GEO-CRADLE Pre Kick Off Meeting

Earth Observation and Geohazards Expert Group from EuroGeoSurveys

EOEG

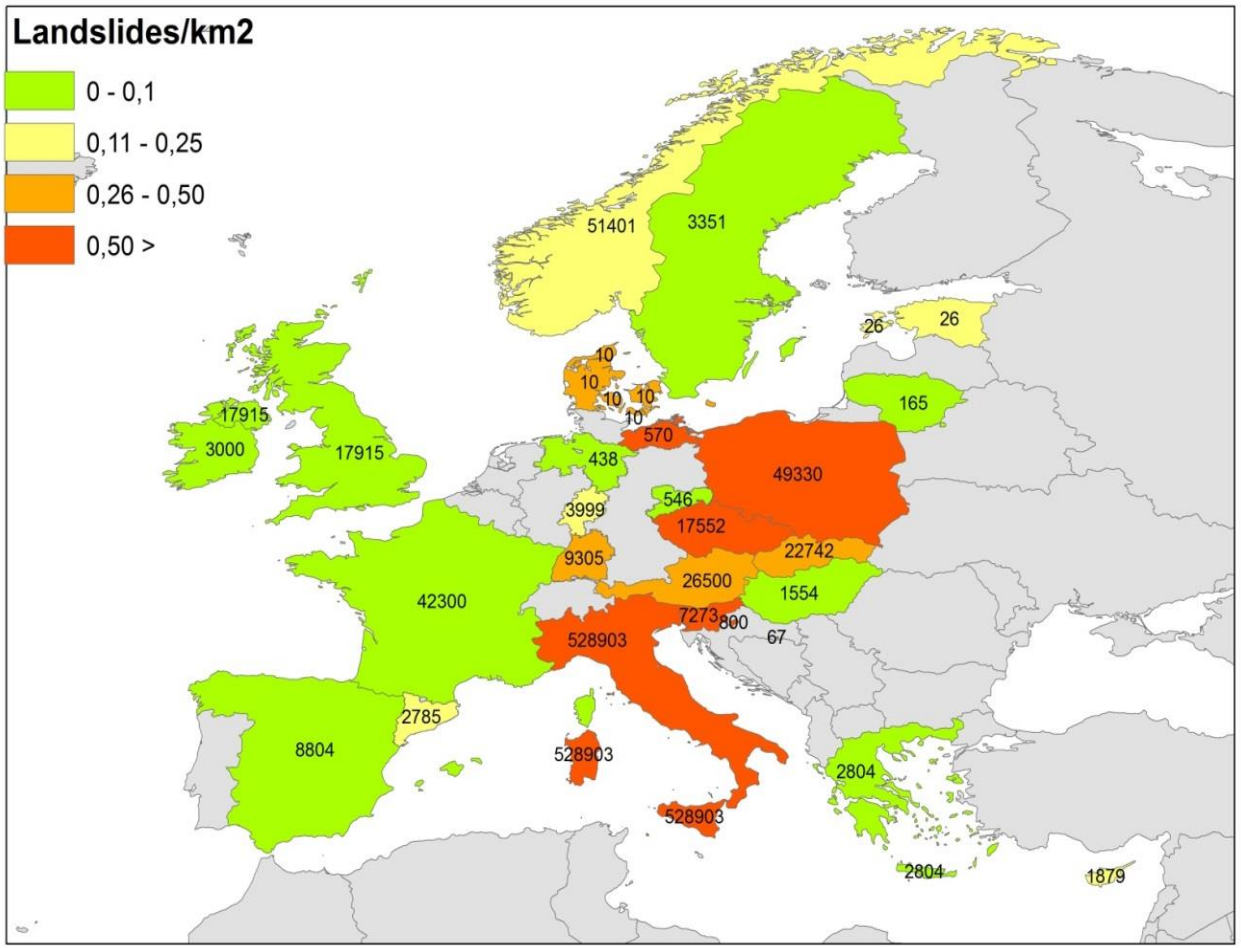
Mission and vision

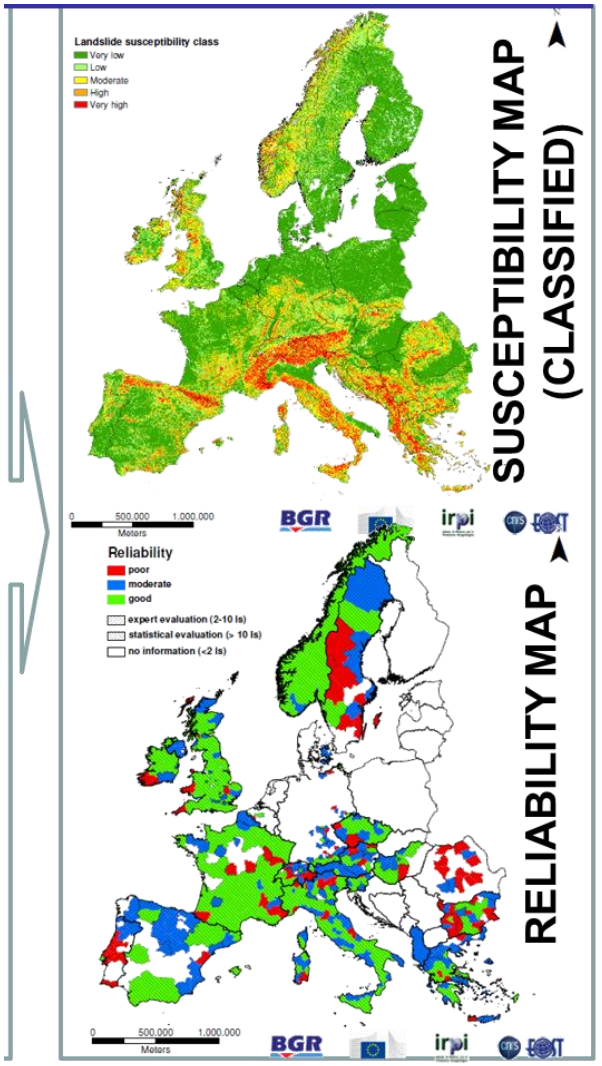
21+ 7

- **Apply Earth Observation technology** to improve geoscience delivery on **geohazards** and **mineral resources cycle.**
- **Deliver harmonized Earth Observation based