

SIGN UP 2015

From 15 April to 13 July
www.copernicus-masters.com



THE EARTH MONITORING COMPETITION

15 April – 13 July 2015

UPON THE INITIATIVE OF



NATIONAL CADASTRE
& MAPPING AGENCY S.A.



ORGANISED BY



THE ORGANISER

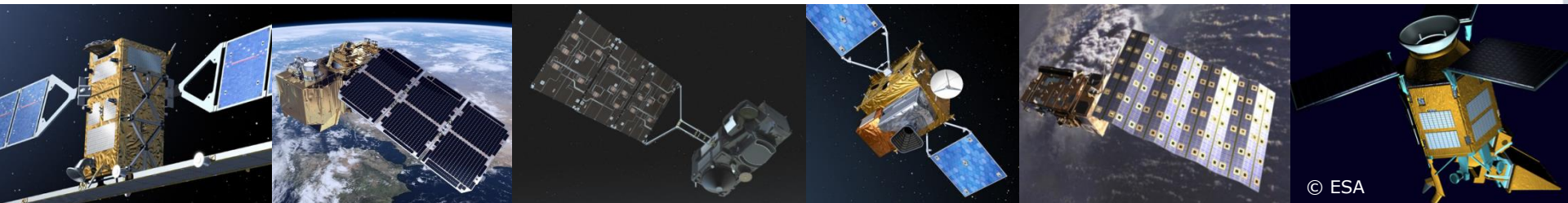
ANWENDUNGSZENTRUM GMBH OBERPFAFFENHOFEN

BUSINESS FOCUS	Innovation Networks	Business Incubation	App Developer Camps	Network coordination
Support of innovation and incubation in the commercial use of space technologies & infrastructures 	 	 	 	 

THE SENTINEL SATELLITES

Data range of the Sentinel satellites:

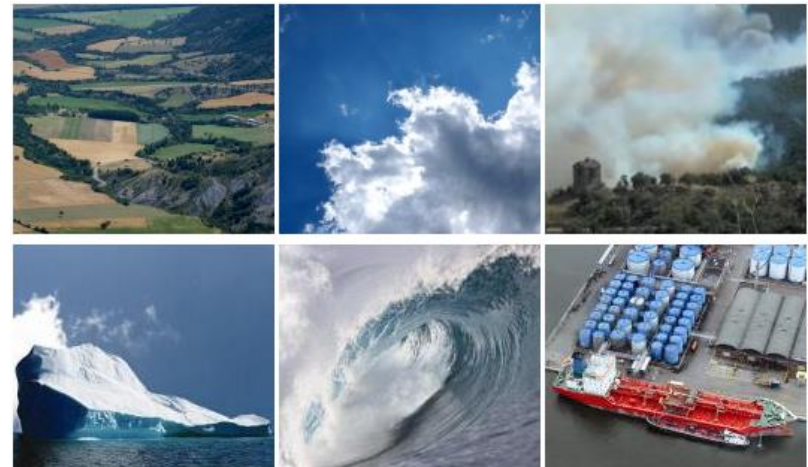
- › Sentinel 1: All weather & Day/Night Radar data (1A launched 2014)
- › Sentinel 2: High-resolution multispectral images
- › Sentinel 3: Sea-surface topography, sea-and land temperature, land surface colour data
- › Sentinel 4: } Atmospheric data
- › Sentinel 5: }



COPERNICUS SERVICES

Copernicus data will enhance or enable:

- > air-quality forecasting
- > flood warnings
- > early detection of drought and desertification
- > early warnings of severe weather
- > oil-spill detection and drift prediction
- > sea-water quality
- > crop analysis
- > forest monitoring
- > land-use change
- > food security and humanitarian aid



© EC

COPERNICUS – MASTERS AIMS

The aims of the Copernicus – Masters:

- › Creating awareness for the European Copernicus programme
- › Fostering product development and entrepreneurship in Europe
- › Supporting the creation of new ventures being supported in the 11 ESA Business Incubation Centers (BICs)

TARGET GROUPS

The Copernicus Masters is oriented towards:

- > Students
- > Researchers
- > Entrepreneurs
- > Start-up companies
- > SMEs.....

