

– BUILD START 2020 –

HOPPET

- the first fossil-free preschool

Maria Perzon

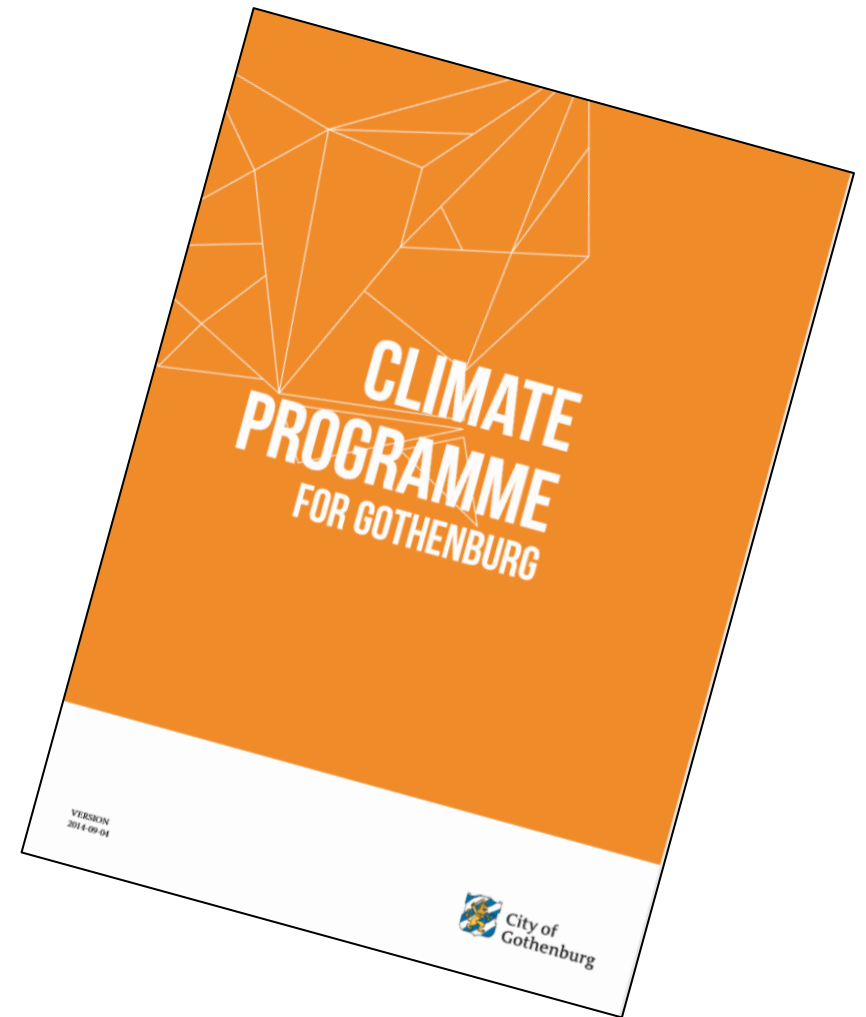
Hanna Ljungstedt

Trondheim, 6 november 2019

[Movie](#)

The City of Gothenburg will be one of the world's most progressive cities in addressing climate and environmental issues.

Local Premises Administration's goal:
Net zero emissions of greenhouse gases by 2030



Political decision:

”The City of Gothenburg is to build a preschool which, as far as possible, is fossil-free at all stages - from raw material extraction via transport and manufacturing to the construction site and the finished building.

