

Innovation Roundtable on:

"Scan to BIM Technology and Prefabrication of Innovative Insulation in Retrofitting of Residential Buildings"

12th December, 2023, 08:30 - 10:30 CET / 16:30 - 18:30 JST, online

Language: German and Japanese with simultaneous translation



Objective:

To achieve a sustainable building sector as part of Japan's and Germany's ambition to become climate neutral by mid-century, appr. 90% or residential building stocks in both countries need to be renovated (or rebuilt, taking up more resources). The GJETC believes that a key contributing factor is to economize this process by promoting and improving on making use of new technologies, such as Scan-to-BIM, that enable prefabrication and serial renovation.

The objective of the Innovation Roundtable is to identify competences in each country to advance retrofit initiatives and to develop ideas and concepts for joint projects, e.g., the development and demonstration of industrial construction/pre-fabrication of sustainable and space-saving insulation elements and concepts, conductive to scaling up cost-effective refurbishment.

To achieve this, the GJETC invites companies and research institutes specialized in retrofitting process coordination and technology, prefabrication for retrofitting, and sustainable building shell and insulation materials and prefabricated elements to a virtual table.



Agenda

08:30 - 08:40 CET 16:30 - 16:40 JST	Welcome and Context Setting
	Welcome and Introduction (GJETC)
	Technical instructions (ECOS)
	Brief overview of the purpose and goals of the Innovation Roundtable – retrofitting the building stock key to decarbonization efforts (results of GJETC study)
08:40 - 09:00 CET 16:40 - 17:00 JST	Topical Inputs (tbd)
	Short Pitches from Research Institutes presenting and connecting the innovation fields "Energiesprong (Scan-to-BIM) Process" and "building shell material R&D":
	a) Paula Baptista, dena: innovative possibilities and potential benefits of prefabrication and Scan-to-BIM technology in retrofitting residential buildings
	b) Building research institute (JPN) (tbd): Connecting innovation in building shell and insulation materials with space and shape constraints in retrofitting
09:00 - 09:30 CET 17:00 - 17:30 JST	Participants' View on the Challenges
	Short self-introduction of the participants and comment on the guiding question:
	What do you think is the biggest challenge regarding energy efficiency retrofitting residential buildings in Germany and in Japan resp.?
09:30 - 10:15 CET 17:30 - 18:15 JST	Discussion on Potentials and Complementary Competences
	Interactive discussion among participants following the guiding questions:
	Do Scan-to-BIM and prefabrication hold the potential to use sustainable materials with low embedded carbon and circular design? And could the cost of energy efficiency renovation still be reduced compared to traditional practices?
	What type of collaboration would promote progress in the innovation process towards these objectives from your point of view?



	Objectives of the discussion: Identifying complementary competences Brainstorming on how stakeholders from different countries and companies can collaborate effectively Exploring potential synergies and opportunities for knowledge exchange Develop concrete ideas and concepts for joint projects
10:15 – 10:30 CET 18:15 – 18:30 JST	 Summary and Outlook Summarize the key findings and collaboration opportunities identified during the dialogue Outlook on possible follow-up actions and next steps to be taken to enhance collaboration.
10:30 CET 18:30 JST	Closing