

Lessons from the Road Monitor Project: How to Leverage Vehicle Data to Improve Mobility

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Road Safety



Winter Management



Infrastructure Asset Management

anonymised data



Collecting data from sensors, assistant systems and car-to-X

Project Road Monitor (ROMO)



LOT 1 ASSET MANAGEMENT

Traffic Signs
Surface Events
Road Waviness



LOT 2 WINTER MANAGEMENT

Slippery Roads
Micro Weather



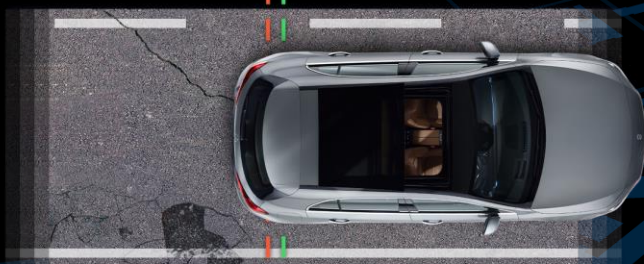
LOT 3 ROAD SAFETY

Hazard Warnings
ADAS Events &
Road Safety

LOT 1: Asset Management

SURFACE EVENTS

Latest information about surface events to detect damages and abnormal conditions.



TRAFFIC SIGNS

Digital twin of traffic signs with continuous updates.



Asset Management

ROAD WAVINESS (IRI)

Longitudinal waviness of road pavements according to IRI.



LOT 2: Winter Management

Micro Weather



Air temperature in degree Celsius, Rain intensity in levels based on wiper actuator.

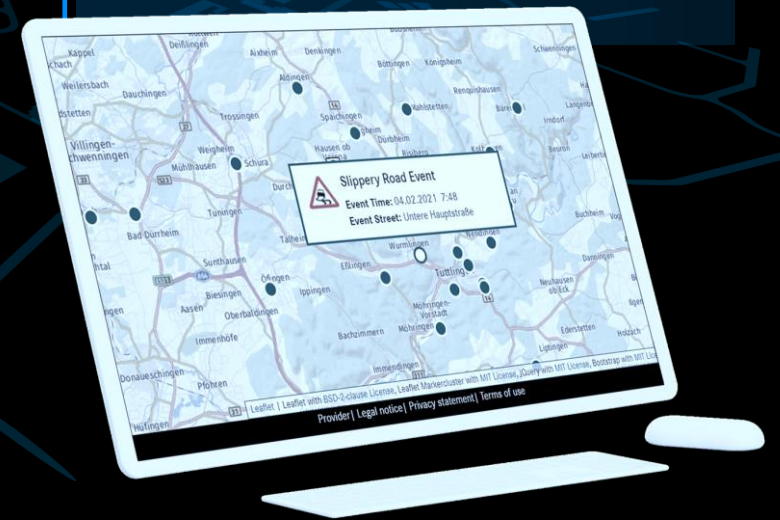


Winter Management

Slippery Road



Slippery road events in real-time with up to 5m-10m accuracy and direction of travel.



LOT 3: Road Safety

Road Safety Hotspots

Road safety algorithm that gives high quality insights into near-miss situations. With contextual information about the positions and trajectories of objects, customers can determine the cause of a hazardous situation.



Road Safety

C2X / Hazard Warnings

Aggregated event data on various safety incidents, including risky traffic situations and weather conditions.



Peak Regions

We extend road safety events and Car2X data to national roads and highways through Peak Regions. See where interventions accumulate at a glance.





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provincie fryslân 

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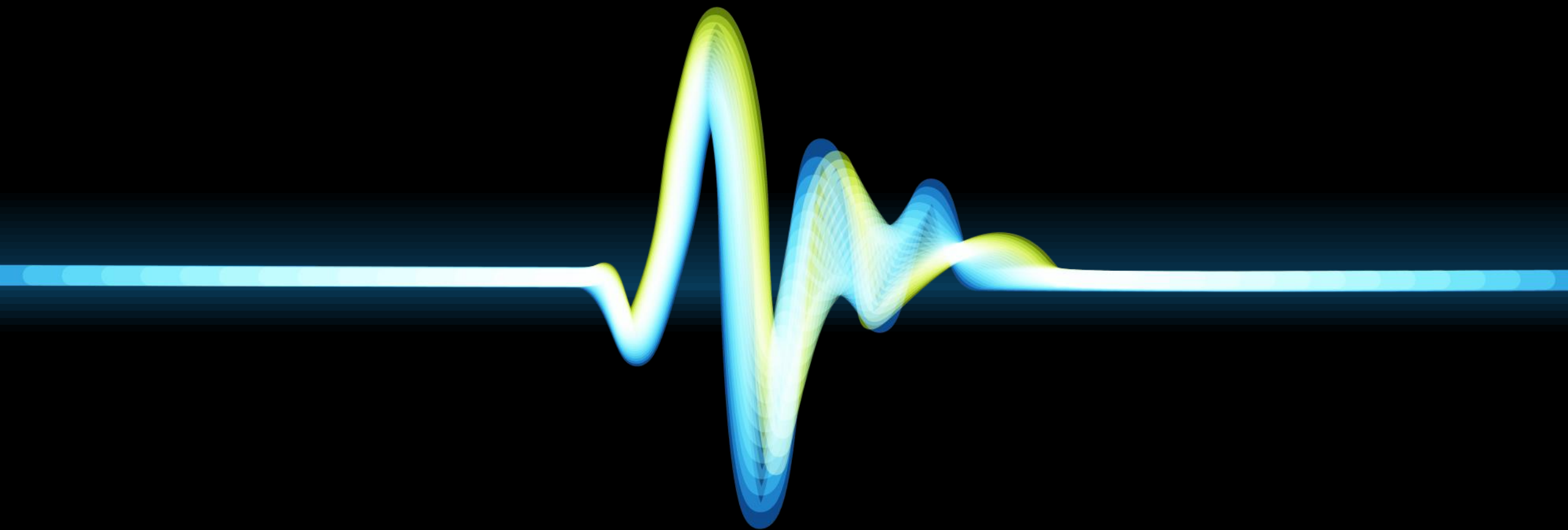


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Rijkswaterstaat

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Thank you

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