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Infrastructure monitoring nowadays

IS NOT EFFECTIVE!



Outdated information or structures not monitored at all

Bridges, dams, urban areas are not under vital surveillance



Under potential risk

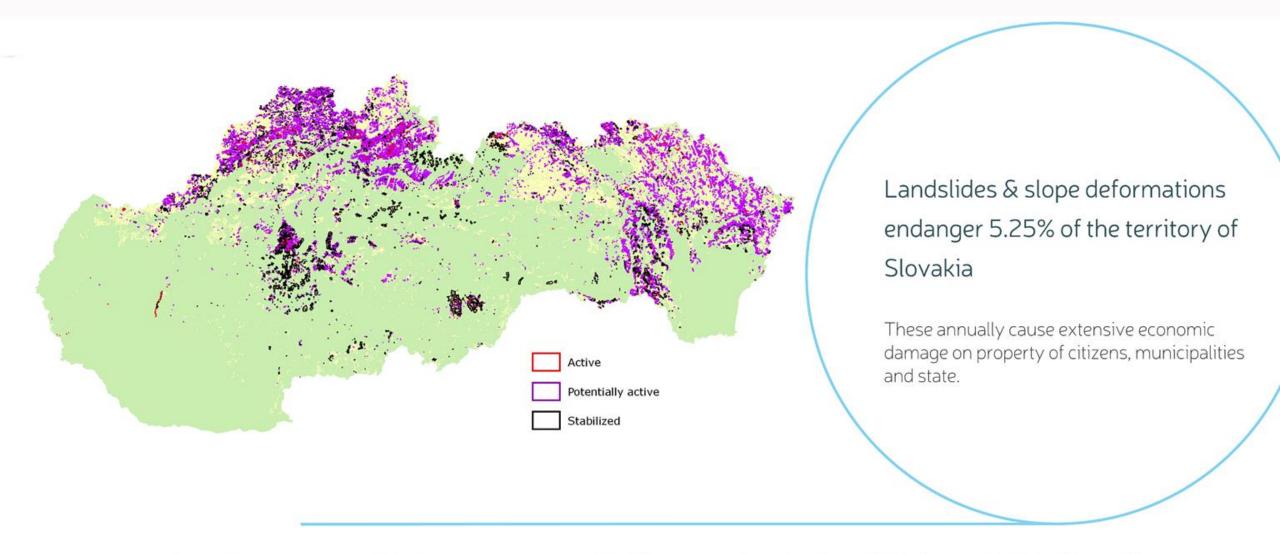
Lots of structures are build on or in close vicinity to hazardous slopes



Expensive in-situ monitoring

Terrestrial measurements are costly in terms of equipment and manpower

NATURAL HAZARDS? insar.sk



Average economic loss per year in Europe due to landslides ~ 4.7 billion €

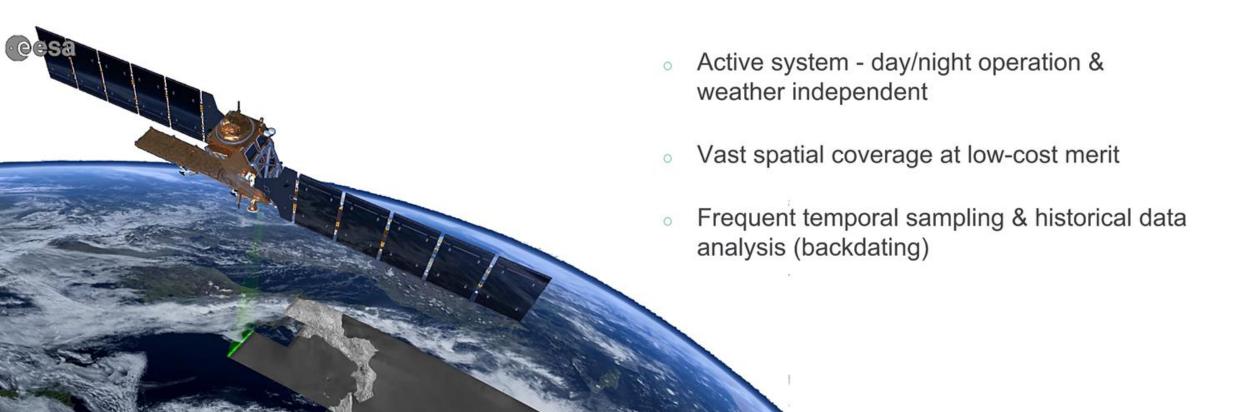


Monitoring of structures & infrastructure stability using remote sensing technology.

