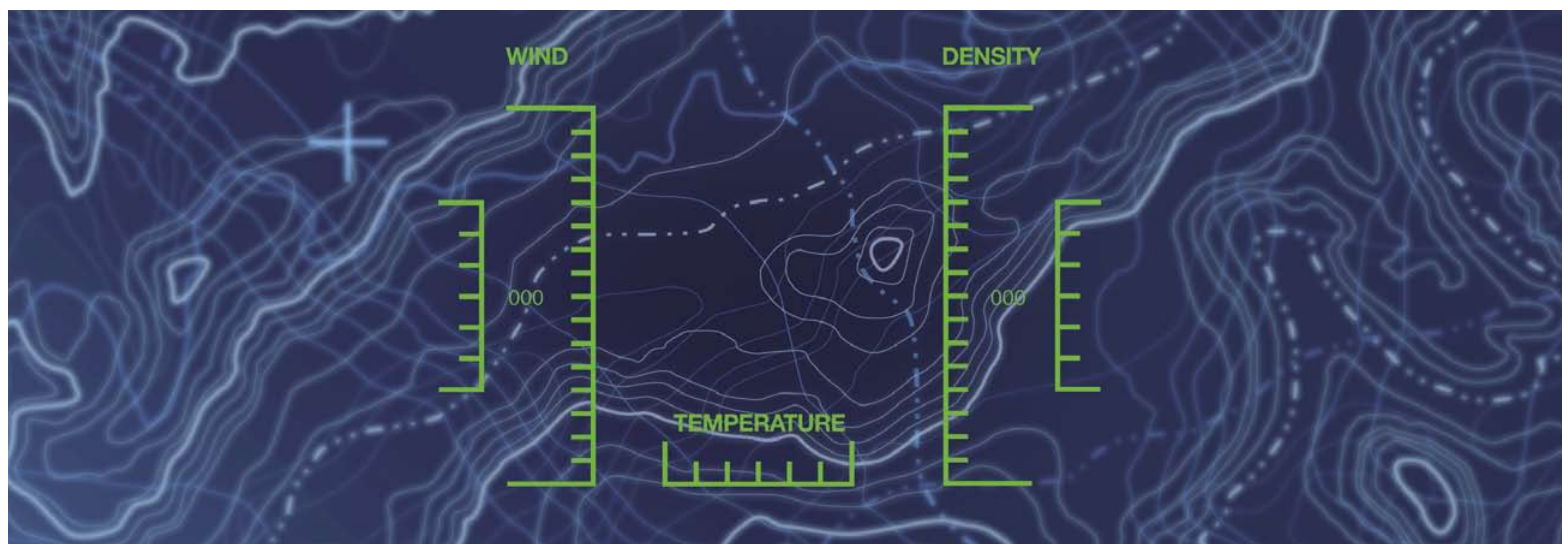


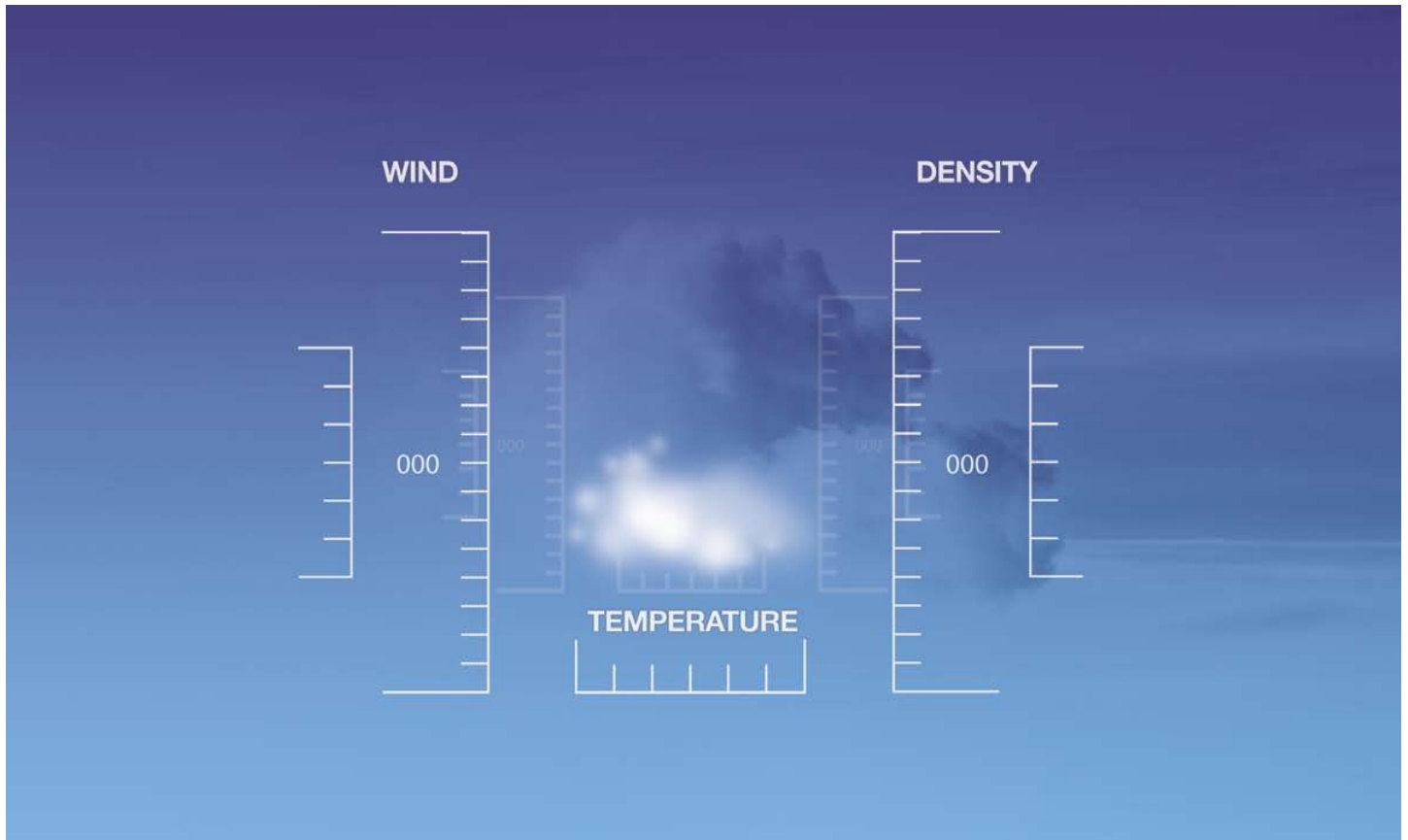
# Make weather your ally

/ WEATHER MEASUREMENT SYSTEMS FOR BALLISTIC PREPARATION



**VAISALA**

# Your ballistic weapons systems are only as accurate as your weather information



*Vaisala offers the leading and by far the most field-proven ballistic meteorological measurement systems in the world.*

Developed and optimized for military operations, our tactical solutions enable artillery and multiple rocket launch systems to fulfill their primary purpose – creating maximum impact through accurate and efficient fire in all conditions and locations.

## **Leading system for ballistic performance**

The integrated Vaisala meteorological system consists of versatile, high performance upper air sounding systems and a family of specialized precision radiosondes – with choice depending on operational needs and budget.

The system supports all the latest WMO specified and relevant STANAG message formats for ballistic and other defense applications, with over 30 calculated meteorological parameters available in tabular form. With an optional radiotheodolite, the Vaisala system can be operated independently of GPS.

All this gives you a secure access to rich and accurate meteorological

information from the surface to an altitude of up to 30 kilometers or higher while offering the widest telemetry range of up to 200 kilometers with omnidirectional antenna.

## **Essential operations support**

In addition to ballistic corrections, Vaisala systems help support Unmanned Aircraft Systems (UAS) and provide various other essential upper air meteorological observations for forecasts, NBC protection, test range support, environmental protection and sound ranging. The radiosonde data can also be used to calculate atmospheric refractive index to assess naval onboard radar performance.

## Rapid and rugged for tactical action

Military professionals know that meteorological measurement is nobody's favorite pastime, but it is crucial for real accuracy. This is why Vaisala stands for tactical efficiency and ease-of-use. Built for tactical action, the Vaisala system is up, launched and away in an instant. It provides the core measurements practically by itself and for more advanced features, the operator will enjoy the speed and ease of intuitive graphical user interface and self-guiding menus. The system is modular and light for easy transport, and rugged to exceed military standards.



