2019
Salary and bonuses of the President and CEO (payment basis)		
Öistämö Kai (Oct 1 - Dec 31, 2020)		
Salary	114	-
Short term incentives	-	-
Share-based payment	-	-
Statutory pension	17	-
Supplementary pension	29	-
Total	159	-
Forsén Kjell (Jan 1 - Sep 30, 2020)		
Salary	394	515
Short term incentives	363	263
Share-based payment	1,221	514
Statutory pension	121	135
Supplementary pension	90	120
Total	2,189	1,547



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EUR thousand	2020	2019
Remuneration of the members of Vaisala Management Group (excl. the President and CEO) (payment basis)		
Salaries	1,424	1,492
Short term incentives	805	478
Share-based payment	2,606	1,061
Statutory pension	351	342
Supplementary pension	245	242
Total	5,430	3,616

In addition Kjell Forsén's compensation for October 1 - December 31, 2020 was EUR 143 thousand and EUR 30 thousand supplementary pension. In 2021 Kjell Forsén will be paid short term incentive for 2020 which is 35% of his annual salary and share-based payment for LTI 2018 of 27,700 shares gross, for LTI 2019-2021 of 23,040 shares gross and for LTI 2020-2022 5,529 shares gross.

The President and CEO Kai Öistämö is entitled to participate in a supplementary defined contribution pension plan with an annual fee corresponding to three month's base salary. The President and CEO's retirement age is 62 years. The notice period for both parties is six months. If the company terminates the agreement, there is an additional severance pay equaling six times the monthly salary.

Compensation.

Remuneration of the Board of Directors 2020 (payment basis)

			Compensation,	Remuneration and Human Resources	Compensation,	
EUR thousand		Annual remuneration	Audit Committee	Committee	Nomination Committee	Total
Castrén Petri	Member of the Board	35	6	1		42
Jääskeläinen Antti	Member of the Board (since June 3, 2020)	35	3			38
Lundström Petra	Member of the Board	35		6		41
Rinnevaara Jukka	Member of the Board	35	3	5	10	53
Ståhlberg Kaarina	Member of the Board	35	8		10	53
Syrjänen Tuomas	Member of the Board	35				35
Torstila Pertti	Member of the Board (until June 3, 2020)	-				-
Voipio Raimo	Chairman of the Board	45			10	55
Voipio Ville	Vice Chairman of the Board	35	6	6	10	57
Total		290	26	18	40	374





Remuneration of the Board of Directors 2019 (payment basis)

EUR thousand		Annual remuneration	Compensation, Audit Committee	Compensation, Remuneration and Human Resources Committee	Total
Castrén Petri	Member of the Board	35	4	5	44
Lundström Petra	Member of the Board	35		4	39
Niinivaara Mikko	Member of the Board (until March 26, 2019)		1	1	2
Rinnevaara Jukka	Member of the Board (since March 26, 2019)	35	2		37
Ståhlberg Kaarina	Member of the Board	35	6		41
Syrjänen Tuomas	Member of the Board (since March 26, 2019)	35			35
Torstila Pertti	Member of the Board	35			35
Voipio Raimo	Chairman of the Board	45		1	46
Voipio Ville	Vice Chairman of the Board (since March 26, 2019)	35	3	4	42
Total		290	16	15	321

To the President and CEO and the members of the Board have not been granted loans nor have guarantees or commitments been given on their behalf.



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29. AUDITOR'S FEES

Authorized Public Accountants Deloitte

EUR million	2020	2019
Audit	0.4	0.4
Tax advice	0.0	0.0
Statements	0.0	0.0
Other fees	0.1	0.0
Total	0.5	0.5

Other audit companies

EUR million	2020	2019
Audit	0.0	O.1
Other fees	0.0	0.0
Total	0.0	0.1

Other work than audit services given by the principal auditor Deloitte Oy during the year 2020 were EUR 0.1 (0.1) million.

30. APPLICATION OF NEW AND REVISED STANDARDS AND INTERPRETATIONS IN ISSUE BUT NOT YET EFFECTIVE

At the date of authorization of these financial statements, the group has not applied the following new and revised IFRS Standards that have been issued but are not yet effective and in some cases had not yet been adopted by the EU (*). The management expects that the adoption of the standards will have no or not material impact on the financial statements of the group in future periods.

IFRS 17 Insurance Contracts * and Amendments to IFRS 4 - deferral of IFRS 9

IFRS 17 establishes the principles for the recognition, measurement, presentation and disclosure of insurance contracts and supersedes IFRS 4 Insurance Contracts. In June 2020, the IASB issued Amendments to IFRS 17 that defer the date of initial application of IFRS 17 (incorporating the amendments) to annual reporting periods beginning on or after January 1, 2023. The application of the new standard in the future is not anticipated to have an impact on the group's consolidated financial statements as the group does not hold any insurance contracts.

Amendments to IFRS 10 and IAS 28 Sale or Contribution of Assets between an Investor and its Associate or Joint Venture

The amendments to IFRS 10 and IAS 28 deal with situations where there is a sale or contribution of assets between an investor and its associate or joint venture. Specifically, the amendments state that gains or losses resulting from the loss of control of a subsidiary that does not contain a business in a transaction with an associate or a joint venture that is accounted for using the equity method, are recognized in the parent's profit or loss only to the extent of the unrelated investors' interests in that associate or joint venture. Similarly, gains and losses resulting from the remeasurement of investments retained in any former subsidiary (that has become an associate or a joint venture that is accounted for using the equity method) to fair value are recognized in the former parent's profit or loss only to the extent of the unrelated investors' interests in the new associate or joint venture.

The effective date of the amendments has yet to be set by the Board; however, earlier application of the amendments is permitted. The application of these amendments may have an impact on the group's consolidated financial statements in future periods should such transactions arise.

Amendments to IAS 1 - Classification of Liabilities as Current or Non-current *

The amendments to IAS 1 affect only the presentation of liabilities as current or non-current in the statement of financial position and not the amount or timing of recognition of any asset, liability, income or expenses, or the information disclosed about those items. The amendments clarify that the classification of liabilities as current or non-current is based on rights that are in existence at the end of the reporting period, specify that classification is unaffected by expectations about whether an entity will exercise its right to defer settlement of a liability, explain that rights are in existence if covenants are complied with at the end of the reporting period, and introduce a definition of 'settlement' to make clear that settlement refers to the transfer to the counterparty of cash, equity instruments, other assets or services.

The amendments are applied retrospectively for annual periods beginning on or after January 1, 2023, with early application permitted. The adoption of the amendment is not expected to have an impact on the consolidated financial statements in future periods.

