

PREDICTING LONG TERM TRENDS OVER THE ENTIRE ROAD AND BRIDGE NETWORK



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Planetek Italia – 28 years, one mission

Simplifying the complexity of Space











Roma



Bari



- Planetek Italia was founded in 1994
- 100+ employees, highly skilled in Geoinformatics, Space solutions and Earth sciences
- Rheticus[®] is owned and operated by Planetek



Instability and global challenge for maintenance

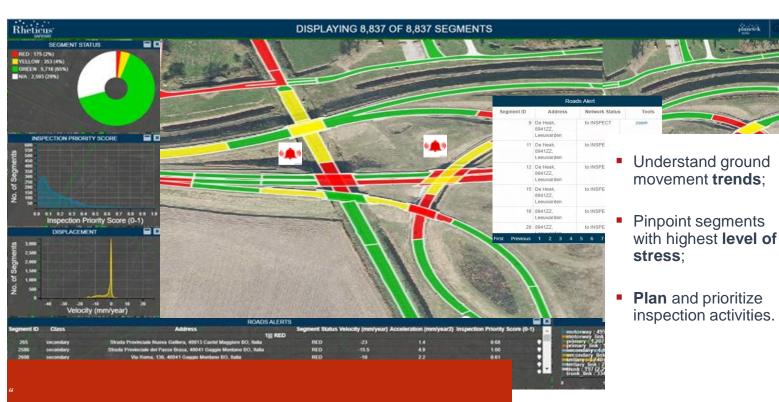


- Operators and authorities spend a lot of money fighting against structural problems due to natural or human-induced land instability;
- Land instability may cause structural damages and failures to roads and bridges, increased maintenance and repair costs, disruptions of service, accidents and casualties;
- Ground displacement is one of the best indicators for the likelihood of failure;
- The use of traditional techniques for periodic monitoring of wide networks requires considerable economic and time resources;
- The lack of predictive information about what/where to inspect requires accurate and long-term trends analysis over the entire territory and infrastructure operated.



Maintenance: from reactive to proactive

Red: Inspect Yellow: Monitor Green: Ok





How it works





GIS data of the infrastructure



ML/AI algorithms classifies roads and bridges



Rheticus® Safeway defines the priority list





End user



Bridging the gap between geo-specialists and operations

- Geospatial interactive dashboard with key indicators and alerts
- Historical time-series analysis and continuous updates
- Predictive analytics, actionable information
- Cloud-hosted info-as-aservice subscrition

Rheticus Services



Transportation



Utilities



Insurance / Property Management



Natural Risk Management



Use cases



"Rheticus provides different levels of information, from the territory to each building and transportation infrastructure. It gives us invaluable assistance with stability analysis of the slopes, tracking emerging trends and anomalies, and damage prevention".

Antonio Bratus, Dept. of Soil Protection, Friuli Venezia Giulia Region, Italy



"The Rheticus Safeway service gives us the opportunity to monitor in real-time the dynamics of ground movements and identify the most critical points on roads, viaducts and bridges"

Chiara Gardini, Responsabile Area Infrastrutture Città Metropolitana di Milano (metropolitan city of Milan)



"Rheticus Safeway to improve the management of the complete cycle of design, maintenance and control of the highways and roads".







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Let's start monitoring your infrastructure from space, today!





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Thank you!