



CELTIC-NEXT Proposers Day



23rd of September 2021, Online via WebEx

Pitch of the Project Proposal

Smart Structural Fiber-cement Panel for Passive House



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Teaser



What is the main benefit of the idea/proposal?

Lighter, fast to install, better insulated, less expensive than traditional building technology in concrete or wood

What makes the added value?

Smart sensors embedded, interacting with other services (HVAC, irrigation, air quality, appliances ...)

Why should I participate in the project?

To learn about last improvements in building green & smart passive houses



Organisation Profile



Lagertha SIA (2020) and Exedra Systems OÜ (2016) are two startups bringing innovation in the real estate development industry, with a new smart prefabricated structural insulated panel (SIP), to build smart houses faster, easier and with less costs compared to traditional concrete or wood structures



Proposal Introduction



A lightweight (80 kg/m²) yet structural (up to 3 floors), antiseismic insulated panel (fibercement, wood, anti-vapour, composed inhomogeneous insulation layers) to speed up assembly time and reduce cost of passive houses.....



Proposal Introduction



*Development of a set of 2-floor buildings with the new patented technology, reduction of at least **60%** of overall weight of the structure, reduction of **60%** of assembly time, **40%** increase of performance of thermal and noise insulation, > **25%** less expensive than traditional concrete.*

Use of smart embedded sensors connected to different appliances to dynamical control transmittance and thermal efficiency.

Measurement of obtained parameters in term of overall thermal efficiency and HVAC savings



Partners



*Lagertha SIA from **Latvia**, Exedra System OÜ from **Estonia**, target project location is in **Cyprus**.*

*We are running this particular building development in Cyprus, and we are therefore interested in having a **real estate developer/building company in Cyprus** in our team or as a reliable subcontractor.*

Developers from other countries are also welcome, to adapt and implement this building technology in their own location.



Consortium Building Session



In the last week of September we will schedule a follow-up telco for your new project idea. Please fill in your availability as soon as possible but at the latest by 18th of September.

This session will be announced at the Proposers Day to the audience for you.

<https://polls.eurescom.eu/IfR0E8QbFg/>



Contact Info

For more information and for interest to participate please contact:

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Presentation available via Google Drive

<https://drive.google.com/file/d/12lk8Ly5jBO-B0U5hqupqMUnh2E7-Pqdf/view?usp=sharing>

24th September 10.00 CET

Join the follow-up Telco

[Join meeting](#)

Join by meeting number

Meeting number (access code): 175 017 5014

Meeting password: EtSZxgRW628

Join by phone

+49-6196-7819736 Germany Toll

[Can't join the meeting?](#)

