

Presentation in Riga and Tallinn, May 2006



Sveriges
Träbyggnadskansli



REGERINGSKANSLIET



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Swedish Wood Construction Council

Developing modern Wood Constructions in Sweden

What Forests means...



... is today also modern large-scale houses





start



after 2 months



after 4 months



after 7 months



In 1989 European Countries (EU) decided that function is more important than material. Wood Constructions became more interesting.

Modern Wood Constructions developing extremely fast...

National Programs in many European Countries

Add positive values to Construction sector in general



Finland

Norway



Denmark

France



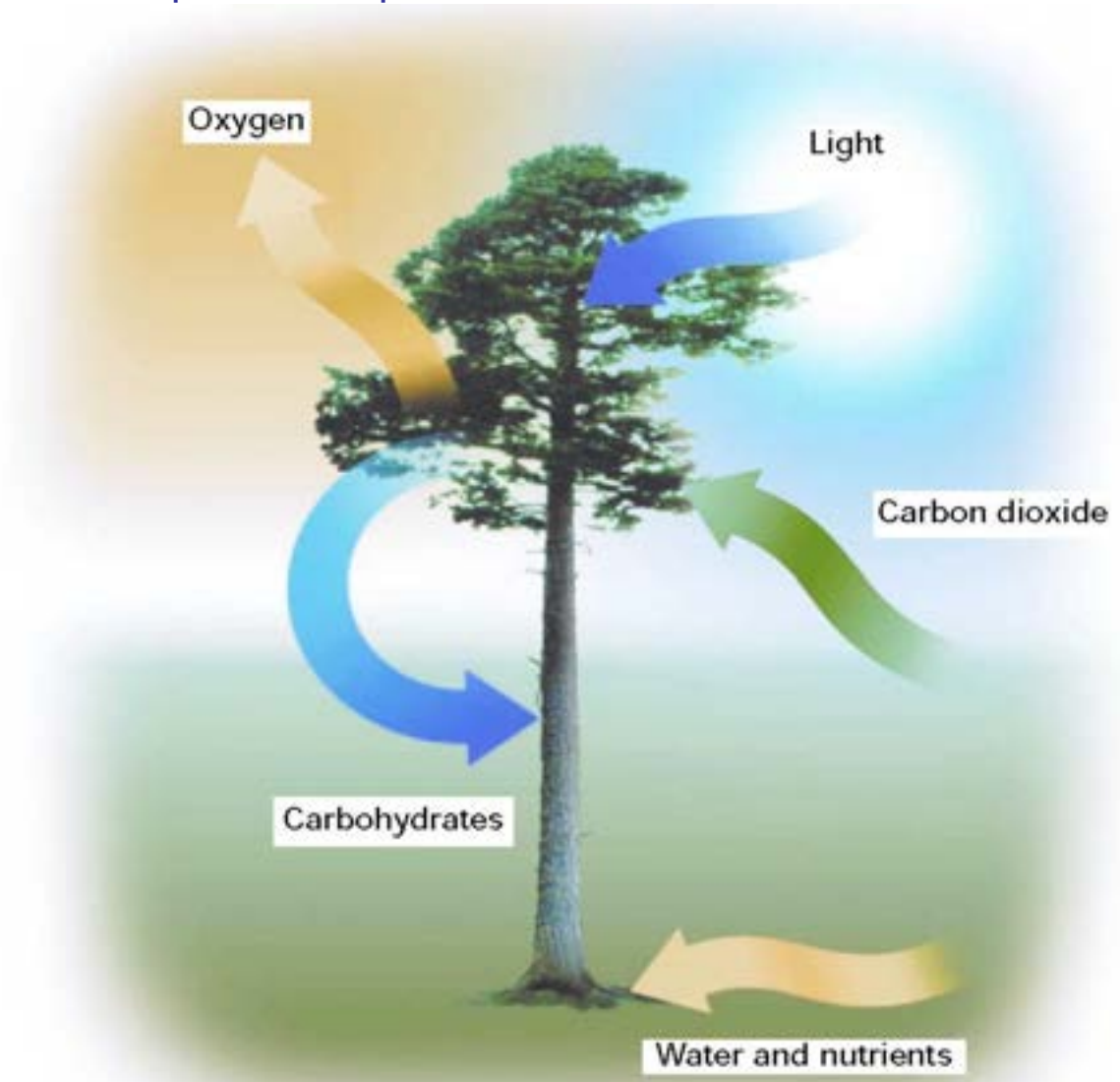


In focus in the
debate of Forests
and its use due to
the major storm in
2005....

