



## Call for papers – Research Workshop EDUBIM – 5th July 2017

EDUBIM is the meeting of teachers and trainers of BIM, proposed and supported by MINND Project. After the first edition in 2015 to ESITC (Caen), the second edition in 2016 at ESTP (Cachan) EDUBIM 2017 organized by the CESI will host the meeting 5, 6 et 7 th July 2017 at CESI in Nanterre (near Paris). The network of teachers and trainers that form EDUBIM includes all levels of training. Maturity and wealth of exchanges and the desire to capitalize on this knowledge production led to the 2017 edition create this Research Workshop and enroll in an international context.

The arrival of BIM in the field of construction profoundly modifies the design process, implementation, operation and maintenance of buildings and works of civil engineering and modifying the activity and management sector companies and their conditions partnerships and contracts. We ask as a postulate that this arrival of BIM is not simply important development as it changes with versions of complicated software channels but it involves a profound change in process. Therefore, the arrival of BIM in the building industry challenges and involves several scientific disciplines and revolutionizes first of all civil engineering disciplines, urban engineering, urban planning and architecture.

This testing of several disciplines in a new context, requires the construction of a scientific community that addresses these problems facing these situations and be able to query but also contribute to changing disciplines. This is the objective of this research workshop. This is a testing in a new context that requires a true conceptual work, helping to advance these disciplines. Contributing works are expected in several areas.

These conceptual works will be at the heart of disciplines but will increasingly be mostly discussed multidisciplinary and systemic way. Indeed the multidisciplinary approach will take into account a complex professional environment and will construct theoretical proposals likely to intervene in the discussion of each of the scientific disciplines. Processes such as those of cooperation and innovation, especially of disruptive innovation, such are hardly treated appropriately by a single discipline. Similarly, business processes, and modeling of new business processes are relevant both for architectural, civil and urban engineering, information systems and management science.

The social and legal sciences cannot be absent from this multidisciplinary approach. Primarily, science organizations and management can largely be put to use through the issues of the management of project teams, sites. Through concepts like that one of PLM for very specific products BTP, changing business models including the changing roles from design to construction and operation of the works and their dismantling. Finally, the HR aspects may be examined through the development of new skills and new nomenclatures to implement. Economic and legal conditions, such as the conditions of design and built and developments legal tools and coaching sector economic conditions tools, like the MOP law deserves to be studied. The sociology of organizations can also help with situated studies.

Expected papers will cover all areas mentioned include:

- The modes of cooperation around the computer tool- Interoperability, standards and standards (IFC)
- The integration of sustainable development objectives: social and managerial terms of phases of destruction and recycling of buildings, roads and structures.
- The development of the businesses, from the perspective of sociology of trades
- Developing ontology own the oddslot.com domain.
- Teaching new tools and their usage contexts
- Teaching methods specific to such tools
- GIS links / BIM tools and all the issues of spatial situations
- The conditions and processes of innovation in the context defined by BIM
- Lean management
- Modeling of new business processes- Processes and technologies BIM
- openBIM
- Big Data
- The development of skills
- Project Driving including a BIM approach

Expected papers shall be at least 12 pages, references included. They can be written in French or English, abstract in English. The presentation of the paper will be in English. Digital proceedings will be published on USB stick and deposited on the site MINND project. Papers will be reviewed, following usual academic way, by two scientists in the field. <http://edubim2017.sciencesconf.org>

**Deadline for full papers : 3 mars 2017**

Accepted agreement 20 Avril 2017

An intention abstract can be send.

Scientific committee (being finalized)  
Chair: Aurélie Talon (Univ Clermont-Ferrand)

Organizing Committee  
Chair Sylvain Riss (CESI)

Nader Boutros, (Archi Val de Seine)  
Patricia Bordin, (CNRS)  
Matthieu Bricogne (UTC)  
Angelo Ciribini, (univ Brescia)  
Dominique Deneux, (univ Valenciennes)  
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