Amendments to IFRS 3 - Reference to the Conceptual Framework *

The amendments update IFRS 3 so that it refers to the 2018 Conceptual Framework instead of the 1989 Framework. They also add to IFRS 3 a requirement that, for obligations within the scope of IAS 37, an acquirer applies IAS 37 to determine whether at the acquisition date a present obligation exists as a result of past events. For a levy that would be within the scope of IFRIC 21 Levies, the acquirer applies IFRIC 21 to determine whether the obligating event that gives rise to a liability to pay the levy has occurred by the acquisition date. Finally, the amendments add an explicit statement that an acquirer does not recognize contingent assets acquired in a business combination.



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The amendments are effective for business combinations for which the date of acquisition is on or after the beginning of the first annual period beginning on or after January 1, 2022. Early application is permitted if an entity also applies all other updated references (published together with the updated Conceptual Framework) at the same time or earlier. The application of this amendment may have an impact on the group's consolidated financial statements in future periods should such transactions arise.

Amendments to IAS 16 - Property, Plant and Equipment—Proceeds before Intended Use *

The amendments prohibit deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced before that asset is available for use, i.e. proceeds while bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management. Consequently, an entity recognizes such sales proceeds and related costs in profit or loss. The entity measures the cost of those items in accordance with IAS 2 Inventories. The amendments also clarify the meaning of 'testing whether an asset is functioning properly'. If not presented separately in the statement of comprehensive income, the financial statements shall disclose the amounts of proceeds and cost included in profit or loss that relate to items produced that are not an output of the entity's ordinary activities, and which line item(s) in the statement of comprehensive income include(s) such proceeds and cost.

The amendments are applied retrospectively, but only to items of property, plant and equipment that are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after the beginning of the earliest period presented in the financial statements in which the entity first applies the amendments. The entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at the beginning of that earliest period presented. The amendments are effective for annual periods beginning on or after January 1, 2022, with early application permitted. The application of this amendment may have an impact on the group's consolidated financial statements in future periods should such transactions arise.

Amendments to IAS 37 - Onerous Contracts—Cost of Fulfilling a Contract *

The amendments specify that the 'cost of fulfilling' a contract comprises the 'costs that relate directly to the contract'. Costs that relate directly to a contract consist of both the incremental costs of fulfilling that contract (examples would be direct labor or materials) and an allocation of other costs that relate directly to fulfilling contracts (an example would be the allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract). The amendments apply to contracts for which the entity has not yet fulfilled all its obligations at the beginning of the annual reporting period in which the entity first applies the amendments. Comparatives are not restated. Instead, the entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings or other component of equity, as appropriate, at the date of initial application.

The amendments are effective for annual periods beginning on or after January 1, 2022, with early application permitted. The application of these amendments may have an impact on the group's consolidated financial statements in future periods should such transactions arise.

Annual Improvements to IFRS Standards 2018-2020 Cycle Amendments to IFRS 1, IFRS 9, IFRS 16 and IAS 41 *

The Annual Improvements include amendments to four Standards:

- IFRS 9 Financial Instruments: The amendment clarifies that in applying the '10 per cent' test to assess whether to derecognize a financial liability, an entity includes only fees paid or received between the entity (the borrower) and the lender, including fees paid or received by either the entity or the lender on the other's behalf. The amendment is applied prospectively to modifications and exchanges that occur on or after the date the entity first applies the amendment. The amendment is effective for annual periods beginning on or after January 1, 2022, with early application permitted. The application of this amendment may have an impact on the group's consolidated financial statements in future periods should such transactions arise.
- IFRS 16 Leases: The amendment removes the illustration of the reimbursement of leasehold improvements.
 As the amendment to IFRS 16 only regards an illustrative example, no effective date is stated. The amendment does not have an impact on the consolidated financial statements in future periods.
- IFRS 1 First-time Adoption of International Financial Reporting Standards and IAS 41 Agriculture: The amendments are effective for annual periods beginning on or after January 1, 2022, with early application permitted. The amendments do not have an impact on the consolidated financial statements in future periods.

Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16 Interest Rate Benchmark Reform – Phase 2

In September 2020, the IASB issued the second phase of the two-phase project on Interest Rate Benchmark Reform. The amendments enable entities to reflect the effects of transitioning from benchmark interest rates, such as interbank offer rates (IBORs) to alternative benchmark interest rates without giving rise to accounting impacts that would not provide useful information to users of financial statements. The amendments affect the following key areas: changes in the basis for determining the contractual cash flows as a result of benchmark interest rate reform, hedge accounting and disclosures.

The amendments are effective for annual periods beginning on or after January 1, 2021 with early application permitted. The amendments are applied retrospectively and include reinstatement of hedge relationship that were discontinued solely due to changes directly required by the reform. The application of these amendments may have an impact on the group's consolidated financial statements in future periods should such transactions arise



Parent company financial statements*

Parent company income statement

		Jan 1 - Dec 31,	Jan 1 - Dec 31,
EUR	Note	2020	2019
Net sales	2	258,042,714.61	266,326,391.86
Cost of production and procurement	4, 5	-125,568,131.61	-128,260,380.19
Gross profit		132,474,663.00	138,066,011.67
Cost of sales and marketing	4, 5	-28,955,777.72	-29,477,713.41
Cost of administration			
Research and development costs	4, 5	-42,801,165.38	-39,747,647.97
Other administrative costs	4, 5	-34,679,430.27	-32,397,308.76
Other operating income	3	2,111,678.44	397,981.41
Operating result		28,149,968.07	36,841,322.94
Financial income and expenses	6	518,595.19	1,658,532.38
Result before appropriations and taxes		28,668,563.26	38,499,855.32
Result before taxes		28,668,563.26	38,499,855.32
Direct taxes	7	-5,190,623.55	-7,614,504.46
Result for the financial year		23,477,939.71	30,885,350.86

^{*} The parent company financial statements are prepared in accordance with the principles of Finnish Accounting Standards (FAS).