geo-information** improving the operational capacity and economic capabilities of governments, institutions, organizations, businesses and individuals.

- Geohazards inventories
- Susceptibility & hazard & risk analysis
- Radar remote sensing monitoring
- In situ monitoring networks
- Local scale numerical modeling

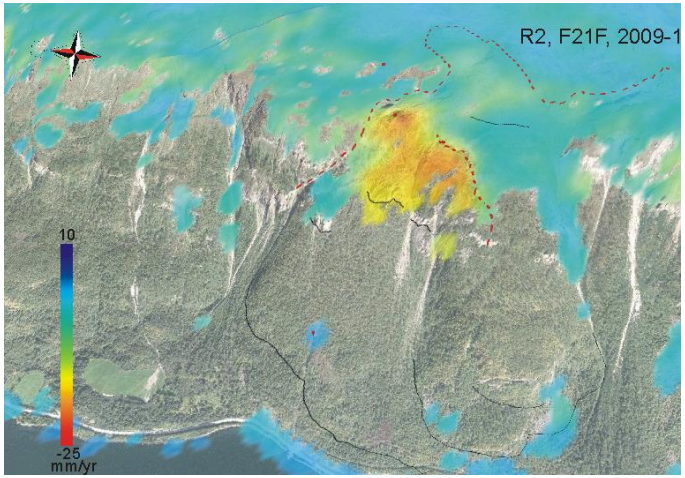
EGS Landslide & subsidence databases: 801234 records

