



## FINAL DISSEMINATION CONFERENCE

The INFRARISK final dissemination conference aims to communicate the results and outputs of the project. New research will be presented regarding the development of optimal stress testing techniques for European Critical Infrastructure, which focuses on potential impacts to the European TEN-T (road and rail) network due to natural hazards, such as earthquakes, floods, and landslides.

The conference will address the following INFRARISK topics:

- Stress testing framework
- Road and rail example case studies
- INFRARISK Decision Support Tool (IDST)
- INFRARISK GIS Knowledge Base

**Thursday, 29th September 2016, Madrid**

## THE INFRARISK DECISION SUPPORT TOOL (IDST)

The INFRARISK Decision Support tool hosts specialised databases with supporting scenario simulations for natural hazards and their likelihood of occurrence in relation to CI. Data analytics modules are also supported, providing geographically mapped infrastructure vulnerabilities to natural hazards, in terms of structural damage and functionality loss for CI networks.

The IDST is a web-enabled system portal, which is accessible via a user-friendly web browser under multiple client platforms (laptop, tablet, etc.)

The established GIS Knowledge Base will allow users to upload, transform and query data relating to infrastructure components and natural disaster events. The target users of this knowledge base are infrastructure managers but also researchers (risk management, transportation, civil engineering, natural sciences, etc.) would benefit significantly from this extensive database.

Training activities on the INFRARISK Decision Support Tool are been developed to support the work of managers, stakeholders, and policy makers on estimating expected impact on European TEN-T (road and rail) critical infrastructure of natural hazard events (earthquakes, floods, and landslides).

**Save the Date!**

**29 September 2016**

**INFRARISK**

**Final Dissemination Conference**

**Madrid, Spain**

Final Dissemination Conference

<http://www.infrarisk-fp7.eu/content/infrarisk-final-dissemination-conference>



IDST

[www.infrarisk.it-innovation.soton.ac.uk](http://www.infrarisk.it-innovation.soton.ac.uk)



Announcing spot on INFRARISK training activities

[www.infrarisk-fp7.eu](http://www.infrarisk-fp7.eu)

## CASE Study Application: Road Network in Northern Italy

The case study road network is located in Northern Italy along the Scandinavian-Mediterranean corridor of the TEN-T network, which is considered a vital axis for the European economy. The risk to the road network is evaluated due to extreme earthquake hazard scenarios and the associated cascading effects in terms of earthquake-triggered landslides.

The Italian road network is located in the Emilia Romagna Region and is distributed over an area of approximately 990 km<sup>2</sup> in the vicinity of the city of Bologna. Along this network, 340 bridges (excluding culverts) and 40 tunnels were identified.

The seismic vulnerability of the network bridges and tunnels is considered, as well as the vulnerability of road sections to earthquake-triggered landslides.

The direct consequences to the network are analysed in terms of physical damage to the network elements. In addition, the indirect consequences to the region are analysed in terms of the additional travel times encountered by road users and the associated economic losses.

## EDUCATIONAL MATERIALS

As part of the dissemination strategy in INFRARISK, video-educational materials covering the main topics of the project (natural hazards, critical infrastructures, stress tests) are been developed. To-date, the educational videos on “natural hazards” and “critical infrastructures” are available at the website.

## FACTSHEETS and FLYERS

INFRARISK Factsheet 2

<http://www.infrarisk-fp7.eu/content/eu-fact-sheet-2>

INFRARISK Flyer 2

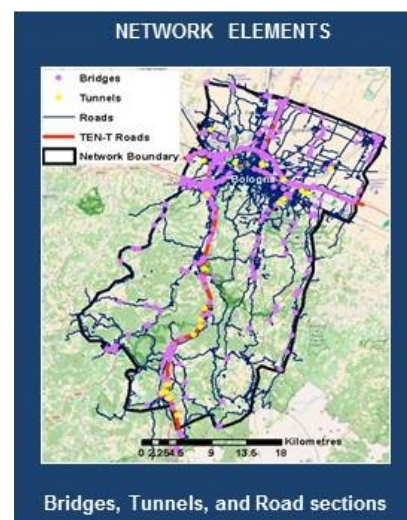
<http://www.infrarisk-fp7.eu/content/brochure-2>