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Parent company balance sheet

EUR Note	Dec 31, 2020	Dec 31, 2019
Assets		
Non-current assets		
Intangible assets 8		
Goodwill	72,756.55	-
Intangible rights	1,141,366.40	1,571,161.36
Other intangible assets	15,871,708.60	12,194,377.05
Advance payments and intangible assets in progress	321,193.74	268,587.21
Total intangible assets	17,407,025.29	14,034,125.62
Property, plant and equipment 8		
Land and waters	2,904,868.22	2,904,868.22
Buildings	41,056,640.74	19,625,625.01
Machinery and equipment	16,519,872.93	14,282,026.94
Other tangible assets	74,417.51	74,417.51
Advance payments and construction in progress	7,320,714.03	16,816,177.51
Total property, plant and equipment	67,876,513.43	53,703,115.19
Investments 8		
Holdings in group undertakings	74,217,965.75	81,329,965.75
Other shares and holdings	100,000.00	111,714.29
Total investments	74,317,965.75	81,441,680.04
Total non-current assets	159,601,504.47	149,178,920.85

EUR	Note	Dec 31, 2020	Dec 31, 2019
Current assets			
Non-current receivables			
Other receivables		83,286.67	38,970.93
Total long-term receivables		83,286.67	38,970.93
Inventories			
Materials, consumables and finished goods		29,506,789.86	25,882,341.23
Total inventories		29,506,789.86	25,882,341.23
Current receivables			
Trade receivables	17	39,211,970.89	38,783,327.95
Loan receivables	17	13,853,801.65	22,444,428.94
Other receivables	9, 17	3,172,581.17	3,008,205.05
Prepaid expenses and accrued income	10, 17	23,713,151.75	19,605,675.93
Total current receivables		79,951,505.46	83,841,637.87
Cash and cash equivalents		35,224,956.85	45,525,976.64
Total current assets		144,766,538.84	155,288,926.67
Total assets		304,368,043.31	304,467,847.52

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EUR Note	Dec 31, 2020	Dec 31, 2019
Shareholders' equity and liabilities		
Shareholders' equity 13		
Share capital	7,660,807.86	7,660,807.86
Fund of invested non-restricted equity	422,034.34	422,034.34
Retained earnings	148,598,395.02	139,213,466.46
Result for the financial year	23,477,939.71	30,885,350.86
Total shareholders´ equity	180,159,176.93	178,181,659.52
Provisions 12	97,119.25	97,119.25
Liabilities		
Non-current		
Loans from financial institutions	40,000,000.00	-
Other non-current liabilities 14	1,789,283.31	3,659,468.77
Current		
Advances received	1,350,808.01	2,509,216.85
Trade payables 17	12,334,971.34	15,291,117.22
Loans from financial institutions	5,000,000.00	40,000,000.00
Other current loans 17	16,840,917.35	10,904,795.08
Other current liabilities 17	3,865,264.19	4,060,266.18
Provisions 12	914,206.85	1,731,381.81
Accrued expenses and deferred income 16, 17	42,016,296.08	48,032,822.84
Current liabilities total	82,322,463.82	122,529,599.98
Total liabilities	124,208,866.38	126,286,188.00
Total shareholders' equity and liabilities	304,368,043.31	304,467,847.52





Parent company cash flow statement

EUR thousand	Note	Jan 1 - Dec 31, 2020	Jan 1 - Dec 31, 2019
Result for the financial period		23,478	30,885
Depreciation, amortization and impairment	5	10,231	7,765
Financial income and expenses	6	-519	-1,659
Gains and losses on sale of intangible assets and property, plant and equipment	3	-8	-293
Income taxes	7	5,191	7,615
Other adjustments		-3,145	1,137
Inventories, increase (-) / decrease (+)		-1,217	-4,416
Non-interest bearing receivables, increase (-) / decrease (+)		-2,562	-6,609
Non-interest bearing liabilities, increase (+) / decrease (-)		-11,608	8,007
Changes in working capital		-15,387	-3,018
Paid financial items, net	6	-1,035	785
Dividend received from business operations	6	2,967	1,658
Income taxes paid		-6,947	-6,660
Cash flow from operating activities		14,825	38,215
Cash flow from investing activities			
Investments in shares	8	-164	-7,772
Investments in intangible assets	8	-324	-540
Investments in property, plant and equipment	8	-20,091	-16,822
Divestments	8	8	300
Proceeds from sale of shares	8	122	-
Loans granted	17	-	-2,165
Repayments on loan receivables	17	7,249	6,454
Cash flow from investing activities		-13,200	-20,545

EUR thousand	Note	Jan 1 - Dec 31, 2020	Jan 1 - Dec 31, 2019
Cash flow from financing activities			
Proceeds from short-term borrowings	14	104,656	80,000
Repayment of short-term borrowings	14	-95,000	-85,965
Dividend paid	13	-21,959	-20,810
Cash flow from financing activities		-12,303	-26,775
Change in cash and cash equivalents increase (+) / decrease (-)		-10,678	-9,105
Cash and cash equivalents at Jan 1		45,526	52,083
Change in cash and cash equivalents increase (+) / decrease (-)		-10,678	-9,105
Cash received in merger		377	2,548
Cash and cash equivalents at Dec 31		35,225	45,526

The reporting of cash flows from operating activities has been changed from the direct method to the indirect method as of January 1, 2020. The comparative information has been reported accordingly.



1. ACCOUNTING PRINCIPLES

The financial statements of the parent company Vaisala Corporation have been prepared according to the Finnish Accounting Standards (FAS). Financial statement data are based on original acquisition costs or nominal value, less possible impairment, if not otherwise stated in the accounting principles outlined below.

Net sales and revenue recognition principles

The parent company's net sales consist of revenue recognized from contracts with customers. Net sales are divided into products, projects and services. Indirect taxes and discounts have been deducted from sales revenue. Exchange rate differences are recognized in the financial income and expenses.

Product net sales include revenue from products, spare parts and system deliveries. A system delivery contains a standard product delivery with limited amount of configuration. Revenue from the sale of product is recognized at a point in time when the control is transferred to the customer.

Projects are integrated projects, in which observation solutions, consisting of products, services and software, are delivered. Solutions are integrated to customer systems according to customer specifications. Revenue for all projects is recognized over time using percentage of completion method. Progress is measured by cost-to-cost method, comparing incurred costs and forecasted costs. Projects meet the overtime revenue recognition criteria, mainly by creating an asset without an alternative use and Vaisala having an enforceable right to payment for performance completed to date. The applied revenue recognition principles fulfill the Finnish Accounting Standard requirement related to the predictability of project margin.

Services are divided into service contracts and one-off service deliverables. Services may include maintenance, calibration and repair, modernization, extended warranties and data-based solutions supporting decisions in weather-dependent operations. Service contracts are continuous services including for example extended warranty, availability of customer support and availability of spare part delivery. Service contracts are recognized over time or at a point in time depending on the nature of the service and content of a contract. In case of one-off request services, the revenue is recognized at a point in time when the service has been rendered.

