



## STRUCTURAL HEALTH MONITORING

IS NOT EFFECTIVE NOWADAYS



#### Outdated information

Or structures not monitored at all! Bridges, dams, urban areas and historical buildings are not under vital surveillance



#### Under potential risk

Structures are built in close vicinity to hazardous slopes or are threatened by landslides, earthquakes or humaninduced changes



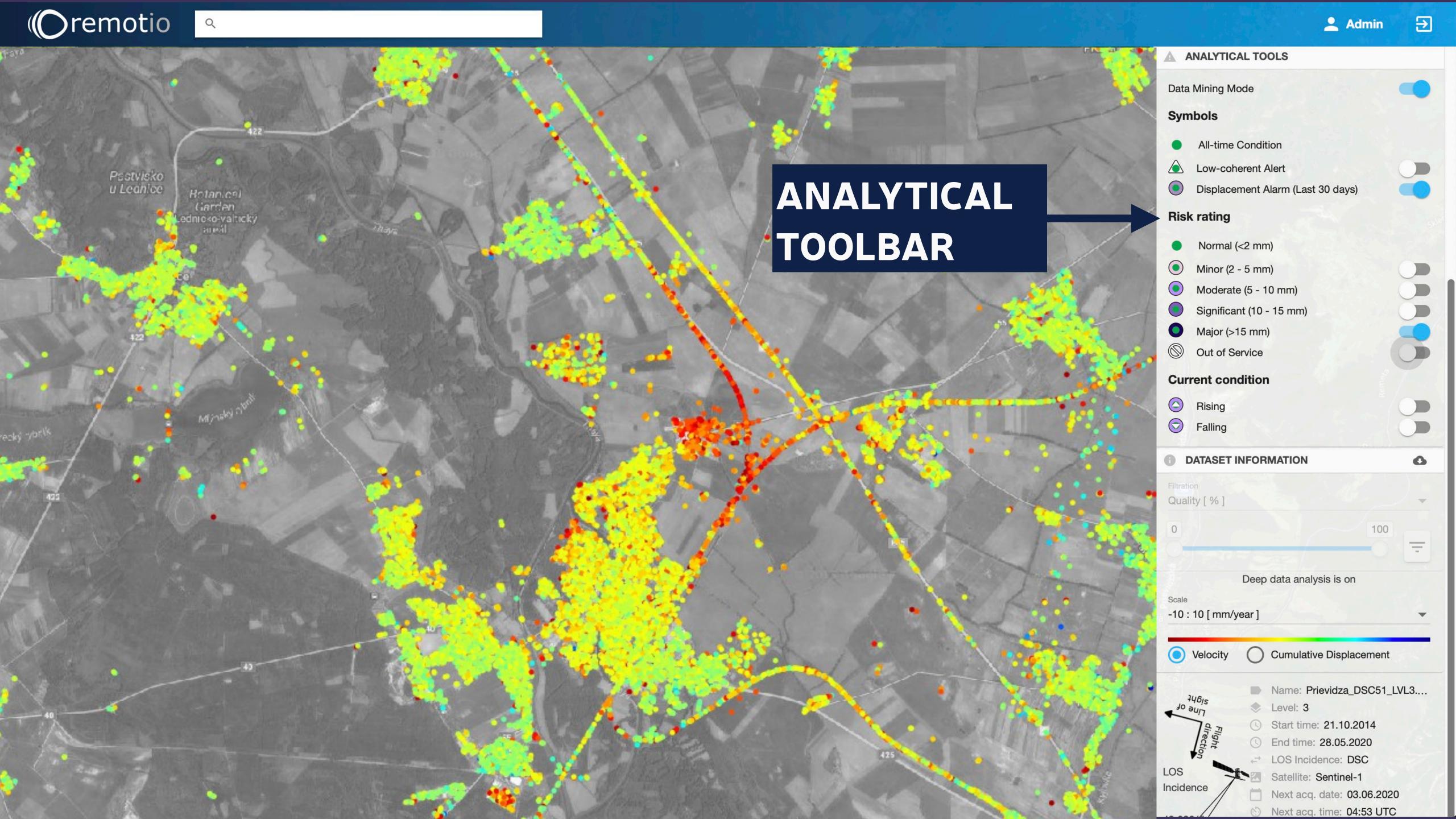
#### Expensive monitoring

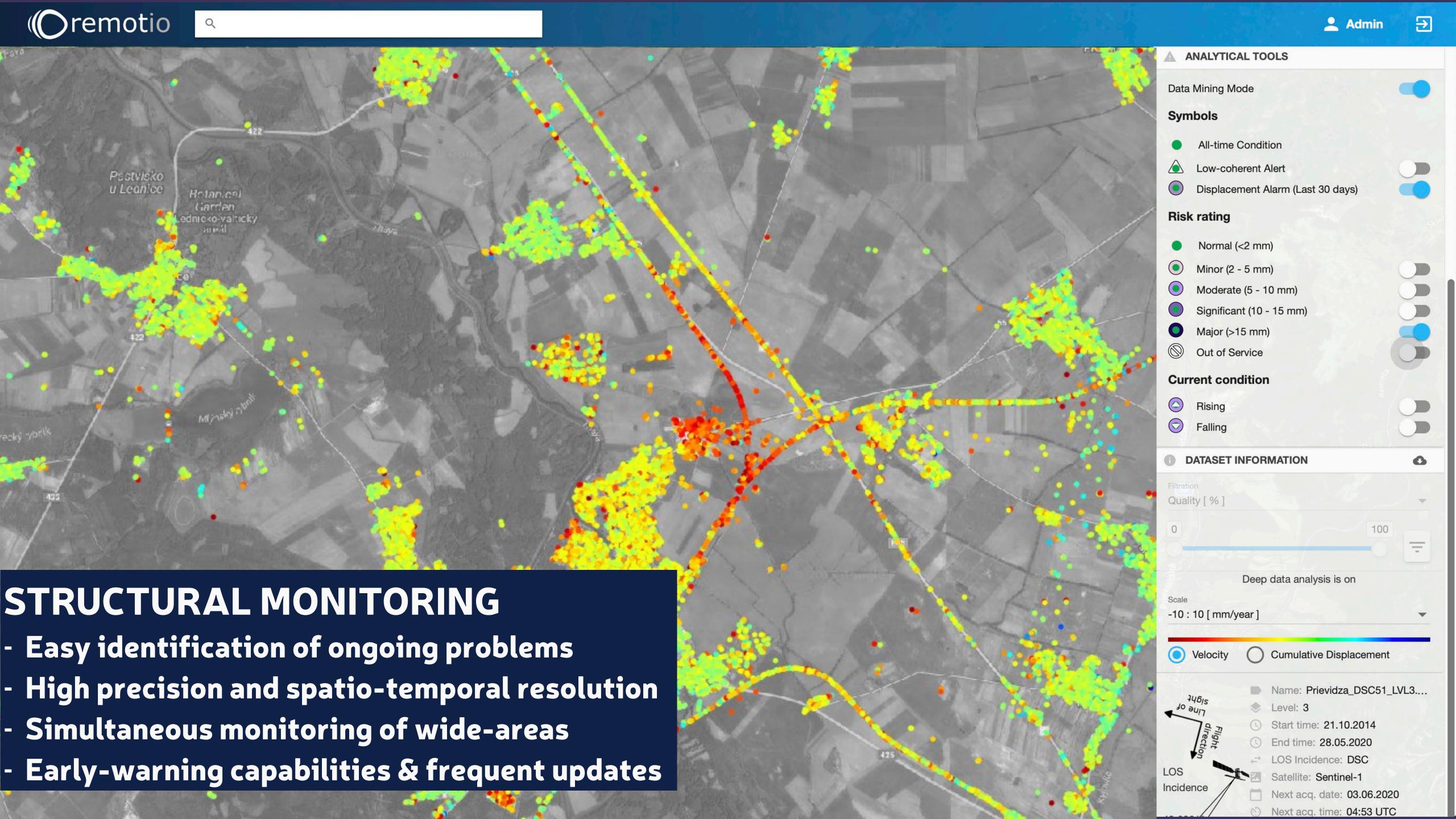
Terrestrial health checks are costly in terms of time, equipment and manpower. Spatially extensive areas (hundreds of kilometres) are hardly observable

