



# DECARBONISING THE CONSTRUCTION SECTOR: —THE RISE OF THE WOOD BUILDING INDUSTRY!

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SWEDISH WOOD  
BUILDING COUNCIL



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# HIGH EXPECTATIONS



“We know that the construction sector can even be turned from a carbon source into a sink, if organic building materials like wood and smart technologies like AI are applied.“

**Ursula von der Leyen**  
President of the European Commission  
State of the Union Address, 16/09/2020



IT STARTS IN THE WOODS





# OUR OLDEST CONSTRUCTION MATERIAL

# CHALLENGING THE NEW TECHNOLOGY



# A SHORT HISTORY

The first prefabricated wooden pavilions were made in the 1830 by architect Fredrik Blom for King Karl XIV Johan



Fredrik Blom

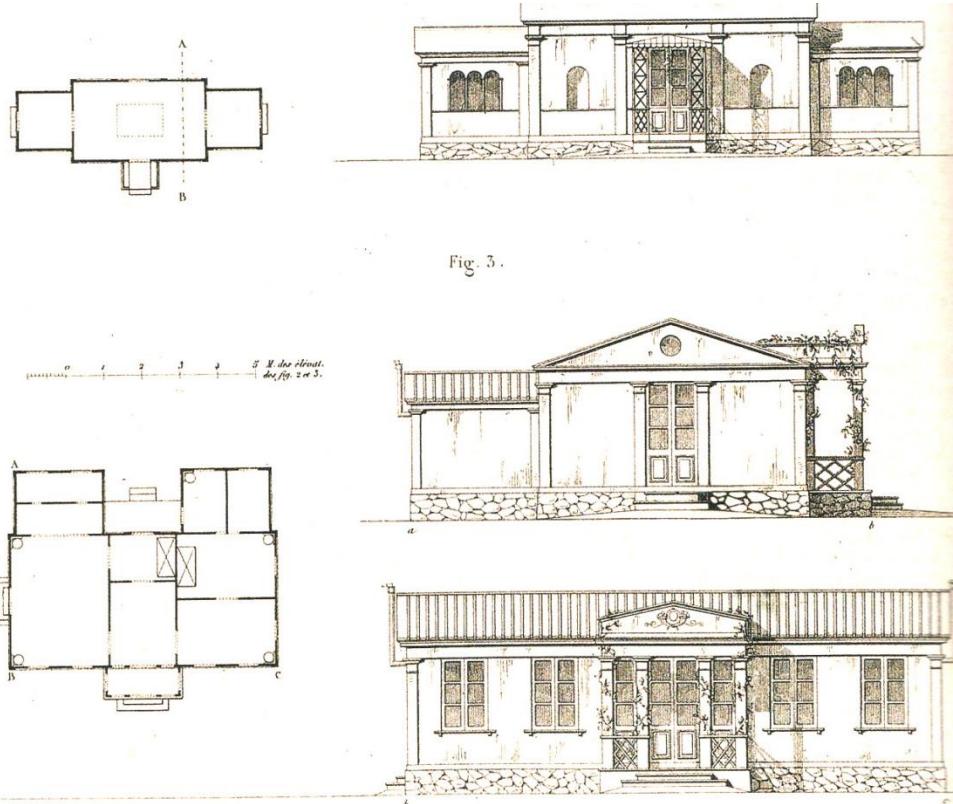


Fig. 3.



# DRIVERS

"43 % shortage of labour in European construction industry!" April 2022

- The need for less climate impact
- The need for housing AND a new building process
- The need for work opportunities, also in rural areas



# TRANSLATED TO AGENDA 2030!



# DELIVERABLES



# WHY WOOD IN CONSTRUCTION?

The process

- Manufacturing technology, quality assurance, continuous improvements, experience feedback

The building system

- Prefabricated, standardised, configurable, flexible, easy transportation, fast assembly (time on site)

The material

- Wood lends itself to all of the above!
- Environmental and climatic benefits (reusable, recyclable and renewable)

# WHAT IS INDUSTRIALISED CONSTRUCTION?

- Standardized processes
- Repeatable processes
- Focus on waste
- Focus on faults and mistakes
- Learning processes
- Developed and sofisticated supply chain

INDUSTRIALISED CONSTRUCTION IS HOW YOU BUILD -NOT WHAT  
YOU BUILD!



# WOOD CONSTRUCTION IN SWEDEN 2023

- 20% markets share in multistory housing
- 90% market share single family housing
- Growing market share for other buildings
- Wide presence at leading universities
- Strong regional clusters
- Municipalities develops knowledges thorough wood building strategies
- Some 15 producers of timber building systems
- 4 CLT producers
- Big investments in new production capacity being realized.
- New suppliers of timber buildings systems on the market.
- Builders and the big entrepreneurs starts to take on wood projects.
- Strong wooden architecture, great variation of projects throughout the country
- Strong political push