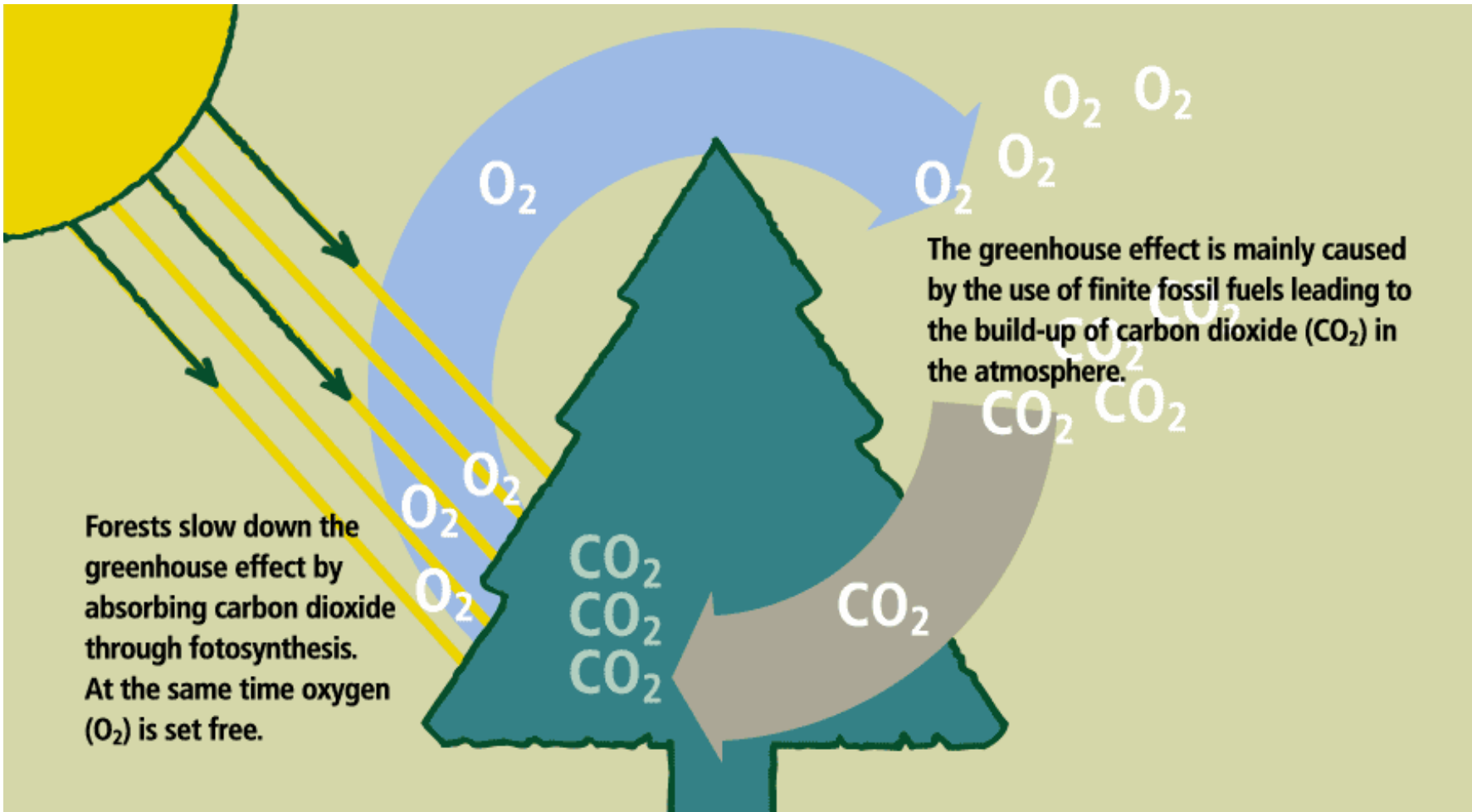
To build in Wood is part of Nature.....



The big innovation:
A revolutionary material production process.....



-and recycling process
- helping us combat the greenhouse effect





The timber house (at Bo01) compared with a “concrete house” (steel/concrete)

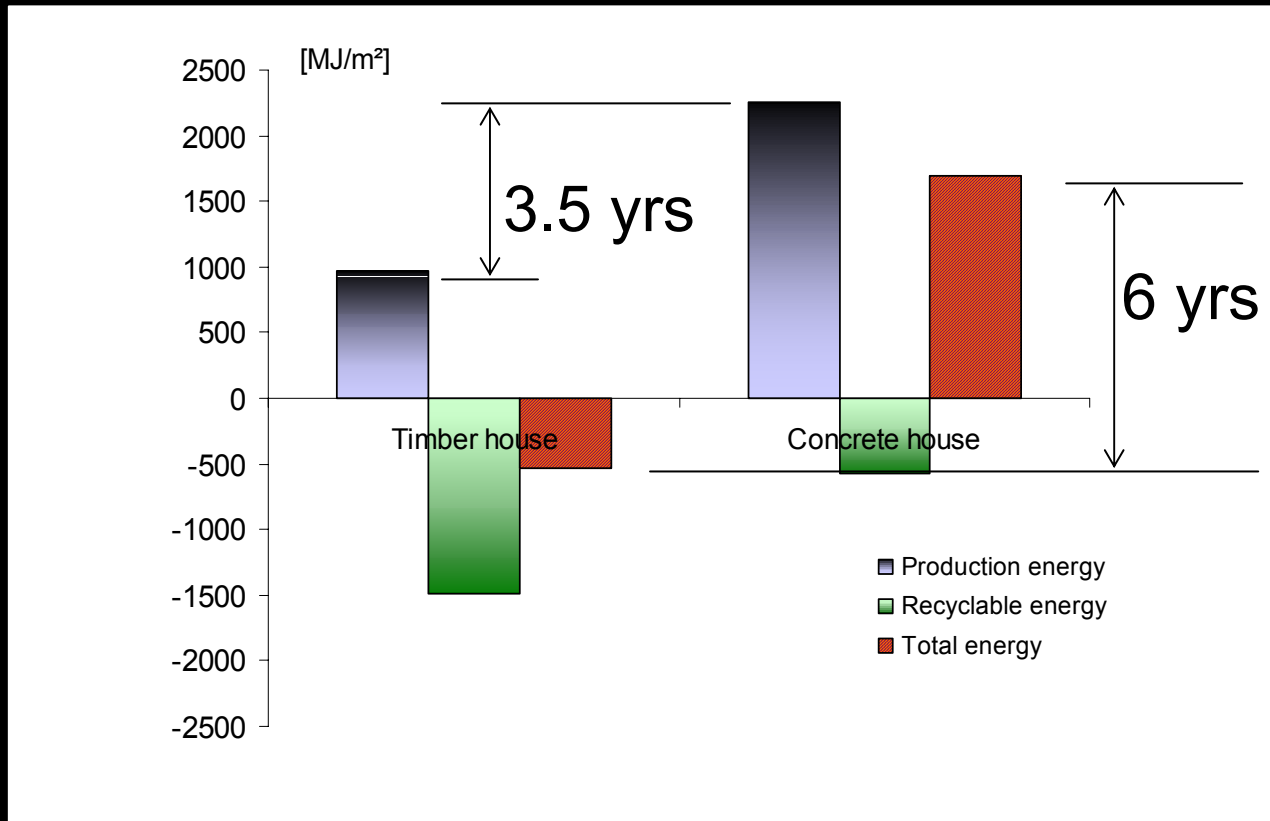
The timber house: Timber frame structure, Södra floor, timber cladding

”The concrete house”; Steel structure, hollow core concrete slabs, timber frame infill walls, render

