# ICTURKEY
## ISTANBUL 2016

### 30th November 2016 Istanbul, TURKEY

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TURKEY in HORIZON 2020
COOPERATION INNOVATION COMPETITIVENESS

This project is co-financed by the European Union and the Republic of Turkey

TÜBİTAK

# ICT-15-2017 – Big Data PPP:
# Large Scale Pilot actions in sectors best benefitting from data-driven innovation

## Big-Data-driven innovation ecosystem
## for Disaster Risk Reduction

umberto pernice
**collaborative innovation management**
Italy
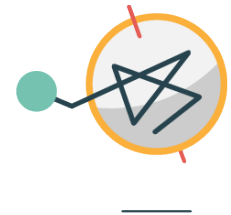+393282837781
collaborate@umbertopernice.com

> 15 years

Project Manager and Consultant

Collaborative Innovation Management

in Europe and worldwide

for Universities, Business, Governments and Third sector

**BUSINESS INNOVATION CONSULTING**

**PROJECT MANAGEMENT**

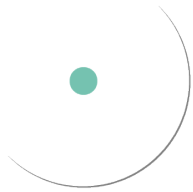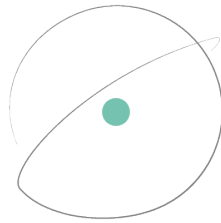**STRATEGIC NETWORKING**

**COACHING**

**REPORTING**

**DISSEMINATION AND COMMUNICATION**
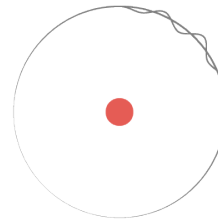
# Research & Innovation areas
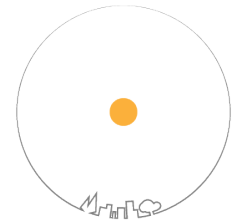
Experienced in different yet interconnected areas:

**OPEN AND SOCIAL INNOVATION**    **SPACE APPLICATIONS**    **DISASTER RESILIENCE**    **FUTURE CITIES**

Relevant EU projects:

FP7-LAMPRE (LAndslide Modelling and tools for vulnerability assessment Preparedness and Recovery management)
FP7-CATCH (Carbon-Aware Travel CHoices)
FP7-ISTIMES (Integrated System for Transport Infrastructures surveillance and Monitoring by Electromagnetic Sensing)
H2020 | Several proposals under evaluation from the EC

# Big data ecosystems and disaster resilience

*Data availability and access*

*Skills (analytics)*

*Legal (privacy, security, liability, IPR)*

*Technical (real-time analytics, low latency and scalability in processing)*

*Application and solutions*

*Business models and value chains*

*Solutions to societal challenges*

*Preparing for the disasters of today is the first step in adapting to the disasters of tomorrow (Erick Fernandes)*

# Overall objective

To demonstrate how big data (in-situ data, satellite, crowdsourced), data fusion, remote sensing and visualization technologies can be used to redesign industrial and commercial processes and data value chains in the Disaster Risk Reduction (DRR) sector...
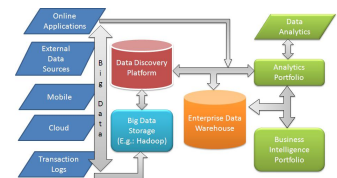


... strenghtening society resilience toward disasters caused by natural and man-made hazards (in both urban and rural areas).
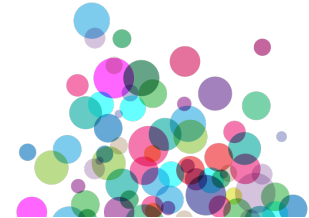
# Specific Objectives

Integrate big data, multiple EO image-processing analysis, data fusion, analytics and visualization technologies to generate environmental information management tools for DRR

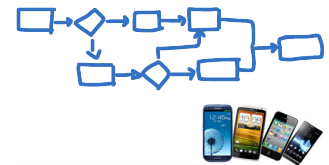Develop architectures for analytics of data and standards on big data to cope with DRR, strenghtening the European PPP on Big Data Value

Create an innovative ecosystem of 100 organizations engaged in big data large scale demonstrations

Redesign industrial and commercial processes which enhance innovation capacity of the organizations operating in the DRR sector

Increase productivity and market share of big data technology providers in the DRR sector

# Consortium | Profile of known partners

| No | Partner Name | Type | Co. | Role in the Project |
|---|---|---|---|---|
| 01 | DARES Tech http://dares.tech/ | SME | ES | Analysis and processing of big data on land cover mapping for cropping, forest, urban stability monitoring for very large areas with images every 6 days (Copernicus EO missions) and very dense and detailed information maps (1000 point/Km2) Combining global observations with in-situ monitoring systems for real-time information and in that way establish robust and efficient early warning systems for DRR |
| 02 | Informatica Trentina SpA https://www.infotn.it/ | SME | IT | GIS for urban ecosystems Geo-catalogue exploiting open data Big data applied to urban planning |

**Interested to join an existing Consortium and/or to build a Consortium**

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*Thank you ! Questions?*

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