Since 2014: Competition open to international submissions

New in 2015: University Challenge specifically addressing students and research associates

APPLICATION FIELDS



Agriculture Management



Automotive



Big Data



Construction/Urban Management



Crowdsourcing



Education



Emergency Management



Environment



Environment Protection



Games



Geo Marketing & Retail



Health



Insurance/Finance



Marine Monitoring



Mobile Applications



Renewable Energies



Smart Cities



Tourism/Leisure

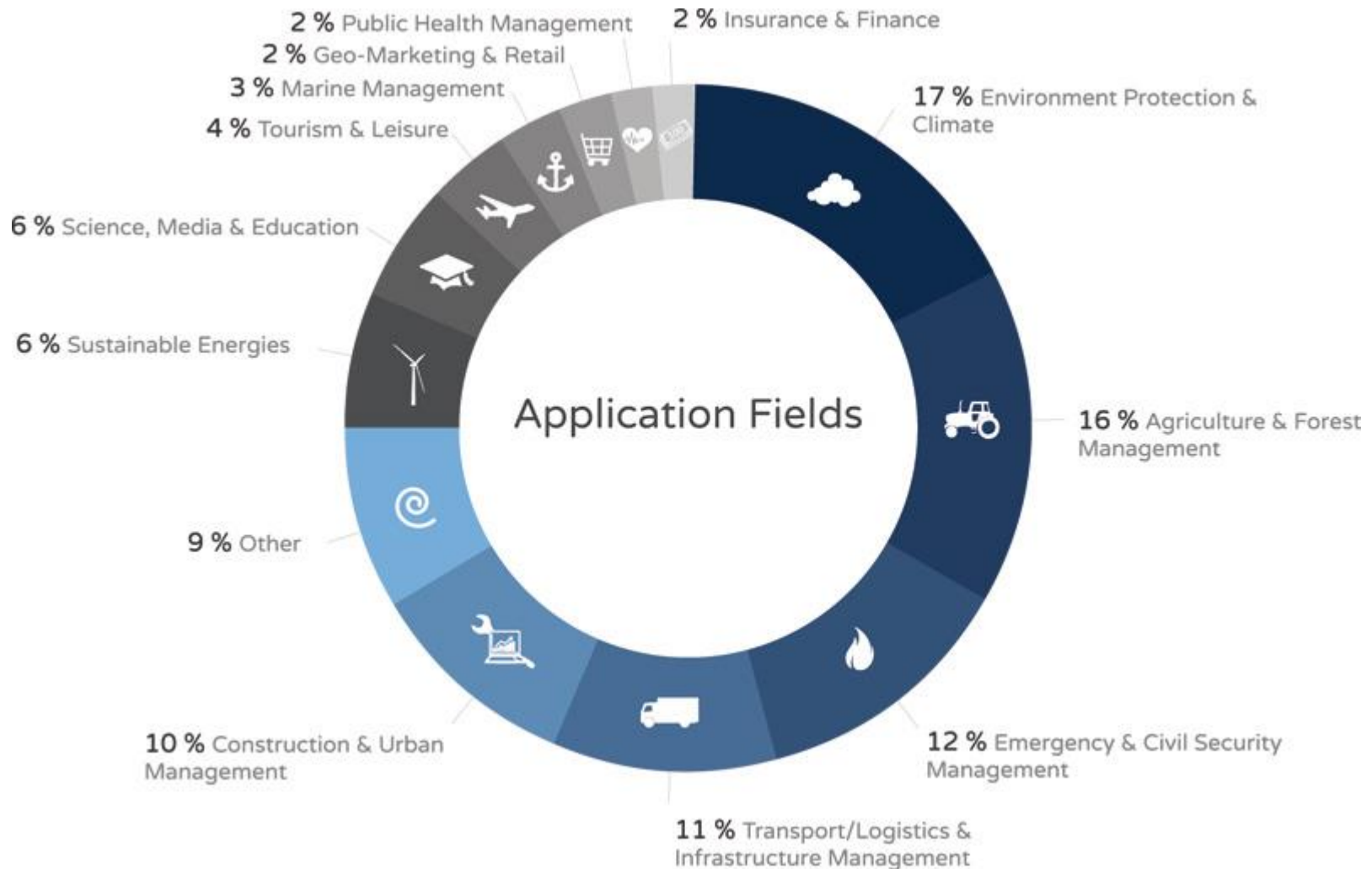


Transport/Logistics

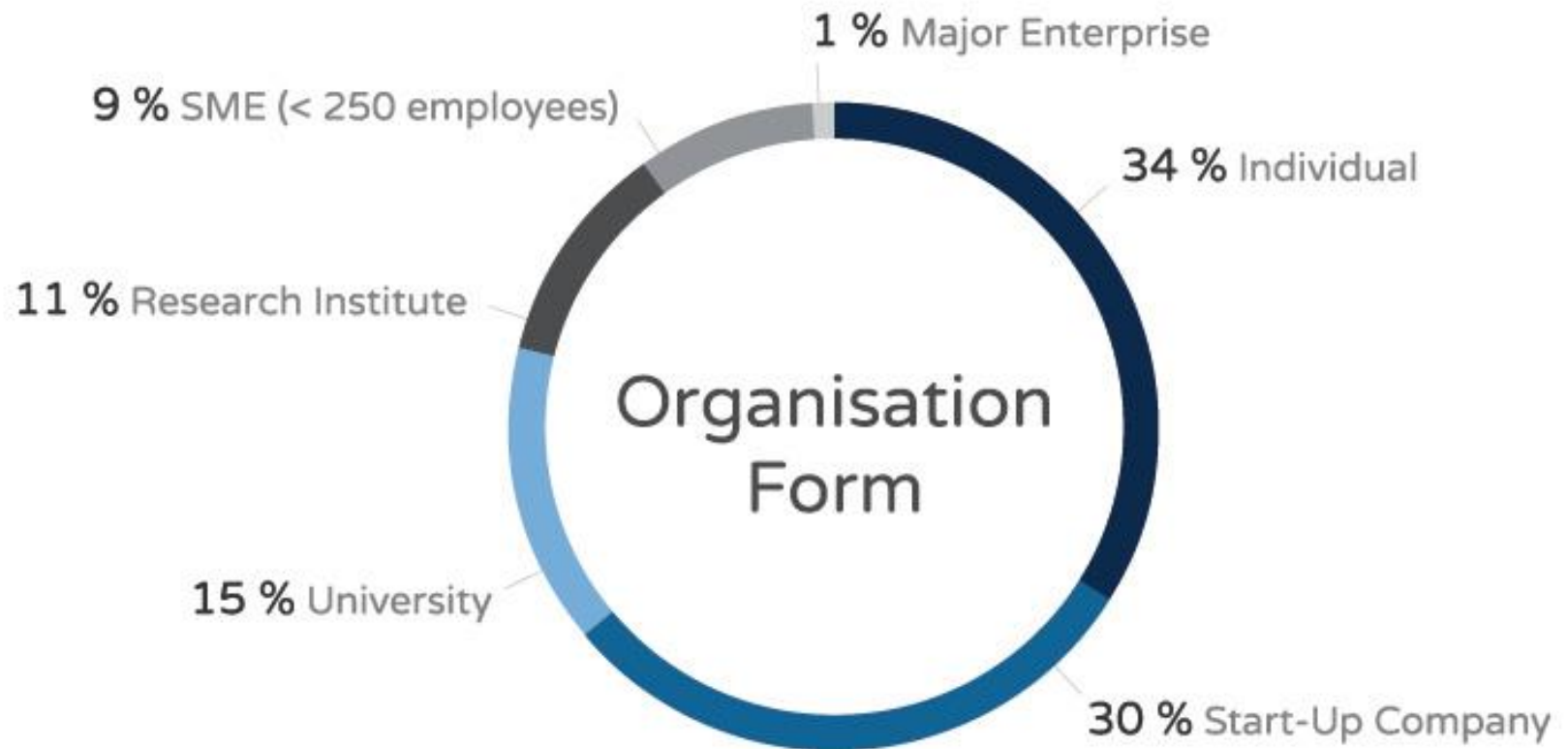
COUNTRIES OF PARTICIPANTS



APPLICATION FIELDS 2014



ORGANISATION FORM 2014



PARTNERS 2015

UPON THE INITIATIVE OF



PARTNERS



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CHALLENGES 2015



University Challenge



Smart Cities and Intelligent
Transport Challenge by
the Satellite Applications
Catapult



