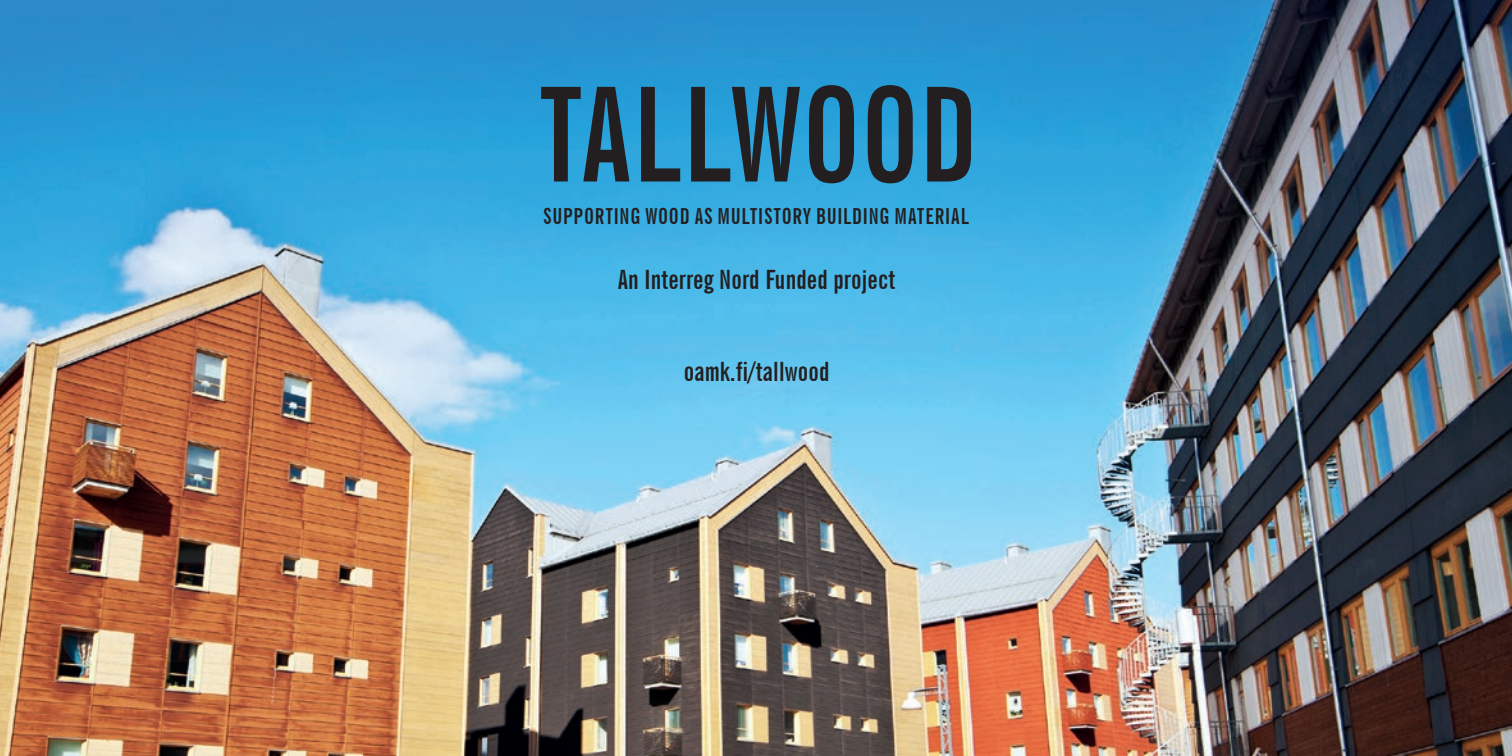

TALLWOOD

SUPPORTING WOOD AS MULTISTORY BUILDING MATERIAL

An Interreg Nord Funded project

oamk.fi/tallwood

TOPPILANSAARI, OULU, FINLAND (BY SIKLA LTD)

The second pilot of the TallWood project in Finland will be situated in the sea coastline of Toppilansaari in the city of Oulu, near the city centre. Sikla Ltd. plans to build three six-storey wooden buildings in Toppilansaari during the next few years.

HADSEL MUNICIPALITY: STOCKMARKNES HIGH SCHOOL BUILDING IN CLT, NORWAY

In the municipality of Hadsel, Nordland, the county administration will have a new high school building executed in Stokmarknes based on extensive use of wood and CLT.

KULTURHUSET IN SKELLEFTEÅ, SWEDEN

Kulturhuset in Skellefteå will have 20 floors and large open spaces. It will be used for social and cultural activities, and it will also house a hotel. The structure is of wood with steel reinforcements. The building will be built on site.

The goal of the project is to develop innovative solutions on how to use more wooden hybrid components in building and as structural elements of multi-story wooden buildings. These solutions will increase utilizing wood in multistory tall wooden buildings and will reduce the carbon dioxide emissions and thus the environmental impact of building.

The project started in 2019 and ends in 2022.

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BACKGROUND

Research shows an excess of annual forest growth compared to annual harvesting especially in the Finnish, Swedish and Norwegian parts of the Nordic region.

There is a substantial need to prevent wood to be wasted and to be used effectively. Therefore, the main goal of this project is to increase the usage of wood in multistory buildings solely or combined with other materials.

EXPECTED RESULTS

- Wider awareness of utilizing wood as one of the main elements of multistory wooden and wooden hybrid buildings.
- The SMEs will receive knowledge of the key barriers of using wood and modern and innovative approaches for their design and production processes.
- House factories and contractors will be more aware of the wooden component utilization and will obtain optimal and cost-effective wooden hybrid solutions.
- Collaboration and knowledge exchange between the countries and increase of the business opportunities for the SMEs throughout the EU.

- Wider understanding of the environmental and sanitary impact on inhabiting a wooden or wooden hybrid building.

IMPACTS

- Knowledge transfer between the participating countries is established.
- Knowledge of using design and planning tools in wood construction and management is increased, enabling higher quality and shorter project terms.
- More compatible methods and systems help harmonizing building regulations between the countries and vice versa.
- CO2 emissions will be reduced.
- Cross-border business in building industry and public sector services is increased by the higher interoperability of the information systems of different actors resulting in more efficient use of Northern resources and more competition in the European building construction market.
- The increased use of wood resulting in cost-efficient wood and hybrid buildings.
- Energy efficiency and environmental issues will be improved.
- Knowledge of the public sector, supervision of buildings and other actors for planning multistory/tall wood hybrid buildings will increase.

DAS KELO, ROVANIEMI, FINLAND

The TallWood project pilot DAS Kelo is a multistory CLT building of over 100 student apartments in Rovaniemi, Finland. Starting points for the design and construction will be e.g. the circular economy strategy of the city of Rovaniemi, digital innovations, and sustainable energy sources.

CONTACT US

For more information on our project, please visit our website at **oamk.fi/tallwood**. You can also contact us directly.

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