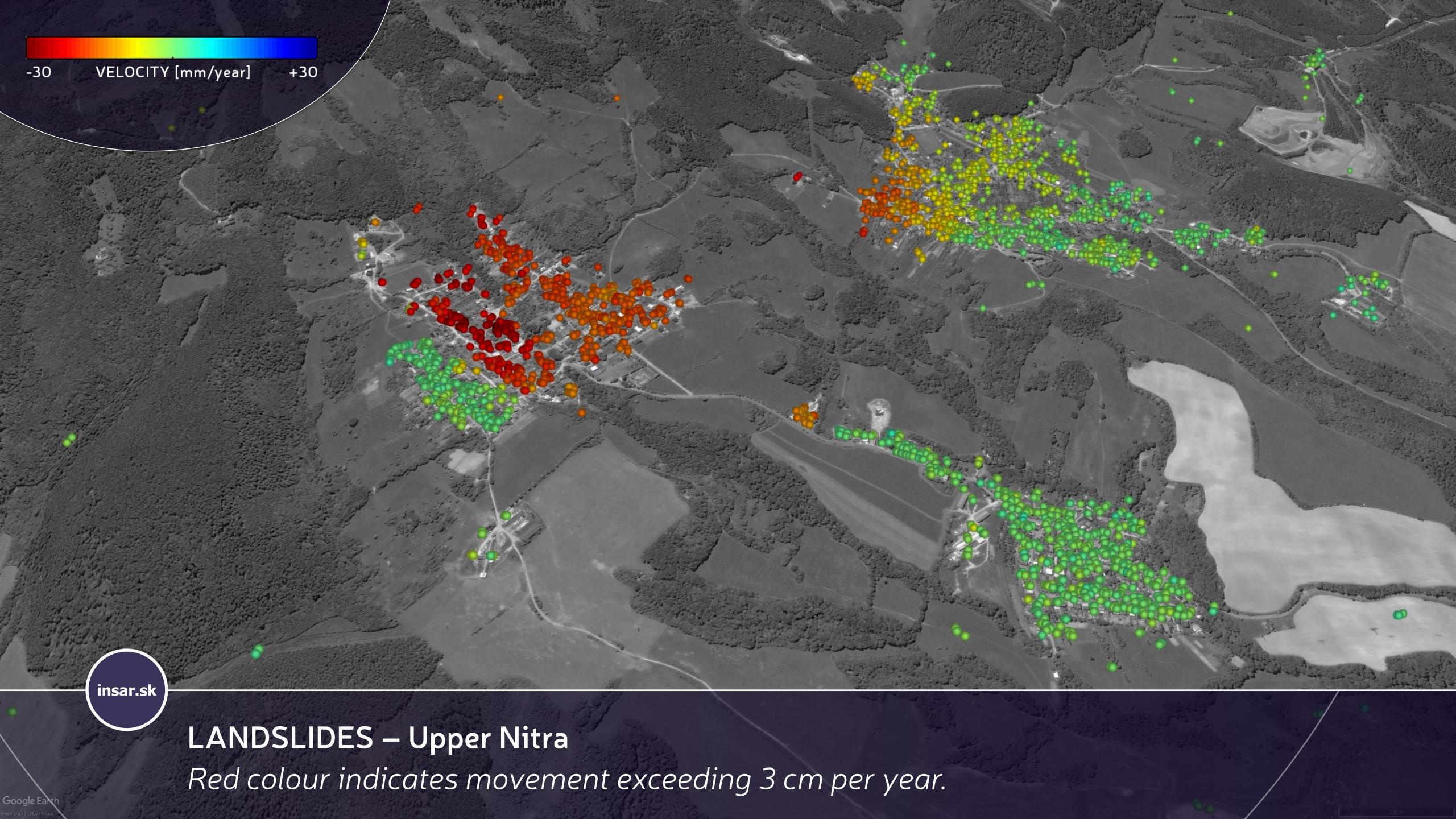


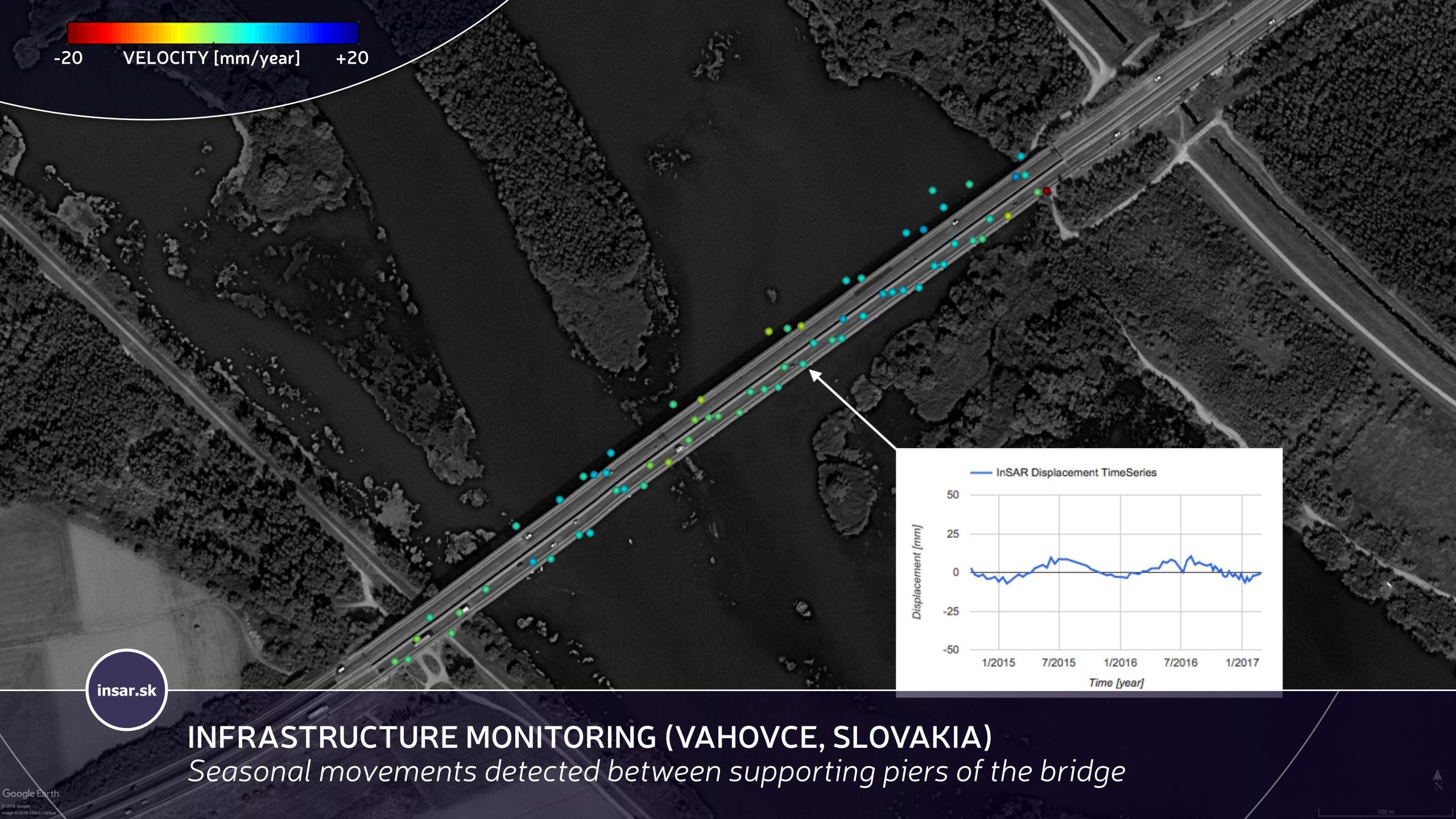


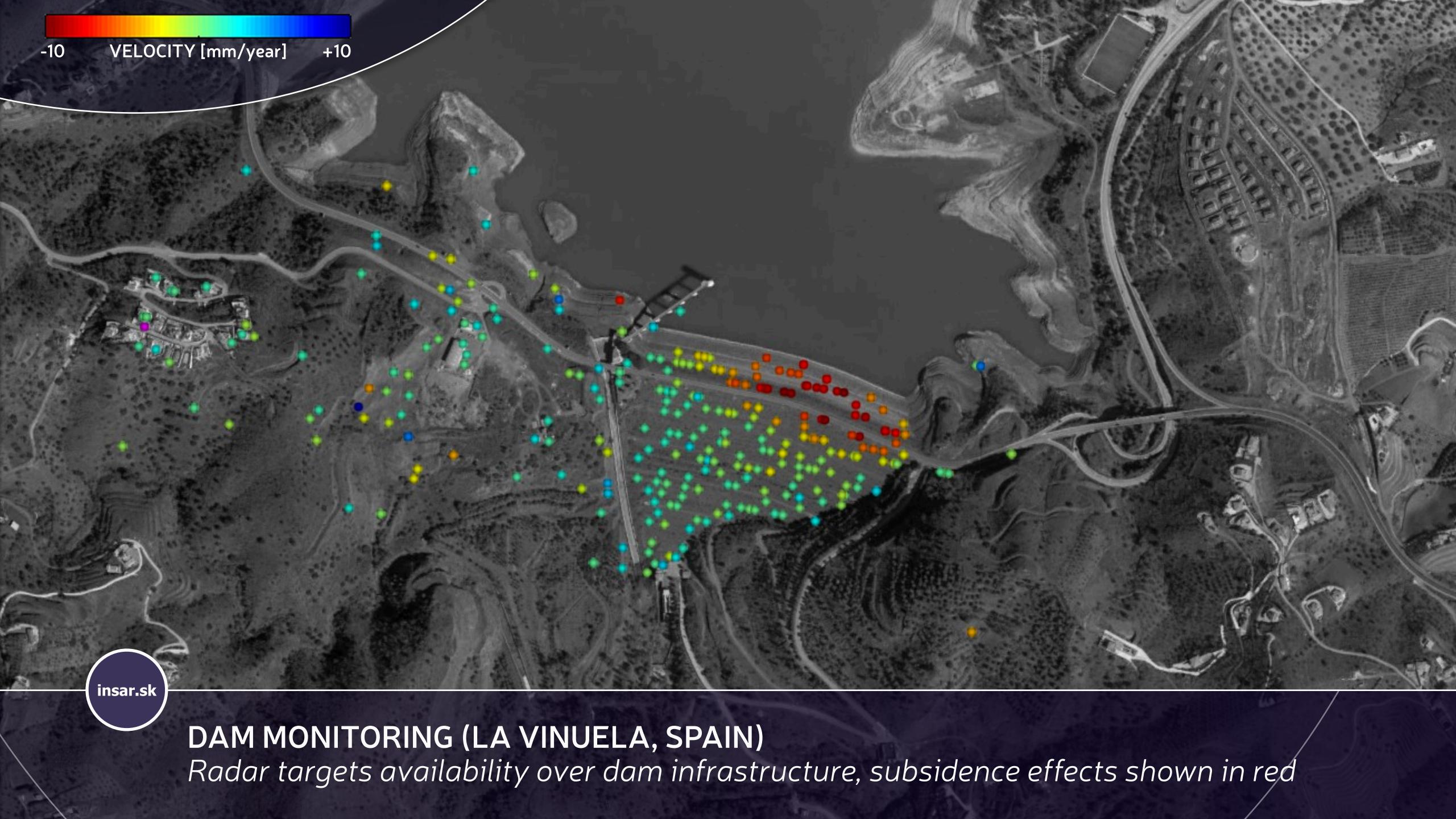