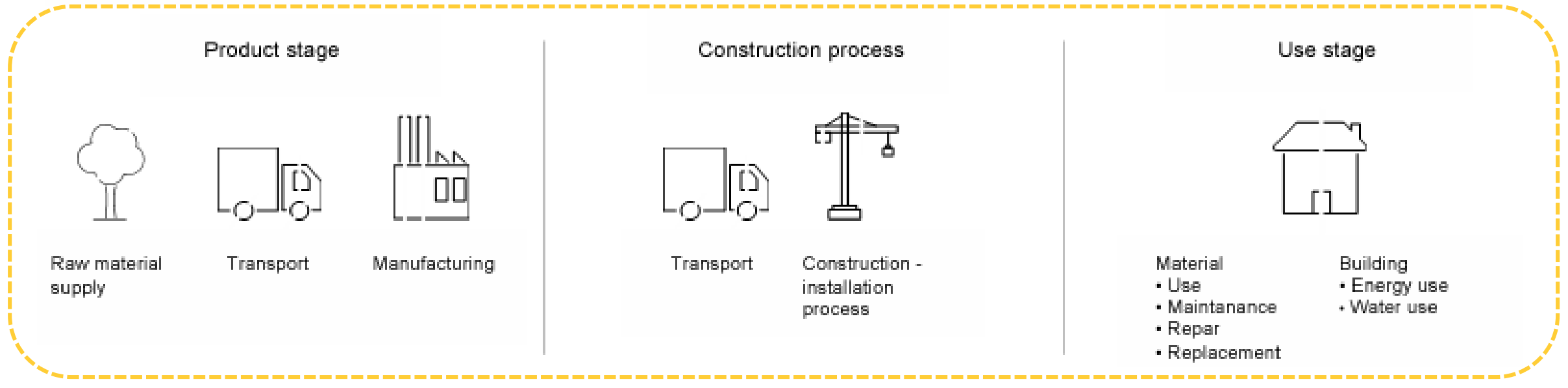
Any climate impact should be compensated for.”

Climate impact from the Swedish construction sector

(kilo tonnes CO₂-eqv.)



Delimitations

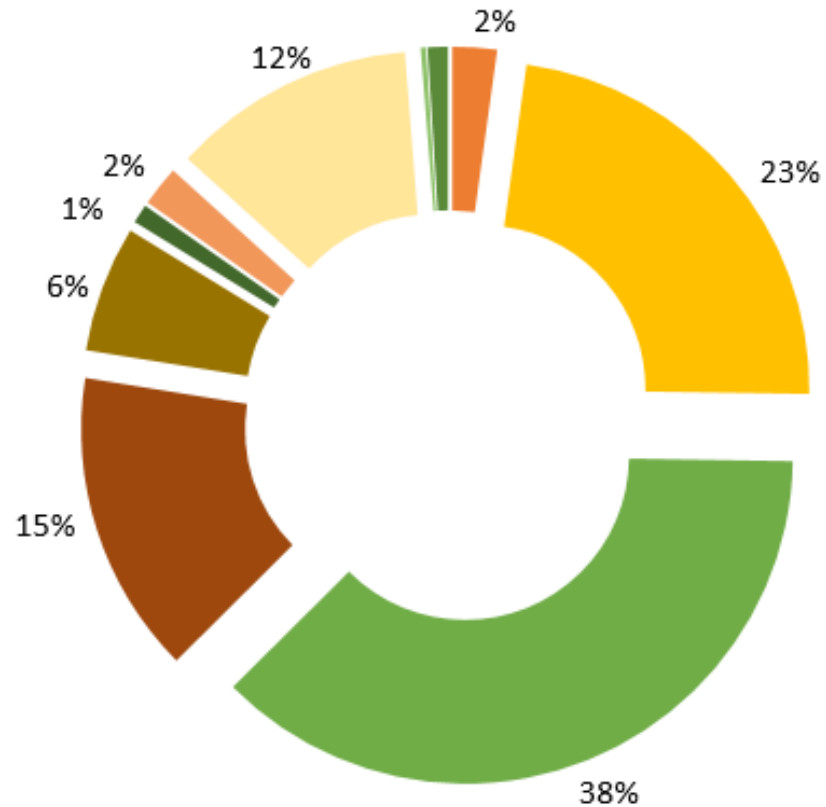


End of life



The reference preschool

Climate impact from a traditionally built preschool



- Foundation reinforcement
- Foundation
- Outer walls, roof, load bearing constr.
- Internal framework
- HVAC, piping etc.
- Electrical and communication
- Surface material

Strategies for fossil-free construction

Biobased

Reused and recycled

Exclude and minimize

Life cycle perspective

Fossil free
construction site

Is it just a preschool?

