Innovation Roundtable on:

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

12th December, 2023, 08:30 – 11:15 CET / 16:30 – 19:15 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 – 08:50 16:30 – 16:50	**Welcome and Context Setting** Welcome and Introduction (GJETC; tbd) 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)
08:50 – 09:10 16:50 – 17:10	**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*
09:10 – 09:40 17:10 – 17:40	**Participants objectives** Self-introduction of participants guided by key questions and organized according with innovation fields and referring to topical inputs
09:40 – 09:55 17:40 – 17:55	*Break*
09:55 – 10:35 17:55 – 18:35	**Identifying Complementary Competences** Interactive discussion among participants to identify complementary competences and areas of expertise • 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

10:35 – 11:05 18:35 – 19:05	**Action Planning and Next Steps** *Summarize the key findings, collaboration opportunities, and action points identified during the dialogue* *Discuss potential frameworks or working groups for continued collaboration* *Establish a roadmap for future activities and set expectations for follow-up actions*
11:05 – 11:15 19:05 – 19:15	**Wrap-up and Closing Remarks**