”From cradle to grave” (except service life phase)

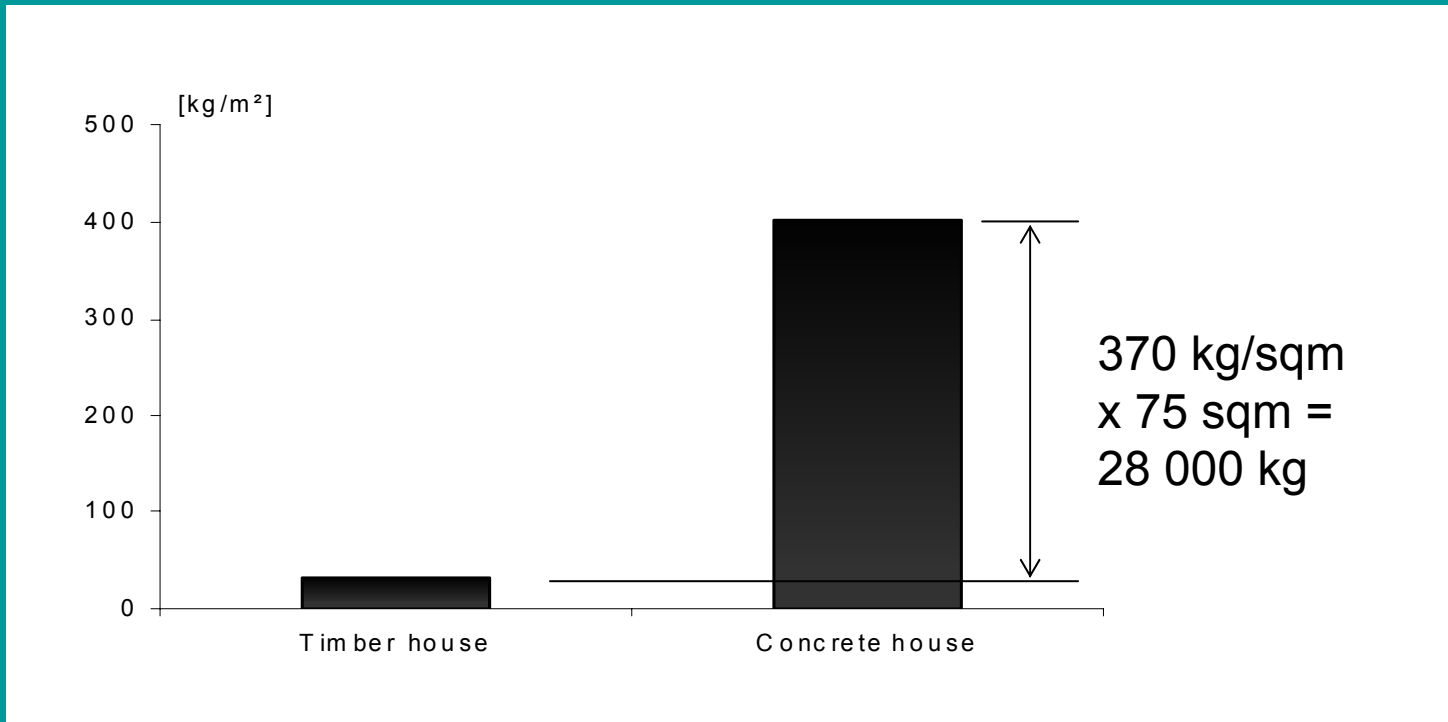
Energy, carbon dioxide etc

The timber house saves 6 years energy need!



The calculation is based on the energy consumption goals for the buildings at Bo01, i.e. 380 MJ/sqm/yr (105 kWh)

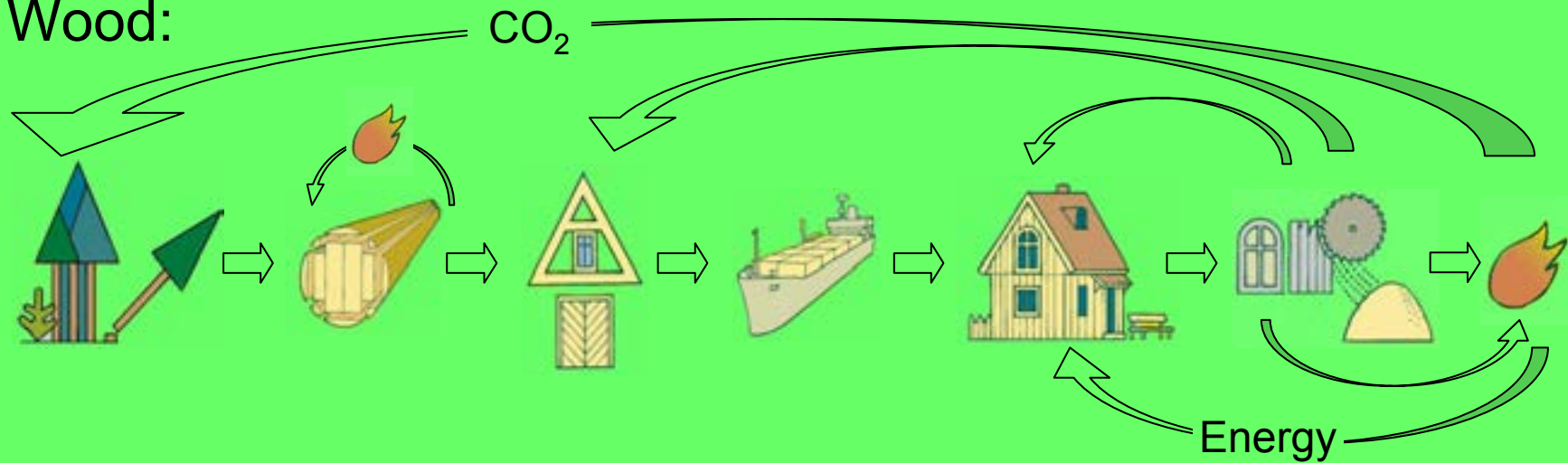
CO2 emissions difference =
emissions from 27 years heating!



