

BIMEET

Project pitch

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http//www.bimeet.eu



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CHALLENGES

The "energy gap"

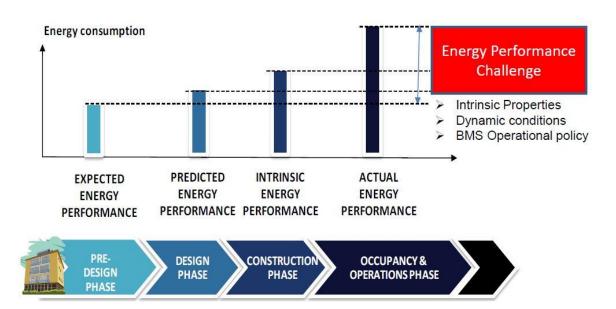
Energy use **predicted in the design** stage of buildings vs. the energy use of those buildings **in operation**

- Intrinsic properties
- Dynamic conditions
- Environmental uncertainties
- Workmanship
- Occupants behaviour
- BMS Operational Policy

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https://en.wikipedia.org/wiki/Performance_gap





Extract from: Prof. Yacine Rezgui. Cardiff University. Sustainable Places A Multi-disciplinary Perspective to Built and Natural Environment Challenges in the 21st Century. Presentation. LIST Seminar. August 2016.



BIMEET, THE CONCEPT

- BIM for Energy Efficient Buildings bridging the gap between improved design and actual EE measurements in Operation & Maintenance
- But only a few dedicated trainings offered across EU focus on this challenge
 - The field is dynamic: roles and competencies rapidly changing
 - Technologies still not completely mature
- BIMEET considers
 - Each stage of building's life-cycle
 - All actors involved
- To highlight specific skills required
 - For a global BIM approach
 - Enabling achieving EE in buildings

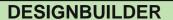


BIM TO BUILDING ENERGY MODELS – A BENCHMARK

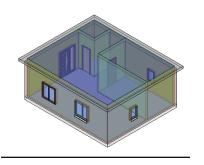


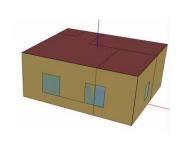
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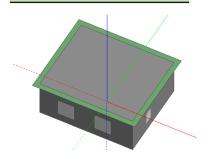
OPENSTUDIO

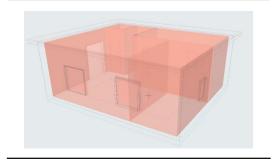


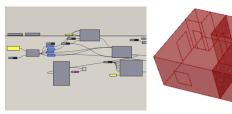
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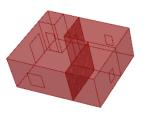








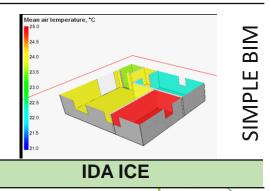




GRASSHOPPER HONEYBEE



PLEIADES



LEARNING OUTCOMES TOWARDS EU-WIDE TRAINING



Ex. Architectural design professionals

EU_LO Architectural design and BIM coordinator (arch), Chief designer (CD), Architect (ARCH), Assistant designer (ASS)		Bloom level	Course	
			Basic	Advanced
LO1	Learner is able to explain the principles and importance of BIM, Energy efficiency and performance based buildings	1,2,3,4	Х	Х
	Define and explain BIM, EE and performance based buildings, their principles and uses	1,2,3	Х	X
	Explain and give examples of aspects and terminology of BIM, EE, building performance and impacts (financial and environmental)	1,2,3	X	
	Explain and compare BIM EE uses and related indicators, benchmarks and certification systems	1,2, 3,4	X	X
	Summarise and illustrate the potentials of renewable energy sources including district- scale solutions	1,2	X	
	Explain legislation and regulations for energy performance, thermal comfort and air quality.	1,2	X	
LO2	Learner is able to explain the issues that affect energy performance of buildings	1,2,3,4	Х	X
LO3	Learner is able to use and demonstrate competence in profession specific solutions including BIM and EE tools	1,2,3,4,5, 6	Х	Х
LO4	Learner is able to explain and solve the essential issues related to data transfer and sharing and illustrate situations	1,2,3,4,5, 6	Х	Х
LO5	Learner is able to develop, select and explain the flow of the collaborative interdisciplinary BIM EE processes and point out essential issues of successful leadership	3,4,5,6		Х