

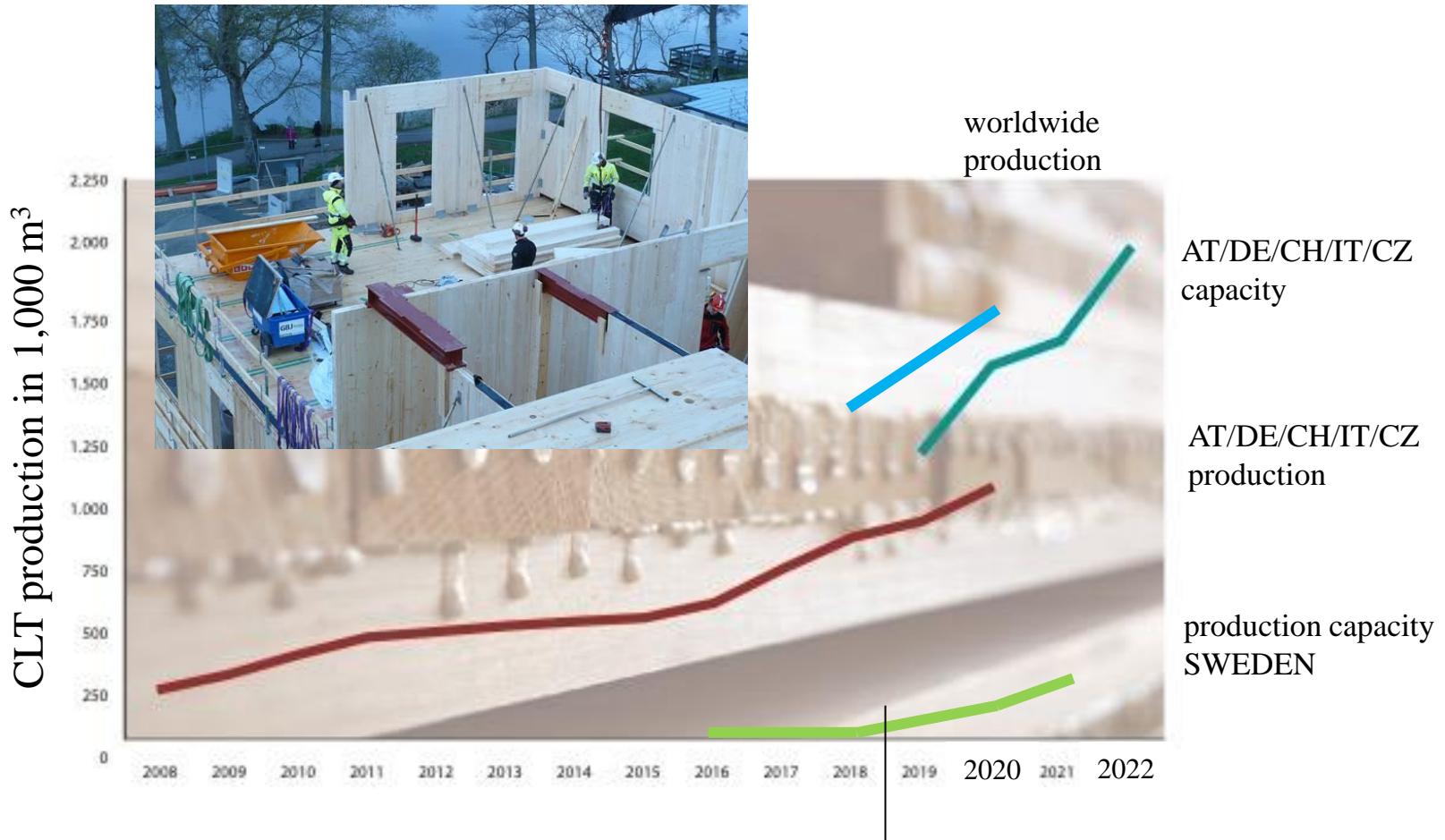
Improving the competitiveness of cross-laminated timber as a construction material for a future green building sector



