Network for using BIM to Improve Energy Performance

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Project coordinator
Net-UBIEP objective is to disseminate the «use of BIM» to improve energy efficiency by involving:

- Public administration
- Engineers and Architects
- Technicians, Installers, Maintainers
- Owners, Tenants, Building administrators
Who should know what during the building life

<table>
<thead>
<tr>
<th>Life cycle</th>
<th>Preparation Brief and concept design</th>
<th>Developed and technical design</th>
<th>Construction</th>
<th>Handover and close out</th>
<th>In use and refurbishment</th>
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</table>
| **Responsible for the authorization process** | Digitalize existing information in openBIM format | Realize Common data Environment to provide and receive information related to the authorization process | Harmonize the requirements to be introduced in the code checking software | Ensure all the information for “in use” energy performance are met | Desired state  
• Continuous update of information in readable format  
• All the authorization process is smooth and “lean” |
| **Designers** | Ensure the respect of all the legislative and customers requirements regarding energy performance | Ensure that all the supply chain provide the correct information | Use simulation to ensure the best solution from economic and environment point of view | Fulfil all the normative and legislative rules | Desired state  
• All the information for the maintenance are accessible at any time  
• All the authorization process speeds up |
| **Constructors** | Know in advance the technologies and the materials that need to provide | Investigate on the possibility to use pre fabricated parts to reduce time, cost | Use the BIM model to optimize the logistic of the building site decreasing time and improving quality of the work | Desired state  
• Have any information accessible through a tablet  
• Improve the communication with the designers, the installers, the owner |
| **Technicians** | Provide requirements for a correct installation of the equipment ensuring the accessibility during the life time of the building | Download and upload information for the correct maintenance and installation of equipment and products | Ensure that all the information for maintenance and dismission are correctly linked to the model | Desired state  
• Have any information for maintenance and dismission accessible through a tablet |
| **Owners both private & public** | Define the requirements for the best comfort at the cheapest cost | Ensure that the requirements are met and all the information necessary for the management and the maintenance are in a readable format | Desired state  
• NZEB building  
• Easy management  
• Law cost for maintenance |

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