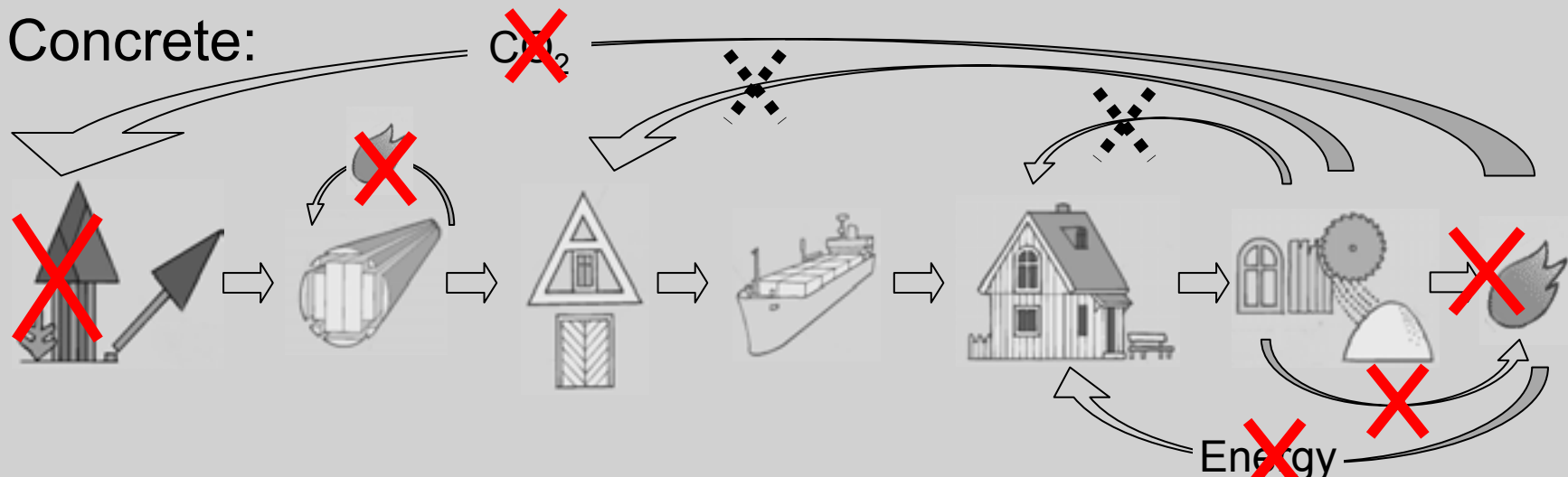
...or 130 000 km with a Volvo S80!

Volvo S80: 0.21 kg/km

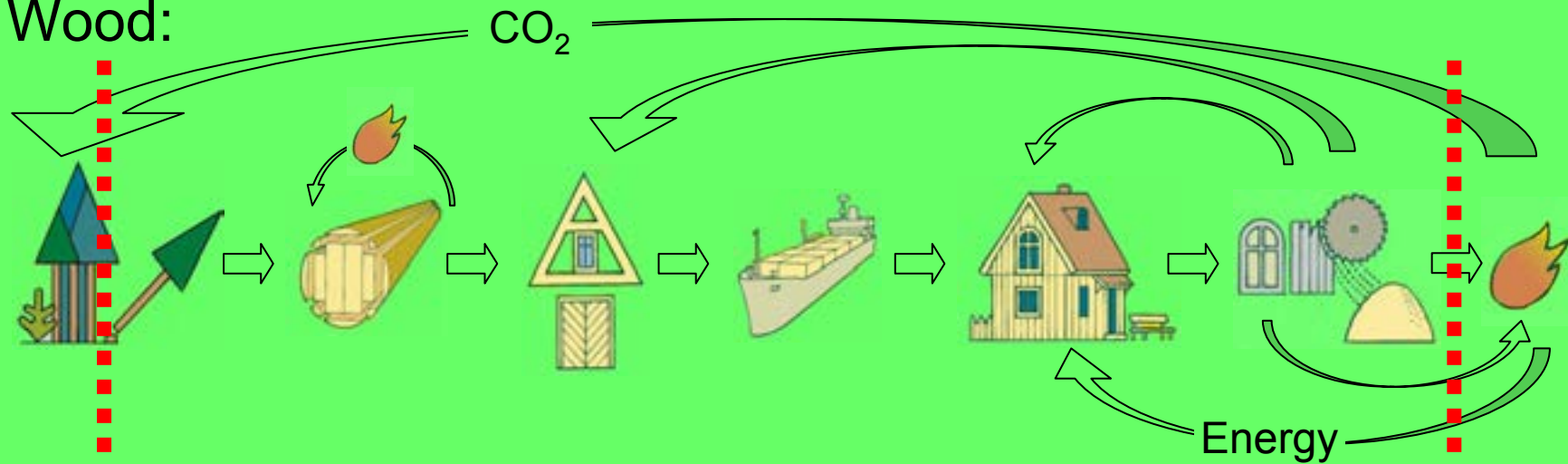
Wood:



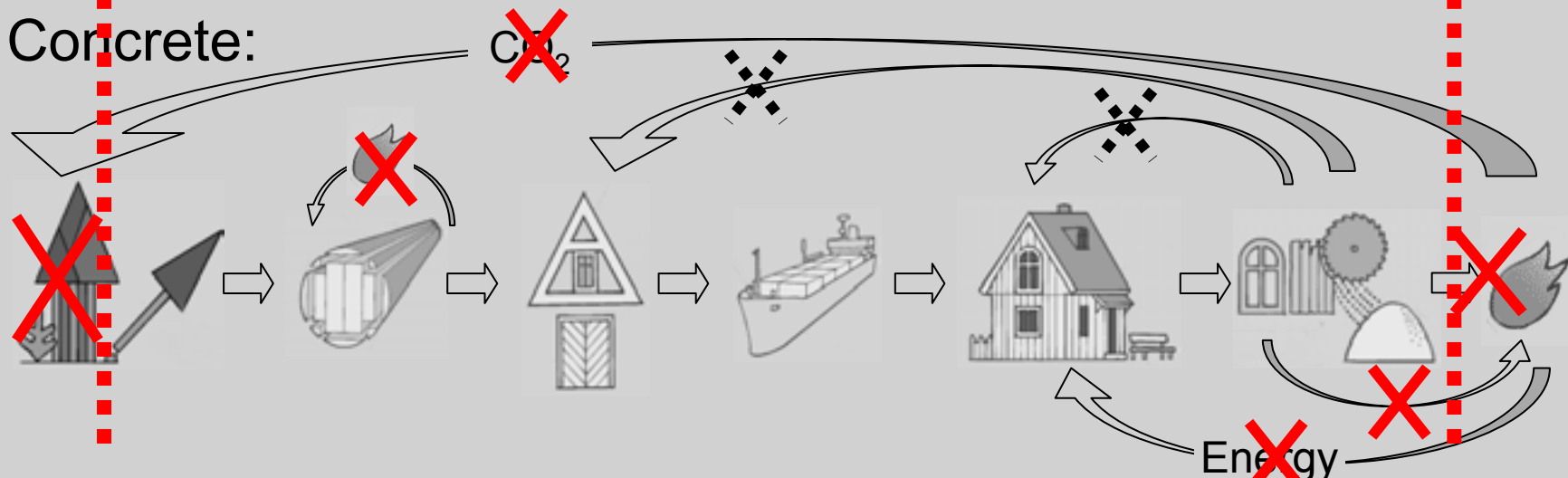
Concrete:



Wood:



Concrete:



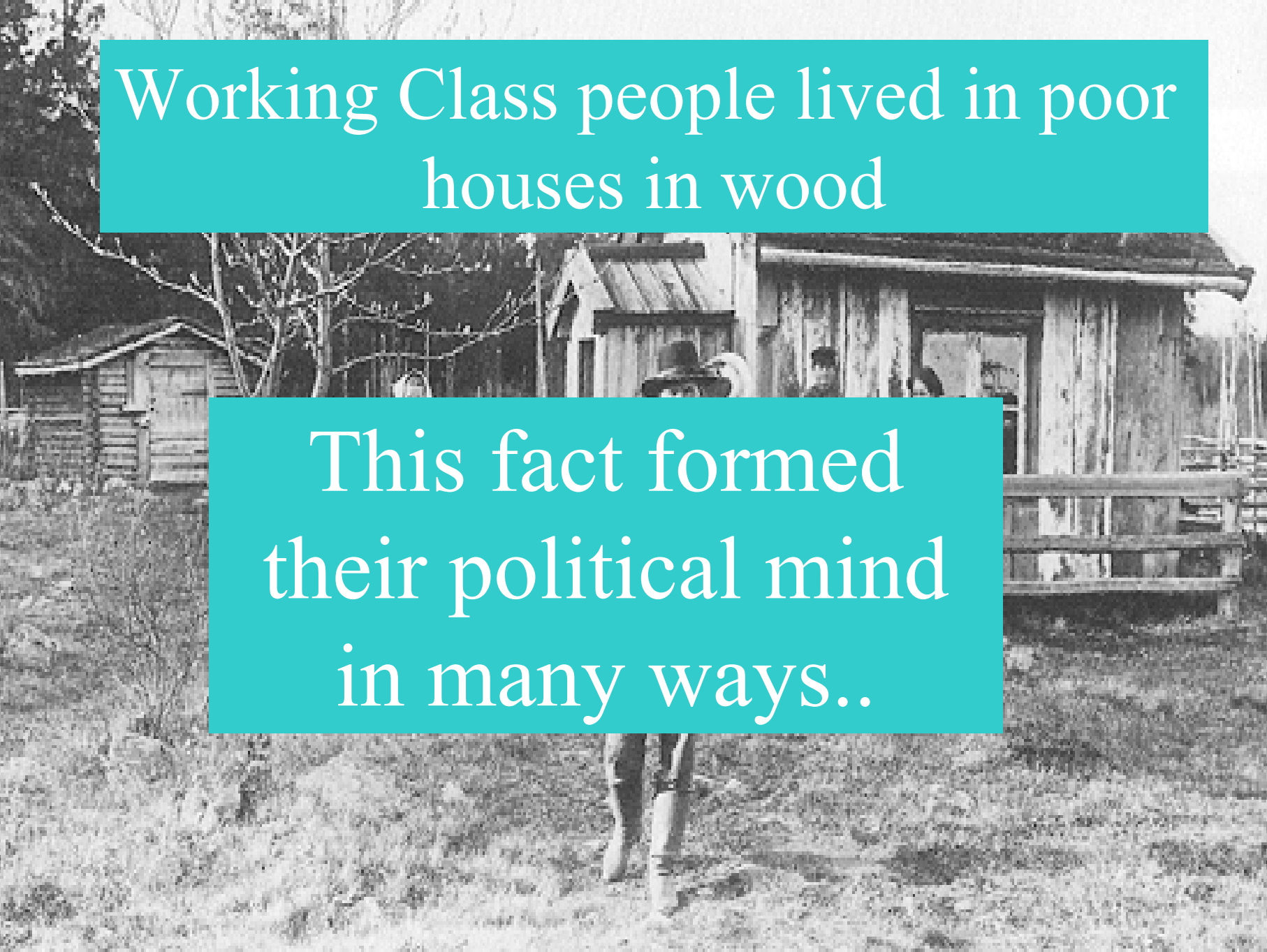
- In 1874 there were legislation in Sweden that forbidden to build multifloorbuildings in wood in the cities because of the risk of fire.
- This absurd law was actually first removed when Sweden became EU-member in 1995!