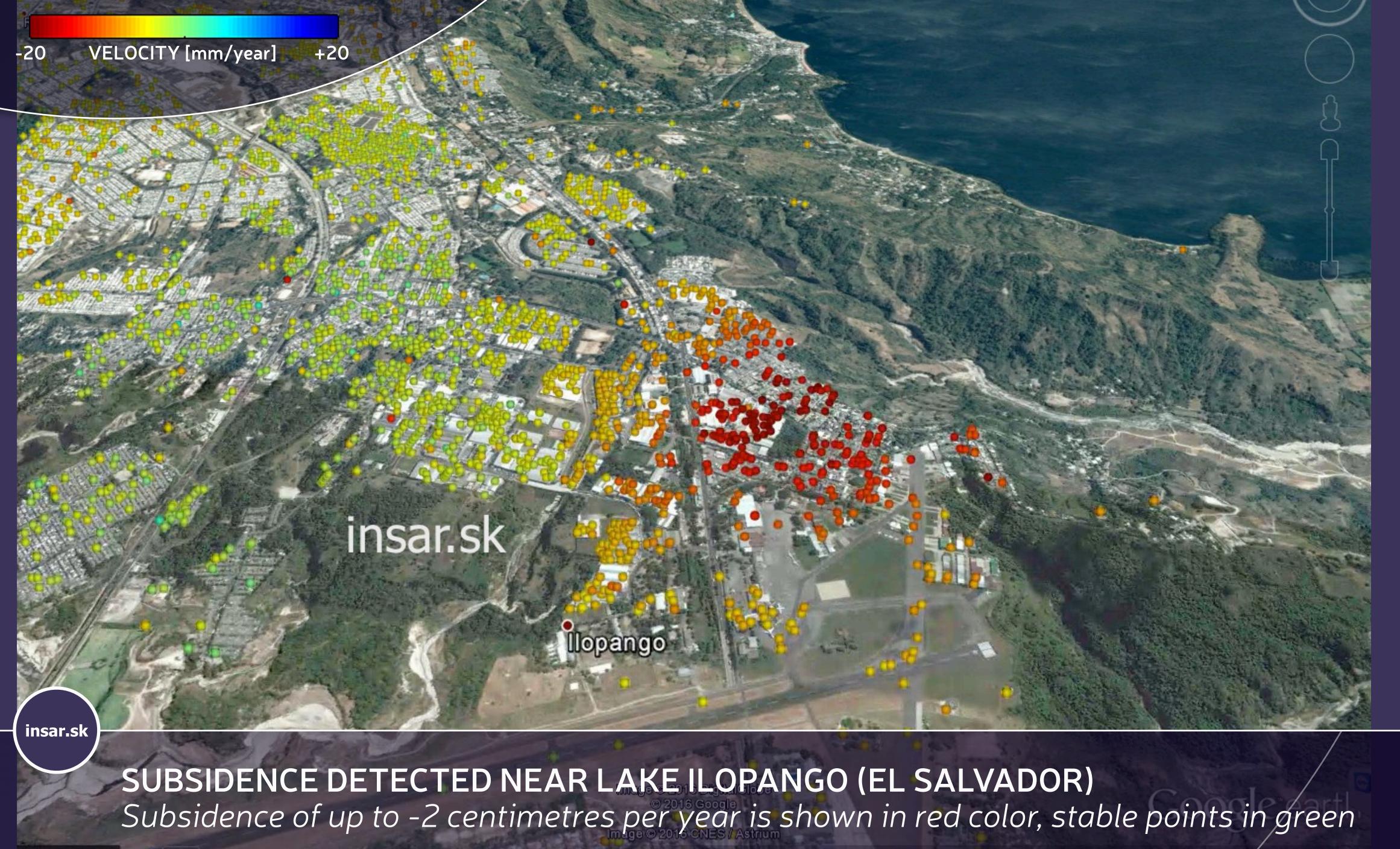


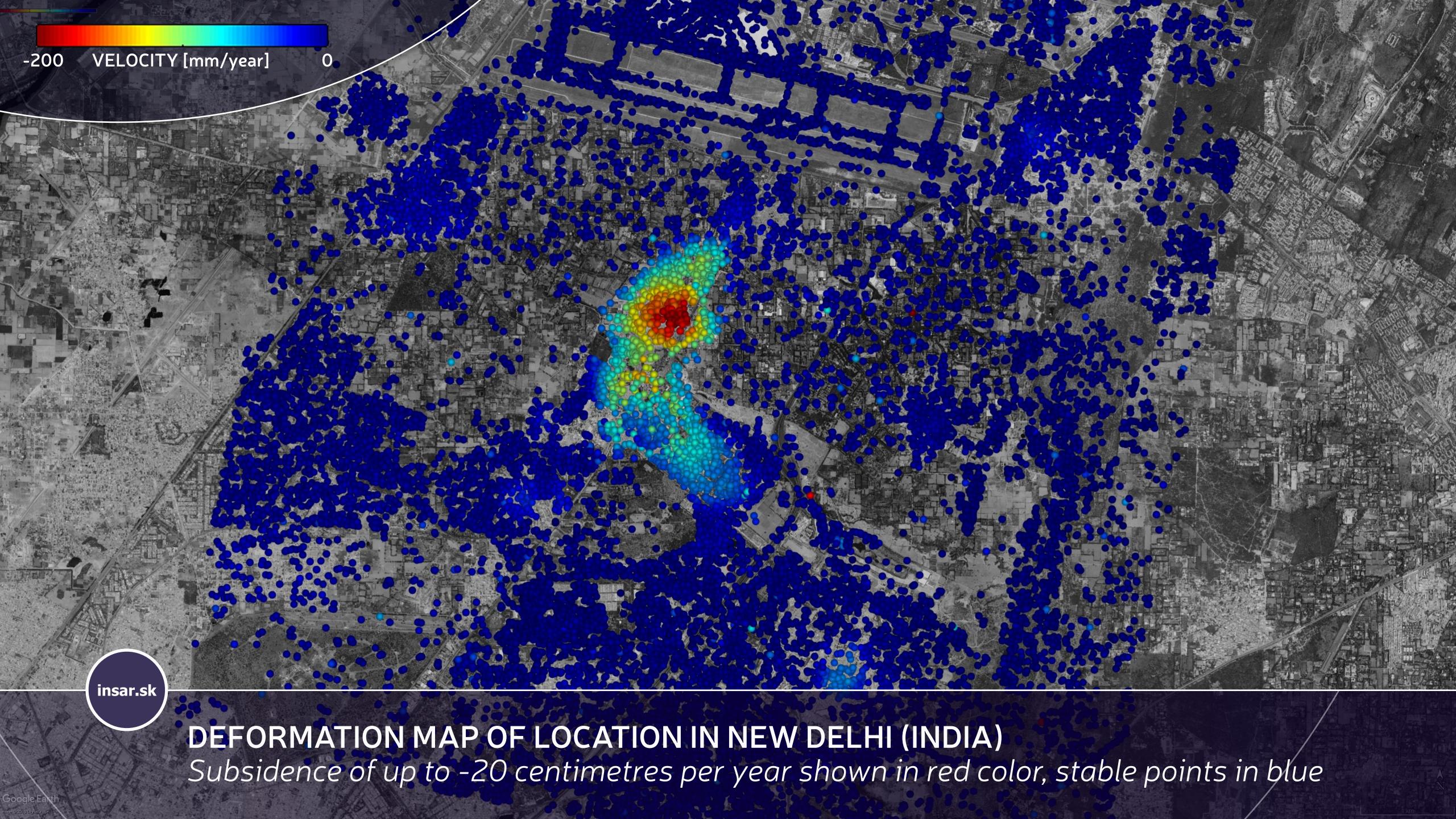






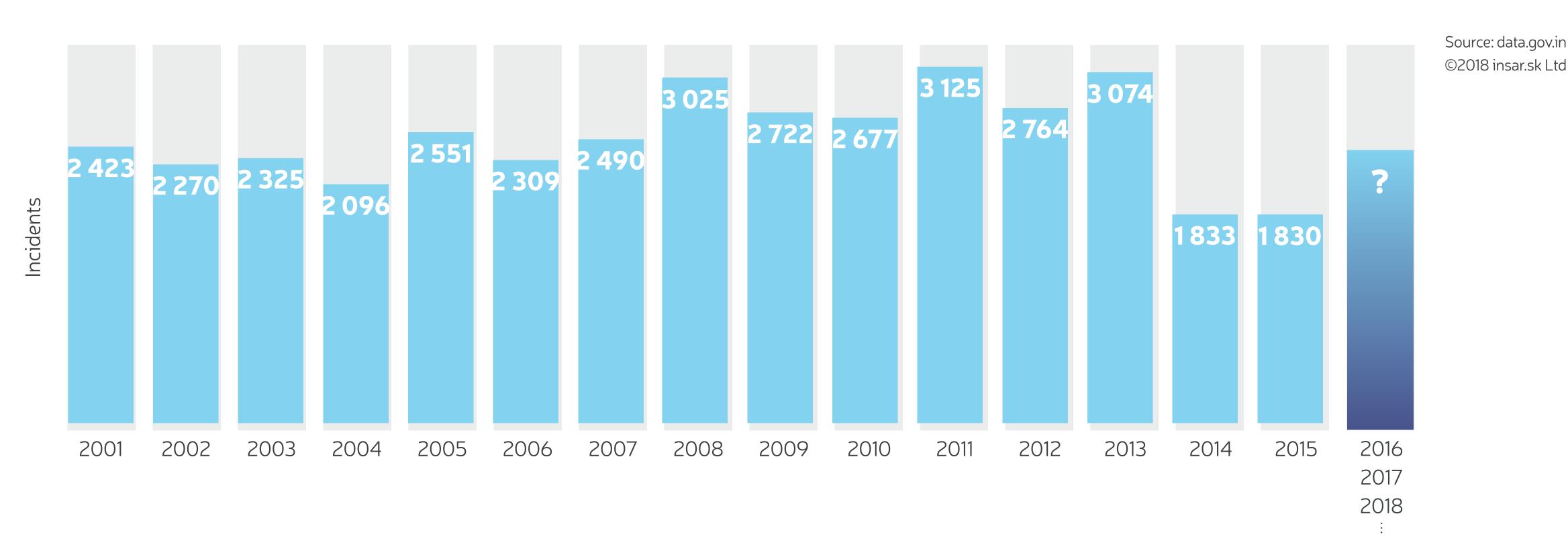






### Number of incidents

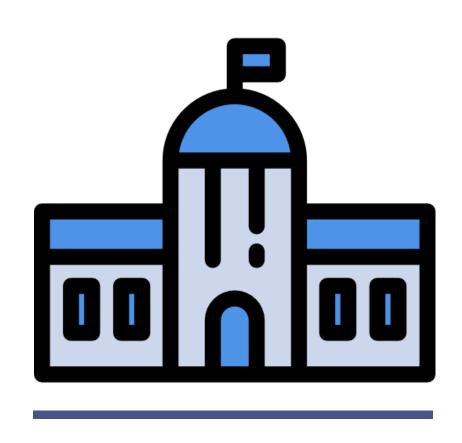
due to Structural Collapses



The alarming number of accidents = necessity for better structural health monitoring.

# City infrastructures are the Top Priority for Mayors

remotIO: B2B solution for the surveillance and management of cities and infrastructures.



