



SATELLITE-BASED MONITORING OF BUILDING STABILITY



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



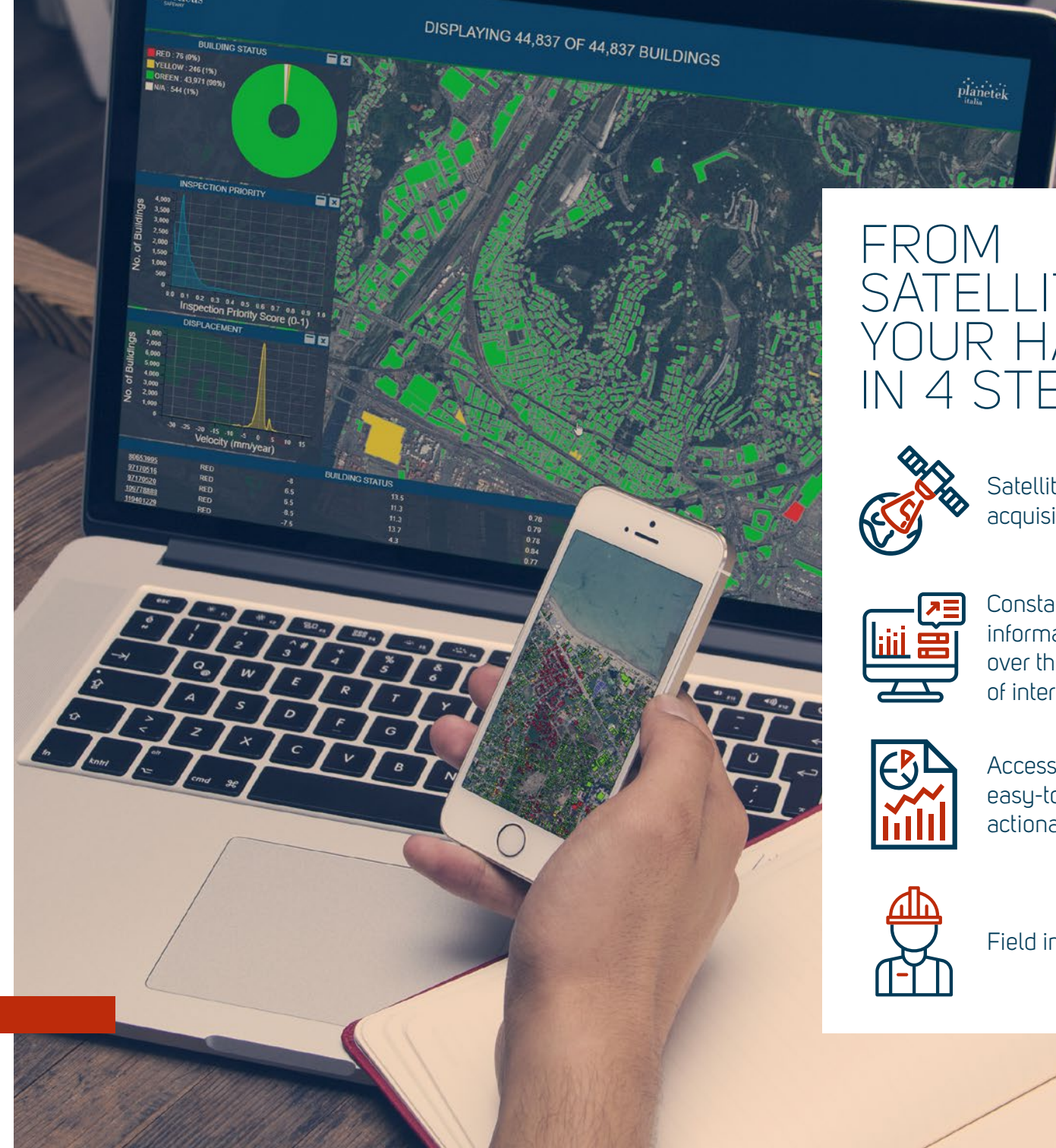
GET SMART ACTIONABLE REPORTS, ANALYTICS, AND MAPS



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.



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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Asian Development Bank***





INFO@RHETICUS.EU | WWW.RHETICUS.EU



Developed by