## INFRARISK at European projects' Workshops

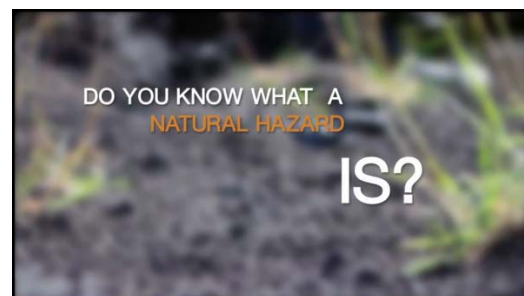
INFRARISK has established an effective collaboration between European projects dealing with similar issues.

Workshops in The Netherlands (RAIN, 04.04.2016), Brussels (INTACT, 14.01.2016), Dublin (RAIN, 09.11.2015), Berlin (RAIN, 27.02.2015), Dublin (INFRARISK-INTACT-RAIN-SNOWBALL, 22.05.2015), and Ispra (STREST, 29-31.10.2014) were attended.

[www.infrarisk-fp7.eu/content/coordination-meetings](http://www.infrarisk-fp7.eu/content/coordination-meetings)



Case Study 1: Network elements



Educational materials 1: Natural hazards

[www.infrarisk-fp7.eu/content/natural-hazards](http://www.infrarisk-fp7.eu/content/natural-hazards)



Educational materials 2: Critical Infrastructure

[www.infrarisk-fp7.eu/content/critical-infrastructures](http://www.infrarisk-fp7.eu/content/critical-infrastructures)

## PUBLICATIONS

The results of the project are communicated through the participation of partners in international key scientific/technical conferences and national conferences (14 international conferences and 3 national conferences have been attended since the beginning of the project).

To-date, five papers were published in peer-reviewed journals, five articles were published in conference proceedings, and 2 articles were published in specialized EU publications. A number of further publications are in the preparation phase.

[www.infrarisk-fp7.eu/content/publications](http://www.infrarisk-fp7.eu/content/publications)

## EVENTS

At the different stages of development of the project INFRARISK has organized a number of meetings and workshops which were attended by the members of the Consortium.

Two days project- progress meetings have been held every six months that were organized by different partners in different venues. At these meetings, main issues on administrative and technical aspects of the project were discussed.

A number of dedicated workshops have been also organized to discuss and coordinate specifically some technical and scientific aspects of the different work packages to ensure the implementation and development of fully compatible methodologies.

## EVENTS

### Upcoming Final event:

- Final Dissemination Conference, **29<sup>th</sup> September 2016**, Madrid

### Past Meetings:

- 12M Progress Meeting. The Hague (PSCT), The Netherlands, 30 October 2014
- 18M Progress Meeting. Madrid (CSIC), Spain, 5-6 March 2015
- 24M Progress Meeting. Southampton (IT), 8-9 October 2015
- 30M Progress Meeting. Oslo (SINTEF), Norway, 8-9 MARCH 2016

### Past Workshops:

- Case Studies Workshop 2, London (UCL), UK, 29 January 2015
- GMA Workshop 3, Zurich (ETHZ), Switzerland, 28-29 March 2015
- GMA Workshop 4, Dublin (GDG), Ireland, 9-10 September 2015
- Stress Test Workshop, Zurich (ETHZ), Switzerland, 28 January, 2016
- GMA Workshop 5, Dublin (ROD), Ireland, 18-19 May 2016

For more information: Visit our web page [www.infrarisk-fp7.eu](http://www.infrarisk-fp7.eu)



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