ESA App Challenge



NCMA Spatio-Temporal
Data Visualisation
Challenge



DLR Energy &
Environmental Challenge



Cloudeo – The Going
Live Challenge



T-Systems Big Data
Challenge



European Space Imaging
High-Res Urban
Challenge



GEO Illustration
Challenge

GET STARTED

1

THINK

Got an innovative solution for business or society based on Earth observation data from Europe's Copernicus programme (or other sources)?

2

CHOOSE A CHALLENGE

In the 2015 Copernicus Masters competition, participants can choose from exciting Challenges. Take a look and decide which fits your idea best.

3

REGISTER AND SUBMIT YOUR ENTRY

Register online and submit your innovative idea. Don't miss the chance to win prizes worth more than EUR 300,000!

PRIZE POOL 2015



CASH
PRIZES



BUSINESS
INCUBATION



BUSINESS
COACHING



TECHNICAL
SUPPORT



ACCESS TO
TESTING
FACILITIES



PROTOTYPE
DEVELOPMENT



PUBLICITY



MARKETING
SUPPORT



ACCESS TO
EXPERTS

Overall Winner:
EUR 20,000 cash + EUR 60,000 worth of satellite data

RESULTS

Generation of innovative services and business concepts

- > 9 different Challenges in 2015
- > More than 753 registered participants since 2011
- > 350 complete idea submissions from 28 countries since 2011
- > 85 experts involved in the evaluation since 2011



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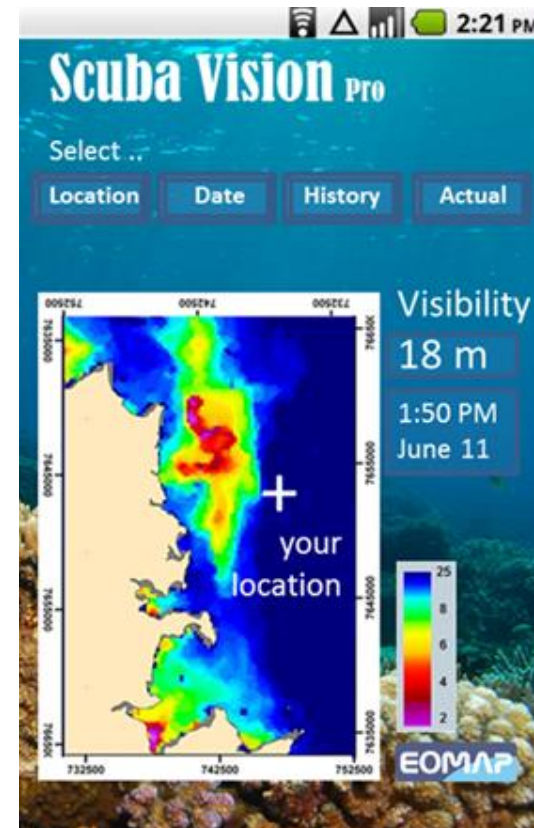


APPLICATION EXAMPLES

AquaMap

Winner ESA App Challenge 2011

- › Near real-time water quality services on mobile phones
- › Information on turbidity and algae pressures
- › Target groups:
Private users & professional offshore companies



