

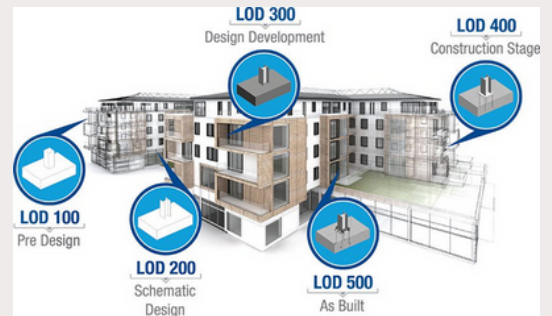
NEWSLETTER

Issue:3 2024



GreenBIM

Transnational MSc in BIM and Energy Efficiency in Buildings



GreenBIM IN NUMBERS

Implementation:
December 2022-June 2025
Total Budget:
250.000,00 Euro

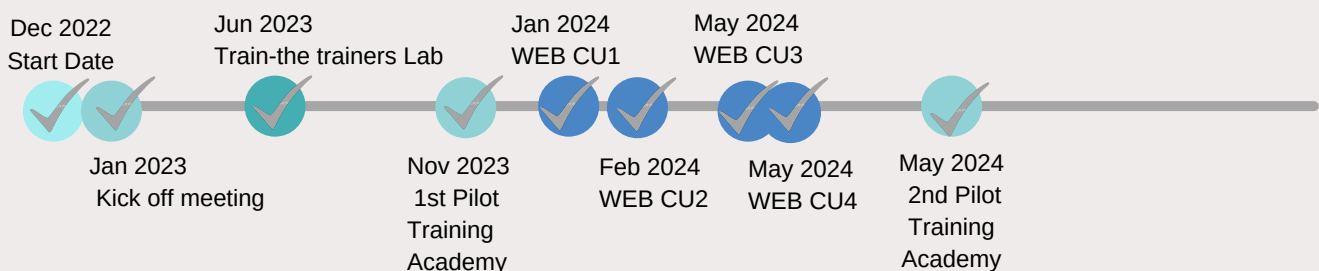
- 1 Train-the-trainers Lab
- 3 Pilot Training Academies
- 8 Competence Units (CUs)
- 8 Micro-Credentials
- 8 Webinars (WEBs)
- 3 Multiplier Events
- 1 Virtual Learning Environment
- 1 Citizen Engagement Platform

WHAT is GreenBIM

GreenBIM: Transnational MSc in BIM and Energy Efficiency in Buildings is an Erasmus+ KA220 Cooperation Partnerships in Higher Education project (2022-1-TR01-KA220-HED-000087995).

GreenBIM aims to develop a market-oriented MSc equivalent programme in BIM and Energy Efficiency Buildings aimed at professionals and architecture-civil engineering graduates that aim to further specialize in BIM applications for Energy Efficient Building Design.

TIMELINE



Co-funded by
the European Union

Funded by the Erasmus+ Programme of the European Union. However, European Commission and Turkish National Agency cannot be held responsible for any use which may be made of the information contained therein.

GreenBIM 2nd Pilot Training Academy

The second GreenBIM Pilot Training Academy, was organized by Linnaeus University on 21-22-23 of May 2024, in Linnaeus University Campus, in Växjö, Sweden.

The Academy focused on :

- Competence Unit 3 (CU3) "Integrated digital twin modelling: from energy efficient architectural and facade design to civil/mechanical/electrical engineering planning and deployment"
- Competence Unit 4 (CU4) "Sustainable applications of hybrid point cloud and BIM methods"
- Competence Unit 5 (CU5) "Parametric modelling with multi-objective inclusion (energy efficiency objectives)"

BIM experts from Türkiye, Sweden and Romania, together with 30 young trainees from architecture and engineering disciplines met for three days and followed inspiring presentations!



Transnational MSc in BIM and Energy Efficiency in Buildings
Project Number: 2022-1-TR01-KA220-HED-000087995