Local governments

Municipalities



**Smart Cities**Solution Providers



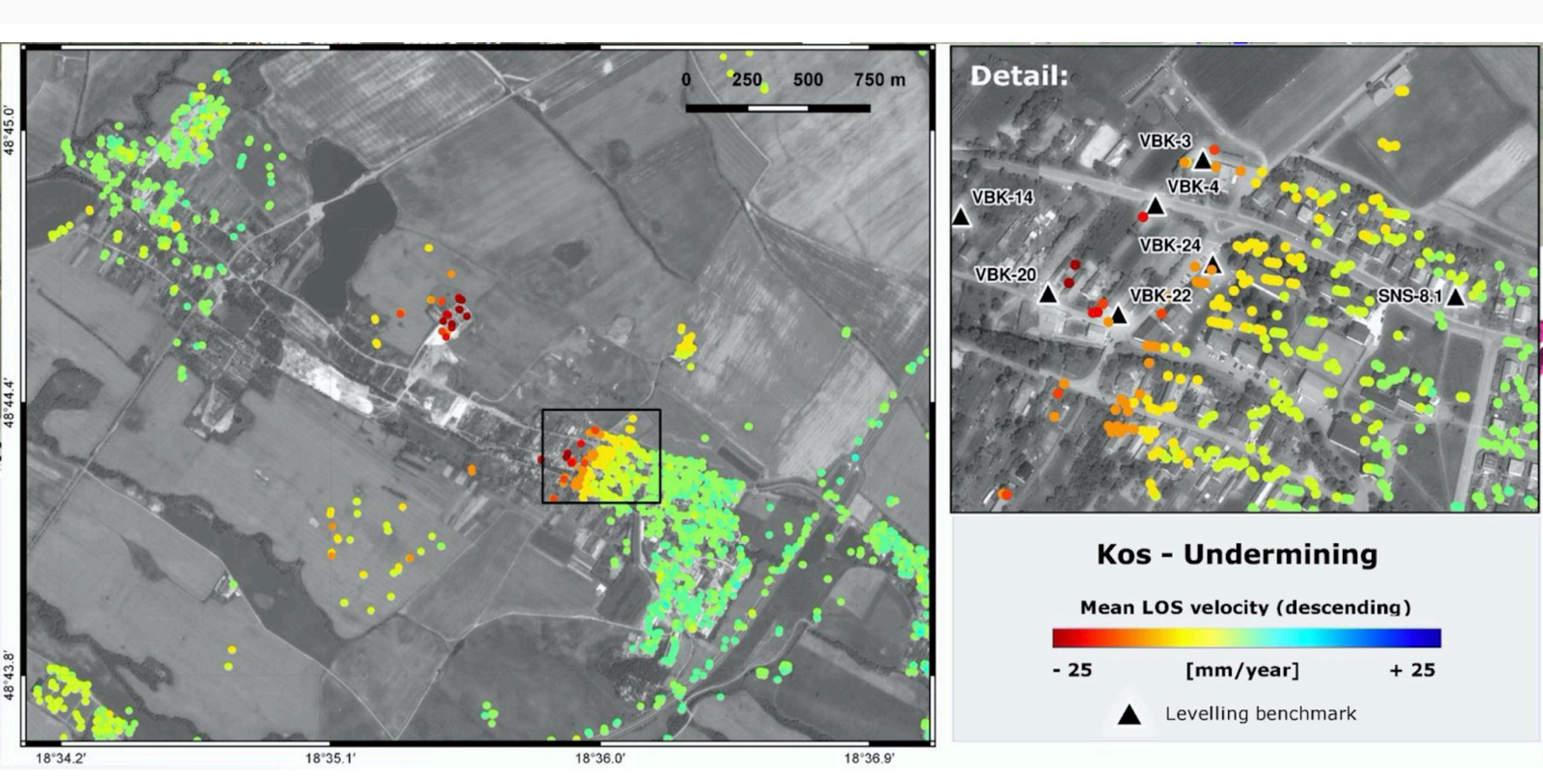
Infrastructure operators

Dams, Bridges, Railways

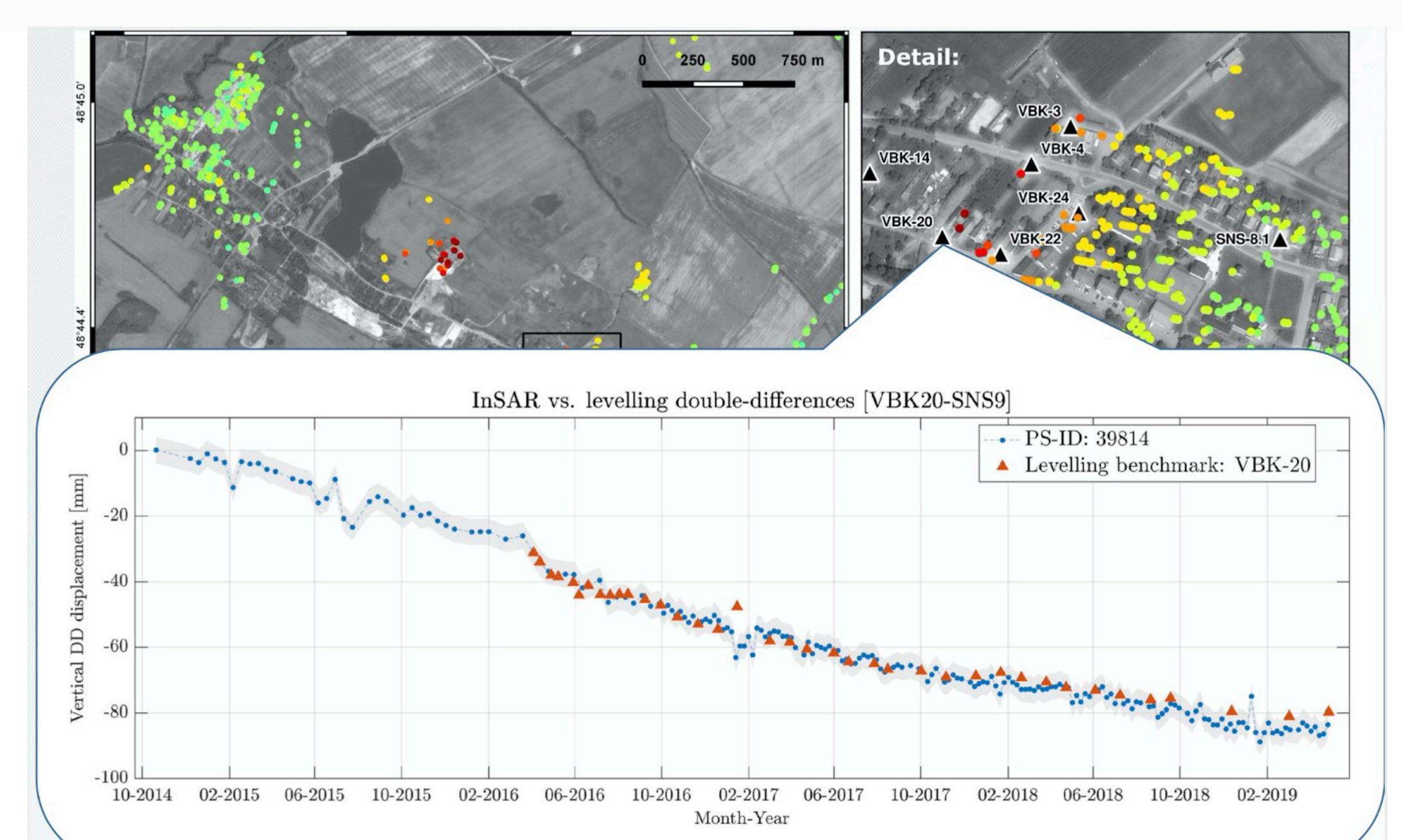


**Assets Managers** *Mines, Real Estate, Insurance* 

SLOVAKIA insar.sk



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# remotio.space

Operational exploitation of InSAR technology

- EASY ACCESS TO RESULTS

Easier interpretation of InSAR results for key target audiences: industrial service providers, decision and policy makers, scientific and technical communities.

Available at:

**GO TO PAGE!** 





remote sensing



bit.ly/remotio\_paper

# Projects, Boosts & Experience

















#### ESA PECS - RemotlO

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

#### Ready2GO

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

#### Country Winner

Regional country winner in AI & Data Revolution cathegory <a href="https://www.events.great.gov.uk/ehome/tech-rocketship-awards-europe/winners/">https://www.events.great.gov.uk/ehome/tech-rocketship-awards-europe/winners/</a>