© EOMAP

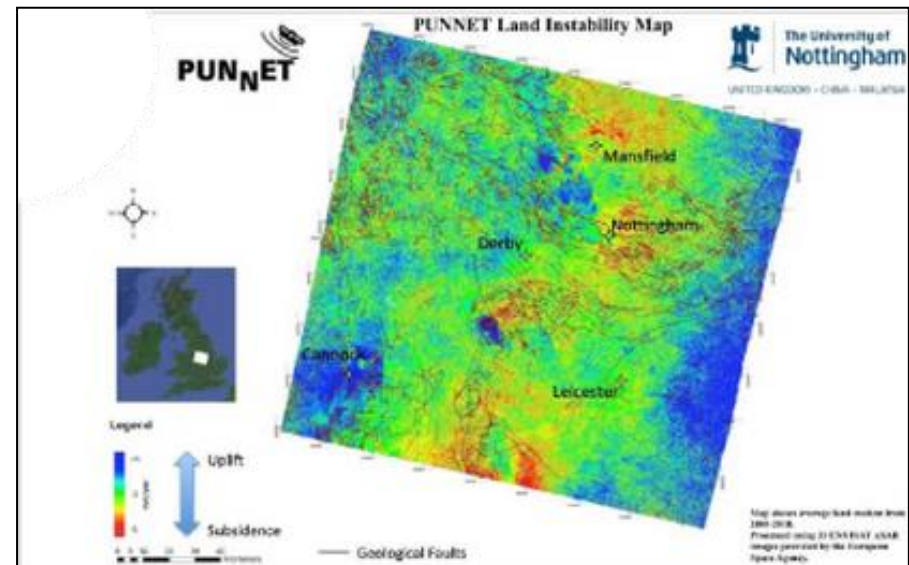
APPLICATION EXAMPLES

Punnet GEO – Land Stability Monitoring & Mapping

Winner Radar Constellation Challenge by Airbus Defence and Space & Hisdesat 2014



- › Satellite - based land stability monitoring and mapping solution
- › Cost – effective, periodic maps and monitoring of at-risk sites
- › Target groups:
Exploration, construction, environmental protection



©PUNNET

APPLICATION EXAMPLES

Cerberus – Crowdsourcing and E-Learning Platform

Winner European Space Imaging High-Res Challenge 2012



- › Crowdsourced platform for map creation
- › Game layout provides learning experience
- › Launch In November 2014 to help relief in the Philippines
- › Target groups:
NGOs, Governments,

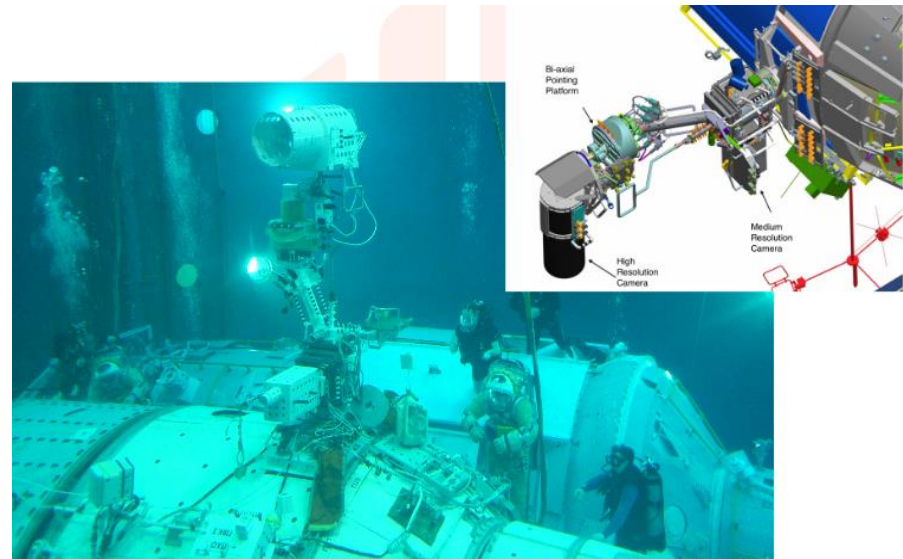


©Cerberus

SUCCESS STORIES

UrtheCast - Earth Video Camera by the Canadian company Urthecast

- > Platform for first HD video streaming of Earth from space
- > Two new developed cameras installed on ISS
- > Service operational since March 2014
- > Ultra HD video camera Iris planned to be installed on ISS