## Safeguarding ballistic investment

Ballistic weapons systems are major long-term investments, and only the ability to deliver true accuracy in real action validates the cost. About 67% of ballistic error can be attributed to weather – wind, temperature, humidity, pressure, precipitation – while e.g. the



actual artillery piece only accounts for ca. 2%. A proven, superior Vaisala weather measurement system is the most cost-effective enabler of maximum ballistic performance.

## Model needs observations for winning accuracy

With appropriate infrastructure in place, numerical weather prediction (NWP) provides valid general information over an operational area. However, high-precision accuracy can only be achieved by combining NWP with in-situ meteorological information provided by advanced balloon-borne radiosondes.

## Commitment and care

Vaisala has provided market-leading meteorological measurement systems for scientific, military and commercial purposes since 1936. As the trusted supplier for the majority of the world's armies, navies and air forces, we meet the highest standards and also cater for special requirements.

## Cost-efficient quality

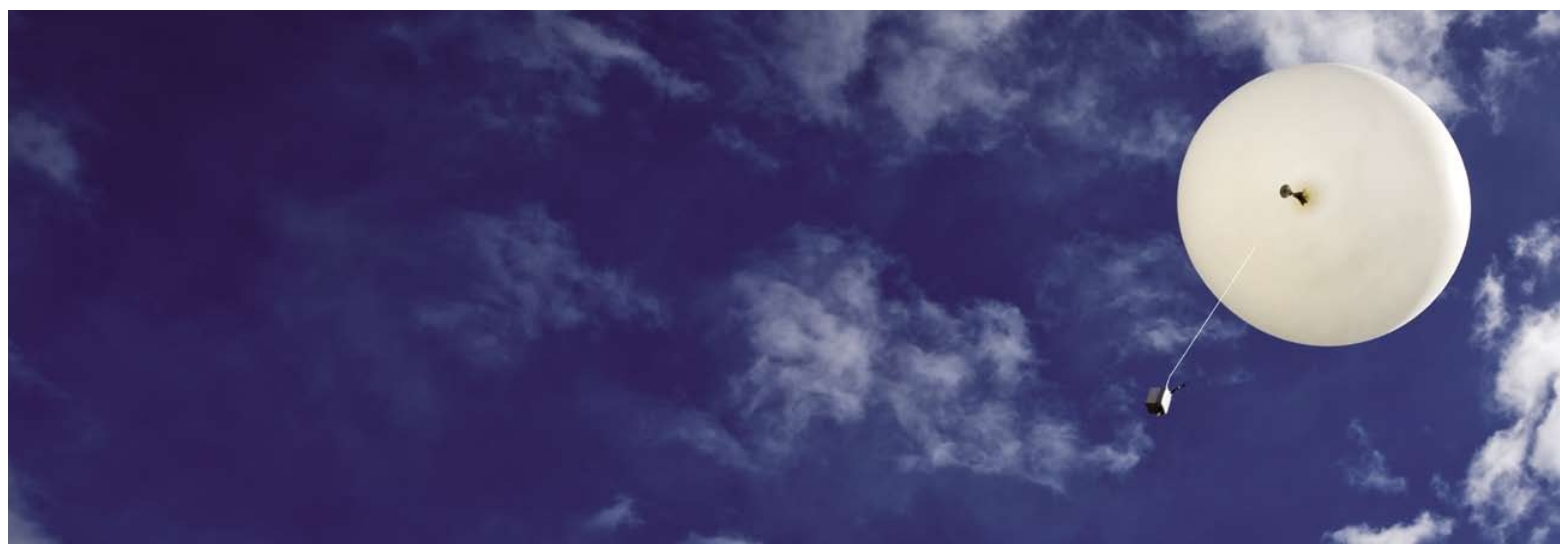
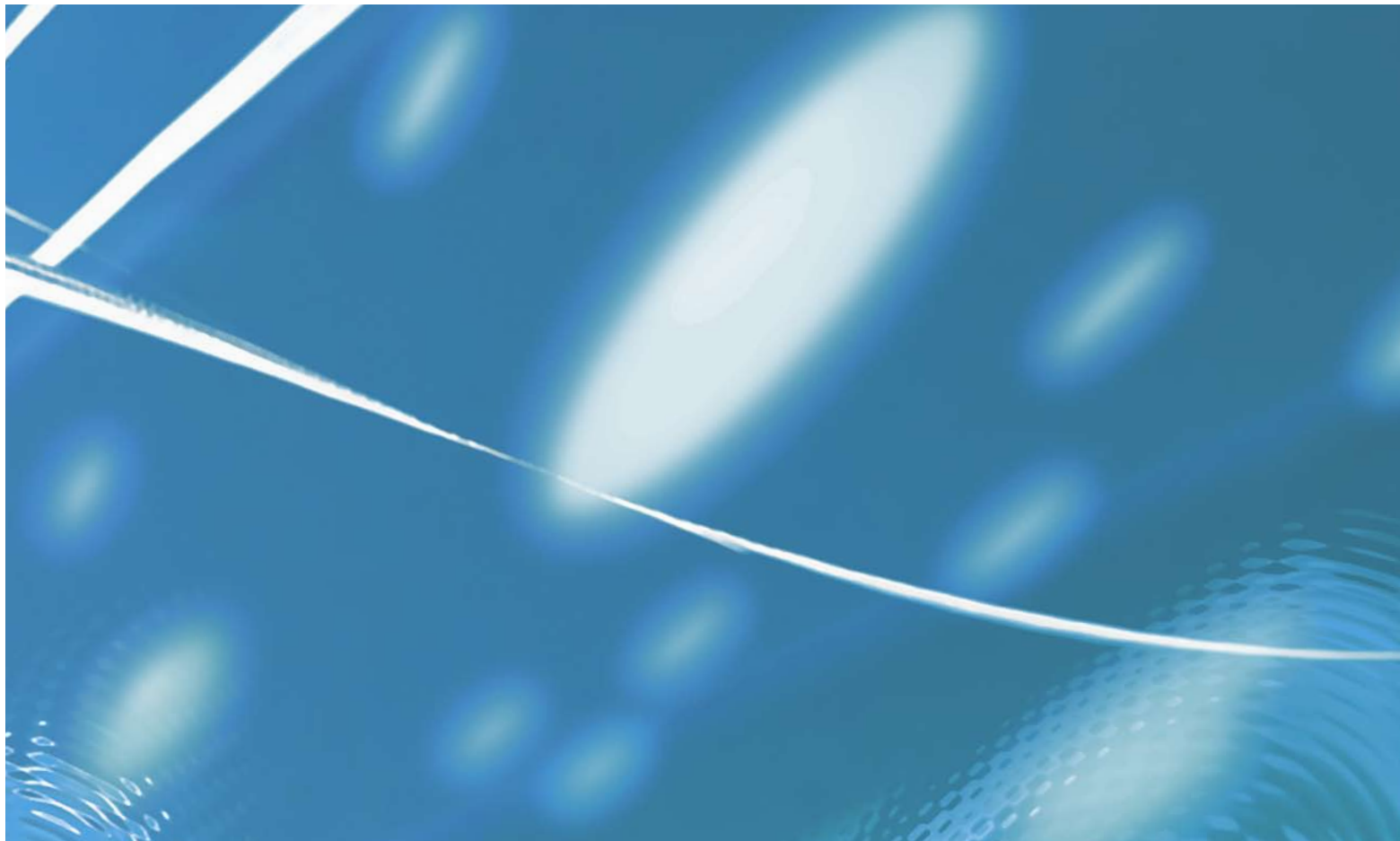
Our global service organization provides long-term three-level agreements: Upgrades and Maintenance, Spare Part Service and Emergency Calls. Optional services such as 24 hr Online Help and Annual Maintenance can be attached to any service package.

Our aim is to always offer superior performance through leading technology and constant innovation as well as rugged reliability and low lifetime costs. Our dedicated, customer-centric support is the global benchmark, proven by a large number of long-term partnerships, often spanning decades.



## Ensure tactical advantage

Capability for superior performance on the field is the key. With Vaisala, you retain an independent capability to create tactical advantages. And combat is always tactical.



# VAISALA

[www.vaisala.com](http://www.vaisala.com)

For more information, visit  
[www.vaisala.com](http://www.vaisala.com) or contact  
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