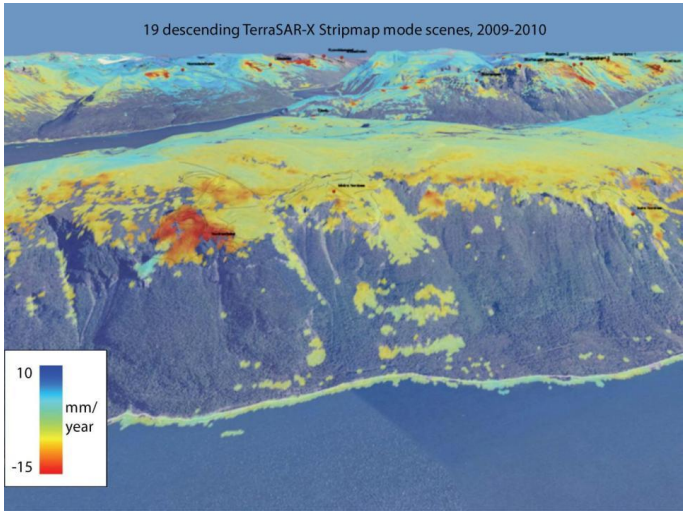


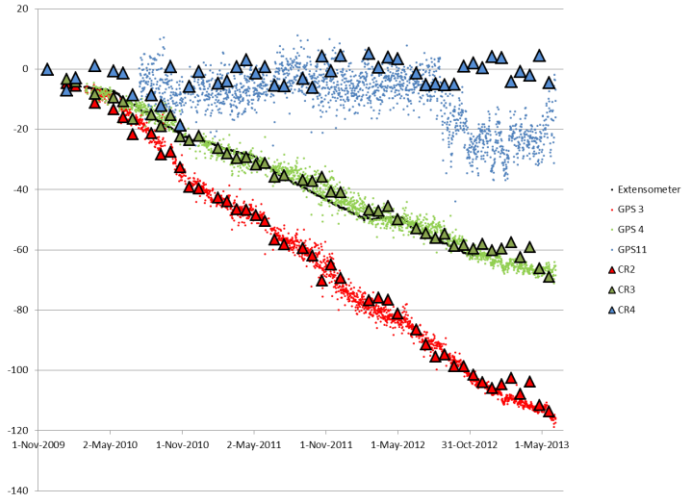


EuroGeoSurveys
The Geological Surveys of Europe

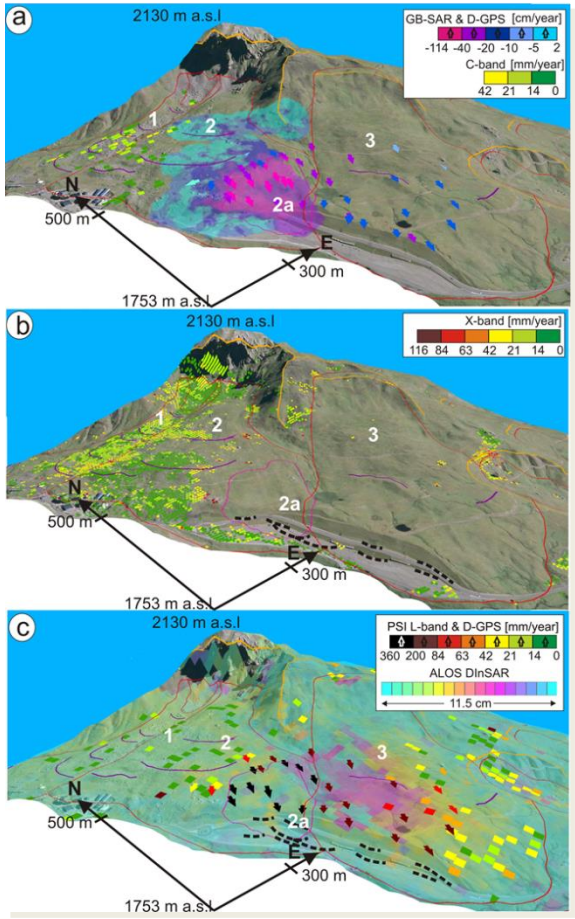
Determine the state of activity of landslides phenomena