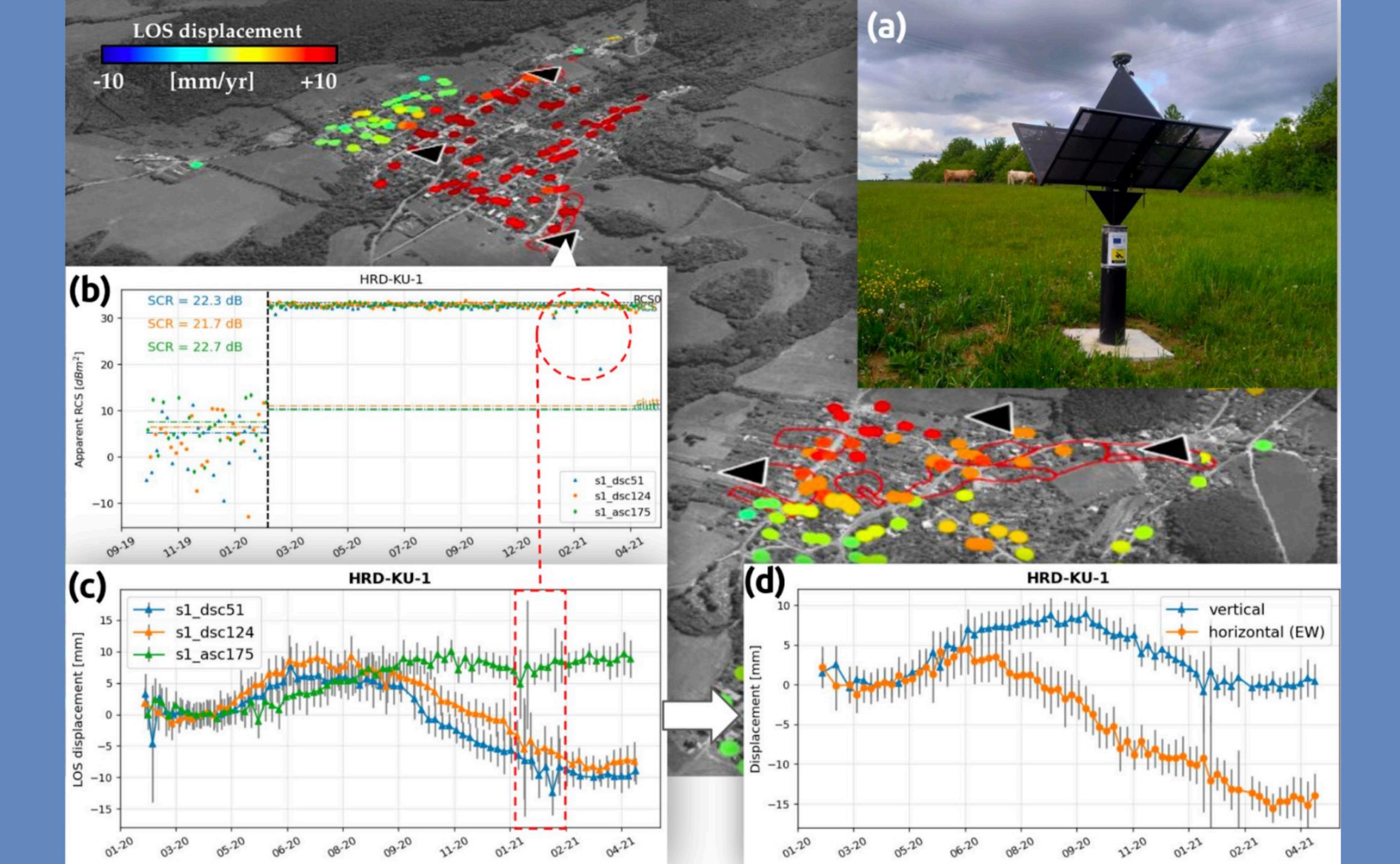
#### DB mindbox

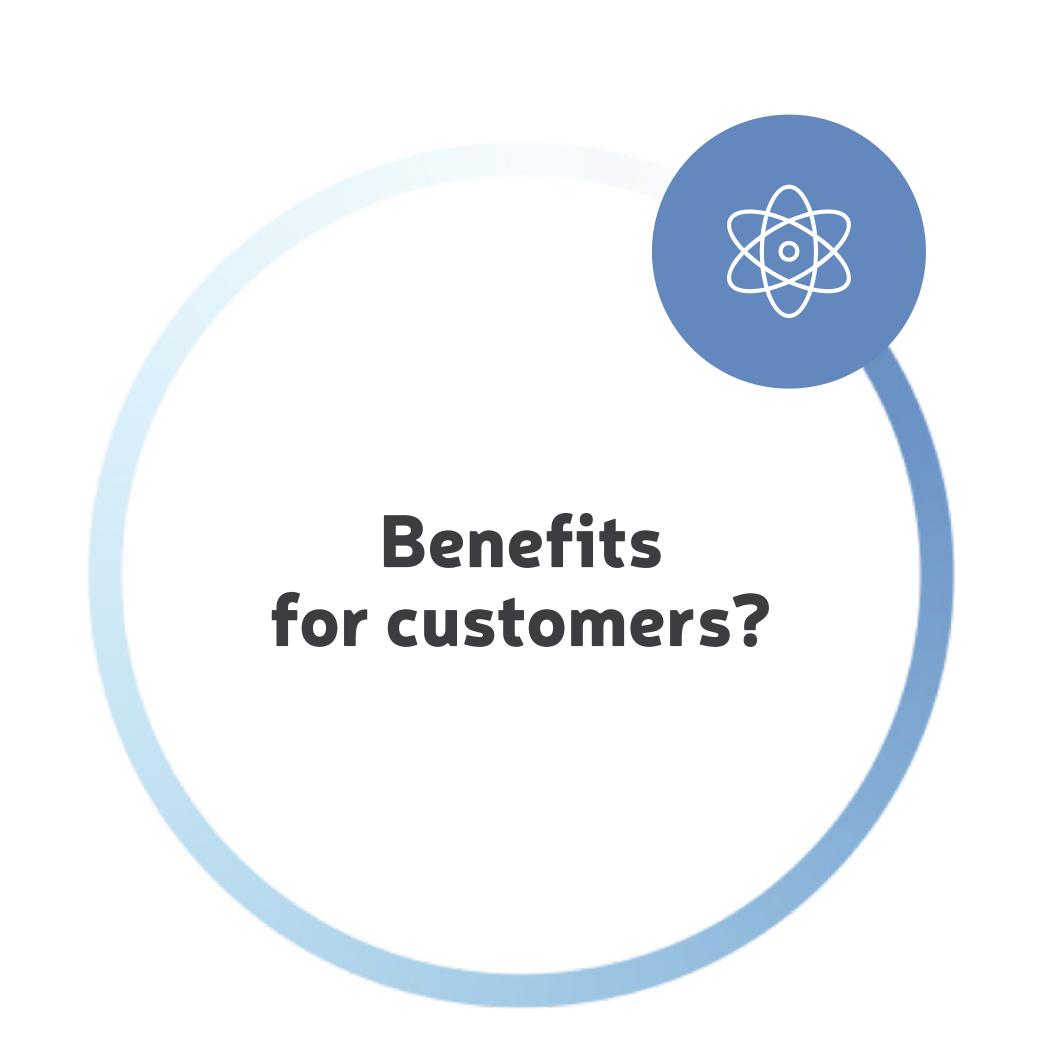
Successful cooperation with Deutsche Bahn for railways monitoring in Germany

# GEODETIC-LEVEL INSAR EXPERTISE

# Enhancing InSAR capabilities for:

- o precise geolocation
- integration with existing sensors and measurements
- compliance with international standards