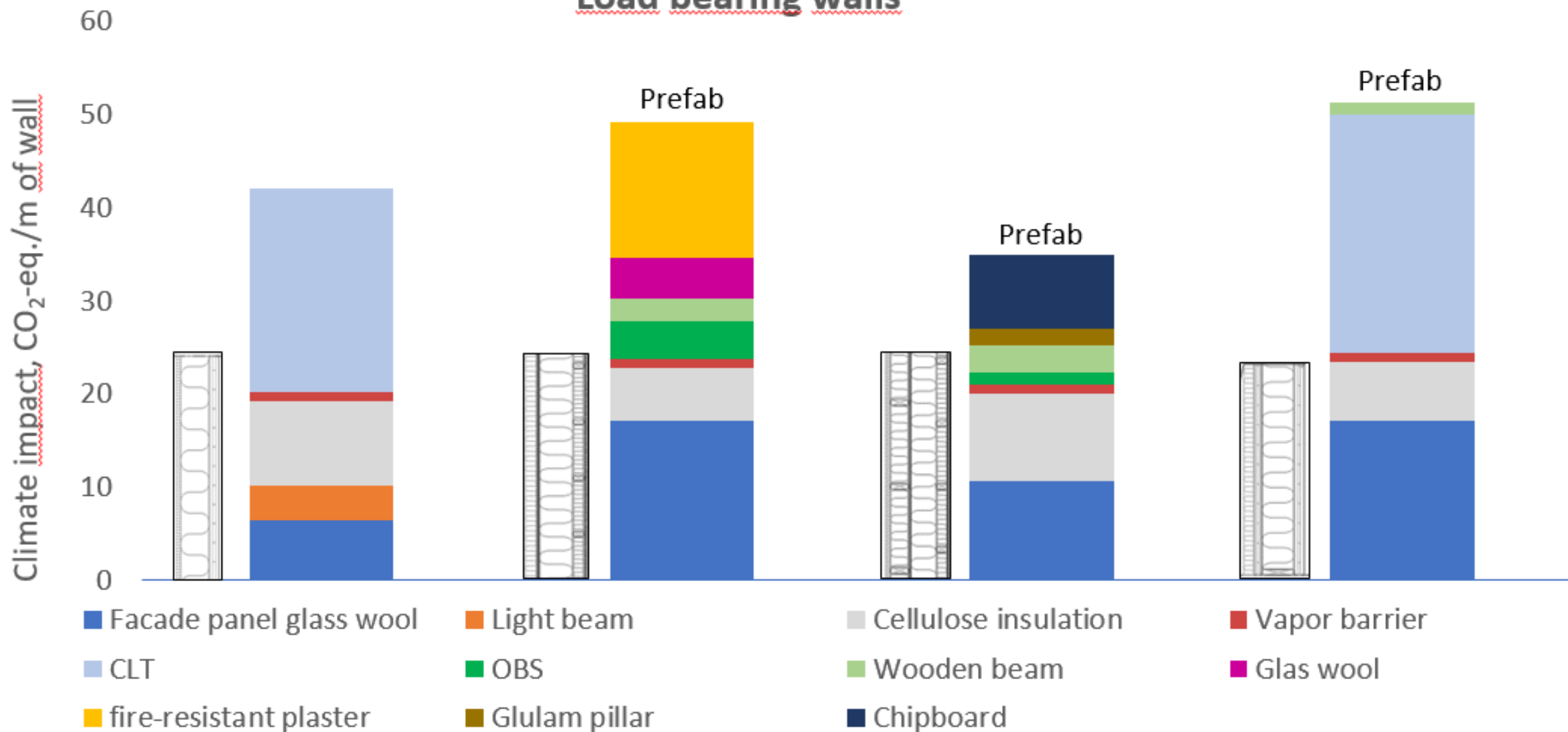




HOPPET



Load bearing walls



Thanks for listening!

More information:

www.goteborg.se/buildfossilfree

Conference paper:

http://iopscience.iop.org/1755-1315/323/1/012159/pdf/1755-1315_323_1_012159.pdf