

SATELLITE-BASED  
MONITORING  
SERVICE  
OF WATER AND  
SEWER NETWORKS



**Rheticus**<sup>®</sup>  
NETWORK ALERT

# SATELLITE MONITORING FOR UTILITIES AND MULTI-UTILITIES OPERATORS.

Avoiding network breakdowns through **proactive maintenance** is one of the main goals of network operators.

With prevention, you can reduce maintenance costs, improve the service, ensure people's safety, and protect the environment and assets. An effective proactive maintenance can be achieved by promptly identifying the stressed network segments and activating inspection teams **before the network collapses**.

To help maintenance teams act proactively, we have simplified complex radar satellite analysis and made available actionable information through an intuitive interface.





# INDUSTRIES.

- UTILITIES
- ENGINEERING & CONSTRUCTION
- AUTHORITIES & SMART CITY
- INSURANCE AND FINANCE



# RHETICUS<sup>®</sup> NETWORK ALERT.

## **Proactive maintenance of water and sewer pipelines network.**

Rheticus<sup>®</sup> Network Alert improves water and sewer networks' maintenance activities, providing actionable reports of critical pipe segments to prioritize inspection activities and improve inspection efficiency. Using ground subsidence as an indicator for the likelihood of failure, the service enables predictive analysis to prevent structural failures. The millimeter-scale ground movements are calculated and updated through the satellite's radar data processing. The service offers an update and complete view of the entire pipeline network through actionable reports and geoanalytics. Inspections and maintenance activities are thus scheduled more efficiently and simplified as a whole. With Network Alert, you will unlock cost-effective water-supply and sewer network management.

# BENEFITS



**ENHANCE PROACTIVE NETWORK  
MAINTENANCE CAMPAIGNS**



**QUICKLY ORGANIZE FOCUSED INSPECTION  
ACTIVITIES BASED ON PREDICTIVE ANALYSIS**



**GET UP-TO-DATE AND ACTIONABLE REPORTS,  
ANALYTICS, AND TIMELY ALERTS**



**SAVE BOTH TIME AND MONEY**

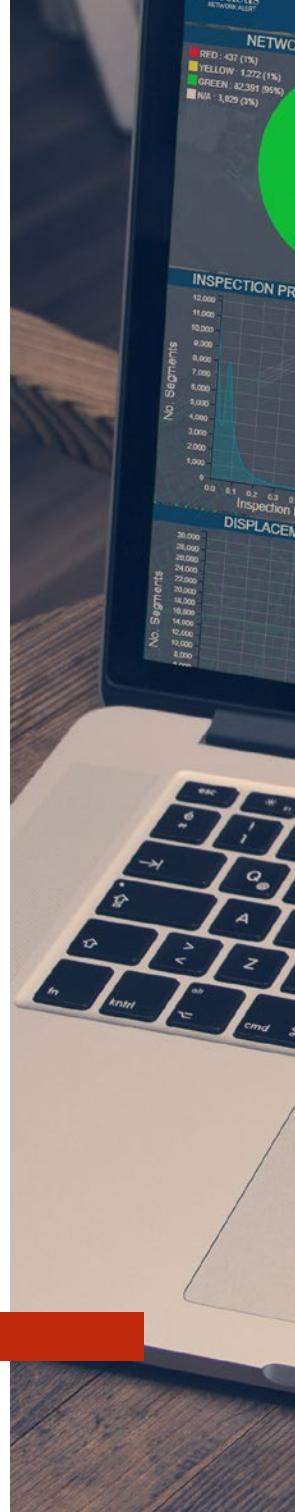


# ACTIONABLE INSIGHTS FOR YOUR BUSINESS.

Developed with satellite technology, Rheticus® Network Alert regularly provides information on the network segments with a high level of damage.

The periodic reporting highlights the network sections on which further inspections have to be addressed to check the pipeline's integrity.

The service is available as a dynamic dashboard or periodic report containing detailed information about the user's network status.



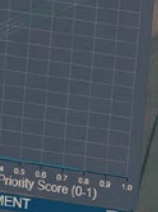


DISPLAYING 87,129 OF 87,129 SEGMENTS

planetek  
Italia

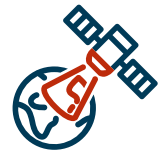


PRIORITY SCORE



Segment ID	Address	Segment Status	Velocity	Inspection Priority
37896		RED		0.76
226		RED		0.80
837	Woonφβηλαφφ	RED		0.75
850	Γαλαταφφ	RED		0.74

# FROM SATELLITE TO YOUR HANDS IN 4 STEPS



Satellite image acquisition



Constantly updated information, ranging over the whole area of interest



Accessible, easy-to-read, and actionable report




Field investigation



# EVERYTHING UNDER CONTROL.

**Rheticus® Network Alert** platform offers a synoptic view of the water and sewage network. According to the level of stress, the tool splits the pipelines into 3 sections: in green the stable segments, in yellow those to be monitored, and in red the segments to be inspected. Each section is associated with a graph showing the historical trend of the movements, the speed and acceleration of the movements, and the priority score referring to the need to carry out field inspections. The full information is available through the interactive geoportal available 24/7 from any device.







Subscription-based



Synoptic-dynamic  
network overview



User-friendly  
interface, comprising  
dynamic maps,  
timely insights, and  
actionable reports



Predictive analysis  
based on historical  
radar satellite data



Continuous  
monitoring of the  
selected water  
supply network



Cloud-based and  
available from  
any device, 24/7

# GATHER COMPETITIVE INTELLIGENCE, NOW.


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Many users have already discovered the benefits of Rheticus® Network Alert. Search our website for our customers' success stories and learn about the benefits of integrating Rheticus geoinformation services in your management and operational activities.

For commercial and technical support, you will always count on our global team of authorized distributors and on Planetek Italia's experience of over 25 years. Gather geospatial intelligence, now. Contact us or request a demo.

The background of the slide features a close-up, high-angle shot of water with numerous bubbles and ripples, creating a textured, blue-toned surface. A solid red horizontal bar is positioned in the upper right quadrant. On the left side, there is a vertical orange bar that partially overlaps a white rectangular area containing text.

## WHAT CUSTOMERS SAY

A solid orange horizontal bar is located below the section header.

Thanks to Rheticus® Network Alert, we detected 40% more critical segments. This confirmed the goodness and effectiveness of the approach adopted to prevent damage to the sewage system. We found the radar satellite interferometry the most accurate and convenient detection method to prevent and detect potential breaks to the sewage and water networks.

***Paolo Gelli, HERA Group***



# Rheticus<sup>®</sup>

monitoring the evolution of our earth

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Developed by



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