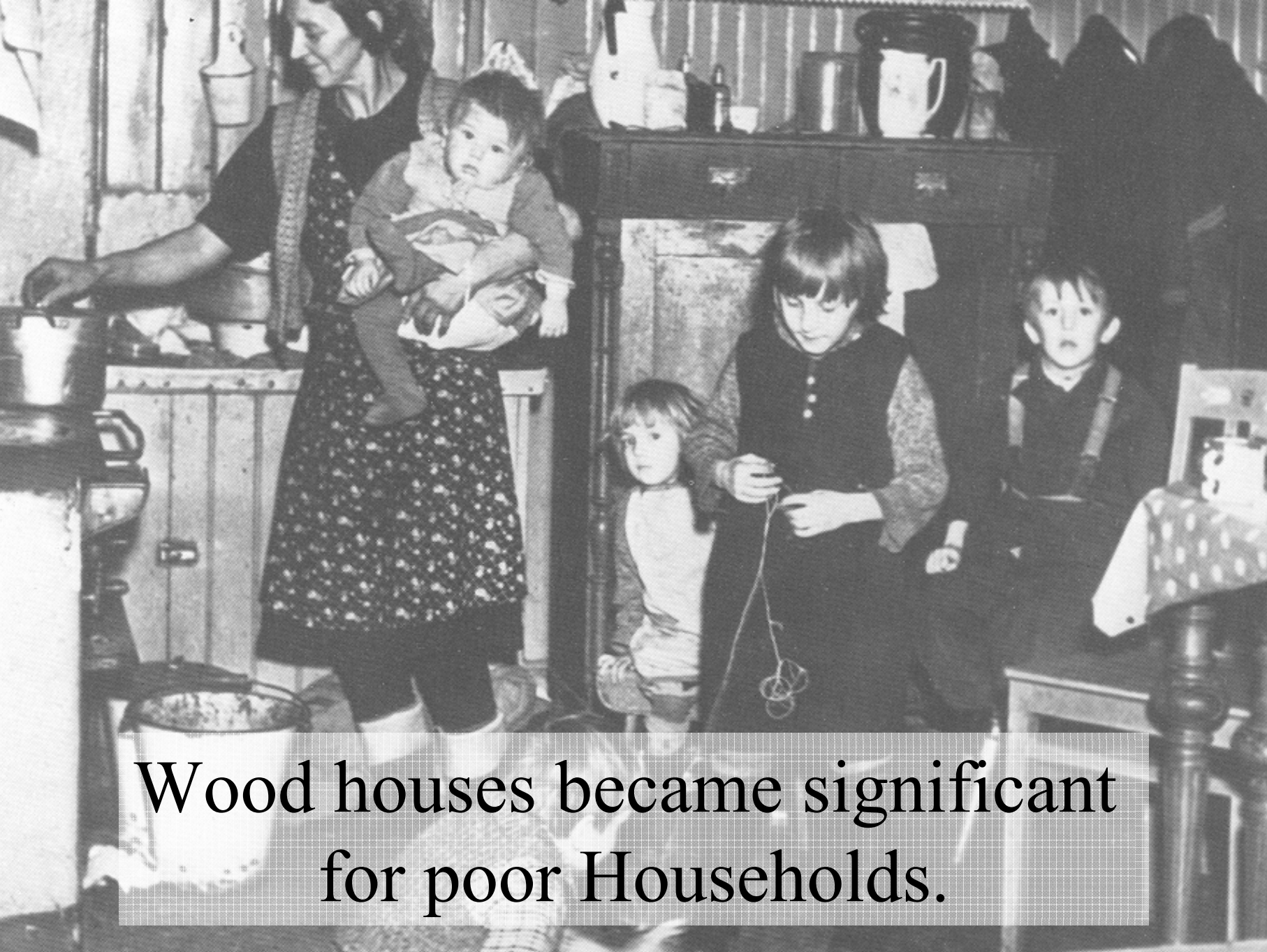


The city of Sundsvall had a major
fire on june 25 1888

Working Class people lived in poor
houses in wood

This fact formed
their political mind
in many ways..





Wood houses became significant
for poor Households.



Le Corbusier 1924:

"Architecture or REVOLUTION!!!"
It is Your
choice....

In Sweden this new architecture was established in the 1930s and in the 1960s it was dominating completely...



The old wooden Towns in Sweden



- Old fashioned
- Risk of Fire

The City of Linköping 1880

A modern Wood town



Modern wood house dont look like wood house



Produced by 70 per cent in a factory in south part of Sweden...!





”Now we don’t have any legislation against Wood constructions anymore. That means that we must have a position in Europe in Wood buildings to support especially larger and innovative constructions in wood. ”

Minister of Forest Issues Ulrica Messing in april 2005

What we are doing...

In cooperation with the Government in Sweden
we form Wood industry activities.

We support projects in Wood Constructions

We give facts and information about
modern Wood Constructions.

We form education system, mainly for
architects, constructors ...

We support companies, both those who are
into Wood Constructions and new
companies of course

Our Web-site: www.trabyggnadskansliet.se

Examples for inspiration:

Multifloor houses

Public Buildings

Examples from USA and
Europe

Bridges in Wood
Construction



Tänk stort - bygg i trä

Det är i dag fullt möjligt och säkrat med stora fördelar att bygga höga hus och större offentliga byggnader med utvecklad träbyggnadsteknik. I USA - det stora träbyggnadslandet - dominerar träbyggnadstekniken sedan länge allt bostadsbyggande.

På ett hållnadsväxande sätt har det moderna träbyggandet utvecklats sedan det otidsenliga förbudet togs bort 1994. Hela tiden ökar andelen flervåningshus, broar och bärande konstruktioner. I hela världen. De ekologiska fördelarna är uppenbara - trä är det enda förnybara byggmaterialet som finns, dess energi- och koldioxidemission visar överlägsna värden jämfört med andra byggmaterial. Trä ingår i naturens eget kretslopp och är det bäst anpassade av alla material till ett hållbart samhälle.

→ Låt dig inspireras

Aktuellt

2005-12-06 | Nationella Träbyggnadsdagen äger rum på Grand Hôtel i Stockholm den 6 december kl 10 - 16.

- Läs mer
- Ladda ner som pdf
- Anmäl dig här



Pressreleaser

2005-11-30 | Pressinbjudan till Nationella Träbyggnadsdagen

- Ladda ner som pdf

www.trabyggnadskansliet.se

Inspiration

Broar

Flervåningshus

Offentliga byggnader

Internationella förebilder

Övriga träkonstruktioner

Flervåningshus

Nedanstående objekt är alla goda exempel på vackra och spännande tillämpningar av större bostadshus i trä i Sverige. Klicka på det objekt du vill läsa mer om.