Thomas K. Bader
Department of Building Technology
Linnaeus University



Cross-laminated timber

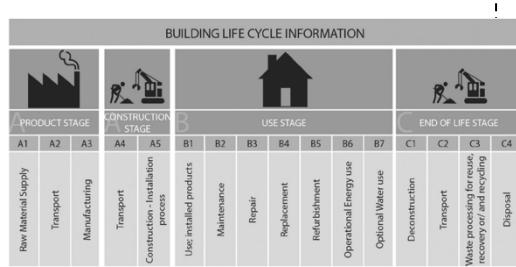
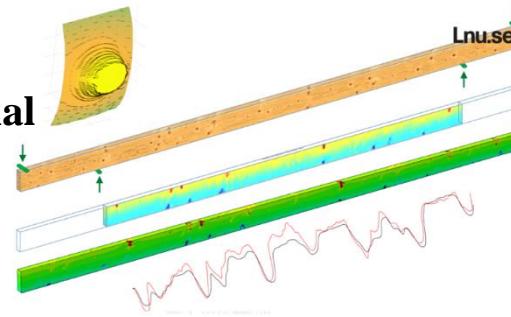


[https://www.timber-online.net/wood_products/2021/01/clt-special-2020-whitepaper.html]



Cross-laminated timber

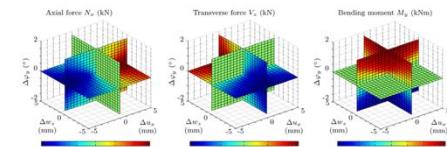
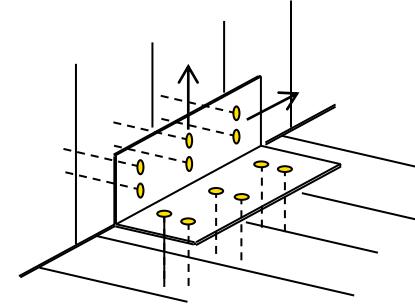
Sub-project 1 Optimized Material Utilization