Standard warranty period for products is one year and 2, 5 or 10 years for selected products. Standard warranty period for services is 6 or 12 months. Extended warranty is a separately sold and priced service over a separately agreed period. Revenue for extended warranty is recognized over time starting at the time of standard warranty expiration. Provision for warranty costs is recognized in the balance sheet.

Other operating income and expenses

Other operating income and expenses include income and expenses, which are not directly attributable to operational activities.

Other operating income consists mainly of gains on the disposal of assets as well as income other than revenue from contracts with customers, such as reversal of liabilities related to acquisitions and indemnities. Other operating expenses consist mainly of losses on disposal of assets.

Research and development expenses

Research and development expenses are booked as cost in the financial period in which they occur.

Share-based incentive plans

Parent company's share-based payments are related to share-based incentive plans. Share-based payments are recognized as costs in the income statement and as accrued expenses in the balance sheet during the vesting period. The costs are based on an estimate of the amount of shares to be paid at the end of the vesting period. Assumptions, on which the estimates are based, are updated whenever changes occur and the effects of changes in assumptions are recognized in the statement of income. As of January 1, 2018, the cost of the share part of the share-based payments as well as the cash part of the share-based payments correspond to the value of share closing price on the grant date of the incentive plan.

Pensions

The parent company's statutory pension insurance and voluntary pension plans are managed by external pension insurance companies. The pensions are all defined contribution plans and the contributions are expensed to the statement of income as incurred.

The additional pension coverage of parent company personnel was arranged by Vaisala Pension Fund that was closed on January 1, 1983. The pension fund liability was transferred to a pension insurance company on December 31, 2005 and the fund was dissolved in 2006. The pension liability of the fund is fully covered.

Income taxes

Tax expense includes taxes based on taxable profit for the financial year and tax adjustments for previous years. Current taxes are calculated on the taxable income on the basis of the tax rates enacted by the end of the financial year.

Non-current assets

Non-current assets consist of intangible assets, property, plant and equipment as well as investments. Carrying amounts of non-current assets are measured at cost less accumulated depreciation, amortization and impairment and plus revaluations. Depreciation and amortization according to plan is calculated on a straight-line basis over the expected useful lifetime of the asset. Land and investments are not depreciated. The cost of assets produced for own use includes also overhead costs attributable to the production work.



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No interest is capitalized in non-current assets. Estimated useful lifetimes for assets are:

Intangible rights 3-10 years
Buildings and structures 5-40 years
Machinery and equipment 3-8 years
Other tangible assets 3-8 years

Other intangible assets include assets that have an indefinite useful lifetime and are not amortized. Additionally, merger losses have been allocated to other intangible assets and their useful lifetime is 5-6 years.

Inventories

Inventories are stated at the lower of standard cost and net realizable value. Inventory cost includes the cost of purchase (including mainly purchase price, import duties and transport), direct labor and a proportion of production overhead. An allowance is recorded for excess inventory and obsolescence.

Provisions

Provisions are future expenditure and losses arising from obligations, for which the company is committed and for which it is not certain or likely that revenue will be generated in the future and which are likely to occur. A change in the provision is recognized in the same item of the income statement in which the provision was originally recognized.

Provisions can relate to restructuring of operations, loss-making contracts, warranties, legal disputes and other commitments.

Derivative financial contracts

Vaisala applies in its accounting of financial instruments valuation according to Accounting Act 5.2§ and follows Accounting Board's opinion December 13, 2016 ("KILA 1963/2016") on valuation of derivative financial instruments in fair value. All parent company's derivative financial contracts are foreign exchange forward contracts. The parent company has sales in a number of foreign currencies, of which the most significant are USD, CNY and JPY. All derivative financial contracts are initially measured at fair value on the closing date of the derivative financial contract. Derivative financial contracts are subsequently measured at fair value through profit and loss at the end of the financial year. The fair value of a foreign exchange forward contract is measured at the present value of the future cash flows. Unrealized and realized gains and losses arising from changes in the fair value are recognized in the income statement in financial income and expenses in the period in which they arise. Derivative financial contracts are included in the balance sheet in prepaid and accrued expenses. The parent company does not apply hedge accounting.

Foreign currency translation

Transactions in foreign currencies are recorded using the exchange rate on the date of transaction. Receivables and payables in foreign currency have been valued at the rates quoted by European Central Bank on the last trading date of the financial year. Foreign exchange gains and losses arising from revaluation of cash and cash equivalents, trade and other receivables, loan receivables as well as trade and other payables are recognized as financial income and expense in the income statement.

2. NET SALES

Disaggregation of revenue

Net sales by market area

EUR thousand	2020	2019
Americas	70,030	78,551
of which United States	49,345	55,444
APAC	80,236	82,637
EMEA	107,777	105,139
of which Finland	9,308	8,959
Total	258,043	266,326

Net sales by business area

EUR thousand	2020	2019
Weather and Environment		
Products	56,621	64,142
Projects	37,077	48,446
Services	6,798	5,871
Total	100,497	118,459
Industrial Measurements		
Products	34,185	27,387
Services	2,029	1,952
Total	36,213	29,340
Net sales from subsidiaries	121,333	118,527
Total	258,043	266,326



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Net sales by timing of revenue recognition

EUR thousand	2020	2019
Revenue recognized at a point in time	94,130	94,440
Revenue recognized over time	42,579	53,359
Net sales from subsidiaries	121,333	118,527
Total	258,043	266,326

Net sales from subsidiaries are mainly recognized at a point in time.

Payment terms

Payment terms vary based on geographical areas. In product and service business, the standard payment term is 30 days net, but in some areas prepayments are commonly used. Project invoicing is based on milestones and typically follows the general project delivery terms (where 30% is advance payment, 60% against delivery documents and 10% after site acceptance test) or terms as per contract. In project business the most common payment terms are letter of credit or as per contract.

Assets and liabilities related to net sales

The following table provides information about receivables and liabilities from contracts with customers included in the balance sheet.

Assets and liabilities related to net sales

EUR thousand	Dec 31, 2020	Dec 31, 2019
Trade receivables	39,212	38,783
Accrued revenue	17,102	15,451
Advances received	1,351	2,509
Deferred revenue	12,436	14,762

Accrued revenue includes the balance of project and service revenue recognized but not yet invoiced. In general, most of project revenue is recognized after the product manufacturing as percentage of completion increases and most of the performance obligation is satisfied. According to general project delivery terms, majority of a project is invoiced before the delivery. Therefore, the amount of accrued revenue is typically at its highest between product manufacturing phase of the project and delivery of the product to the customer. For services, which are satisfied over time, the customer is mainly invoiced in advance and only in some cases in arrears after the customer has received or consumed the service. Arrears invoicing generates accrued revenue as the revenue is recognized before invoicing.

