



VEDRA

The smart way to keep roads safe in any weather

PREDICT THE CONDITIONS, KEEP ROADS ACCESSIBLE!

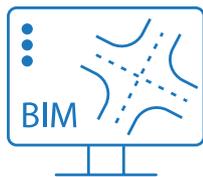
Do you want to know the weather conditions on the roads and how to keep them accessible even in bad weather?



VEDRA is one of the most advanced Road Weather Information Systems (RWIS) in the world. It gives you real-time and future insights into the road weather situation and helps you to make smart and timely decisions for road maintenance and operations. By using Vedra, you will be able to carry out preventive spreading, save on salt consumption and thus carry out winter maintenance more sustainably.

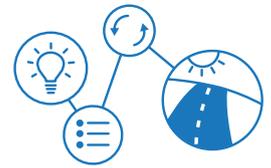
INOVATIVE TECHNOLOGY

VEDRA is a user-friendly mobile and web-based application that works also in the cloud. It is built on a modern technological platform that can handle big data and can integrate with BIM and digital twins of road infrastructure.



FROM WINTER ROAD MAINTENANCE TO YEAR-ROUND ROAD MANAGEMENT

VEDRA is a valuable tool for monitoring and managing the effects of weather on road conditions.



Due to increased number of unpredictable localized intense weather events, VEDRA can be used throughout the year. These events can cause hazards such as flash floods, windbreaks, landslides, fog, dust storms, or wildfires, which can affect road safety and traffic flow. VEDRA can also support the implementation of adaptive and resilient road infrastructure, which can reduce the impacts of climate change and extreme weather events on road networks.

Save Lives,
Environment,
and Money!



Intelligent solutions for natural and built environment



CGSLABS

MAIN FEATURES OF VEDRA:

- A user-friendly mobile and web-based application that works also in the cloud
- Supports different types of Road Weather Stations (RWSs), IoT sensors and mobile sensors mounted on the vehicle from various manufacturers
- Shows current weather conditions and alerts at RWS locations
- Provides innovative road temperature and road state (dry, wet, snow, ice, etc.) micro forecasts (Route Based Forecasts)
- Integrates with different nowcasting products
- Gives treatment recommendations (time, type, amount and place) for winter maintenance
- Manages resources (spreading materials, human resources, route planning, etc.)
- Offers a customized solution for your needs
- Connects with other systems (ITS, smart city, BIM, digital twins, etc.)

VEDRA IS NOT JUST A PRODUCT, IT'S A PARTNERSHIP

Choose VEDRA and experience the difference.

If you are looking for a reliable and innovative road weather information system, you should choose VEDRA by CGS Labs. Why? Because VEDRA offers you agility, flexibility and adaptability. CGS Labs can tailor its system to your specific needs and the road maintenance practices you have in your country. VEDRA is not a one-size-fits-all system. With VEDRA, you get a personal approach and responsive support from our dedicated team of experts. VEDRA is not just a product, it's a partnership. Choose VEDRA and experience the difference.

POSSIBLE FIELDS OF APPLICATIONS FOR ROAD WEATHER INFORMATION SYSTEM (RWIS) ARE:

Winter road conditions

RWIS can help monitor and forecast the weather and pavement conditions that affect road safety and maintenance during winter, such as snow, ice, frost, and black ice. RWIS can also help optimize the use of de-icing materials and equipment.

Wind monitoring on bridges, highways and railways

RWIS can help measure and communicate the wind speed and direction that can affect the stability and operation of vehicles and structures on bridges, highways and railways. RWIS can also help trigger alerts and warnings for high wind events.

Road flood monitoring systems

RWIS can help measure and communicate the water level conditions that can cause flooding on roads, especially in low-lying areas or near rivers. RWIS can also help trigger alerts and warnings for flash floods or road closures.

Visibility monitoring for sand and dust storms

RWIS can help measure and communicate the visibility conditions that can affect road safety and traffic flow during sand and dust storms, especially in arid regions. RWIS can also help trigger alerts and warnings for reduced visibility or hazardous driving conditions.

Wildfires and burn scar monitoring

RWIS can help measure and communicate the weather conditions that can affect the risk and spread of wildfires, such as temperature, humidity, wind, precipitation, and solar radiation. RWIS can also help monitor the post-fire recovery of vegetation and soil in burn scars.

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