Training in Reducing Uncertainty in Structural Safety

Fact Sheet

Project Information

TRUSS
Grant agreement ID: 642453

Funded under
H2020-EU.1.3.1.

Project website

Overall budget
€ 3 701 306,88

EU contribution
€ 3 701 306,88

Start date
1 January 2015

End date
31 December 2018

Coordinated by
UNIVERSITY COLLEGE DUBLIN,
NATIONAL UNIVERSITY OF
IRELAND, DUBLIN
Ireland

Objective

The growth of cities, impacts of climate change and the massive cost of providing new infrastructure provide the impetus for this proposal – entitled Training in Reducing Uncertainty in Structural Safety (TRUSS) – which will maximize the potential of infrastructure that already exists. If flaws in a structure can be identified early, the cost of repair will be vastly reduced, and here an effective monitoring system would allow identifying the optimum time to repair as well as improving structural safety. But safety is difficult to quantify and requires a deep understanding of the uncertainty associated to measurements and models for the structure and the loads. TRUSS will gather this understanding by bringing together an intersectoral and multidisciplinary collaboration between 4 Universities, 11 Industry participants and 1 research institute from 6 European countries. The consortium will combine and share expertise to offer training at an advanced level as new concepts for monitoring, modelling and reliability analysis of structures are emerging all the time. TRUSS will
make knowledge of structural safety grow by incorporating these emerging technologies (hi-tech monitoring and manufacturing, computing, etc.) into the training programme and it will support job creation by enabling a wider talent pool of skilled and accredited engineering graduates with business, entrepreneurship, communication, project management and other transferrable skills. The training programme will be structured into taught modules combined with original research supported by secondments that will expose 14 fellows to both academia and industry. While developing tools that will reduce uncertainty in structural safety and improve infrastructure management, TRUSS will lay the basis for an advanced doctoral programme that will qualify graduates for dealing with the challenges of an aging European infrastructure stock, thereby enhancing their career prospects in both industry and academia.

Programme(s)

Topic(s)

Call for proposal

H2020-MSCA-ITN-2014

Funding Scheme

MSCA-ITN-ETN - European Training Networks

Coordinator

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

Address

Belfield
4 Dublin
Ireland

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 797 023,80

Website
Contact the organisation

Participants (8)

THE UNIVERSITY OF NOTTINGHAM
United Kingdom
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tbody>
<tr>
<td>UNIVERSITY POLITECNICA DE CATALUNYA</td>
<td>€ 495 745,92</td>
<td>Calle Jordi Girona 31</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>LLOYD'S REGISTER EMEA IPS</td>
<td>€ 546 575,76</td>
<td>Fenchurch Street 71</td>
<td>Other</td>
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<tr>
<td>EQUIPOS NUCLEARES SA SME</td>
<td>€ 247 872,96</td>
<td>Avenida Juan Carlos I N 8</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>FULL SCALE DYNAMICS LIMITED</td>
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<td>Organisation Name</td>
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<td>PHI-MECA ENGINEERING</td>
<td>France</td>
<td>€ 262 875,60</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>THE PROVOST, FELLOWS, FOUNDATION SCHOLARS &amp; THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY &amp; UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN</td>
<td>Ireland</td>
<td>€ 265 674,60</td>
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<td>Ireland</td>
<td>€ 265 674,60</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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Partners (7)

Burgmann Packings Ltd
Ireland

Address
Cookstown Industrial Estate
48
Dublin 24 Dublin

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

Contact the organisation

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

Contact the organisation

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

Website
Contact the organisation

CRACK INGENIERIA CATALANA S.L.
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Activity type
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Contact the organisation
COMSA SAU

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

Contact the organisation

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Activity type
Private for-profit entities
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Website
Contact the organisation

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Crowthorne House Nine Mile Ride
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

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