Objective

Despite recent evolutions of tools/practices in the Architecture Engineering, Construction and Facility Management have already resulted in considerable advances, some limitations remain, related to the complexity and variability of building life cycles, addressing building end user awareness and participation, lack of new business models, life cycle fragmentation, limited interoperability of the ICT supports.

The main objective of HOLISTEEC is thus to design, develop, and demonstrate a BIM-based, on-the-cloud, collaborative building design software platform, featuring advanced design support for multi-criteria building optimization. This platform will account for all physical phenomena at the building-level, while also taking into account external, neighbourhood-level influences. The design of this platform will rely on actual, field feedback and related business models / processes, while enabling building design & construction practitioners to take their practices one step forward.
HOLISTEEC main assets are: (i) an innovative feedback loop design workflow (ii) a multi-physical, multi-scale simulation engine; (iii) A unified data model for Building and Neighbourhood Digital Modeling (iv) a full-fledged open software infrastructure for building design tools interoperability leveraging available standards; (v) innovative and flexible user interfaces.

HOLISTEEC is expected to have a direct impact at a macro level on the construction sector as a whole, through the following aspects: improved overall process efficiency, improved stakeholders collaboration and conflict resolution, lifecycle cost reduction, reduction of errors and reworks. These impacts will be quantitatively evaluated during the demonstration and validation phase of the project, where the proposed design methodology and tools will be extensively applied to four real construction projects, in parallel to standard design approaches.

Field of science

/Engineering and technology/civil engineering/architecture engineering

Programme(s)

Topic(s)

Call for proposal

FP7-2013-NMP-ENV-EeB

Funding Scheme

CP-IP - Large-scale integrating project

Coordinator

RINA CONSULTING SPA

Address
Via Cecchi 6
16129 Genova
Italy

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

EU contribution
€ 703 015.58

Website

Contact the organisation
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEKNOLOGIAN TUTKIMUSKESKUS VTT</td>
<td>€ 201,420</td>
<td>Teknikantie 4 A, 02044 VTT Espoo</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>KONINKLIJKE BAM GROEP NV</td>
<td>€ 215,155</td>
<td>Runnenburg 9, 3981 AZ Bunnik</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>ACCIONA CONSTRUCCION SA</td>
<td>€ 215,155</td>
<td>Avenida De Europa 18 Parque Empresarial, 28108 Alcobendas</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>Organisation</td>
<td>Country</td>
<td>EU contribution</td>
<td>Address</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------</td>
<td>-----------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>ALLPLAN SLOVENSKO SRO</td>
<td>Slovakia</td>
<td>€ 223,587.90</td>
<td>Jarosova 1 83103 Bratislava</td>
</tr>
<tr>
<td>SENAATTI-KIINTEISTOT</td>
<td>Finland</td>
<td>€ 301,680</td>
<td>Lintulahdenkatu 5 A 00530 Helsinki</td>
</tr>
<tr>
<td>ENGIE</td>
<td>France</td>
<td>€ 342,526</td>
<td>1 Place Samuel De Champlain 92400 Courbevoie</td>
</tr>
</tbody>
</table>
S.T.I. ENGINEERING SRL

Italy
EU contribution
€ 240 400
Address
Via Rodeano 48
33038 San Daniele Del Friuli
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Contact the organisation
Administrative Contact
Andrea Simoni (Mr.)

BERGAMO TECNOLOGIE SPZOO

Poland
EU contribution
€ 143 600
Address
Ulica Sienkiewicza 5
95050 Konstantynow Lodzki
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Contact the organisation
Administrative Contact
Gianni Cassera (Mr.)

CYPE SOFT SL

Spain
EU contribution
€ 162 400
Address
Avenida Eusebio Sempere 5 -
Escalera 4- 1 ° A
03003 Alicante
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Contact the organisation
Administrative Contact
Carmen Blanes Barberá (Mrs.)
G.E.M. TEAM SOLUTIONS GBR

Germany
EU contribution
€ 242 400

Address
Hermann Wehrle Strasse 18
67433 Neustadt

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

Website

Administrative Contact
Michaelis Eberhard (Mr.)

GEOMOD SARL

France
EU contribution
€ 186 000

Address
Rue De La Villette 89
69003 Lyon

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

Website

Administrative Contact
Philippe Bischoff (Mr.)

PICH-AGUILERA ARQUITECTOS SL

Spain
EU contribution
€ 192 693,62

Address
Calle Avila 138 4 1
08018 Barcelona

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

Website

Administrative Contact
Pau Casaldaliga Albisu (Mr.)
CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT
France
EU contribution
€ 955 874,24
Address
Avenue Jean Jaures 84
77420 Champs Sur Marne
Website
Administrative Contact
Isabelle Morin (Ms.)

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
France
EU contribution
€ 600 356,73
Address
Rue Leblanc 25
75015 Paris 15
Website
Administrative Contact
Brigitte Nicolas (Mrs.)

FUNDACION TECNALIA RESEARCH & INNOVATION
Spain
EU contribution
€ 414 519,33
Address
Parque Cientifico Y Tecnologico De Gipuzkoa
Paseo Mikeletegi 2
20009 Donostia/san Sebastian (Gipuzkoa)
Website
Administrative Contact
Asier Mediavilla (Mr.)

TECHNISCHE UNIVERSITAET DRESDEN
<table>
<thead>
<tr>
<th>Germany</th>
<th>EU contribution</th>
<th>€ 454 432</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td><strong>Activity type</strong></td>
<td></td>
</tr>
<tr>
<td>Helmholtzstrasse 10 01069 Dresden</td>
<td>Higher or Secondary Education Establishments</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td>Contact the organisation</td>
<td></td>
</tr>
<tr>
<td>Administrative Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raimar Scherer (Prof.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finland</th>
<th>EU contribution</th>
<th>€ 569 770</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td><strong>Activity type</strong></td>
<td></td>
</tr>
<tr>
<td>Vuorimiehentie 3 02150 Espoo</td>
<td>Research Organisations</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td>Contact the organisation</td>
<td></td>
</tr>
<tr>
<td>Administrative Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anne Hätelä (Mrs.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany</th>
<th>EU contribution</th>
<th>€ 350 169,60</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td><strong>Activity type</strong></td>
<td></td>
</tr>
<tr>
<td>Karlsstrasse 6 At Hochschule 80333 Munchen</td>
<td>Research Organisations</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td>Contact the organisation</td>
<td></td>
</tr>
<tr>
<td>Administrative Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rasso Steinmann (Prof.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Taiwan | EU contribution | |
|--------|-----------------| |
| **Address** | **Activity type** | |
| Keelung Road Sec4 43 106 Taipei | Higher or Secondary Education Establishments | |
| Website | Contact the organisation |