

ABOUT US

The Norwegian Geotechnical Institute (NGI) has conducted geotechnical research and consulting worldwide for 70 years. Kongsberg Satellite Services (KSAT) is the world's leading supplier of Ground Network Services with a renowned earth observation operation.

Together, NGI and KSAT deliver a comprehensive InSAR service based on a streamlined collaboration for optimal data integration and optimization. The result is the unmatched ground monitoring service, Inio, where NGI and KSAT deliver the entire value chain from data acquisition to geotechnical analysis and risk assessment.

What is InSAR ?

InSAR is the science of extracting phase differences from electromagnetic radar signals enabling satellite observation of ground movements with millimeter-scale precision. The large footprint of the radar signal enables the tracking of spatial variations in movement over kilometers. The continuity of these images makes it possible to track movement over years and can help map past and future ground stability.

NGI and KSAT strive to elevate the use of the technology today to help ensure the stability of industry operations and enhanced societal safety.



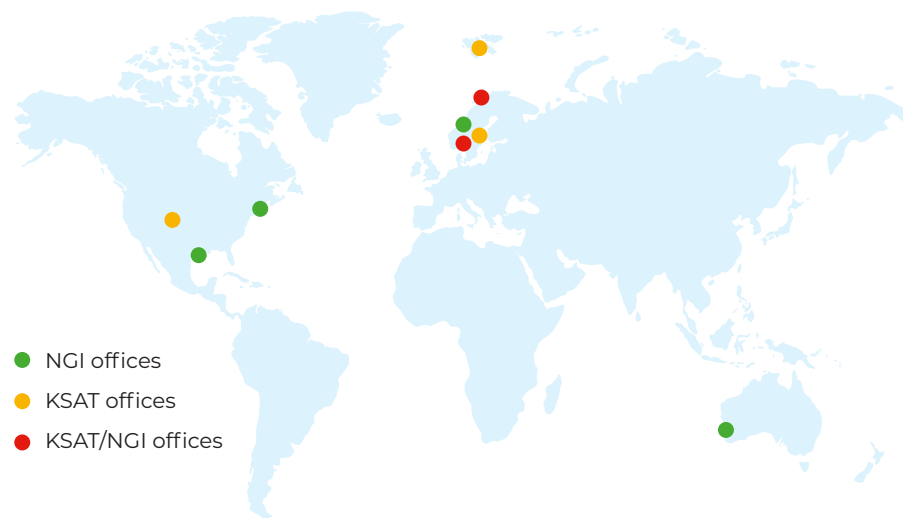
Inio is a service provided by NGI and KSAT with main offices in Oslo and Tromsø

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inio

Ground monitoring from space

by leading experts in geotechnical monitoring and earth observation

inio.ai



NGI

KSAT

KONGSBERG
KONGSBERG SATELLITE SERVICES



A complete land monitoring service focused on providing maximum value to clients worldwide saving costs and mitigating risk.

1 Everything streamlined for geotechnical analysis

Remote sensing team works directly with and develops our solutions for geotechnical consultants.

2 We have expertise in all methods of monitoring

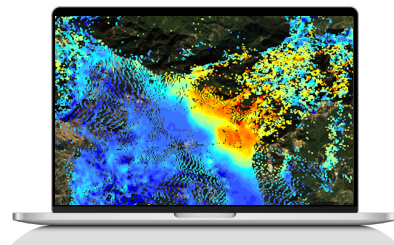
We can advise you on the best monitoring solution and will only sell you what will maximize value.

3 You only communicate and work with experts

Direct access to the inio team to ensure optimal data analysis and results.

PROVIDING QUALITY

Quality ground motion tracking requires high expertise. Inio is the ideal service seamlessly provided by leading expertise within earth observation and geotechnics.



Instant access to most recent satellite analysis through a powerful web interface for InSAR data interpretation by customers and NGI expert geotechnical engineers.



