

ACTIVE ASSET RISK MONITORING. FOREWARNED IS FOREARMED.

Photo: Copernicus Sentinel data (2015)/ESA

MONITOR & MITIGATE THE RISK OF INFRASTRUCTURE FAILURE WITH POWERFUL SATELLITE DATA ANALYTICS

At Rezatec, we help organisations mitigate asset risk and its associated costs, saving them money, enabling more efficient repair and maintenance and improving customer satisfaction. We do this through the analysis of Earth Observation data to accurately identify hotspots where there is an increased risk to assets due to terrain movement, vegetation incursion and other factors.

By monitoring areas on a regular basis, we can provide early warning of locations at risk of failure. This enables preventative action to be taken to avoid a catastrophic problem that could result in substantial repair, disruption and compensation costs. Not only that, but using Earth Observation data to monitor assets is significantly more cost-effective than relying only on ground-based assessment.



Rezatec

COST-EFFECTIVE MONITORING

Our satellite data derived products provide a complete and frequently updated picture of risk over vast and sometimes remote geographical areas, alleviating the need for labour-intensive ground observation resources. Using powerful data processing techniques and technology we can measure terrain motion to within millimetres, presenting an accurate picture of areas where ground movement could put infrastructure at risk of failure.

What's more, the data reveals potentially disruptive vegetation incursion, which can cause damage to assets. By incorporating other contributing factors, such as the nature and location of historic incidents, we are able to help identify where future issues are most likely to occur.



PRIORITISE, PLAN, PREVENT

With our sophisticated machine learning algorithms, we calculate an overall risk index that informs clients on where assets are most at risk from natural hazards such as subsidence.

Our analytics are presented as data layers in easy-to-understand maps, graphics and alerts, so it becomes immediately apparent where to prioritise maintenance activity and plan additional infrastructure investment.



SAVE

By efficiently monitoring assets using Earth Observation data, it is possible to make substantial savings on the cost of ground-based monitoring. Using this data to intelligently deploy ground resources enables a strong opportunity to reduce costs while keeping asset networks in great condition. Also, with our data to guide decision makers on where to carry out pre-emptive activities, failures that cause disruption, cost significantly more to repair and may require compensation payments can be prevented.

With asset risk monitoring from Rezatec it's possible to work more efficiently, reduce costs and make strategic decisions based on accurate landscape intelligence in order to ensure customer satisfaction.