# HOUSING IN ALL SEGMENTS

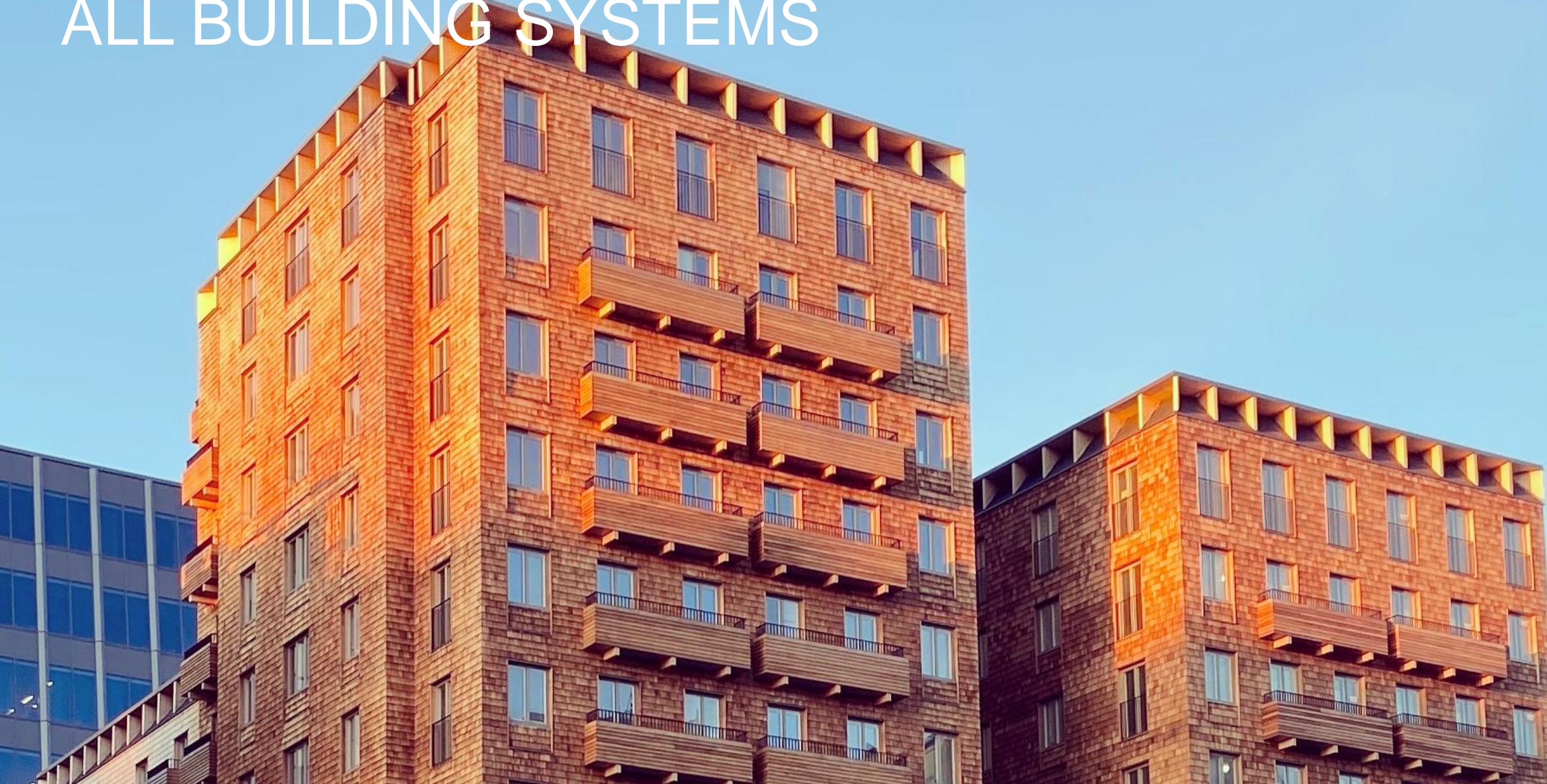




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# ALL BUILDING SYSTEMS





ALL SCALES

TULLINGE TRÄDGÅRDSSTAD,  
BRUNNBERG FORSHED

# ALL OVER SWEDEN



A wide-angle photograph of a modern architectural complex. The building features a prominent, curved, light-colored wood-paneled facade and a large, multi-story glass roof structure. Inside, a spacious atrium with a polished floor and wooden railings is visible, with several people walking through it. The overall aesthetic is clean, sustainable, and focused on natural materials.

# MORE THAN HOUSING



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EMERGING GREEN INDUSTRY

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# GROCERY STORES





A photograph of a modern office building at dusk or night. The building has multiple stories with large glass windows that reflect the warm orange and yellow lights from inside. The sky is a pale blue. In the foreground, there's a paved area and some bare trees. A small sign on the left side of the building reads "Uppsala C".

# OFFICE BUILDINGS

5 % MORE  
EXPENSIVE

70 % BETTER!

# NEW TECHNOLOGIES AND CIRCULAR USE



TRIKÅFABRIKEN, TENGBOMS

SWEDISH WOOD  
BUILDING COUNCIL

# THE MOST IMPORTANT BUILDING IN SWEDEN!



HOPPET (THE HOPE), BY THE CITY OF  
GOTHENBURG (LINK ARKITEKTUR)

# SOME BARRIERS REMAIN





# THANK YOU!

Under Sveriges ordförandeskap i EU står Skogsindustrierna  
värd för de allmänna ytorna i entrén till konferenscentret  
XPO i Arlandastad, där merparten av mötena äger rum.  
Här visas en utställning om skognäringens centrala roll i  
den gröna omställningen.