SAVING COSTS & REDUCING RISK

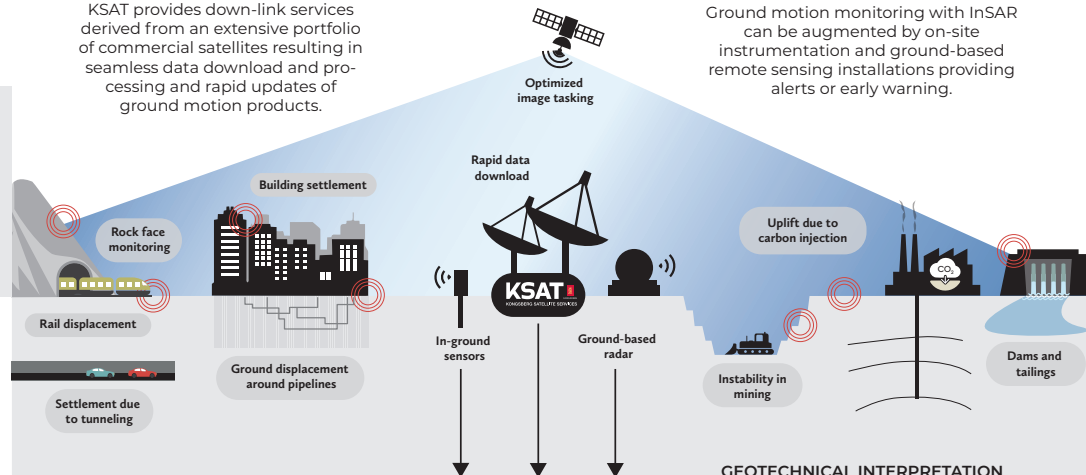
Small movements of the ground can be indicative of instabilities that can lead to costly or hazardous conditions. Early detection by satellites (InSAR) can help mitigate risk and save costs.

SERVICE

FAST DATA DELIVERY

Inio provides data through KSAT's global antenna network

KSAT provides down-link services derived from an extensive portfolio of commercial satellites resulting in seamless data download and processing and rapid updates of ground motion products.



ANALYSIS AND DELIVERY

The newest InSAR data is rapidly processed and made available in the client web interface enabling best possible decision-making at any given time.

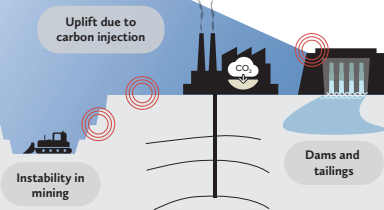


Consulting by geotechnical engineer

DATA INTEGRATION

Inio integrates sensor data from live monitoring in the analysis

Ground motion monitoring with InSAR can be augmented by on-site instrumentation and ground-based remote sensing installations providing alerts or early warning.



GEOTECHNICAL INTERPRETATION

NGI provides expert geotechnical consulting based on InSAR data

We help you understand the underlying causes and geological conditions responsible for the motion. We provide expert consulting on risk assessment and mitigation efforts.



Live monitoring by installed sensors on-site

APPLICATIONS

We have 15+ years experience providing InSAR monitoring for a variety of geotechnical applications seamlessly integrating InSAR results with on-site instrumentation and live monitoring. We utilize InSAR in combination with geotechnical data to enhance the expert consulting by NGI.



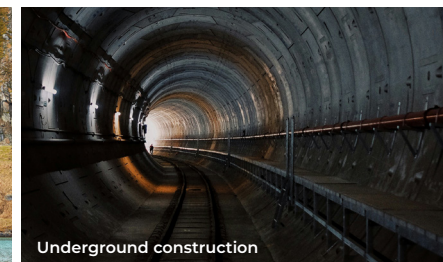
Dams and tailings



Infrastructure



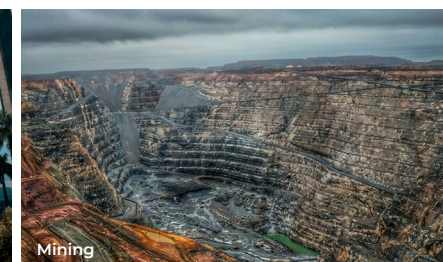
Landslides



Underground construction



Urban settlements



Mining