Sub-project 4 Life Cycle Assessment

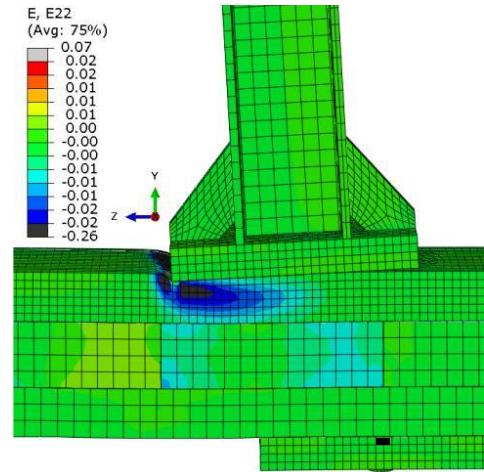


Sub-project 2 Construction and Connections

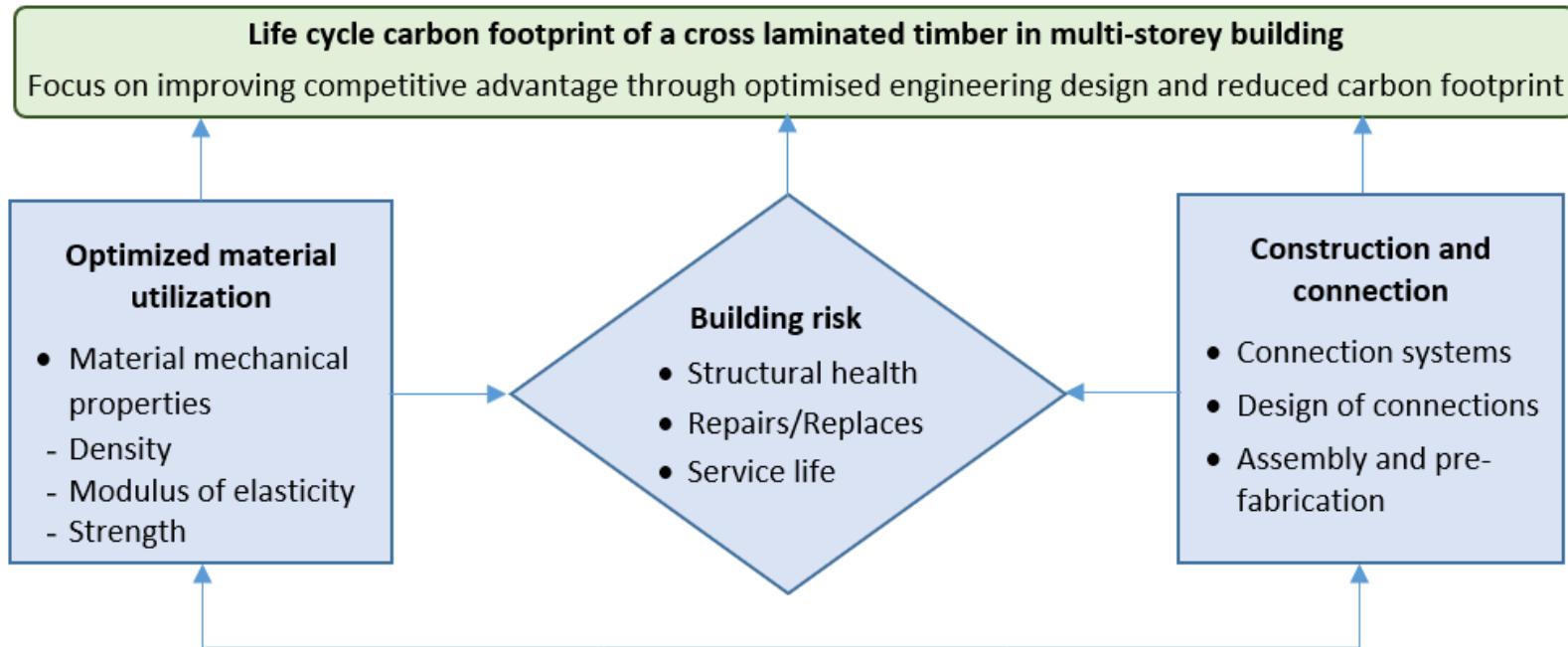


Sub-project 3 Building Risks

Example co-production research



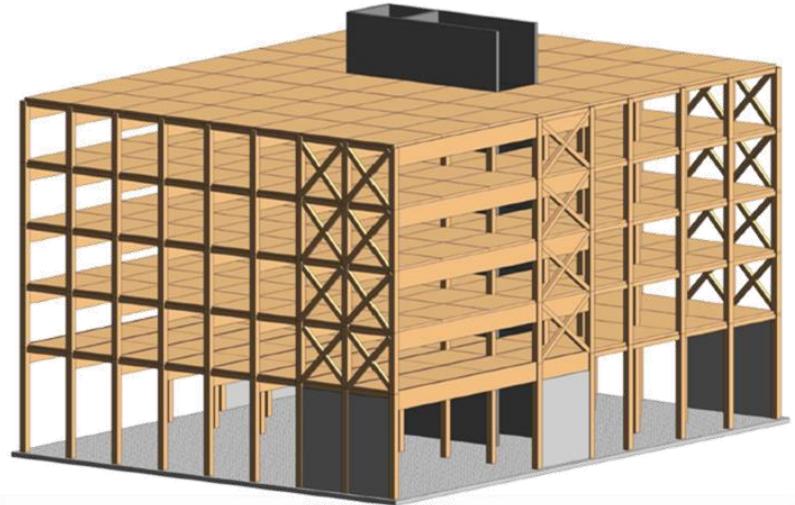
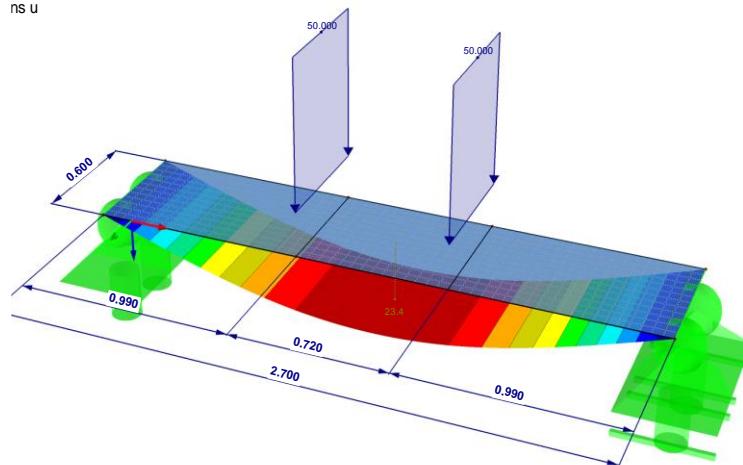
Example co-production research



