

 Content archived on 2024-05-27



Risk Analysis of Infrastructure Networks in response to extreme weather

Fact Sheet

Project Information

RAIN

Grant agreement ID: 608166

[Project website](#) 

Project closed

Start date

1 May 2014

End date

30 April 2017

Funded under

Specific Programme "Cooperation": Security

Total cost

€ 4 611 933,40

EU contribution

€ 3 493 600,00

Coordinated by

THE PROVOST, FELLOWS,
FOUNDATION SCHOLARS & THE
OTHER MEMBERS OF BOARD,
OF THE COLLEGE OF THE HOLY
& UNDIVIDED TRINITY OF
QUEEN ELIZABETH NEAR
DUBLIN

 Ireland

Objective

The RAIN vision is to provide an operational analysis framework that identifies critical infrastructure components impacted by extreme weather events and minimise the impact of these events on the EU infrastructure network. The project has a core

focus on land based infrastructure with a much wider consideration of the ancillary infrastructure network in order to identify cascading and inter-related infrastructure issues. A core component of the research will consider the implications of climate change and the subsequent impacts that this may have on an already ageing and vulnerable infrastructure system. The impact of these disruptions on both the key components and the wider pan-European network will be assessed using economic and social markers that will identify and rank a series of “worst case” scenarios. Technical and Logistic solutions will be developed to minimise the impact of these extreme events, which will include novel early warning systems, decision support tools and engineering solutions to ensure rapid reinstatement of the network. These tools will be implemented within a fresh Europe-wide operational and response strategy that will build on previous European infrastructure models. The robustness of the existing transport and energy networks to deal with changing weather conditions will be analysed in detail. The ability of this response plan to transcend borders will be guaranteed by the multi-disciplinary consortium. The project grouping will have expertise in climatology, operational analysis, transportation economics, risk analysis and mitigation, emergency planning, transportation engineering as well as engineering design and assessment. The outputs from the project will result in enhanced safety and reliability of critical infrastructure networks in the case of major weather induced disruptions and will address European policy in the areas of safety and security, inter-modality and emergency response planning.

Fields of science (EuroSciVoc)

[social sciences](#) > [economics and business](#) > [economics](#)

[engineering and technology](#) > [civil engineering](#) > [transportation engineering](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > [climatic changes](#)



Programme(s)

[FP7-SECURITY - Specific Programme "Cooperation": Security](#)

Topic(s)

[SEC-2013.2.1-2 - Impact of extreme weather on critical infrastructure – Capability Project](#)

Call for proposal

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN

EU contribution

€ 432 727,75

Total cost

No data

Address

COLLEGE GREEN TRINITY COLLEGE
D02 CX56 Dublin

 Ireland 

Region

Ireland > Eastern and Midland > Dublin

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (15)



European Severe Storms Laboratory e.V.

 Germany

EU contribution

€ 327 720,00

Address

Muenchner Str 20
82234 Wessling 

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data



ZILINSKA UNIVERZITA V ZILINE

 Slovakia

EU contribution

€ 113 760,00

Address

UNIVERZITNA 8215/1
010 26 Zilina 

Region

Slovensko > Stredné Slovensko > Žilinský kraj

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



TECHNISCHE UNIVERSITEIT DELFT

 Netherlands

EU contribution

€ 340 010,00

Address

STEVINWEG 1
2628 CN Delft 

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



GAVIN AND DOHERTY GEOSOLUTIONS LTD

 Ireland

EU contribution

€ 232 800,00

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



DRAGADOS SA

 Spain

EU contribution

€ 202 200,75

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



FREIE UNIVERSITAET BERLIN

 Germany

EU contribution

€ 197 832,00

Address

KAISERSWERTHER STRASSE 16-18
14195 Berlin 

Region

Berlin > Berlin > Berlin

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



ROUGHAN & O'DONOVAN LIMITED

 Ireland

EU contribution

€ 268 744,00

Address

ARENA ROAD ARENA HOUSE
18 SANDYFORD 

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](#) 

Total cost

No data



HELLENBERG INTERNATIONAL OY

 Finland

EU contribution

€ 212 100,00

Address

FREDRIKINKATU 55 A
00100 Helsinki 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

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



ISTITUTO DI SOCIOLOGIA INTERNAZIONALE DI GORIZIA

 Italy
EU contribution
€ 74 298,00

Address
VIA MAZZINI 13
34170 Gorizia 

Region
Nord-Est > Friuli-Venezia Giulia > Gorizia

Activity type
Research Organisations

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PRAK PETER LEONARD

 Netherlands
EU contribution
€ 144 400,00

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



ILMATIETEEN LAITOS

 Finland

EU contribution

€ 232 431,50

Address

Erik Palmenin aukio 1
00560 Helsinki 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



YOURIS.COM

 Belgium

EU contribution

€ 177 700,00

Address

DREVE DU PRESOIR 38
1190 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



INDEPENDENT POWER TRANSMISSION OPERATOR SA

Greece

EU contribution

€ 83 880,00

Address

Dyrrachiou str. & Kifisou 89
10443 Athens

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

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



APLICACIONES EN INFORMATICA AVANZADA SL

Spain

EU contribution

€ 452 996,00

Address

EDIFICIO ESADECREAPOLIS AV.TORRE BLANCA 57
08172 SANT CUGAT DEL VALLES BARCELONA

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



UFD DISTRIBUCION ELECTRICIDAD SA 

 Spain

EU contribution

No data

Address

AVENIDA SAN LUIS 77

28033 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

Last update: 21 June 2017

Permalink: <https://cordis.europa.eu/project/id/608166>

European Union, 2025