Organizing Partner: **Linnaeus University**

	Tuesday 21-May-2024 DAY 1: CU3: Integrated digital twin modelling (from energy efficient architectural and facade design to civil/mechanical/electrical engineering planning and deployment)	Wednesday 22-May-2024 DAY 2: CU4: Sustainable applications of hybrid point cloud and BIM methods CU5: Parametric modelling with multi-objective inclusion (energy efficiency objectives)	Thursday 23-May-2024 DAY 3: ENERGY EFFICIENCY WITH BIM
Duration			
8:30 - 9:00	Welcome Dr. Thomas Bader (LNU) "The GreenBIM Project" Dr. Ozgur Egilmez (YU)	Progress update and feedback from previous days Time available for trainees to use, if needed, to finish their work on their case studies	Progress update and feedback from previous days Time available for trainees to use, if needed, to finish their work on their case studies
9:00 - 9:45	Keynote Speech 1: "From Vision to Reality: Energizing Efficiency through Multi-Dimensional Modeling" Maria Runesson (AEC)	CU4 Lecture 1: "Scan to BIM" Onur Selcuk (UkhoTECH)	Keynote Speech 1: "Ongoing Education and Research efforts for Sustainable Urban/Energy Transition: Experience sharing from BET" Dr. Brijesh Mainali (LNU)
9:45-10:00	Coffee break	Coffee break	Coffee break
10:00 - 10:45	CU3 Lecture 1: "BIM & Integrated Design" Dr. Mustafa Emre Iral (IYTE)	CU5 Lecture 1: "Energy Efficiency in Buildings: General Overview" Dr. Emrah Biyik (YU)	Keynote Speech 2: "Life cycle perspective on building energy use and energy efficiency" Dr. Ambrose Dodoo (LNU)
10:45-11:00	Coffee break	Coffee break	Coffee break
11:00 - 11:45	CU3 Lecture 2: "Structural Model Authoring" Onur Selcuk (UkhoTECH)	CU5 Lecture 2: "Design Aspects for Energy Efficiency in Buildings" Dr. Emrah Biyik (YU)	Keynote Speech 3: "Information Exchange between Construction and Manufacturing Industries to Achieve Circular Economy: A Literature Review and Interviews with Swedish Experts" AEC
12:00 - 13:15	Lunch break	Lunch break	Lunch break
13:15 - 14:00	CU3 Lecture 3: "Specifying Architectural Elements" Selen Ozkan (UkhoTECH)	CU5 Lecture 3: "How to use Revit for Energy Analysis/Efficiency" Dr. Mumine Gercek Sen (IYTE)	Lecture: "Promotion of the VLE and the Project" Dr. Elthymia Staiou (YU)
14:00-14:15	Coffee break	Coffee break	Coffee break
14:15 - 16:00	Introduction to the Case Study Team Work: Single Story Residential Building Dr. Mumine Gercek Sen (IYTE) / Maria Runesson (LNU)	Student's Case Studies Team Work "Building Energy Analysis" Dr. Mumine Gercek Sen (IYTE)	Case Studies Team Presentations
	Students: Case Studies Team Work	GreenBIM Transnational Project Meeting (partners only)	Certificates Awards Ceremony Closing remarks on the GreenBIM Academy
	Conclusion of the day & few words for tomorrow	Conclusion of the day & few words for tomorrow	C3 Academy Evaluation



Second Pilot Training Academy - Linnaeus University, Vaxjo, Sweden

We kicked off the event with four captivating keynote lectures on: “Energizing Efficiency through Multi-Dimensional Modeling”, “BIM & Integrated Design”, “Structural Model Authoring”, and “Specifying Architectural Elements” and the presentation of the goals and activities of GreenBIM project.

The momentum continued on the second day with insightful lectures on: “Scan to BIM”, a “General Overview of Energy Efficiency in Buildings”, “Design Aspects for Energy Efficiency in Buildings”, and “How to use Revit for Energy Analysis/Efficiency”. In the afternoon, students engaged in case studies and group discussions on applying Building Information Modelling (BIM) for energy-efficient building design. At the same time, partners had the opportunity to visit the Laboratory of the Department of Building Technology!

The third day featured three compelling keynote lectures on: “Ongoing Education and Research efforts for Sustainable Urban/Energy Transition: Experience sharing from BET”, the “Life cycle perspective on building energy use and energy efficiency”, and the introduction of the GreenBIM Virtual Learning Environment (VLE), a tool designed to support distance and continuous learning on BIM, available for all educational institutions during and after the project's lifetime.

Our heartfelt gratitude goes out to all the speakers from the three days: Ozgur Oguz Egilmez (Yasar University), Maria Runesson (AEC), Mustafa Emre Ilal (IYTE), Mumine Gercek Sen (IYTE), Umit Kilic (UkhoTECH), Emrah Biyik (Yasar University), Anders Alrutz (LNU) for organizing the laboratory visit, Brijesh Mainali (LNU), Ambrose Dodoo (LNU), Effi Staiou (Yasar university), Carmen Amadeo for flawlessly orchestrating the entire 2nd Pilot Training Academy; and, of course, to all the trainees whose questions and participation enriched the event.

We look forward to our next Academy, where all participants can meet again, either face-to-face or online, at Yasar University in Izmir, Türkiye!



NEXT STEPS

UPCOMING ACTIVITIES

GreenBIM SUMMER SCHOOL Opportunity

For those who missed the first four GreenBIM Webinars, you now have the chance to catch up with our GreenBIM Summer School. Simply [register](#) and follow the links to watch the webinar/ webinars that you have missed:

- **Webinar 1 (CU1):** "Preparation of Building Execution Plan & Building Information Model including management of energy efficiency objectives"
- **Webinar 2 (CU2):** "BIM Data systems and integration with stakeholders' systems"
- **Webinar 3 (CU3):** "Integrated digital twin modelling: from energy-efficient architectural and facade design to civil/mechanical/electrical engineering planning and deployment"
- **Webinar 4 (CU4):** "Sustainable applications of hybrid point cloud and BIM methods"

Four more webinars will follow in Fall 2024!

After completing the entire series of eight webinars, you can take the self-assessments through our **Virtual Learning Environment** and earn your **Certification!**

Eight **Micro-Credential Certificates** are waiting for you!

Third Pilot Training Academy, YASAR University, Izmir, Türkiye

The third and last **GreenBIM Pilot Training Academy** will be co-organised by YASAR University, Izmir Institute of Technology and UKHOTech, beginning of November 2024, at YASAR University's Campus in Izmir, Türkiye.

The final Academy will focus on the competence units dealing with:

- "3D, 4D, 5D, 6D modelling for energy efficiency (CU6)",
- "Energy efficient renovations via BIM (CU7)",
- "Engagement of society in energy-efficient BIM modelling (CU8)",
- and will launch the **GreenBIM Virtual Learning Environment** and the **Micro-credentials** certification process!
-

Attendance will be limited for face-to-face participants (only 30 places available) but online participation will be possible! **Follow us on social media to learn more!!!**

Follow us to stay updated on the project news & events!



greenbim.yasar.edu.tr



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