

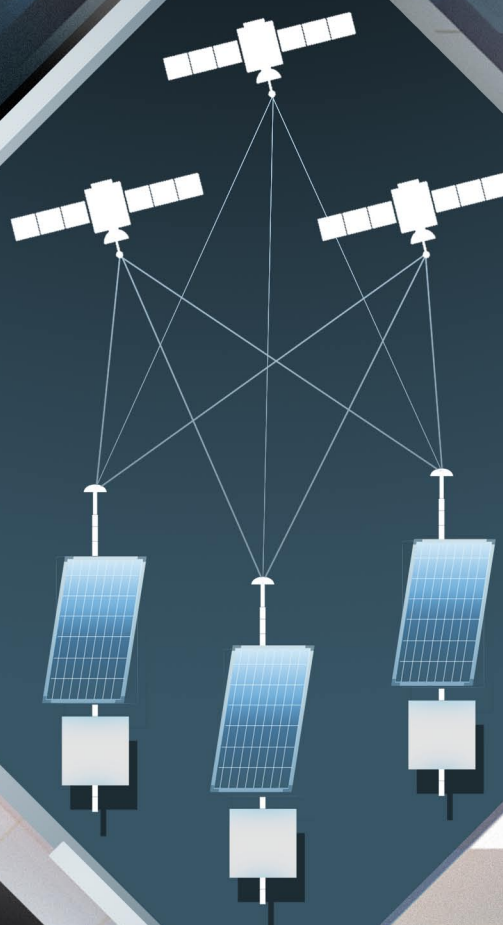


# GLOMON

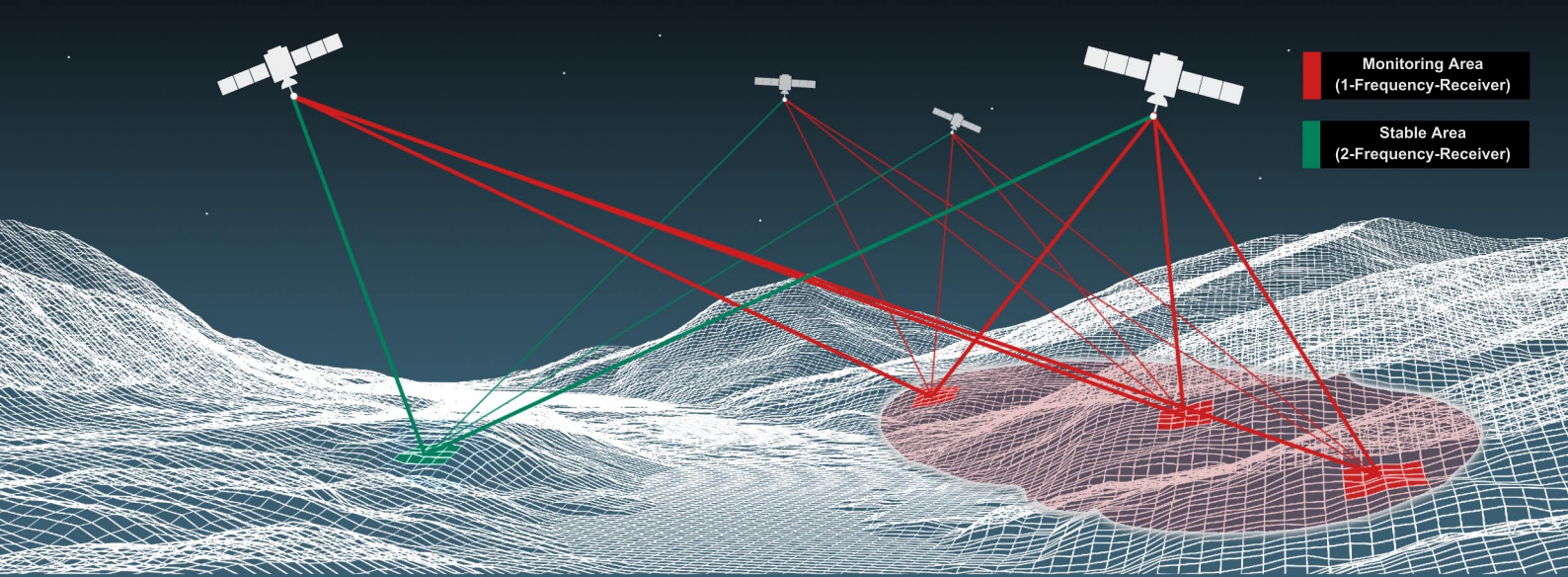
S A F E T Y   C A N   B E   M E A S U R E D

## Global Monitoring of Deformations

A System Solution  
based on Experience







## Global Monitoring of Deformations

### Areas of use

- Automatic measurement of smallest deformations – surface movements of the earth and man-made structures;
- using cost-efficient 1-frequency GNSS receivers with mobile connectivity;
- with low power consumption and a weatherproof housing, that give a flexible use in almost all monitoring applications with good availability of satellite signals with independent power supply based on photovoltaics.

