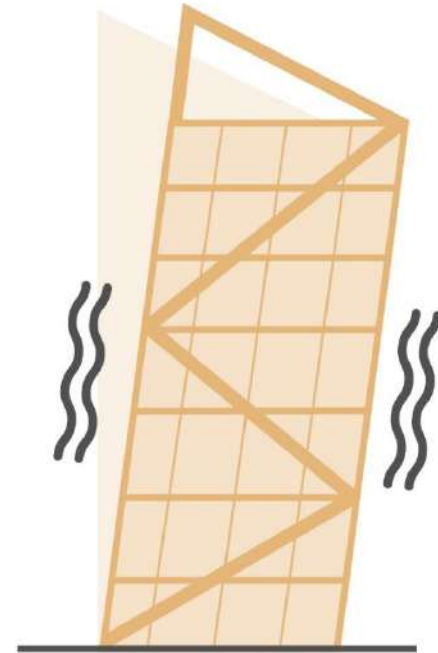


DynaTTB

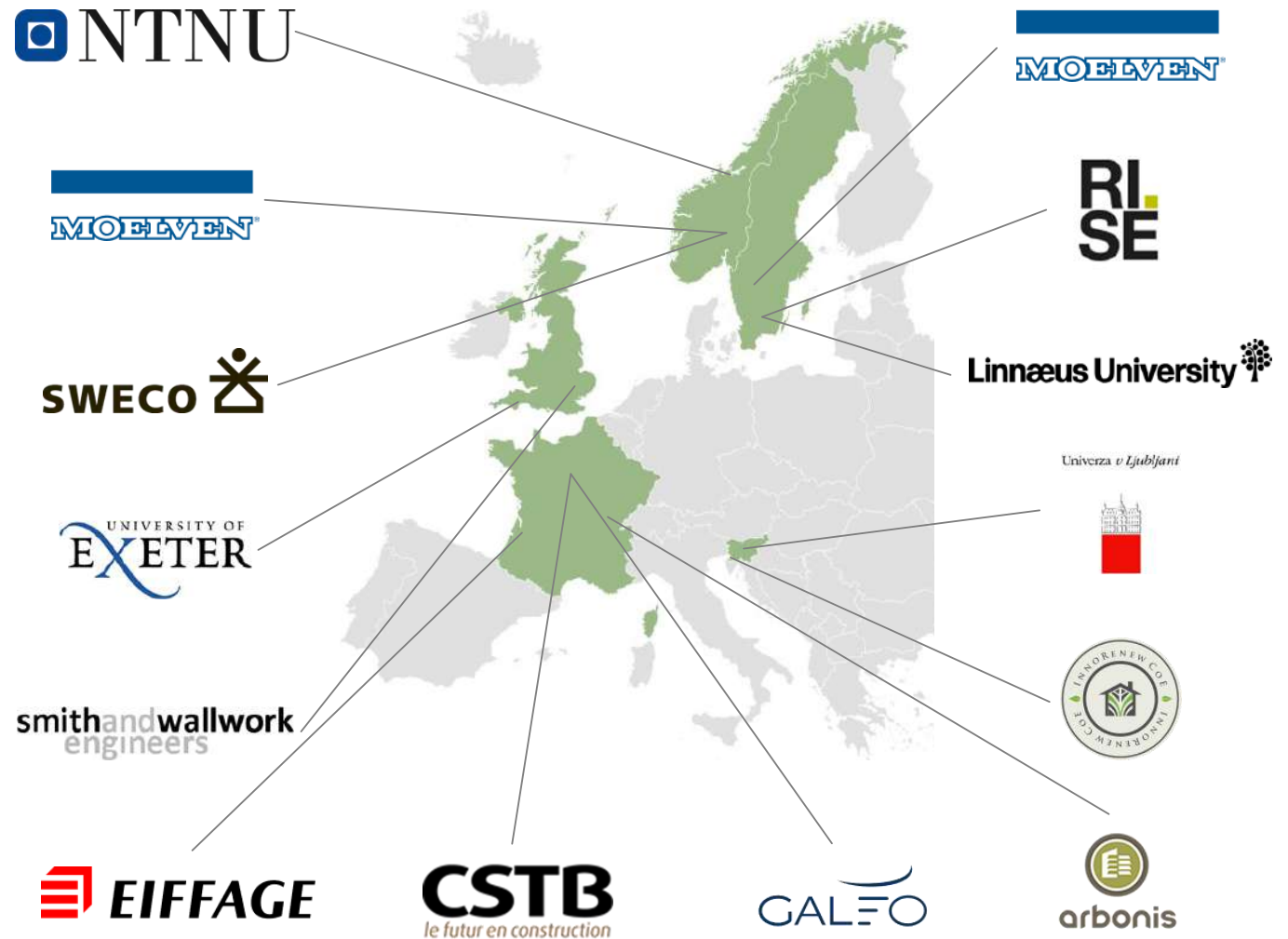
Dynamic Response of Tall Timber
Buildings under Service Load