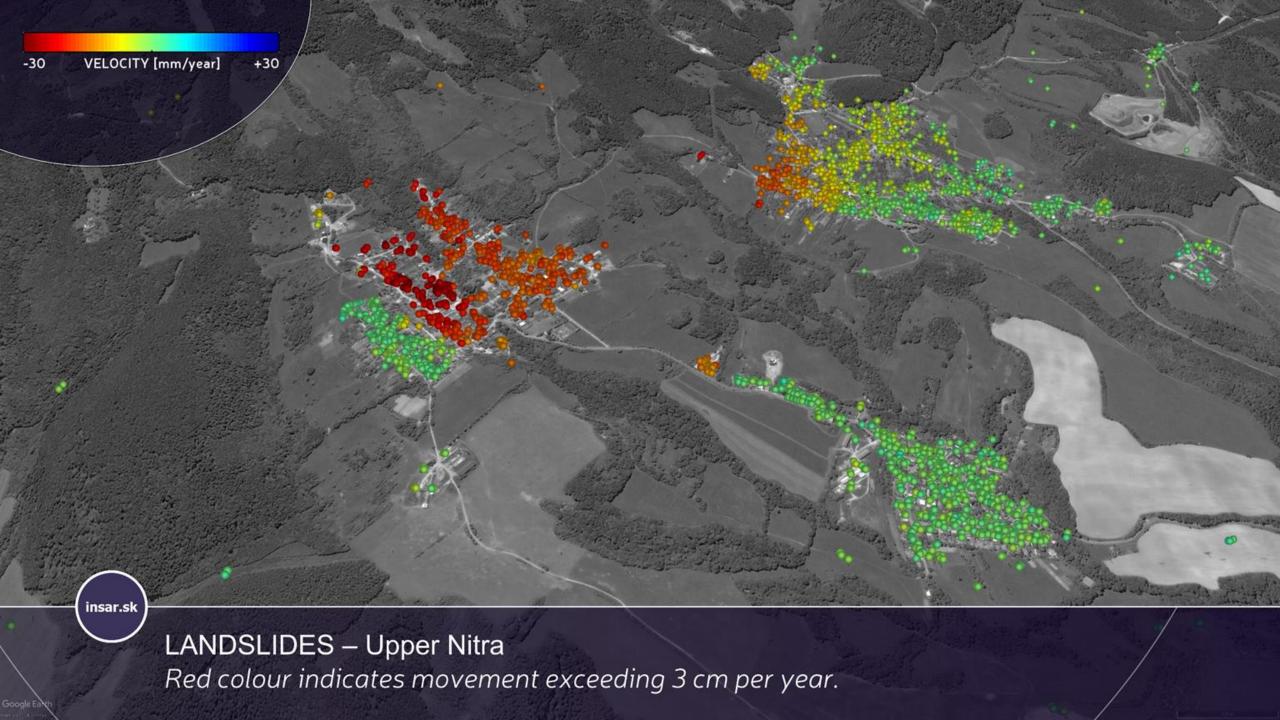
Situation awareness during evolving deformation processes like landslides, building collapses, highway disruptions, dam failure, etc.

Our customers are protected in the face of a natural or man-made disasters.

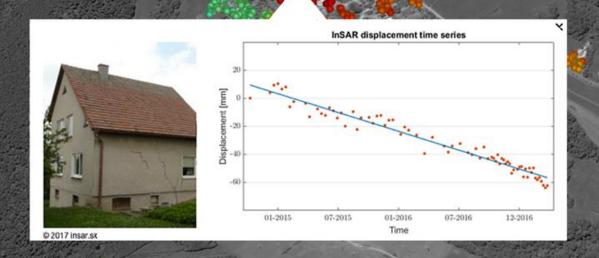
INterferometric Synthetic Aperture Radar







LOCATED AND CONFIRMED PROBLEMS ON THE GROUND!



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LANDSLIDES – Upper Nitra

Red colour indicates movement exceeding 3 cm per year.