Advances received are customer payments related to contracts not yet invoiced.

Deferred revenue includes the balance of projects, services and products invoiced but revenue not yet recognized.

Project-related contract liabilities often arise in the early stages of a project, when the prepayment has been invoiced, but the project is only at an early stage and there is none or little revenue recognized under percentage of completion method. Services, which are recognized over time, are often invoiced in advance and therefore deferred revenue is generated in the beginning of the service period. For products and services, which are recognized at a point in time, deferred revenue is generated when customer has been invoiced, but performance obligation has not been satisfied and consequently revenue has not been recognized.

In the financial year 2020, the parent company recognized EUR 7 (9) million revenue that was included in the deferred revenue balance at the beginning of the period.

On December 31, 2020, the order book amounted to EUR 67.0 (68.4) million. Of the order book, EUR 46.3 (49.8) million is scheduled to be recognized as revenue in 2021 (2020) and EUR 20.7 (18.6) million is scheduled to be recognized later.

3. OTHER OPERATING INCOME

EUR thousand	2020	2019
Gains on disposal of assets	8	293
Other operating income		
Reversal of consideration related to investments in shares	2,032	91
Indemnities and other	72	14
Total	2,112	398

4. PERSONNEL EXPENSES AND NUMBER OF PERSONNEL

Personnel expenses

EUR thousand	2020	2019
Wages and salaries	79,536	72,753
Pension costs	11,858	12,078
Other personnel costs	2,319	2,088
Total	93,712	86,919



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Persons	2020	2019
In Finland	1,210	1,086
Outside Finland	8	7
Total	1,218	1,093
Davis and Day 71		

Personnel Dec 31

Persons	2020	2019
In Finland	1,242	1,135
Outside Finland	8	8
Total	1,250	1,143

Kjell Forsén served as the President and CEO until September 30, 2020 and Kai Öistämö assumed the position on October 1, 2020.

Salary and remunerations of the President and CEO (payment basis)

EUR thousand	2020	2019
Öistämö Kai (Oct 1 - Dec 31, 2020)		
Salary	114	-
Short term incentives	-	-
Share-based payment	-	-
Statutory pension	17	-
Supplementary pension	29	-
Total	159	-
Forsén Kjell (Jan 1 - Sep 30, 2020)		
Salary	394	515
Short term incentives	363	263
Share-based payment	1,221	514
Statutory pension	121	135
Supplementary pension	90	120
Total	2,189	1,547

In addition Kjell Forsén's compensation for October 1 - December 31, 2020 was EUR 143 thousand and EUR 30 thousand supplementary pension. In 2021 Kjell Forsén will be paid short term incentive for 2020 which is 35% of his annual salary and share-based payment for LTI 2018 of 27,700 shares gross, for LTI 2019-2021 of 23,040 shares gross and for LTI 2020-2022 5,529 shares gross.

The President and CEO Kai Öistämö is entitled to participate in a supplementary defined contribution pension plan with an annual fee corresponding to three month's base salary. The President and CEO's retirement age is 62 years. The notice period for both parties is six months. If the company terminates the agreement, there is an additional severance pay equaling six times the monthly salary.

Remuneration of the Board of Directors 2020 (payment basis)

				Compensation,		
				Remuneration		
				and Human	Compensation,	
		Annual		Resources	Nomination	
EUR thousand		remuneration		Committee	Committee	Total
Castrén Petri	Member of the Board	35	6	1		42
	Member of the Board					
Jääskeläinen Antti	(since June 3, 2020)	35	3			38
Lundström Petra	Member of the Board	35		6		41
Rinnevaara Jukka	Member of the Board	35	3	5	10	53
Ståhlberg Kaarina	Member of the Board	35	8		10	53
Syrjänen Tuomas	Member of the Board	35				35
	Member of the Board					
Torstila Pertti	(until June 3, 2020)	-				-
	Chairman of the					
Voipio Raimo	Board	45			10	55
	Vice Chairman of the					
Voipio Ville	Board	35	6	6	10	57
Total		290	26	18	40	374



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Remuneration of the Board of Directors 2019 (payment basis)

				Compensation, Remuneration	
EUR thousand		Annual remuneration	Compensation, Audit Committee	and Human Resources Committee	Total
Castrén Petri	Member of the Board	35	4	5	44
Lundström Petra	Member of the Board	35		4	39
Niinivaara Mikko	Member of the Board (until March 26, 2019)		1	1	2
TVIIIIVaara Piikko	Member of the Board		1	1	
Rinnevaara Jukka	(since March 26, 2019)	35	2		37
Ståhlberg Kaarina	Member of the Board	35	6		41
	Member of the Board				
Syrjänen Tuomas	(since March 26, 2019)	35			35
Torstila Pertti	Member of the Board	35			35
	Chairman of the				
Voipio Raimo	Board	45		1	46
	Vice Chairman of the Board (since March				
Voipio Ville	26, 2019)	35	3	4	42
Total		290	16	15	321

To the President and CEO and the members of the Board have not been granted loans nor have guarantees or commitments been given on their behalf.

5. DEPRECIATION, AMORTIZATION AND IMPAIRMENT

EUR thousand	2020	2019
Amortization of intangible assets	3,963	1,761
Depreciation of property, plant and equipment	6,246	5,919
Impairment of intangible and tangible assets	22	85
Total	10,231	7,765

In the financial year 2020 amortization of intangible assets included amortization EUR 3.3 (1.1 million) related to merger losses included in other intangible assets.

