

VAISALA


Thriving in ports rain or shine

Modern wind and weather
awareness technologies

The weather is changing.



Unexpected and severe weather causes millions of Euros of damage to ports around the globe.



Severe weather phenomena are becoming more frequent due to climate change.

A port's key responsibilities are impacted:



Maintaining operational continuity



Protecting valuable assets



Keeping people and places safe



Delivering on business commitments



Ports need the right weather data at the right time to succeed with better decision-making

Top 3 climate factors disrupting port operations



Wind



Precipitation



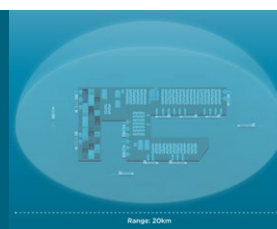
Storm surges

The increasing need for localized weather insights

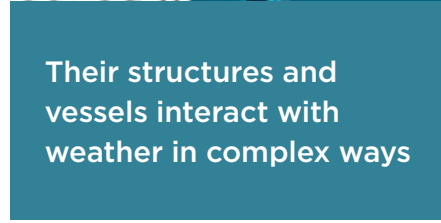
Smart port and automation initiatives cannot avoid weather impacts. As systems become more automated, it is even more important to have accurate, high-quality data for quick decision-making.



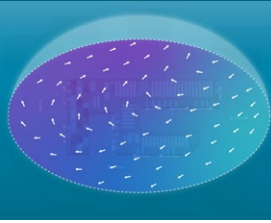
Extreme weather conditions are increasing



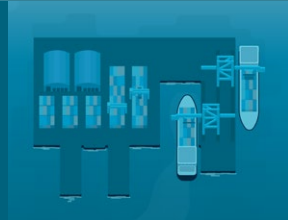
Port facilities are geographically vulnerable



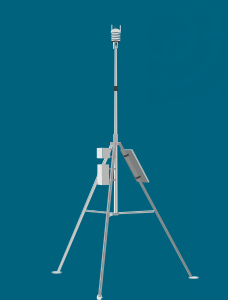
Their structures and vessels interact with weather in complex ways



Modern ports handle bigger ships and facilities (like cranes, buildings, and container stacks)

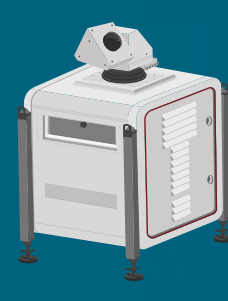


Vaisala solutions coming to port operations



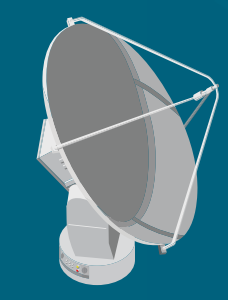
1 Vaisala Beacon Station

- First-of-its-kind, plug-and-play weather observation system
- Can be placed almost anywhere, cost-effective and movable
- Produces hyperlocal weather data for better, safer decisions



2 WindCube Scan lidar

- Among the latest observation technologies available to ports
- Creates 3D wind profiles with various scan settings
- Enables remote wind observations up to 10 km reach
- Can also be used for air quality monitoring, accurately tracking emissions and particulates



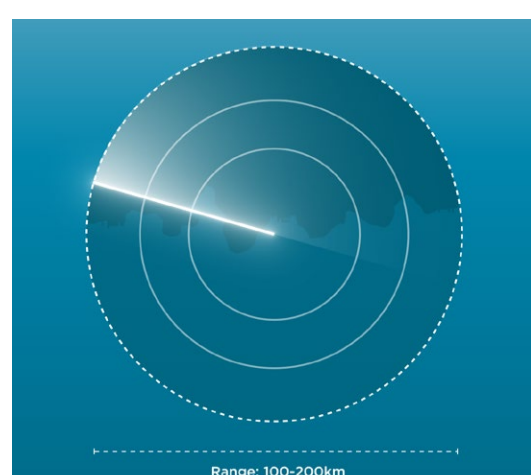
3 Vaisala X-band radar

- Provides the best possible weather awareness
- Trusted by meteorological institutes, ports, and airports around the world
- Identifies the path and severity of storms, precipitation types and amounts, and severe disturbances such as squalls and high winds up to 200 km reach

Every port is different. Get the modern solution that's right for yours.

Only from Vaisala:

- Full flexibility to mix and integrate solutions according to your needs
- Cloud-based weather sensor fleet management, dashboarding, and visualizations
- Global scientific and R&D leadership for nearly 90 years
- The most robust, global support and service network anywhere
- An ideal end-to-end partner for the life of your systems



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