Aim of the project

- Quantify the structural damping in as-built TTBs.
- Identify and quantify the effects of connections and non-structural elements on the stiffness, damping and wind-induced dynamic response of TTBs.
- Develop a bottom-up numerical FE-model for estimating the dynamic response of multi-storey timber buildings.
- Validate the predicted response with in-situ measurements on TTBs.
- Disseminate findings via a TTB Design Guideline for design practitioners.

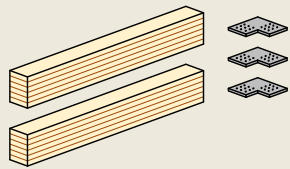
Partners



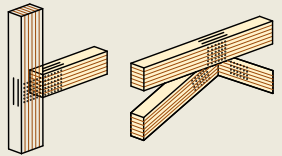
Project structure

WP 1 – Project management

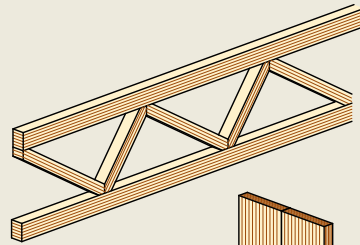
WP 2 – Laboratory experiments



Components

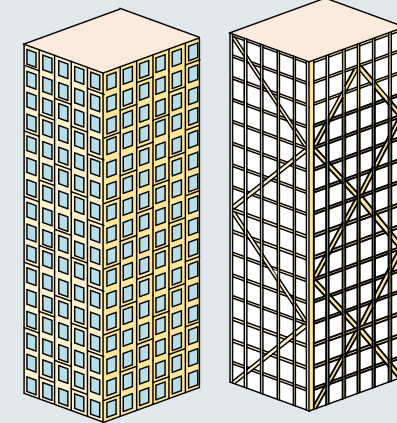


Connections



Sub-assemblies

WP 3 – In-situ measurements



Complete buildings

WP 4 - Modelling

WP 5 – Dissemination

Buildings

(Planned)



Image: Moelven
Treet, 14 stories, glulam+volume elements



Image: Julie Lewis-Thompson
Norsenga bridge, glulam



Image: Smith&Wallwork
Yoker, 7 storeys, CLT



Image: Eiffage
Hyperion, 18 storeys, hybrid + CLT



Image: Arbonis
Treet-IT, 12 storeys,

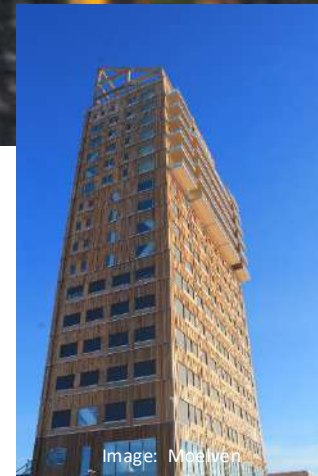


Image: Moelven
Mjøstårnet, 18 storeys, Glulam



Image: Mariehus
Eken, 6 storeys, Glulam



Image: InnoRenew Co E
Karantanika, 4 storeys, CLT



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