6. FINANCIAL INCOME AND EXPENSES

EUR thousand	2020	2019
Dividend income		
From group companies	2,967	1,658
Other interest and financial income		
From group companies	456	904
From others	2,443	1,498
Write-down of loan receivables	-	-89
Interest and other financial expenses		
To group companies	-62	-253
To others	-2,010	-2,903
Foreign exchange gains and losses	-3,276	843
Total	519	1,659

7. DIRECT TAXES

EUR thousand	2020	2019
Taxes from the financial year	5,277	7,700
Taxes from previous years	-87	-86
Total	5,191	7,615



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8. NON-CURRENT ASSETS AND OTHER LONG-TERM INVESTMENTS

Intangible assets 2020

				Advance	
				payments and	
			Other	intangible	
		Intangible	intangible	assets in	
EUR thousand	Goodwill	rights	assets	progress	Total
Acquisition cost Jan 1, 2020		29,756	13,428	269	43,453
Increases		218	6,933	105	7,257
Transferred in merger	88				88
Decreases		-619			-619
Transfers between items		50		-53	-3
Acquisition cost Dec 31, 2020	88	29,406	20,361	321	50,175
Accumulated amortization and write- downs Jan 1, 2020		28,185	1,234		29,419
Accumulated amortization of decreases and transfers		-619			-619
Amortization and write-downs for the financial year	15	698	3,256		3,968
Accumulated amortization and write- downs Dec 31, 2020	15	28,264	4,490		32,769
Carrying value Dec 31, 2020	73	1,141	15,871	321	17,407

Intangible assets 2019

EUR thousand Acquisition cost Jan 1, 2019 Increases Transferred in merger	Intangible rights 29,535 245 270 -390	intangible assets 3,376 10,050	assets in progress 248 99	Total 33,158 10,393 272 -390
Decreases Transfers between items	-390 97			-390
Acquisition cost Dec 31, 2019	29,756	13,428	269	43,453
Accumulated amortization and write- downs Jan 1, 2019	27,887	135		28,023
Accumulated amortization of decreases and transfers	-390			-390
Amortization and write-downs for the financial year	688	1,099		1,787
Accumulated amortization and write- downs Dec 31, 2019	28,185	1,234		29,419
Carrying value Dec 31, 2019	1,571	12,194	269	14,03



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EUR thousand	Land and waters	Buildings	Machinery and equipment	Other tangible assets	Advance payments and construction in progress	Total
Acquisition cost Jan 1, 2020	2,820	49,497	59,663	74	16,816	128,872
Increases		13,641	2,111		4,714	20,466
Decreases			-8,320			-8,320
Transfers between items		9,867	4,312		-14,209	-30
Acquisition cost Dec 31, 2020	2,820	73,006	57,766	74	7,321	140,987
Accumulated depreciation and write-downs Jan 1, 2020		35,489	45,381			80,870
Accumulated depreciation of decreases and transfers			-8,320			-8,320
Depreciation for the financial year		2,077	4,169			6,246
Write-downs			16			16
Accumulated depreciation and write-downs Dec 31, 2020		37,566	41,246			78,812
Revaluation	84	5,618				5,702
Carrying value Dec 31, 2020	2,905	41,057	16,520	74	7,321	67,877





Property, plant and equipment 2019

			Machinery and		Advance payments and	
EUR thousand	Land and waters	Buildings	equipment	Other tangible assets	construction in progress	Total
Acquisition cost Jan 1, 2019	2,820	49,309	55,464	69	5,846	113,509
Increases		122	3,654		13,064	16,840
Transferred in merger			279	5		284
Decreases		-0	-1,513			-1,513
Transfers between items		66	1,778		-2,093	-249
Acquisition cost Dec 31, 2019	2,820	49,497	59,663	74	16,816	128,871
Accumulated depreciation and write-downs Jan 1, 2019		33,517	42,881			76,398
Accumulated depreciation of decreases and transfers		-O	-1,505			-1,506
Depreciation for the financial year		1,973	3,946			5,919
Write-downs		0	59			59
Accumulated depreciation and write-downs Dec 31, 2019		35,489	45,381			80,870
Revaluation	84	5,618				5,702
Carrying value Dec 31, 2019	2,905	19,626	14,282	74	16,816	53,704

On December 31, 2020, the carrying amount of machinery and equipment used in production was EUR 11.1 (9.4) million.



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Investments 2020

EUR thousand	Holdings in group undertakings	Other shares and holdings	Total
Acquisition cost Jan 1, 2020	81,330	112	81,442
Decreases	-7,112	-12	-7,124
Carrying value Dec 31, 2020	74,218	100	74,318

In the financial year 2020, the decreases relate to Vaisala Digital Oy's merger into the parent company on April 1, 2020 and sale of Elisa Oyj's shares.

Investments 2019

EUR thousand	Holdings in group undertakings	Other shares and holdings	Total
Acquisition cost Jan 1, 2019	89,333	100	89,433
Increases	7,112		7,112
Transferred in merger	125	12	137
Decreases	-15,240		-15,240
Carrying value Dec 31, 2019	81,330	112	81,442

In the financial year 2019, additions include acquisition costs of the shares of Vaisala Digital Oy. The decrease relates to K-Patents Oy's and Janesko Oy's merger into the parent company on August 31, 2019.

9. OTHER RECEIVABLES

EUR thousand	2020	2019
Advances paid	188	554
Value added tax receivables	2,221	2,070
Other	763	385
Total	3,173	3,008

10. DEFERRED ASSETS

EUR thousand 20	020	2019
Tax receivables 1,	445	507
Deferred revenue	7,102	15,451
Derivative financial contracts	1,177	280
Deferred interests	89	159
Other deferred assets 3,	900	3,208
Total 23	,713	19,606

Derivative financial contracts

EUR million	2020	2019
Nominal value of derivative financial contracts made to hedge against exchange rate risk		
Foreign exchange forward contracts	31.4	33.8
Nominal value, total	31.4	33.8

Nominal value of derivative financial	2020		2019	9
contracts in currencies	Currency million	EUR million	Currency million	EUR million
USD	19.0	16.5	23.5	20.7
CNH	40.0	5.0	19.0	2.4
GBP	-	-	1.3	1.5
HRK	22.5	3.0	-	-
JPY	250.0	2.0	350.0	2.9
SEK	33.0	3.1	43.0	4.0
SGD	3.0	1.9	3.5	2.2
Total		31.4		33.8



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Maturity of derivative financial contracts

EUR million	2020	2019
Less than 90 days	9.6	8.2
Over 90 days and less than 120 days	2.7	5.3
Over 120 days and less than 180 days	5.8	8.5
Over 180 days and less than 365 days	9.1	11.8
Over 366 days and less than 545 days	4.2	_
Total	31.4	33.8

Fair value of derivative financial contracts made to hedge against exchange rate risk

EUR million	2020	2019
Fair values of derivative financial contracts, assets	1.2	0.3
Fair values of derivative financial contracts, liabilities	0.2	0.4

11. DEFERRED TAX ASSETS AND LIABILITIES

Deferred tax assets

EUR thousand	2020	2019
Deferred depreciation and amortization	26	258
Share-based payments	1,212	1,255
Provisions	202	324
Total	1,440	1,837

Deferred tax assets and liabilities have not been recognized in the parent company's balance sheet. Deferred tax liabilities arising from revaluation have not been taken into account. If realized, the tax effect of revaluation would be EUR 1.1 million at the current tax rate of 20%. Other deferred tax liabilities were not material.

