

All-weather Road Intelligence

Critical mapping of road passability for unsealed networks worldwide. Road section status, saturated hotspots and flooded locations provide essential data for managing disruption and keeping roads moving — high fidelity insights from satellite data and advanced analytics.



INSIGHTS

Passability status by road and road segment. Use with HDM-4 and ISO 55000.



COVERAGE

All geographic regions, globally, from local to national scale.



UPDATE RATE

Measurements and modelling deliver current conditions daily.

Detect earlier, respond faster, minimise disruption

- Faster response times to weather and flooding events.
- Fewer days of road closures.
- Detailed knowledge of passability and hotspot locations.
- Higher route confidence for freight and field operations.
- Removes the need for in-person or aerial surveys.
- Information to help achieve better safety outcomes.



Timely knowledge



Improved understanding



Better outcomes



Reduced cost



Aid to safety decisions

Fast onboarding, GIS-ready delivery and a clear path from small-scale pilot to full network rollout, delivered by the Fusion Platform® for fast, hassle-free adoption.

INPUTS

- Road network (geospatial vector).
- Road segment length for reporting (e.g., 100m)
- Passability categories (e.g., “open”, “4x4 vehicles”, “authorised vehicles”, “closed”).

OUTPUTS

- Passability maps by road and road segment (geospatial vector).
- Moisture and water maps (geospatial raster).
- Data report by road and road segment (CSV).

CORE CAPABILITIES

- Road moisture and flood mapping.
- Saturated and flooded hotspots.
- Passability scoring.
- Daily updates.

OPTIONAL ADD-ONS

- Water depth mapping on and around roads.
- Wider area flood mapping.
- System integrations (AWS S3, Google Cloud Storage, email, etc.)