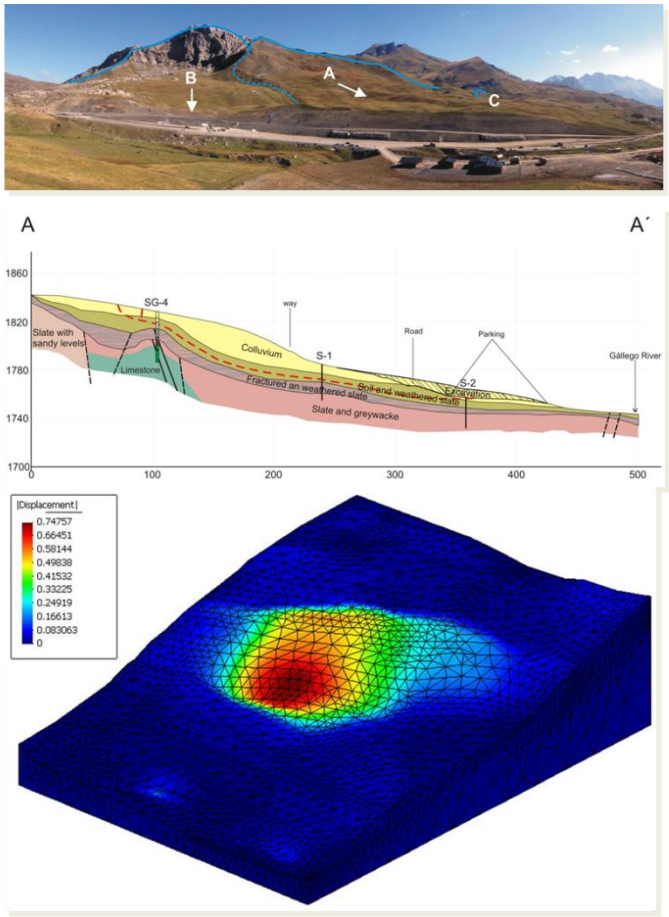




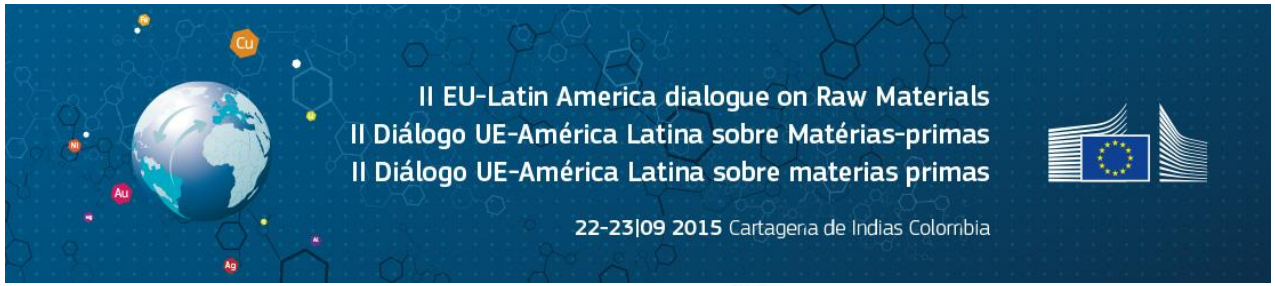


Implement coordinated in situ monitoring systems: simulation of landslide failure and propagation