[Dodoo et al. (2021) An exploration of synergies between structural engineering design and life cycle analysis of cross-laminated timber in multi-storey building. Manuscript under review.]



Education



Engineering Design of cross laminated timber structures, 5.0 credits

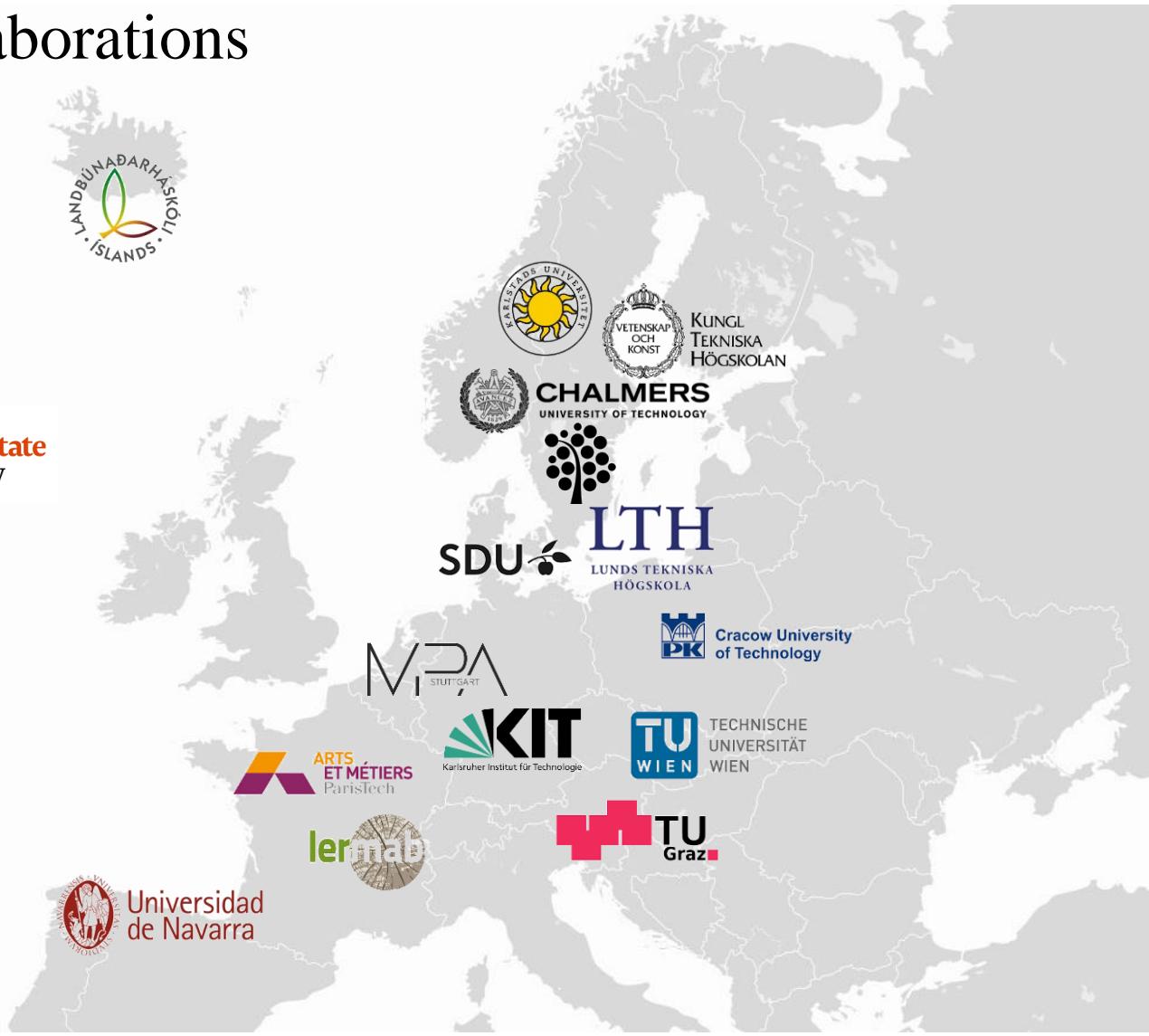
Lectures / Exercises	Project work	Lab
2 hp	2 hp	1 hp