### Functionality

- Fully automated calculation of three-dimensional vectors and coordinates for each GNSS monitoring station using GEO ++ and/or WaSoft or postprocessing software;
- related to one or more precisely known remote GNSS reference stations, located in the neighbourhood of the monitoring objects.
- Deformations will be detected with millimeter accuracy and highest reliability.
- Visualization of 3-dimensional vectors and coordinates, coded with a time stamp for each monitoring station and related to a Zero epoch when observation started or restarted, shown as time series in our web-based GLOMON portal.
- Analysis of correlation with meteorological values collected in the monitoring area
- and storage of all raw data for re-processing and preservation of evidence
- with a flexible user management enables access for different user groups

### Alarming and Preservation of Evidence

- GLOMON allows for an alarming management with individual settings of thresholds and warnings. In case of such alarming events, an authorized group of persons responsible can be informed via dashboard, via e-mail or SMS;
- so that preventive measures for humans and infrastructure can be initiated as fast as possible.
- Stability and smallest instabilities can be proven and demonstrated using (GNSS-based) monitoring systems,
- with ease-of-use to configure reports, generated automatically within a definite time interval, in order to regularly inform authorized personnel about the status of each monitoring station, as well as about the dynamics within the monitoring area.



## Services



### Installation and operation

ALLSAT may be responsible for full design, for installation and for operation of the monitoring system.



### Analysis

GLOMON enables automatic processing of GNSS data for results with highest precision and accuracy. Additional geodetic and geotechnical sensors can be integrated into GLOMON upon request. Our chart analysis tools allow for the detection of smallest deformations.



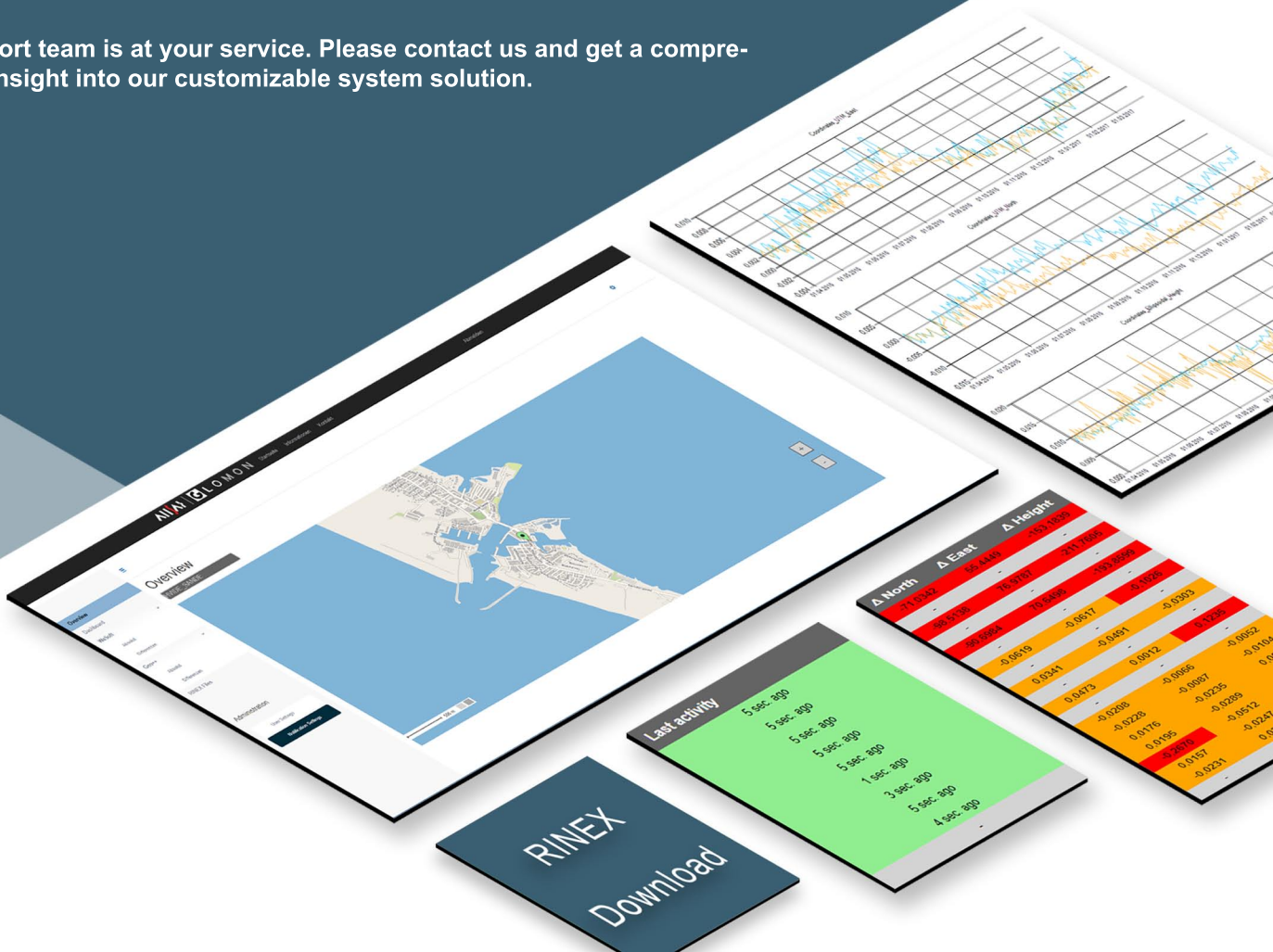
### Alarming

User information may be organized via dashboard, e-mail address or SMS, whenever pre-set limits have been reached or exceeded, as soon as data processing is finished.



### Support

Our support team is at your service. Please contact us and get a comprehensive insight into our customizable system solution.





Request a Test Version

<https://www.global-monitoring.net>

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