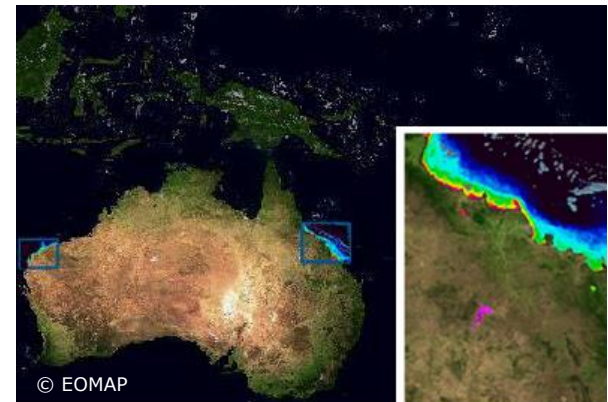
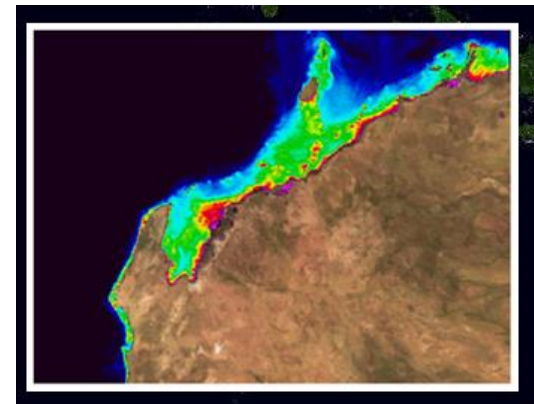
© UrthCast

SUCCESS STORIES

EOApp – daily and monthly water quality monitoring service by EOMAP

- > Bathymetry mapping of shallow waters
- > Providing values for turbidity/visibility
- > Rapid data access and mapping of large areas
- > Service is online with maps for NW and NE coast of Australia

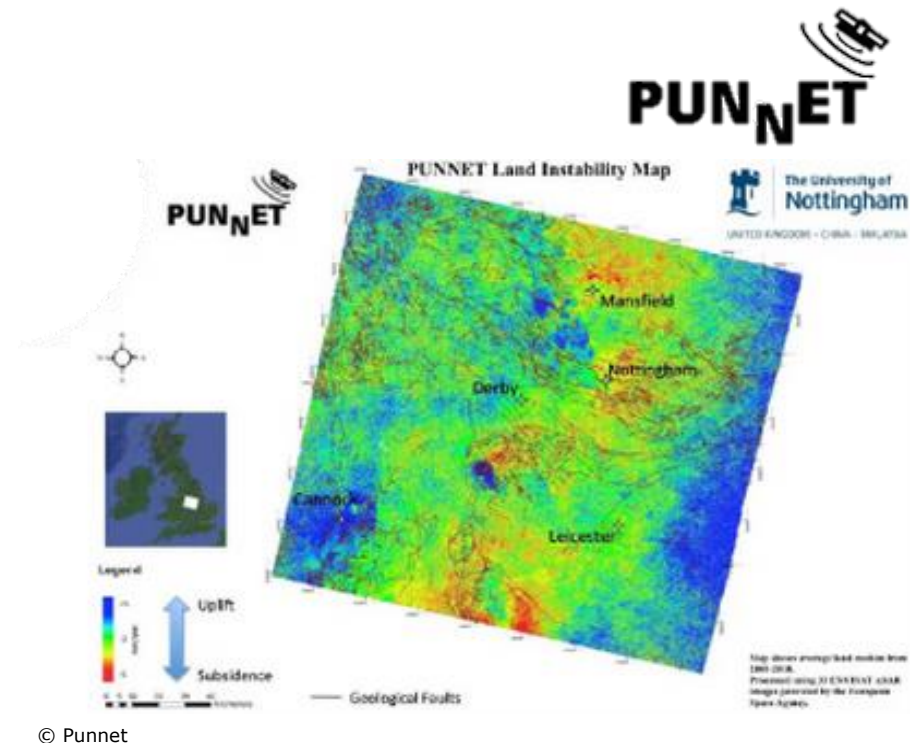
eoApp Australia



SUCCESS STORIES

Punnet GEO - a stability monitoring and mapping service by the University of Nottingham

- > Stability and Mapping tool for exploration construction and protection
- > Measures land surface deformation
- > At-Risk sites can be actively monitored
- > Application is working and raised international awareness





IMAGINE THE OPPORTUNITIES!

LAUNCH YOUR BUSINESS WITH BIG DATA FROM SPACE
SERVICES, PRODUCT, IDEAS THAT USES EO IN EVERYDAY LIFE



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