WORLDWIDE OPERATIONS

Our Experience





WHAT WE DO HERE

MONITORING OF:

- URBAN AND SUBURBAN AREAS
- LANDSLIDES, SUBSIDENCE, UNDERMINED AREAS
- BUILDINGS, BRIDGES, HIGHWAYS, RAILWAYS,
 DAMS, SURFACE MINES
- DEPOSITS OF MINERAL RESOURCES

Geological surveys ······

Energy industry ·····

Mining corp. · · · · · · · · · · · ·

Civil Engineering

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MARKET OPPORTUNITY

···· Construction industry

····· Transport industry

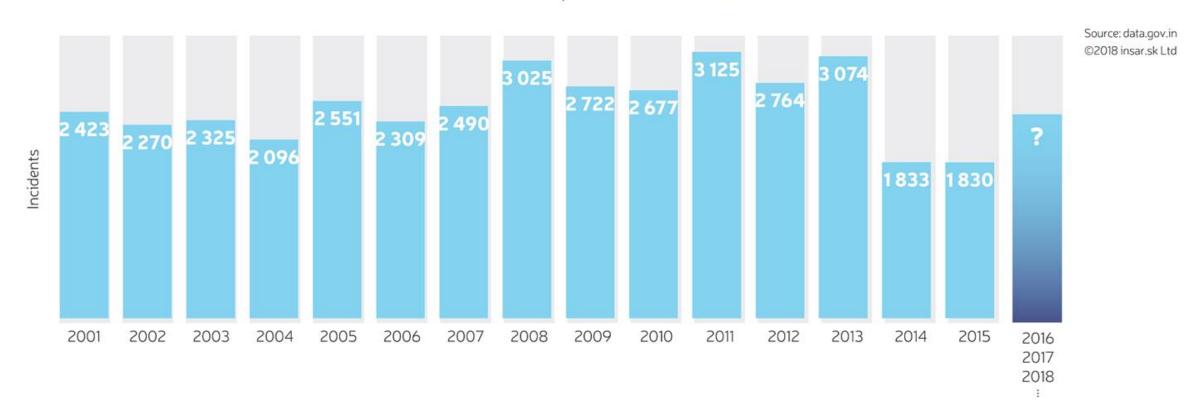
····· Urban planners

····· Dam operators

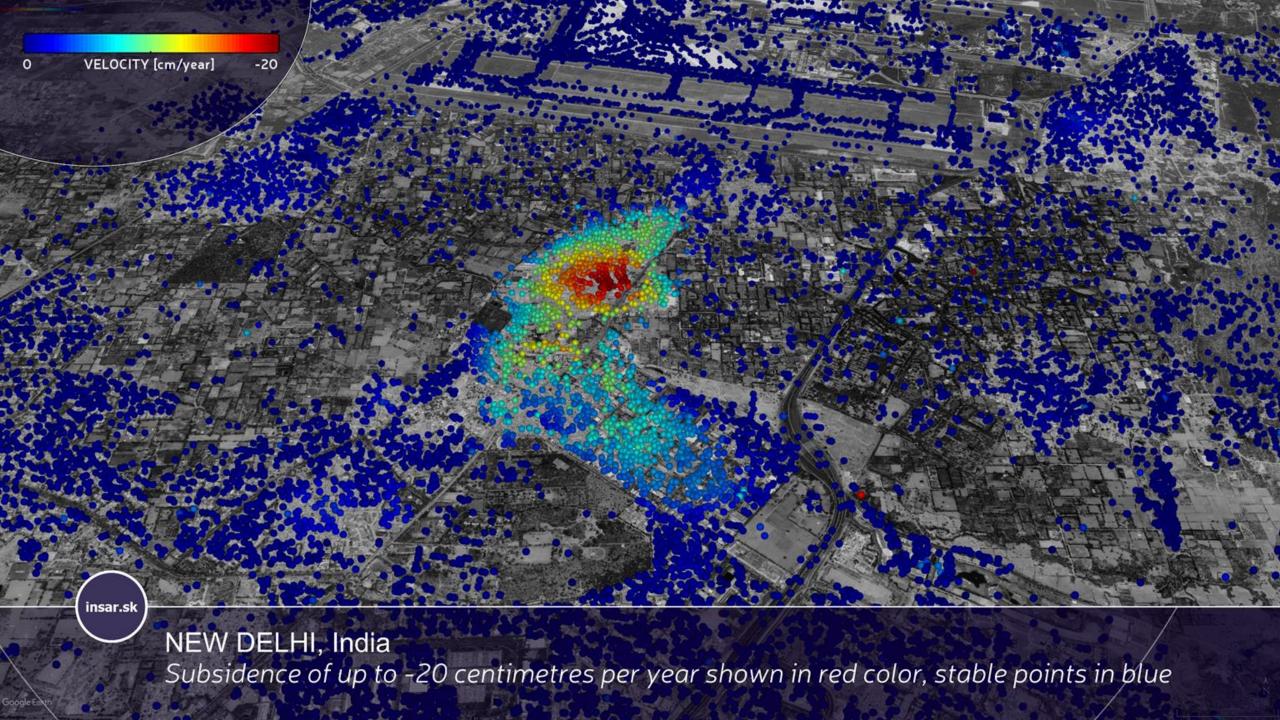
····· Water management facilities

Number of incidents

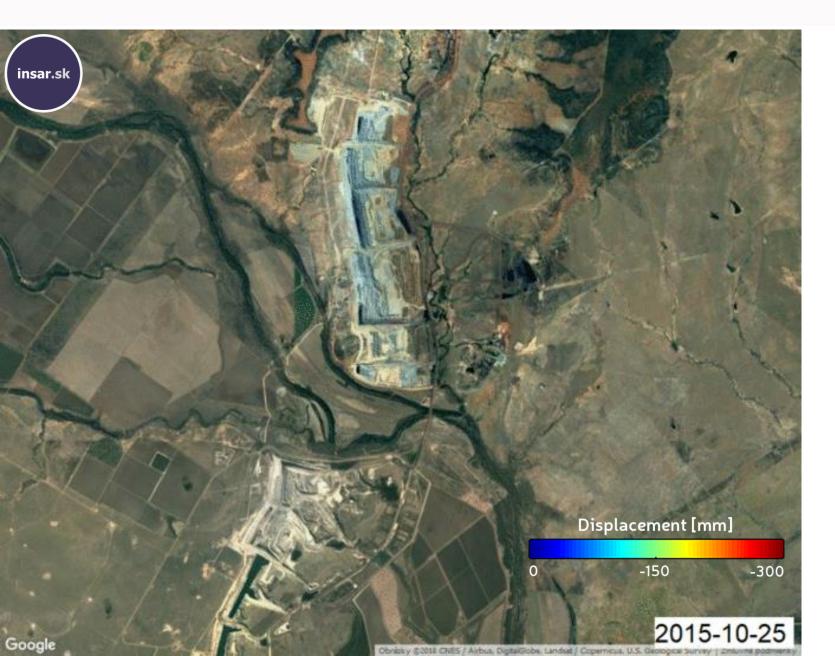