12. PROVISIONS

Non-current provisions

EUR thousand	2020	2019
Provisions Jan 1	97	97
Provisions Dec 31	97	97

Current provisions

2020	2019
1,731	1,734
125	832
-942	-835
914	1,731
	1,731 125 -942

The provisions in the financial years 2020 and 2019 include warranty provision, loss-making project provisions and other contractual provisions.

13. SHAREHOLDERS' EQUITY

The parent company's shares are divided into series K shares and series A shares. On April 24, 2019 Board of Directors of Vaisala Corporation decided to convert 27,264 series K share to series A shares. This conversion was registered into the Trade Register on May 27, 2019. On July 21, 2020 Vaisala Corporation's Board of Directors decided to convert 20,306 K shares to series A shares. This conversion was registered into the Trade Register on July 31, 2020. After this Vaisala Corporation has 36,436,728 shares, of which 6,731,092 are series K shares and 29,705,636 series A shares. The shares do not have nominal value. The series K shares and A shares are differentiated by the fact that each series K share entitles its owner to twenty (20) votes at General Meeting of Shareholders while each series A share entitles its owner to one (1) vote. The shares have the same rights to dividend. Series K shares can be converted to series A shares according to specific rules stated in the Articles of Association.

On December 31, 2020 and 2019, the fully paid and registered share capital of Vaisala Corporation amounted to EUR 7,660,807.86.



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Shareholders' equity

EUR thousand	2020	2019
Share capital Jan 1	7,661	7,661
Share capital Dec 31	7,661	7,661
Fund of invested non-restricted equity Jan 1	422	415
Gain on transfer of treasury shares	-	7
Fund of invested non-restricted equity Dec 31	422	422
Retained earnings Jan 1	170,099	159,142
Dividend paid	-21,960	-20,810
Distribution of treasury shares	1,598	1,082
Loss on transfer of treasury shares	-1,139	-201
Retained earnings Dec 31	148,598	139,213
Result for the financial year	23,478	30,885
Total equity	180,159	178,182

Distributable funds

EUR thousand	2020	2019
Retained earnings	148,598	139,213
Result for the financial year	23,478	30,885
Fund of invested non-restricted equity	422	422
Total	172,498	170,521

For the financial year 2019 a dividend of EUR 0.61 per share was paid, a total of EUR 22.0 million.

14. NON-CURRENT LIABILITIES

On December 31, 2020, the parent company had non-current non-interest-bearing liabilities in total of EUR 1.8 (3,7) million, of which EUR 1.7 (3.7) million was considerations related to acquisition of subsidiaries, and they will mature in 2022. During the financial year 2020, non-current liabilities related to acquisition of subsidiaries EUR 2.0 (0.1) million were reversed and recognized in other operating income. At the end of the financial year, the parent company had no non-current liabilities that will mature after five years.

15. LOANS FROM FINANCIAL INSTITUTIONS

On May 25, 2020, Vaisala signed a EUR 40.0 million unsecured term loan agreement with one of its core banks and on May 29, 2020, the loan was fully utilized. The loan matures in three years from the signing date and has a financial covenant (gearing), which is tested semi-annually. On December 31, 2020, Vaisala was in compliance with the covenant. This facility will be used for refinancing of existing indebtedness as well as for general corporate and working capital purposes.

In addition, Vaisala has a EUR 50 million unsecured revolving credit facility which was signed on October 5, 2018. The committed credit facility agreement matures in 5 years from the signing and it has no financial covenants.

The facility will be used for working capital needs, for financing of acquisitions and for general corporate purposes. On December 31, 2020, the parent company had interest-bearing liabilities totaling EUR 45.2 (40.2) million, of which EUR 5 (40) million related to utilized revolving credit facility, which matures within the next 12 months. Vaisala has no loans that would mature after five years or more.

16. ACCRUED EXPENSES AND DEFERRED INCOME

EUR thousand	2020	2019
Personnel expense accruals	24,586	26,884
Deferred revenue	12,436	14,762
Derivative financial contracts	111	360
Direct tax accruals	39	838
Other accrued expenses and deferred income	4,844	5,189
Total	42,016	48,033

Notes related to derivative financial contracts are presented in the note to the financial statements 10, Deferred assets.



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17. RECEIVABLES AND LIABILITIES FROM OTHER COMPANIES IN VAISALA GROUP

EUR thousand	2020	2019
Reveivables		
Current loan receivables	13,854	22,445
Trade receivables	20,286	16,826
Other receivables	17	6
Prepaid expenses and accrued income	3,993	2,222
Total receivables	38,149	41,499
Liabilities		
Current loans	16,675	10,702
Trade payables	704	1,163
Other liabilities	1	1
Accrued expenses and deferred income	5,372	3,568
Total liabilities	22,752	15,433

18. CONTINGENT LIABILITIES AND PLEDGES GIVEN

Contingent liabilities and pledges given

EUR thousand	2020	2019
For own debt or liability		
Bank guarantees issued for obligations	16,934	16,285
For group companies		
Guarantees	194	67
Leasing commitments		
Payable during the following financial year	224	197
Payable later	133	97
Total leasing liabilities	357	294
Total contingent liabilities and pledges given	17,485	16,646

Investment commitments

On December 31, 2020, the parent company had commitments related to Vantaa building project in total of EUR 0.3 (2.7) million. In addition, the parent company had other commitments related to intangible and tangible assets for EUR 4 (2) million.

Purchase commitments

On December 31, 2020, the parent company had purchase commitments totaling to EUR 8 (10) million.

19. AUDITOR'S FEES

EUR thousand	2020	2019
Audit	287	357
Statements	12	16
Tax advice	17	11
Other fees	72	39
Total	388	422



Signing of the Board of Directors' report and financial statements

Vantaa, February 18, 2021

Petri Castrén Antti Jääskeläinen Petra Lundström

Jukka Rinnevaara Kaarina Ståhlberg Tuomas Syrjänen

Raimo Voipio Ville Voipio Kai Öistämö
Chairman of the Board Vice Chairman of the Board President and CEO

OUR YEAR CREATING VALUE SUSTAINABILITY GOVERNANCE

Auditor's report

(Translation of the Finnish original)

To the Annual General Meeting of Vaisala Oyj

Report on the Audit of the Financial Statements Opinion

We have audited the financial statements of Vaisala Oyj (business identity code 0124416-2) for the year ended December 31, 2020. The financial statements comprise the consolidated income statement, statement of comprehensive income, balance sheet, statement of cash flows, statement of changes in equity and notes, including a summary of significant accounting policies, as well as the parent company's income statement, balance sheet, statement of cash flows and notes.

