

A low-angle, upward-looking photograph of several modern skyscrapers with glass facades. The buildings are illuminated from within, and the sky is a deep blue, suggesting dusk or dawn. The perspective creates a sense of height and scale.

SATELLITE-BASED MONITORING OF BUILDING STABILITY

The logo for Rheticus Building Check. It features a white rectangular background in the bottom right corner. Above the text is a decorative horizontal line of red squares of varying sizes. The word "Rheticus" is written in a large, dark blue serif font, and "BUILDING CHECK" is written below it in a smaller, red, all-caps sans-serif font.

Rheticus[®]
BUILDING CHECK

MONITORING THE STABILITY OF BUILDINGS AND INFRASTRUCTURES.



Land instability can cause severe damages to infrastructures, and it poses a threat to citizen safety. Under the pressure of anthropogenic activities and climate change, the intensity and frequency of catastrophic events are overgrowing.

It becomes more and more critical for planners, engineers, and surveyors to have effective monitoring systems and act proactively to protect the environment, public and private assets, and people.





INDUSTRIES.

- **ENGINEERING AND CONSTRUCTION**
- **AUTHORITIES AND SMART CITY**
- **INSURANCE AND FINANCE**



RHETICUS[®] BUILDING CHECK.

Monitor buildings and facilities stability.

Rheticus[®] Building Check algorithm provides predictive analysis of any building movement patterns within your area of interest while also timely tracking any anomaly and its evolution over time.

Building Check delivers periodic reports based on constant monitoring that allows quick detection of structural instability, saving both lives and buildings.

BENEFITS



ENHANCE LAND AND URBAN INFRASTRUCTURE MONITORING



**GET UP-TO-DATE SYNOPTIC VIEW OF LAND
AND BUILDING INSTABILITY RISKS**



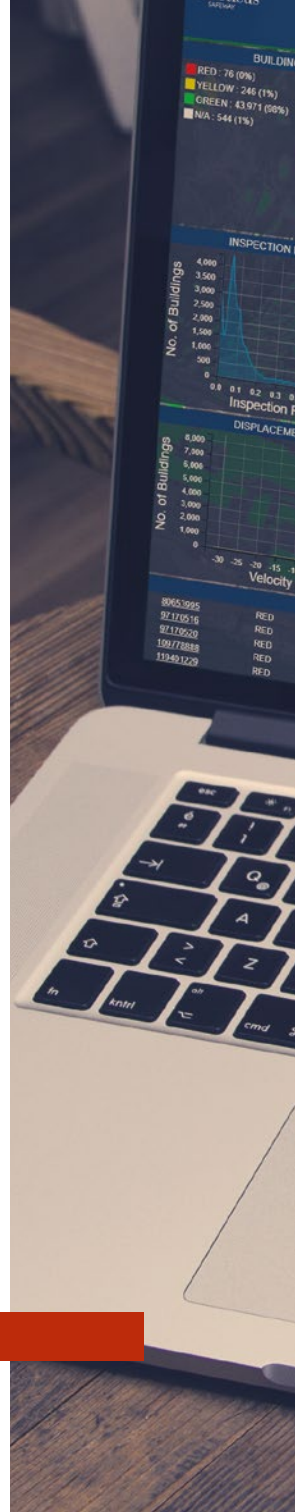
GET SMART ACTIONABLE REPORTS, ANALYTICS, AND MAPS



SAVE BOTH TIME AND MONEY

ACTIONABLE INSIGHTS FOR YOUR BUSINESS.

The classification is made by detecting and measuring with satellite InSAR techniques millimeter object and ground surface movements due to slow landslides and/or subsidence both natural and induced by human activity. The synoptic view of the area of interest is completed by a multi-year historical analysis of the movements. The report contains indicators and summary maps and provides an easy-to-read cognitive framework that allows users to make quick and informed decisions. The entire information content is accessible in a simple and intuitive way through the geoportal accessible 24/7.





DISPLAYING 44,837 OF 44,837 BUILDINGS

planetek
Italia

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® Building Check provides an updated knowledge of buildings' level of stability and detailed information of the ground surface movements over time.

The buildings are classified according to the intensity of displacement and acceleration over time measured by satellite and themed in 3 attention classes: green, yellow, and red.

The data periodically updated according to the user needs is provided as a PDF report or can be retrieved and explored from the Rheticus® geoportal.





Up-to-date and standardized insights on land use/land cover changes



Synoptic and detailed view of urban dynamics



Previous expertise with GIS or Earth Observation Data is not required



Pinpoint unstable areas, improving safety and planning



Enhanced land monitoring and reporting



Cloud-based

GATHER GEOSPATIAL INTELLIGENCE, NOW.

Many users have already discovered the benefits of Rheticus® Building Check. 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.

WHAT CUSTOMERS SAY

Indonesian users refers Rheticus ground deformation and building maps offer great insight into how the land surface has changed and are essential for Indonesia to redevelop effectively”
Paolo Manunta, ESA on-site support to the Asian Development Bank.

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ESA on-site support to the
Asian Development Bank***





Rheticus[®]

monitoring the evolution of our earth

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Developed by



planetek
italia