Project idea/ Field of expertise:

Organisation Name:

Adressed challenge(s)/PPP(s):

Adressed topic(s) in Work Programme:

Building envelopes, SmartHome, LCA, transport infrastructures, off shore

Materials Testing Institute University of Stuttgart

- LC-EEB-04-2020: Industrialisation of building envelope kits for the renovation market (IA)
- LC-EEB-07-2020: Smart Operation of Proactive Residential Buildings (IA)
- DT-NMBP-05-2020: Open Innovation Test Beds for materials for building envelopes (IA)
- Several calls under LC-SC3-B4E (energy topic)
- CE-NMBP-42-2020: Materials life cycle sustainability analysis
- NMBP-36-2020: Monitoring and safety of transport infrastructures (CSA)
- LC-NMBP-31-2020: Materials for off shore energy (IA)

FoF and EeB + other topics
Institutional information and expertise:
• Central university institute
• 300 employees, 75 % funding from industry
• Notified body according to construction product regulation (CPR)
• Contacts to SMEs in construction sector
• Expertise on infrastructure assessment

European projects:
• Wall-ACE https://www.wall-ace.eu/
• HomeSkin - HOMES Key INSulating material – (http://homeskin.net/)
• AMANAC cluster https://www.amanac-cluster.eu/
• Infravation-project FASSTbridge https://fasstbridge.eu/
• CETIEB - Cost-effective Tools for Better Indoor Environment in Retrofitted Energy Efficient Buildings (www.cetieb.eu) (Coordinator)
• LEEMA - Low Embodied Energy Advanced (Novel) Insulation Materials and Insulating Masonry Components for Energy Efficient Buildings
• 3encult - Efficient Energy for EU Cultural Heritage (www.3encult.eu)
• EFFESUS - Energy Efficiency for EU Historic Districts Sustainability (www.effesus.eu)
• Smart Monitoring of Historic Structures SMooHS (Coordinator)
LC-EEB-04-2020: Industrialisation of building envelope kits for the renovation market (IA)

- Experience from H2020 projects HomeSkin and Wall-ACE on highly efficient insulation materials (aerogels)
- Industrial partner with experience on application technologies in Switzerland

- Aim: Highly efficient, lightweight envelope kits for “thinner” and “faster” solutions

LC-EEB-07-2020: Smart Operation of Proactive Residential Buildings (IA)

- Experience on Indoor environment Quality from FP7-project CETIEB (www.cetieb.eu)
- Member of regional cluster Smart Home&Living https://www.shl-bw.de/home/
- Aim: Smart monitoring for improved comfort and control
Open Innovation Test beds

DT-NMBP-05-2020: Open Innovation Test Beds for materials for building envelopes (IA)

- A high-rise building will be ready end of 2019 for envelope installations. Managed by partner institute ILEK [https://www.ilek-uni-stuttgart.de/](https://www.ilek-uni-stuttgart.de/)
- All necessary competences for assessment and testing of indoor climate, comfort (including visual comfort) and power consumption for conditioning by ILEK/SFB1244
- All necessary competences for assessment, testing (including fire behaviour) and certification at MPA
LC-SC3-B4E-1-2020: Towards highly energy efficient and decarbonised buildings
LC-SC3-B4E-3-2020: Upgrading smartness of existing buildings through innovations for legacy equipment
LC-SC3-B4E-8-2020: Renewable and energy efficient solutions for heating and/or cooling, and domestic hot water production in multi-apartment residential buildings
LC-SC3-B4E-9-2020: Support to the coordination of European smart buildings innovation community
LC-SC3-B4E-10-2020: Self-assessment and self-optimisation of buildings and appliances for a better energy performance
• Experience with IEQ monitoring and smart buildings
• Member of regional cluster Smart Home&Living [https://www.shl-bw.de/home/](https://www.shl-bw.de/home/)
• Cooperation institute ITGE (storage, HVAC, smart control, etc.)
Circular Economy

CE-NMBP-42-2020: Materials life cycle sustainability analysis

• Aim: Enhance Life Cycle Analysis at early stage product development for construction products. Additional inclusion of cost (LCCA) and sustainable (LCSA) aspects. Design for recycling.

• Experience from two EU projects: HomeSkin (https://homeskin.net/) and Wall-ACE (https://www.wall-ace.eu/) with early stage LCA and LCCA of innovative construction products.

• Member of LCA-group within the AMANAC cluster (https://www.amanac-cluster.eu/)

• Focus: Increased reliability and usability of analysis.

Branding innovations beyond the technical
Life Cycle Assessment and the trade-offs of sustainable growth
NMBP - Materials

**NMBP-36-2020: Monitoring and safety of transport infrastructures (CSA)**
- Experience with monitoring of bridges from Infravation-project FASSTbridge [https://fasstbridge.eu/](https://fasstbridge.eu/)
- National project with glass fibre-sensors at a road bridge
- Two projects with national road agency
- Contacts to Brasil

**LC-NMBP-31-2020: Materials for off shore energy (IA)**
- Aim: Material development for new designs for offshore wind
- Large scale testing facilities for floating and bottom fixed plants
- Sea water testing facility at isle of Helgoland

27/06/2019 - BE KETs-360
Contact details

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