

Sustainable materials and methods for prefab renovation of tower blocks or social housing

Summary

Profile type	Company's country	POD reference
Technology request	Estonia	TREE20250128005
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
<u>Giovanni CHIACCHIO</u>	28 Jan 2025 28 Jan 2026	28 Jan 2025

General Information

Short summary

An innovation agency in Estonia will pursue European funds to bring together developers and adopters of modern solutions in sustainable and efficient renovation. Between several developers new designs and methods will be proposed with help from adopters. The TRL then gets lifted to demo house level. Type of cooperation: technical and R&D.

Full description

An innovation agency in Estonia is wishing to establish contact with European developers to build consortia towards European funding calls. Both emergent supply and demand exist in Estonia in the field of materials and methods for prefab renovation projects. The problems and barriers seem to be similar to most European countries where tower blocks need to be refurbished. There are tradeoffs between the economic efficiency and the value the refurbishment is meant to bring. There are similar barriers to the development of biobased building products, custom-made yet mass manufacturable façade cassettes etc. The agency will aim at bringing a number of small developers together to jointly bid for suitable funding streams. A cross-border collaboration is likely to result in better products, higher on the TRL scale, demonstrated in two or three countries for greater visibility. The agency will consider leading an R&D consortium so that the partners can focus on what they do best.

Advantages and innovations

Technical specification or expertise sought

Two types of partners are being sought: developers and adopters. Developers may be working on sustainable building materials, construction methods and similar. Adopters can be either prefab manufacturers or anyone really interested in demo projects around tower blocks.

At this point, no demand is made on the exact characteristics of the materials or methods. The developers/manufacturers/adopters need to have a clear goal for working in this segment and illustrate how their solutions will address problems.

Stage of development

Sustainable Development goals

- **Goal 11: Sustainable Cities and Communities**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

Specific area of partner sought: developers and adopters of new materials and methods for renovation or refurbishment of tower blocks in a more sustainable way.

Role of partner sought: interested parties are invited to send a brief non-confidential description of their work and goals. Possible matching interests are then laid out between the Estonian and partnering participants. Where there are matches, various funding streams will be discussed.

Type of partnership

Type and size of the partner

Research and development cooperation agreement

Commercial agreement with technical assistance

• **R&D Institution**

• **SME 50 - 249**

• **SME <=10**

• **SME 11-49**

• **Big company**

• **University**

Dissemination

Technology keywords

- **02006002 - Construction methods and equipment**
- **02006004 - Installations related to construction (energy, lighting, ...)**
- **02006005 - Construction maintenance and monitoring methods & equipment**
- **02006001 - Materials, components and systems for construction**
- **02006003 - Fire Resistance/Safety**

Targeted countries

- **World**

Market keywords

- **09007005 - Facility management companies**
- **09007003 - Distribution of building products and systems**
- **09007001 - Construction companies**
- **09007004 - Engineering and consulting services related to construction**
- **09007002 - Manufacture of construction materials, components and systems**

Sector groups involved