In our opinion

- the consolidated financial statements give a true and fair view of the group's financial position, financial performance and cash flows in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU.
- the financial statements give a true and fair view of the parent company's financial performance and financial position in accordance with the laws and regulations governing the preparation of financial statements in Finland and comply with statutory requirements.

Our opinion is consistent with the additional report submitted to the Audit Committee.

Basis for Opinion

We conducted our audit in accordance with good auditing practice in Finland. Our responsibilities under good auditing practice are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report.

We are independent of the parent company and of the group companies in accordance with the ethical requirements that are applicable in Finland and are relevant to our audit, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

In our best knowledge and understanding, the non-audit services that we have provided to the parent company and group companies are in compliance with laws and regulations applicable in Finland regarding these services, and we have not provided any prohibited non-audit services referred to in Article 5(1) of regulation (EU) 537/2014. The non-audit services that we have provided have been disclosed in note 29 to the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

FINANCIALS

We have also addressed the risk of management override of internal controls. This includes consideration of whether there was evidence of management bias that represented a risk of material misstatement due to fraud



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FINANCIALS Auditor's report



Revenue recognition of product and project sales

Refer to Notes 1.2 and 3

- Vaisala group net sales EUR 379,5 million consists of product, service and project sales. Product and project sales account for EUR 326.6 7 million of the net sales.
- Revenue from the product sales is recognized at a point in time when the control is transferred to the customer. Large number of sales contracts and different nature of terms of contracts increase the risk of misstatement in timing of revenue recognition.
- · Revenue for projects is recognized over time using percentage of completion method. Progress is measured by cost-to-cost method, comparing incurred costs and forecasted costs.
- · Revenue recognition over time under IFRS 15 requires management estimate related to cost throughout the project delivery.
- This matter is a significant risk of material misstatement referred to in EU Regulation No 537/241, point (c) of Article 10(2).

How our audit addressed the key audit matter

- Our audit procedures included an assessment of revenue recognition process and assessment of controls relating to timing of revenue recognition.
- We have reviewed Vaisala's accounting manual and principles regarding different types of revenue contracts to evaluate, whether they are in line with IFRS 15 accounting principles.
- We have audited the accurate timing and the amount of revenue arising from the sales of products and from the projects.
- As a part of our audit procedures covering the revenue recognition principles of product sales, we have compared the sales transactions recorded in accounting to the related sales agreements and delivery documentation.
- Regarding to the projects we have compared the project calculations to the existing agreements and to the possible amendments to the agreements.
- We have reviewed the project estimates prepared and reviewed by the management as well as the realization of these estimates and assessed the level of completion based on the documentation received.
- We have evaluated the appropriateness of the presentation in the financial statements.

Inventory valuation

Refer to Note 13

- · Vaisala consolidated balance sheet includes inventory amounting to EUR 44.5 million. Inventory valuation is associated with the excess and obsolescence risk.
- As disclosed in the note 13 Vaisala has recognized write-offs and excess and obsolescence allowances for slow moving and obsolete inventory.
- · Estimation and judgment are required in determining the value of the allowance for excess and obsolete inventory. Management analyses estimates of demand and determines allowance for excess and obsolete inventory.
- This matter is a significant risk of material misstatement referred to in EU Regulation No 537/241, point (c) of Article 10(2).

- Our audit procedures included an assessment of inventory process and assessment of controls relating inventory valuation.
- We have assessed the valuation principles used by the group and analyzed the slow moving inventory to be able to assure the accuracy of obsolesce provision accounting.
- We have audited inventory valuation by comparing the accounting values to the acquisition and manufacturing costs as well as to the net realizable values to evaluate that value of inventory do not exceed the lower of the acquisition and manufacturing costs or net realizable value.
- · We have assessed management judgements and estimates regarding the future life cycle and demand of products.
- We have evaluated the appropriateness of the presentation in the financial statements.



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VAISALA

The Board of Directors and Chief Executive Officer are responsible for the preparation of consolidated financial statements that give a true and fair view in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU, and of financial statements that give a true and fair view in accordance with the laws and regulations governing the preparation of financial statements in Finland and comply with statutory requirements. The Board of Directors and Chief Executive Officer are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Board of Directors and President and CEO are responsible for assessing the parent company's and the group's ability to continue as going concern, disclosing, as applicable, matters relating to going concern and using the going concern basis of accounting. The financial statements are prepared using the going concern basis of accounting unless there is an intention to liquidate the parent company or the group or cease operations, or there is no realistic alternative but to do so.

Auditor's Responsibilities for the Audit of Financial **Statements**

Our objectives are to obtain reasonable assurance on whether the financial statements as a whole are free from material misstatement. whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with good auditing practice will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could

reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

As part of an audit in accordance with good auditing practice, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- · Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the parent company's or the group's internal
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the Board of Directors' and Chief Executive Officer's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the parent company's or the group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the parent company or the group to cease to continue as a going

concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events so that the financial statements give a true and fair view.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence. and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances. we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.



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Other Reporting Requirements

Information on our audit engagement

We were first appointed as auditors by the Annual General Meeting on March 26, 2014 and our appointment represents a total period of uninterrupted engagement of 7 years.

Other Information

The Board of Directors and President and CEO are responsible for the other information. The other information comprises the Board of Directors' Report and the information included in the Annual Report, but does not include the financial statements and our auditor's report thereon.

Our opinion on the financial statements does not cover the other information.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. With respect to the Board of Directors' Report, our responsibility also includes considering whether the Board of Directors' Report has been prepared in accordance with the applicable laws and regulations.

In our opinion, the information in the Board of Directors' Report is consistent with the information in the financial statements and the Board of Directors' Report has been prepared in accordance with the applicable laws and regulations.

If, based on the work we have performed we conclude that there is a material misstatement of the other information, we are required to report that fact. We have nothing to report in this regard.

Other opinions

We support that the financial statements should be adopted. The proposal by the Board of Directors regarding the treatment of distributable funds is in compliance with the Limited Liability Companies Act. We support that the Board of Directors of the parent company and the President and CEO should be discharged from liability for the financial period audited by us.

Vantaa, February 18, 2021

Deloitte Oy Audit Firm

Reeta Virolainen
Authorised Public Accountant (KHT)

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