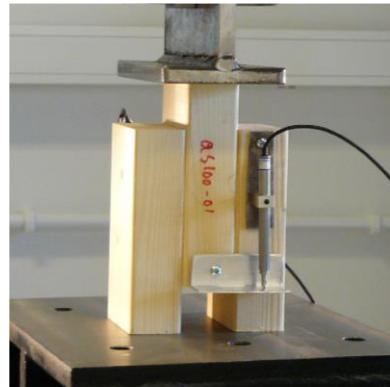
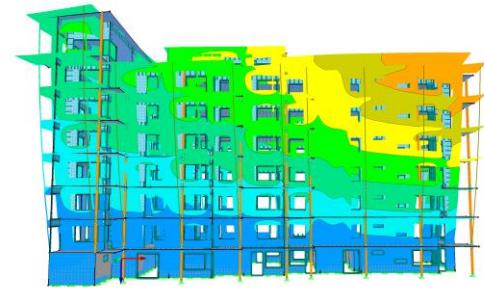
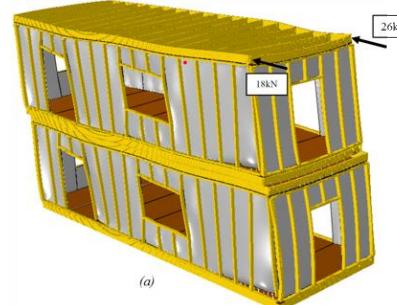
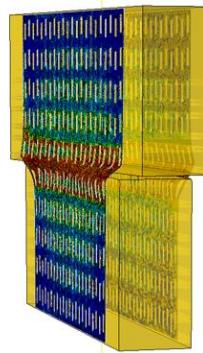
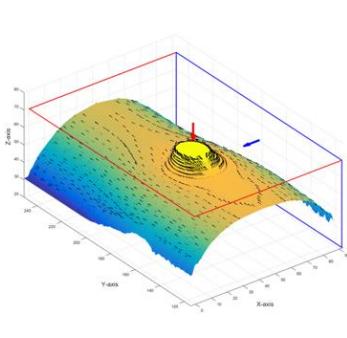
Collaborations



Collaborations



Modeling – prediction – engineering design



Laboratory / on-site **testing** / monitoring of structures



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