because of Collapse of Structures



The alarming number of accidents points to the need for the better structural health monitoring.



AUSTRALIA insar. sk



Coal mine monitoring

Current Projects & Boosts









ESA PECS - RemotIO

Slovakia in the Plan for European Cooperating State (PECS) of European Space Agency (ESA)

Ready2G0

The innovative programme that helps dynamic European small and medium-sized enterprises to go GLOBAL

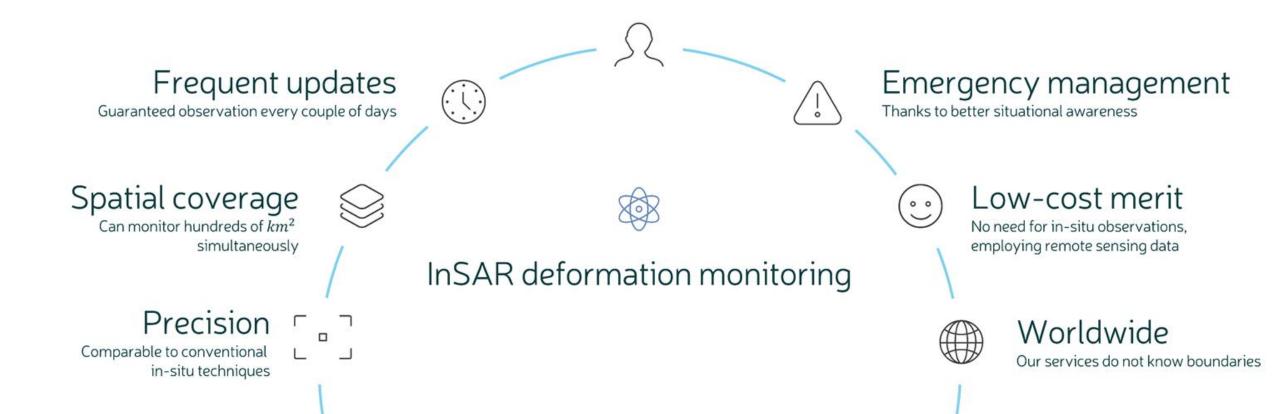
Copernicus Relays

Network of ambassadors, coordinating and promoting activities around the Copernicus Programme for local residents and businesses

Národný InSAR Workshop 28.6.2018

bit.ly/insar_workshop

Our Added Value



? insar.sk

