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# Novel Indicators for identifying critical INFRAstructure at RISK from natural hazards

## Fact Sheet

### Project Information

#### INFRARISK

Grant agreement ID: 603960

[Project website](#) 

Project closed

#### Start date

1 October 2013

#### End date

30 September 2016

#### Funded under

Specific Programme "Cooperation": Environment  
(including Climate Change)

#### Total cost

€ 3 658 480,80

#### EU contribution

€ 2 802 336,35

#### Coordinated by

ROUGHAN & O'DONOVAN  
LIMITED

 Ireland

## Objective

The achievements of the European Union targets regarding energy and socio-economic sustainability are highly dependent on the way risks and vulnerabilities of European operating infrastructure networks and critical assets are minimised against natural extreme events. The INFRARISK project will develop reliable stress tests on European critical infrastructure using integrated modelling tools for decision-support. It will lead to higher infrastructure networks resilience to rare and low probability extreme events, known as "black swans". INFRARISK will advance decision making

approaches and lead to better protection of existing infrastructure while achieving more robust strategies for the development of new ones. INFRARISK proposes to expand existing stress test procedures and adapt them to critical land-based infrastructure which may be exposed to or threatened by natural hazards. Integrated risk mitigation scenarios and strategies will be employed, using local, national and pan-European infrastructure risk analysis methodologies. These will take into consideration multiple hazards and risks with cascading impact assessments. The INFRARISK approach will robustly model spatio-temporal processes with propagated dynamic uncertainties in multiple risk complexity scenarios of Known Unknowns and Unknown Unknowns. An operational framework with cascading hazards, impacts and dependent geospatial vulnerabilities will be developed. This framework will be a central driver to practical software tools and guidelines that provide greater support to the next generation of European infrastructure managers to analyse and handle scenarios of extreme events. The minimisation of the impact of such events by the supporting tools shall establish optimum mitigation measures and rapid response. INFRASRISK will deliver a collaborative integrated platform where risk management professionals access and share data, information and risk scenarios results efficiently and intuitively.

## Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > **[software](#)**

[social sciences](#) > [sociology](#) > [governance](#) > **[crisis management](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > [physical geography](#) > **[natural disasters](#)**



## Programme(s)

[FP7-ENVIRONMENT - Specific Programme "Cooperation": Environment \(including Climate Change\)](#)

## Topic(s)

[ENV.2013.6.4-4 - Towards stress tests for critical infrastructures against natural hazards](#)

## Call for proposal

FP7-ENV-2013-two-stage

[See other projects for this call](#)

# Funding Scheme

[CP - Collaborative project \(generic\)](#)

## Coordinator



### ROUGHAN & O'DONOVAN LIMITED

EU contribution

**€ 521 410,50**

Total cost

**No data**

Address

**ARENA ROAD ARENA HOUSE  
18 SANDYFORD**

 **Ireland** 

Region

**Ireland > Eastern and Midland > Dublin**

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

## Participants (10)

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### EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

 **Switzerland**

EU contribution

**€ 344 800,00**

Address

**Raemistrasse 101  
8092 Zuerich** 

Region

**Schweiz/Suisse/Svizzera > Zürich > Zürich**

Activity type

## Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## DRAGADOS SA

 Spain

EU contribution

**€ 131 250,00**

Address

**AVENIDA DEL CAMINO DE SANTIAGO 50  
28050 MADRID** 

Region

**Comunidad de Madrid > Comunidad de Madrid > Madrid**

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## GAVIN AND DOHERTY GEOSOLUTIONS LTD

 Ireland

EU contribution

**€ 354 660,00**

Address

**KILLACLORAN UPPER  
- Aughrim Wicklow** 

Region

**Ireland > Eastern and Midland > Mid-East**

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## **PROBABILISTIC SOLUTIONS CONSULT AND TRAINING**

 Netherlands

EU contribution

**€ 236 905,60**

Address

**NOOTDORPSE LANDINGSLAAN 292**

**2496 TB DEN HAAG** 

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## **AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS**

 Spain

EU contribution

**€ 230 178,00**

Address

**CALLE SERRANO 117**

**28006 Madrid** 

Region

**Comunidad de Madrid > Comunidad de Madrid > Madrid**

Activity type

**Research Organisations**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**



## UNIVERSITY COLLEGE LONDON

EU contribution

**€ 512 025,60**

Address

**GOWER STREET  
WC1E 6BT LONDON** 

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**



## PRAK PETER LEONARD

 Netherlands

EU contribution

**€ 135 837,60**

Address

**AMERIKALAAN 62  
3404 ZS IJSSELSTEIN** 

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## STIFTELSEN SINTEF

 Norway

EU contribution

**€ 77 562,25**

Address

**STRINDVEIEN 4**

**7034 Trondheim** 

Region

**Norge > Trøndelag > Trøndelag**

Activity type

**Research Organisations**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

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## RITCHEY CONSULTING AB

 Sweden

EU contribution

**€ 85 831,80**

Address

**TIDELIUSGATAN 42**

**118 69 STOCKHOLM** 

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**



## UNIVERSITY OF SOUTHAMPTON

 United Kingdom

EU contribution

**€ 171 875,00**

Address

**Highfield**

**SO17 1BJ Southampton** 

Region

**South East (England) > Hampshire and Isle of Wight > Southampton**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**No data**

**Last update:** 5 June 2017

**Permalink:** <https://cordis.europa.eu/project/id/603960>

European Union, 2025