Flervåningshusen i Vik

Vinnaren av finska träpriset 1998. Består av både tre och fyra våningar höga bostadshus.



Herning, Danmark

Unika genom att de är konstruerade med en kombination av trästomme och trapphustorn av betong.



Råven bostadsområde

Huset är fyra våningar högt, har tre trapphus, alla med hiss och med två lägenheter per trappplan.



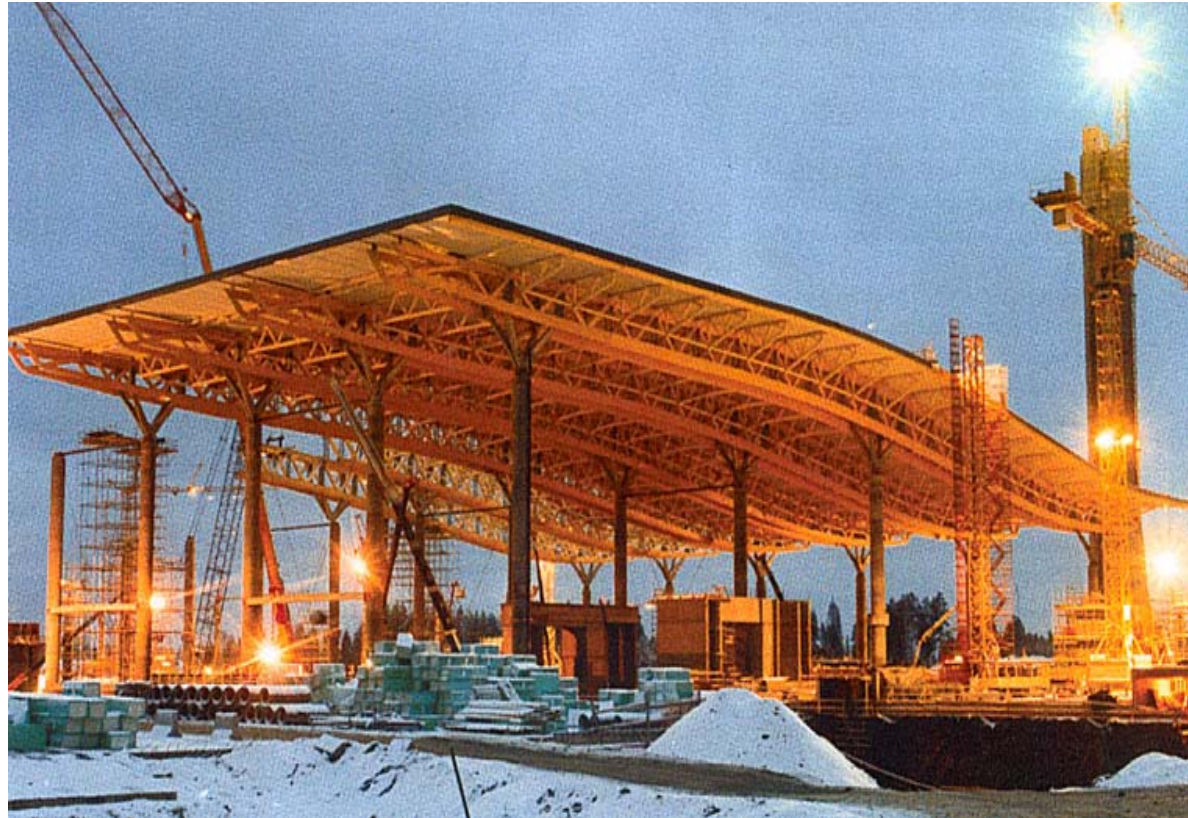
Wälludden

Projektet Wälludden är unikt genom att det ena huset är i fem våningar, vilket ökar kravet på stommens brandmotstånd till R 90.

Modern Wood Constructions in the Nordic Countries

Gardermoen Airport outside Oslo, Norway

A decision in
Parliament!



Former minister of Agriculture in Norway Lars Sponheim. Speech at an International konferens on Concrete (!) in Oslo:

” Wood use in modern constructions instead of concrete reduces energy use in production by 40 per cent and reduce also pollution of carbon dioxide by 75 per cent”



What Politicians do...

A decision makes difference..

In Sundsvall local politician
decided



What we can do about those large-scale projects from 1960ies

Umeå.