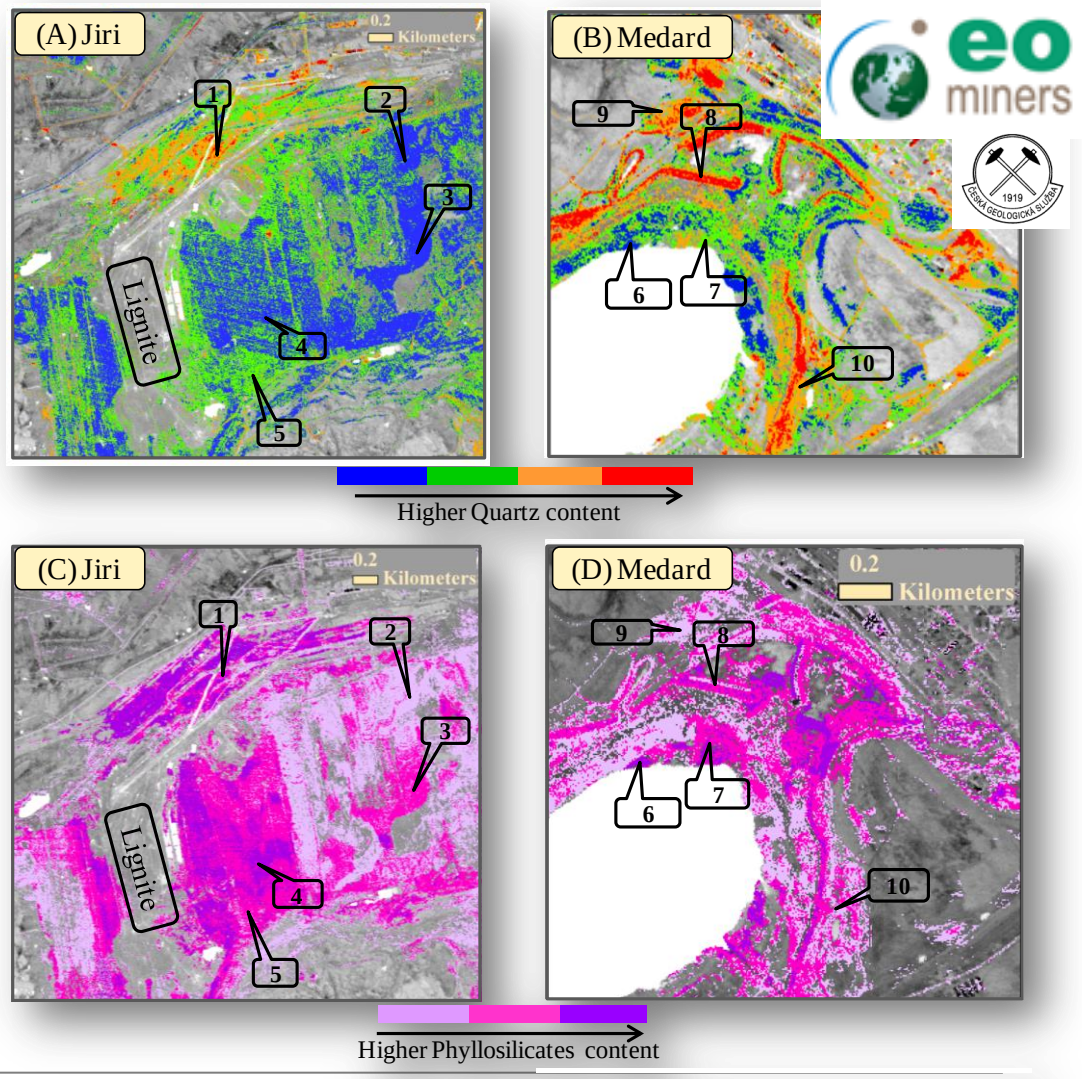


- Geological mapping regional scale
- Mineral mapping in mining areas
- Monitoring mining activities
- Mining risk assessment



Mineral thematic map showing surface geological materials from hyperspectral data

Sokolov Lignite Open-Pit Mines, Czech Republic



Notesco, G. – Kopačková V. – Rojík, P. – Schwartz, G. – Livne, I. – Ben-Dor, E. (2014): Mineral Classification of Land Surface Using Multispectral LWIR and Hyperspectral SWIR Remote-Sensing Data. A Case Study over the Sokolov Lignite Open-Pit Mines, the Czech Republic. – Remote Sensing 6, 8, 7005-7025. ISSN 2072-4292 (on line). DOI 10.3390/rs6087005.

EUROGEOSURVEYS
European Geoscience for Society
The Geological Surveys of Europe

EARTH OBSERVATION AND GEOHAZARDS