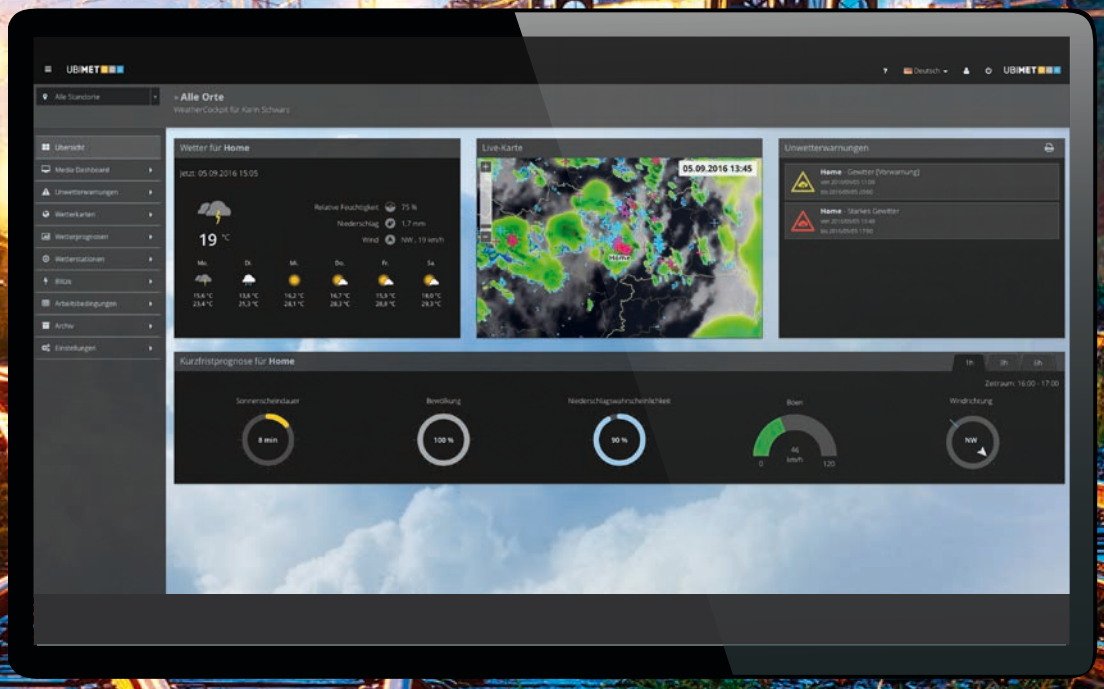
RAIL WEATHER COCKPIT®



HIGH-PRECISION FORECASTS FOR SAFE & COST EFFICIENT RAIL OPERATIONS

UBIMET
WEATHER MATTERS

YOUR CHALLENGES

DOES EXTREME WEATHER OR STRONG WINDS AFFECT TRAIN OPERATIONS?

DO WE NEED TO DISCONTINUE TRACK MAINTENANCE BECAUSE OF HOT WEATHER?

WILL CRITICAL RAILWAY LINE SECTIONS BE FLOODED?

WILL ICE ON THE CATENARY CAUSE DISRUPTIONS?

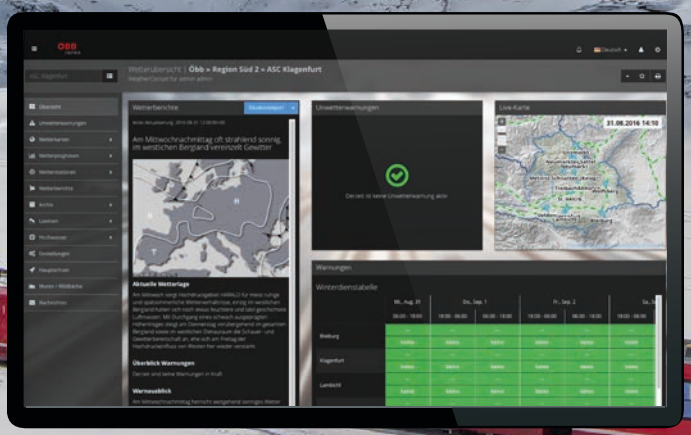
WILL SANDSTORMS CAUSE DRIFTS THAT MIGHT RESULT IN DERAILMENTS?

