

**HORIZON  
2020**

# New integrated methodology and Tools for Retrofit design towards a next generation of ENergy efficient and sustainable buildings and Districts

## Fact Sheet

### Project Information

#### NewTREND

Grant agreement ID: 680474

[Project website](#) 

#### DOI

[10.3030/680474](https://doi.org/10.3030/680474) 

Project closed

#### EC signature date

20 July 2015

#### Start date

1 September 2015

#### End date

31 August 2018

#### Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing

#### Total cost

€ 5 732 387,50

#### EU contribution

€ 4 715 615,00

#### Coordinated by

INTEGRATED ENVIRONMENTAL  
SOLUTIONS LIMITED

 United Kingdom

This project is featured in...



## Deep Renovation - New approaches to transform the renovation market

### Objective

NewTREND seeks to improve the energy efficiency of the existing European building stock and to improve the current renovation rate by developing a new participatory integrated design methodology targeted to the energy retrofit of buildings and neighbourhoods, establishing energy performance as a key component of refurbishments. The methodology will foster collaboration among stakeholders in the value chain, engaging occupants and building users and supporting all the refurbishment phases through the whole life cycle of the renovation. The methodology will be supported by an online platform to ease collaborative design, which will play the role of exchanging information and facilitating dialogue between the different stakeholders involved in the retrofit process. It will store all the information useful to the design of the retrofit intervention in a cloud based interoperable data exchange server, i.e. the District Information Model server, which has the ability to and export multiple file formats thanks to semantic web technologies. A Data Manager tool will be developed to guide the designers in the data collection phase, which might be a complex task for retrofit projects where information and drawings are scattered or even not available. The NewTREND platform will be a tool for collaborative design allowing evaluation of different design options at both building and district level through dynamic simulations via a Simulation & Design Hub. Design options, including district schemes and shared renewables will be presented to the design team, together with available financing schemes and applicable business models, in a library which will build on lessons from past and ongoing R&D projects. The NewTREND methodology and tools will be validated in three real refurbishment projects in Hungary, Finland and Spain where the involvement of all the stakeholders in the design process, will be evaluated and specific activities will be dedicated to inhabitants and users

### Fields of science (EuroSciVoc)

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

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > **[data exchange](#)**

[natural sciences](#) > [computer and information sciences](#) > [internet](#) > **[semantic web](#)**

[engineering and technology](#) > [civil engineering](#) > [architecture engineering](#) > [sustainable architecture](#) > **[sustainable building](#)**



## Keywords

[retrofit design](#)

[Building Information modeling](#)

[collaborative design](#)

[energy simulations](#)

## Programme(s)

[H2020-EU.2.1.5. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing.](#)

MAIN PROGRAMME

[H2020-EU.2.1.5.2. - Technologies enabling energy-efficient systems and energy-efficient buildings with a low environmental impact](#)

## Topic(s)

[EeB-05-2015 - Innovative design tools for refurbishing of buildings at district level](#)

## Call for proposal

[H2020-EeB-2014-2015](#) 

[See other projects for this call](#)

## Sub call

H2020-EeB-2015

## Funding Scheme

[IA - Innovation action](#)

# Coordinator



## INTEGRATED ENVIRONMENTAL SOLUTIONS LIMITED

Net EU contribution

€ 632 187,50

Total cost

€ 903 750,00

Address

KELVIN CAMPUS WEST OF SCOTLAND SCIENCE PARK HELIX BUILDING

G20 OSP Glasgow

United Kingdom

SME

Yes

Region

Scotland > West Central Scotland > Glasgow City

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](#)

## Participants (15)



## ABUD MERNOKIRODA KFT

Hungary

Net EU contribution

€ 258 037,50

Address

SZEBENI UTCA 12

1221 Budapest

SME

Yes

Region

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

€ 368 625,00



JAKOB ULI

Germany

Net EU contribution

€ 0,00

Address



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



INTERNATIONAL INIZIATIVE FOR A SUSTAINABLE BUILT ENVIRONMENT  
ITALIA RESEARCH AND DEVELOPMENT SRL - IMPRESA SOCIALE

Italy

Net EU contribution

€ 300 730,00

Address

VIA PAOLO BORSELLINO 38/16  
10144 Torino



SME 

Yes

Region

Nord-Ovest > Piemonte > Torino

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 429 615,00



REGENERA LEVANTE SL

 Spain

Net EU contribution

€ 215 250,00

Address

POLIGONO INDUSTRIAL CAMPOSOL CA 55  
30006 Murcia 

SME 

Yes

Region

Sur > Región de Murcia > Murcia

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

€ 307 500,00



GRANLUND OY

 Finland

Net EU contribution

€ 274 750,00

Address

Malminkaari 21  
00701 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

€ 569 375,00

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 THIRD-PARTY 

GRANLUND CONSULTING OY

 Finland

Net EU contribution

€ 123 812,50

Address

MALMINKAARI 21  
00700 Helsinki 

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

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



## UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

 Ireland

Net EU contribution

€ 369 982,50

Address

**WESTERN ROAD**

**T12 YN60 Cork** 

Region

**Ireland > Southern > South-West**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 369 982,50



## UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

 Ireland

Net EU contribution

€ 373 125,00

Address

**BELFIELD**

**4 Dublin** 

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](#) 

Total cost

€ 373 125,00

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## HOCHSCHULE FUR ANGEWANDTE WISSENSCHAFTEN MUNCHEN

 Germany

Net EU contribution

€ 615 325,00

Address

**LOTHSTRASSE 34**  
**80335 Munchen** 

Region

**Bayern > Oberbayern > München, Kreisfreie Stadt**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 616 250,00

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## LONDON BUSINESS SCHOOL

 United Kingdom

Net EU contribution

€ 411 040,00

Address

**REGENT S PARK**  
**NW1 4SA London** 

Region

**London > Inner London — West > Westminster**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

Total cost  
**€ 411 665,00**



**STAMTECH SRL** 

 Italy

Net EU contribution  
**€ 40 608,09**

Address  
**VIA VENTI SETTEMBRE 18/5**  
**16121 Genova** 

SME   
**Yes**

Region  
**Nord-Ovest > Liguria > Genova**

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  
**€ 58 011,56**



**AJUNTAMIENTO DE SANT CUGAT DEL VALLES**

 Spain

Net EU contribution  
**€ 191 250,00**

Address  
**PLACA DE LA VILA 1**  
**08172 Sant Cugat Del Valles Barcelona** 

Region  
**Este > Cataluña > Barcelona**

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 191 250,00



UNIVERSITA POLITECNICA DELLE MARCHE

Italy

Net EU contribution

€ 387 500,00

Address

PIAZZA ROMA 22  
60121 Ancona



Region

Centro (IT) > Marche > Ancona

Activity type

Higher or Secondary Education Establishments

Links

- Contact the organisation
- Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 387 500,00



DR. JAKOB ENERGY RESEARCH GMBH & CO. KG

Germany

Net EU contribution

€ 212 625,00

Address

PESTALOZZISTRASSE 3  
71384 Weinstadt



SME 

Yes

Region

Baden-Württemberg > Stuttgart > Rems-Murr-Kreis

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

€ 303 750,00



STAM SRL

 Italy

Net EU contribution

€ 309 391,91

Address

VIA PARETO 8 AR

16129 Genova Ge 

SME 

Yes

Region

Nord-Ovest > Liguria > Genova

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

€ 441 988,44

Last update: 24 June 2024

**Permalink:** <https://cordis.europa.eu/project/id/680474>

European Union, 2025

