Building Information Modeling in Italy

Fulvio Re Cecconi – ABC Department
The Italian construction sector

Engineering firms and contractors size

<table>
<thead>
<tr>
<th>Size</th>
<th>Engineering</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICRO empl.&lt;10</td>
<td>81.90%</td>
<td>95.10%</td>
</tr>
<tr>
<td>SMALL empl.&lt;50</td>
<td>14.90%</td>
<td>4.60%</td>
</tr>
<tr>
<td>MEDIUM empl.&lt;250</td>
<td>3.20%</td>
<td>0.20%</td>
</tr>
<tr>
<td>BIG</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>250&gt;empl.</td>
<td>0%</td>
<td>0.01%</td>
</tr>
</tbody>
</table>

ISTAT statistics
BIM use in Italy

Use of BIM library in Italy

- Current use of BIM libraries
- Saltuary use of BIM libraries
- I know some BIM libraries but I do not use them
- I do not know any BIM library

How BIM is (mainly) used in Italy

- Not very well known by sector operators
- Visualization purposes
- Used during
  - design phase
  - maybe construction
  - but NOT during operation and maintenance
- 3D modelling, without much information connected
- Few people understood the potential
Italy is among the few European countries still **without** a **Government mandate** on BIM.

Despite that…
INNOVance

A three years research project, which was awarded €8 million in government support (about half of its projected budget) to significantly improve energy and overall project efficiency while reducing errors and costs through expanded use of Building Information Modeling.

INNOVance project team consists of 15 major partners, including: some of Italy’s largest construction companies; three renowned universities in Milan, Turin, and Naples; all national associations of manufacturers of building components.

buildingSMART Italy

- Founded ten years ago in the Politecnico di Milano
- The president is by statute the Head of ABC Department of the Politecnico di Milano (nowadays Stefano Della Torre)
- Board:
  - Lorenzo Bellicini, CRESME;
  - Luigi Cesca, Cimolai;
  - Angelo Ciribini, Università di Brescia;
  - Luca Ferrari, Harpaceas;
  - Marco Perazzi, di UNICMI;
  - Federico Sablone, Italferr.
UNI is drafting a **new series of standards** on digital built environment that are going to update the outdated UNI 11377:2009 Building and civil engineering works - Codification criteria for construction products and works, activities and resources - Identification, description and interoperability. The first part **UNI 11377-1** Building and civil engineering works - *Gestione digitale dei processi informativi delle costruzioni* (it doesn’t have an English title yet) is going to be published in the first half of this year.