WILL ICE ON THE CATENARY CAUSE DISRUPTIONS?

OUR F

WEATHER MAP

- Real-time overview of current weather situation on all railway lines
- Instantaneous weather information on local phenomena and dangers
- 100% surveillance of ALL railway lines
- Ability to precisely identify every weather situation
- Reliable decision support system with 27,000 weather stations worldwide
- Initiate crew recall or re-crew notification as needed



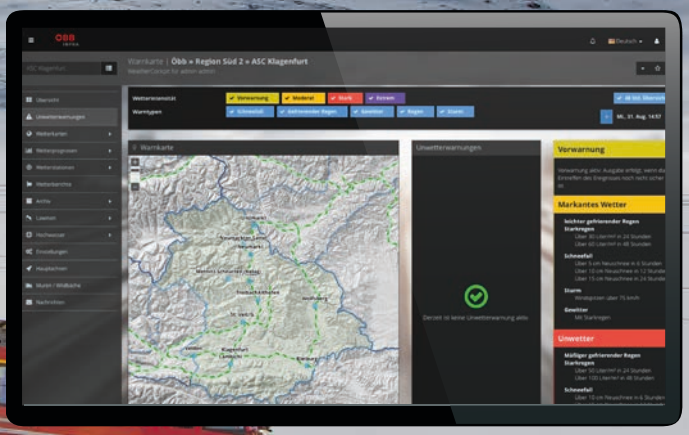
WINTER SERVICES PLANNING

- Optimized planning of winter services for all railway lines
- Automatic alignment with meteorological forecasts
- Displayed as green / yellow / red days in Rail Weather Cockpit®
- Decision Support System enables optimal winter service planning

EATURES

WARNINGS AND ALERTS

- Weather-related warnings when parameter thresholds are exceeded (e.g. wind, temperature, precipitation, snow)
- One consistent warning and alert system for the entire network
- Severe weather warnings provided by experienced meteorologists
- Ability to precisely define user groups receiving alerts
- Distributing warnings via e-mail and text message



WEATHER FORECASTING & PLANNING

- 3-D Rail Weather Model
- Weather forecasting for all railway lines
- Manage a large number of stations and employees
- Provide special forecasts for critical route sections
- Decision support for resource planning

YOUR BENEFITS

ENHANCE SAFETY

- Reduce the risk of weather-related accidents and incidents
- Prevent derailments and ensuing injuries and fatalities
- Establish network-wide warning system
- Reduce maximum speed or completely discontinue operation if required
- Enable proactive safety measures by early and accurate weather warnings
- Prevent damages to railcars and rail infrastructure
- Enhance overall sense of security

INCREASE EFFICIENCY

- Reduce weather-related delays
- Increase railway line availability by prompt countermeasures
- Enable operators to modify operations to forecast conditions
- Plan for rerouting, slowing, stopping or delaying operations
- Organize winter services (snow and ice removal) for smooth operation
- Initiate crew recall or re-crew notification as needed
- Anticipate disruptive events earlier
- Adapt resource planning to weather situation

REDUCE COSTS

- Optimize switch heating systems with weather data (less CO2/fewer costs)
- Reduce economic damages
- Economical resource planning
- Reduce additional costs resulting from over- or understaffing
- Optimize allocation of standby resources

UBIMET
WEATHER MATTERS

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ABOUT UBIMET

UBIMET is a leading commercial provider of precise meteorology services and severe weather warnings. The global company headquartered in Vienna, Austria has offices in Karlsruhe, Melbourne, Munich, New York and Zurich employing 250 staff from 25 nations. UBIMET provides high-quality meteorological data, forecasts and alerts enabling weather- dependent industries around the globe to increase safety and efficiency.

UBIMET's expertise and reliable weather solutions have convinced customers from industries such as aviation and rail, construction, energy, insurance, media as well as event organizers. UBIMET has delivered accurate weather data for Formula 1 teams since 2014.

The company was founded as a start-up by Michael Fassnauer and Manfred Spatzierer in Vienna in 2004. The two founders, driven by a passion for meteorology, are still the driving force behind the company today. Red Bull has been a strategic partner since 2012 expanding the company's global reach.

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