The house

Three more floors and a new roof – all in
light-weight Wood Construction



In City of Stockholm

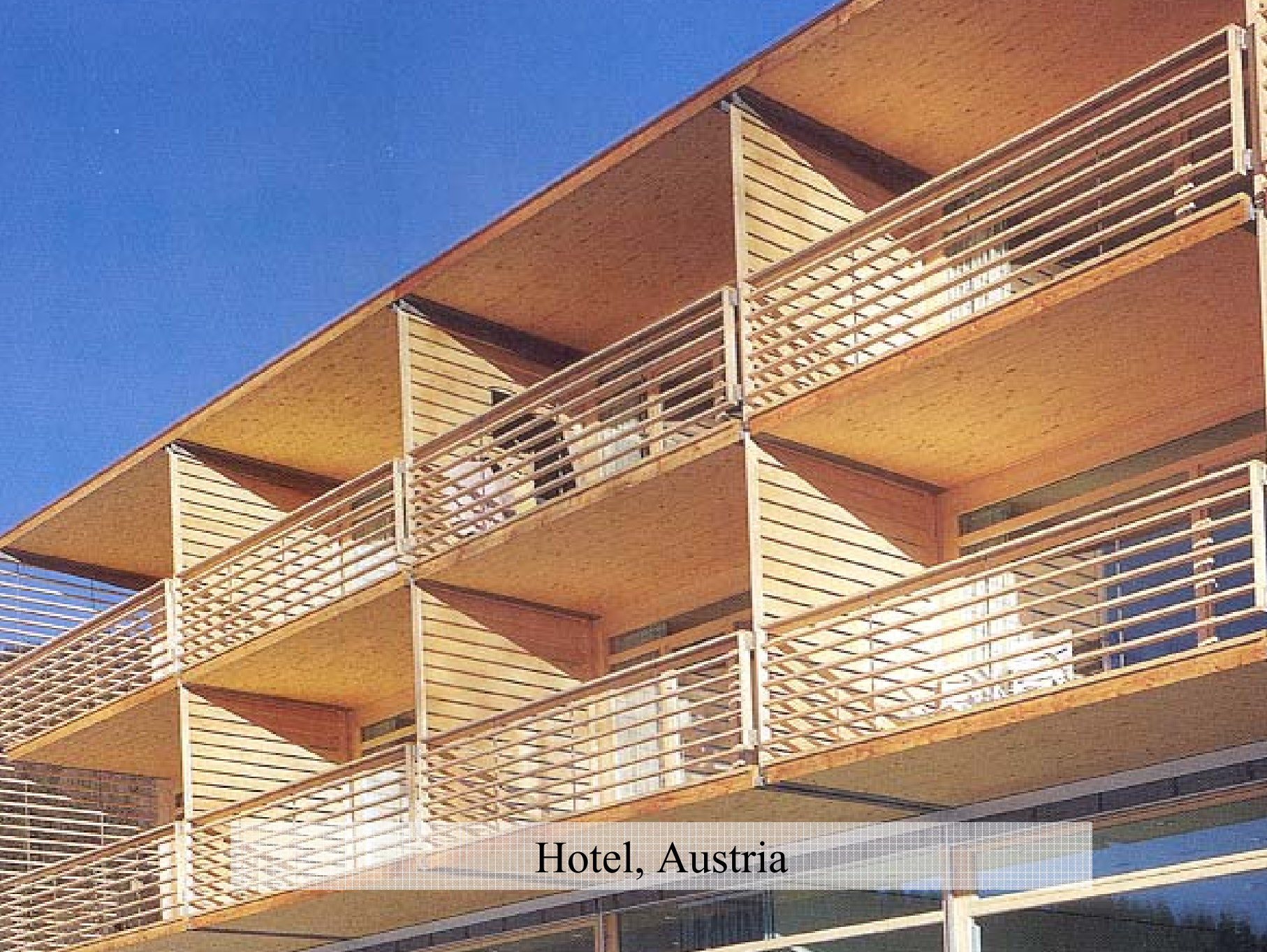


We need more projects to inspire!!









Hotel, Austria



Zell, Austria

Sami Parliament in Kiruna.



BADJANEAPNI - Murman Arkitechts



**In Eslöv
Swedens highest house in
Wood construction
10 floors!**

Ursprunglig arkitekt: Gunnar Asplund
Arkitekt: Curt Salomon-Sörensen
Bygglovsarkitekt: Arkitekterna Krook & Tjäder





Car Parking
house in Åre



Library
Västerås



Office house
Umeå



Industry in Austria



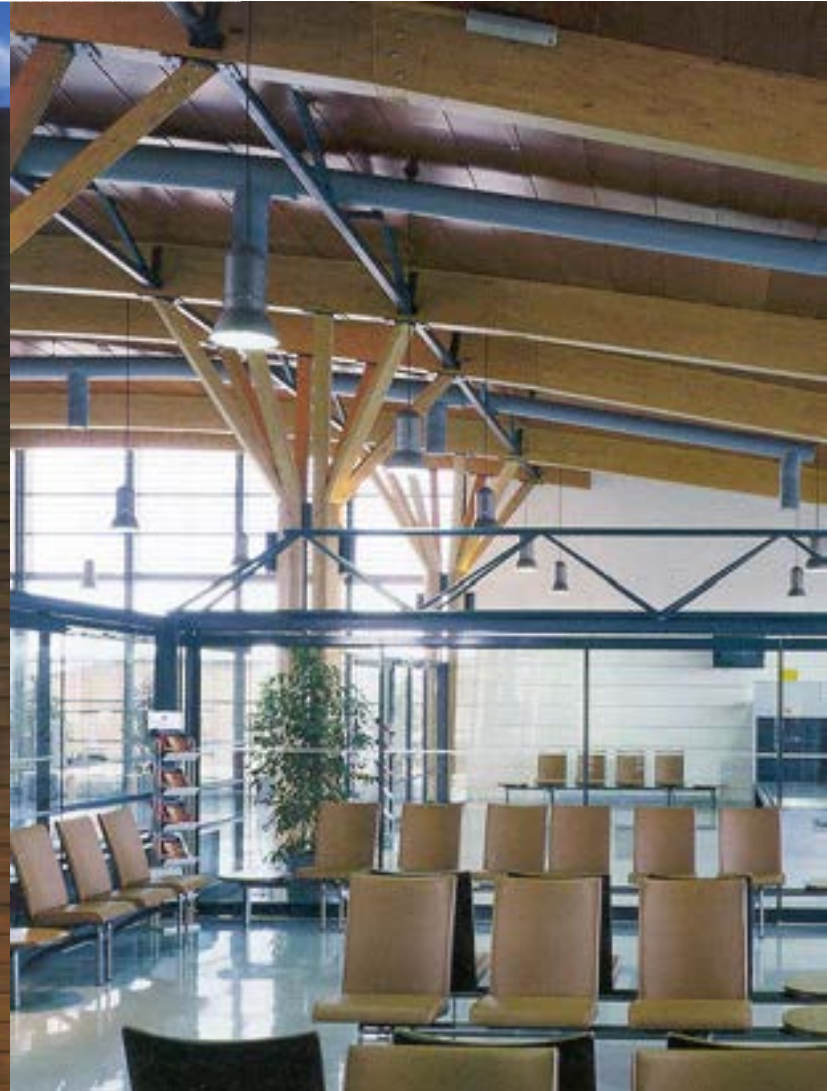


A bridge at Vihantasalmi, Finland

Viking ship in Hamar, Norway



Airport Building, Finland





In Bordeaux,
France



Ski Center, Lahti, Finland 2003

Here's your new home...

