





Enabling Access to Geological Information in Support of GMES

A Free Geohazard Information Service for Europe

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What are geohazards?









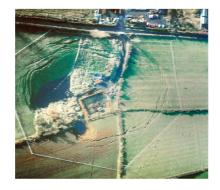
Geohazards in PanGeo are natural and man-made phenomena that make the ground unstable.

PanGeo geohazards include:

- Earthquakes
- Slope instability (landslides)
- Mineral workings (past & present)
- Groundwater abstraction & recharge
- Shrink and swell clays
- Soluble rocks
- Compressible ground
- Collapsible deposits
- Landfill

Risks from geohazards are increasing as cities become bigger.

Geohazards cost the EU hundreds of lives and billions of Euros each year.











Introducing PanGeo



Enabling <u>Access</u> to Geological Information in Support of GMES.

- FP7 Collaborative project (2011-2014)
- Born out of ESA GMES Terrafirma project



37 partners in total, including:

- All 27 EU national Geological Surveys
- Four ESA-qualified PSI Providers
- INSPIRE, IT and Training expertise
- Geospatial data visualisation expertise
- Makers of the GMES Land Core Service 'Urban Atlas'
- A User Advisory Panel (EuroGeoSurveys, Euro-Federation of Geologists, ABC)

Target users: - Local Authority Planners & Regulators, Civil Protection Agencies

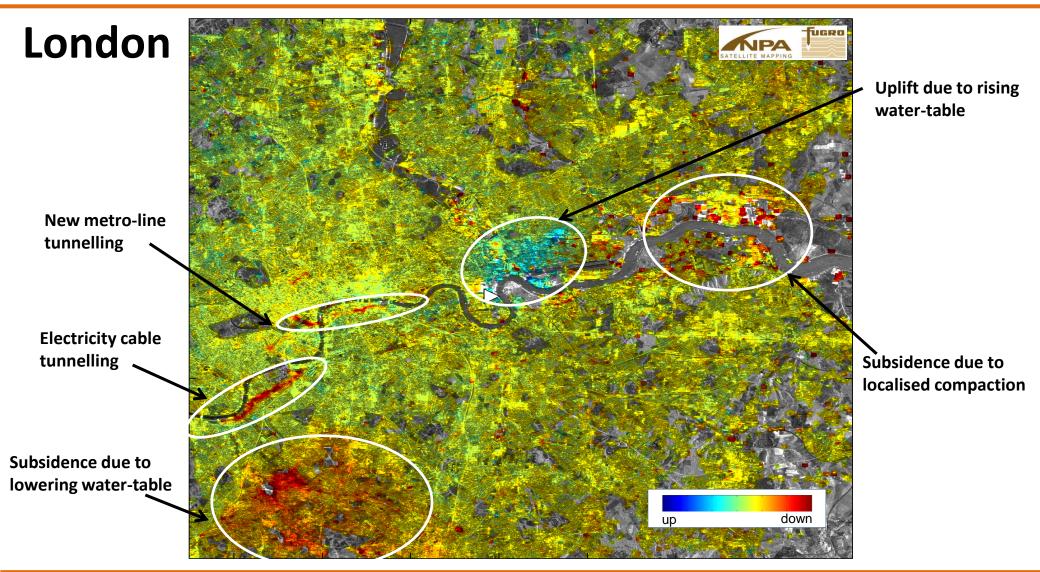
- National Geological Surveys
- Policy Makers, Commerce
- The Public





Measuring geohazards from space



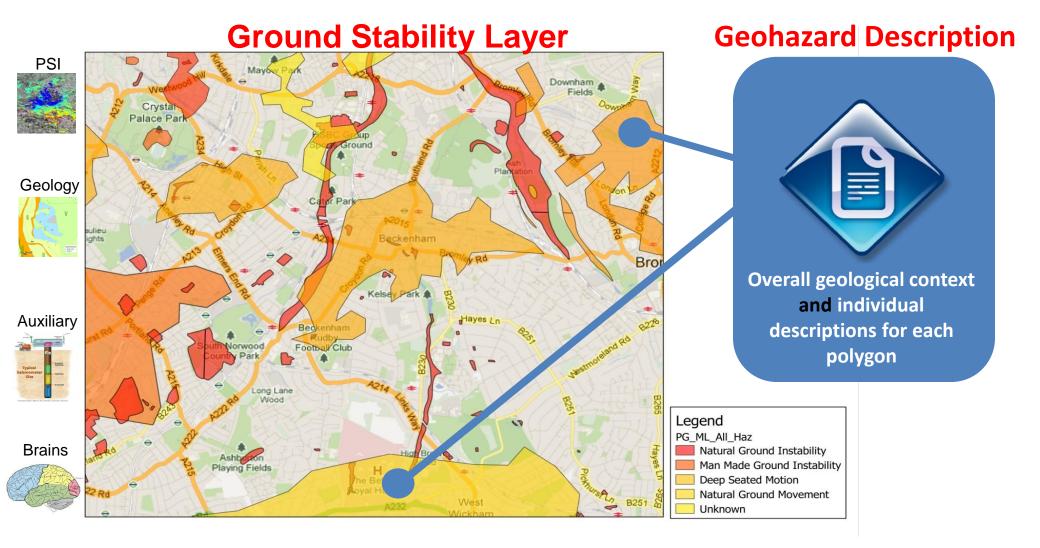






PanGeo Standardised Products

fugro

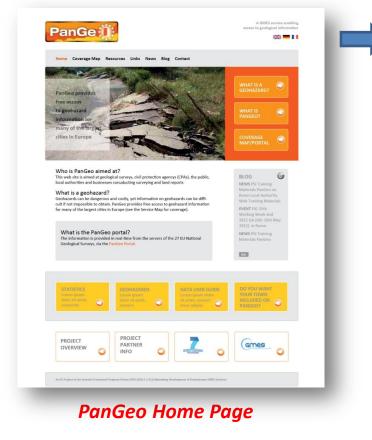


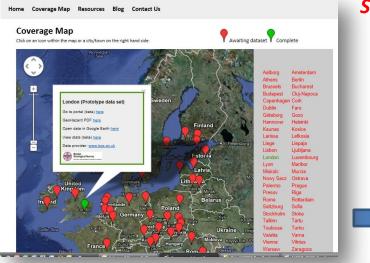




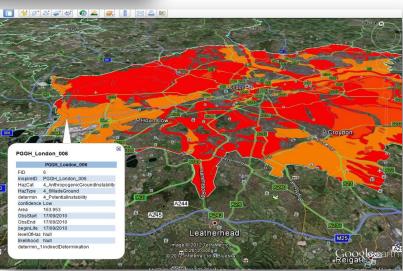








Service Coverage Map



Ground Stability Map





Conclusions



- PanGeo is establishing an INSPIRE-compliant, free, online Geohazard Information Service.
- All 27 national Geological Surveys of the EU included.
- Aimed at Local Authorities, Geological Surveys, Policy-makers and the EU Citizen and Commerce.
- Concerted *Sustainability Action Plan* driving promotion.
- Cost of new town inclusion: Around €40,000.



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www.pangeoproject.eu