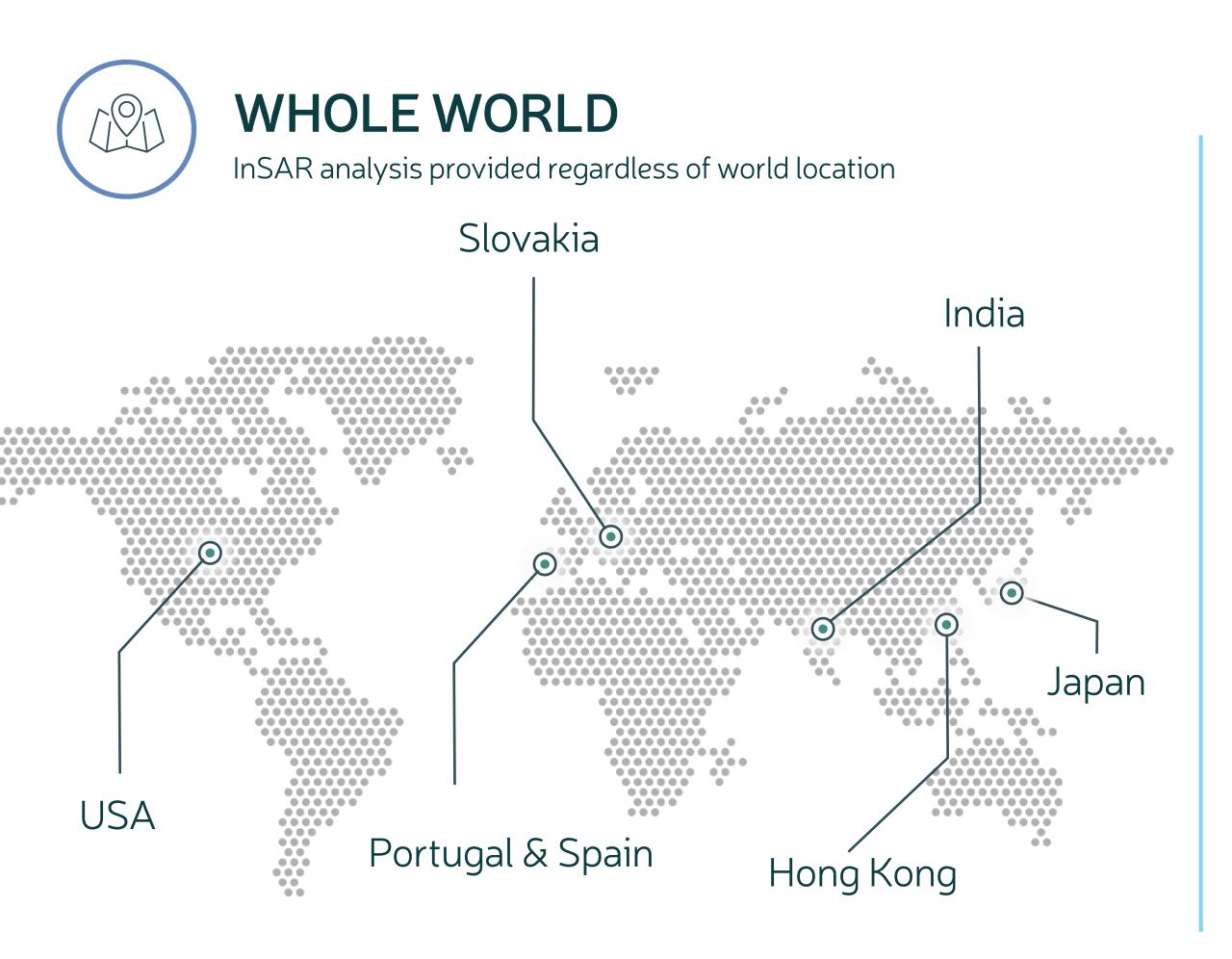
Continuous infrastructure monitoring

Frequent monthly updates

In-situ instruments & support

Geodetic-grade InSAR expertise

# Multi-Temporal InSAR (MTI) deformation monitoring





#### WHAT WE DO HERE

MONITORING OF:

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

Geological Surveys

Energy Industry

Oil & Gas Corp.

Mining Corp.

Civil Engineering



# MARKET OPPORTUNITY

Construction industry

····· Transport industry

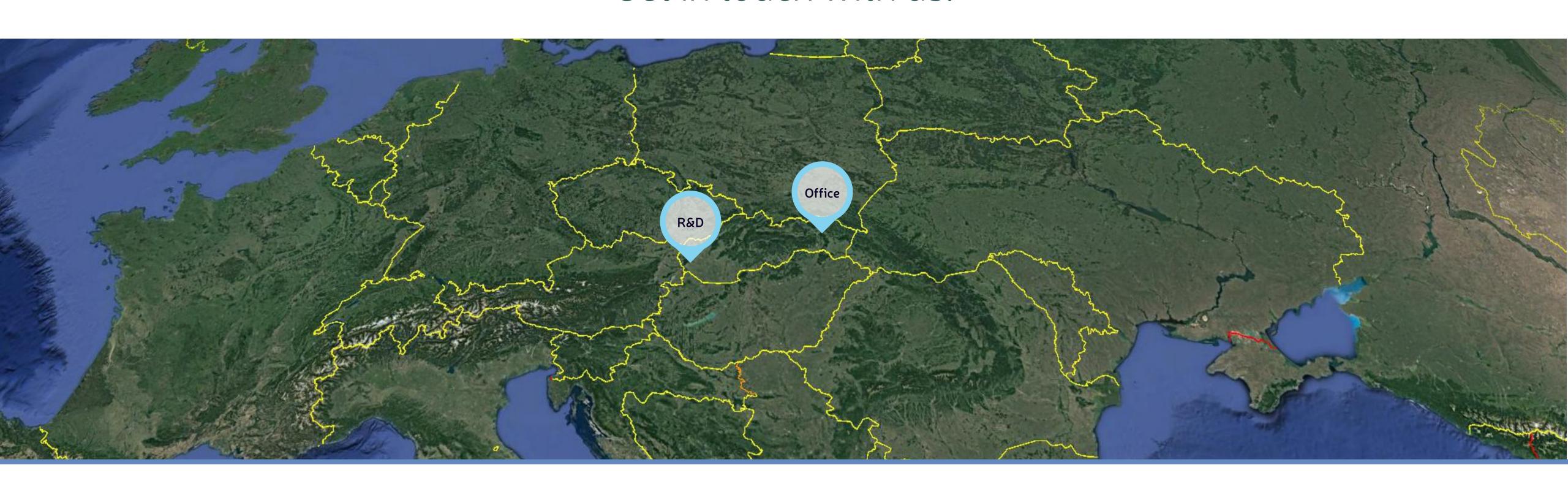
···· Urban planners

····· Dam operators

· Water management facilities



# Get in touch with us!



E-mail:

support@insar.sk

Speak with us:

+421-905-356-714