

– BUILD START 2020 –

# HOPPET

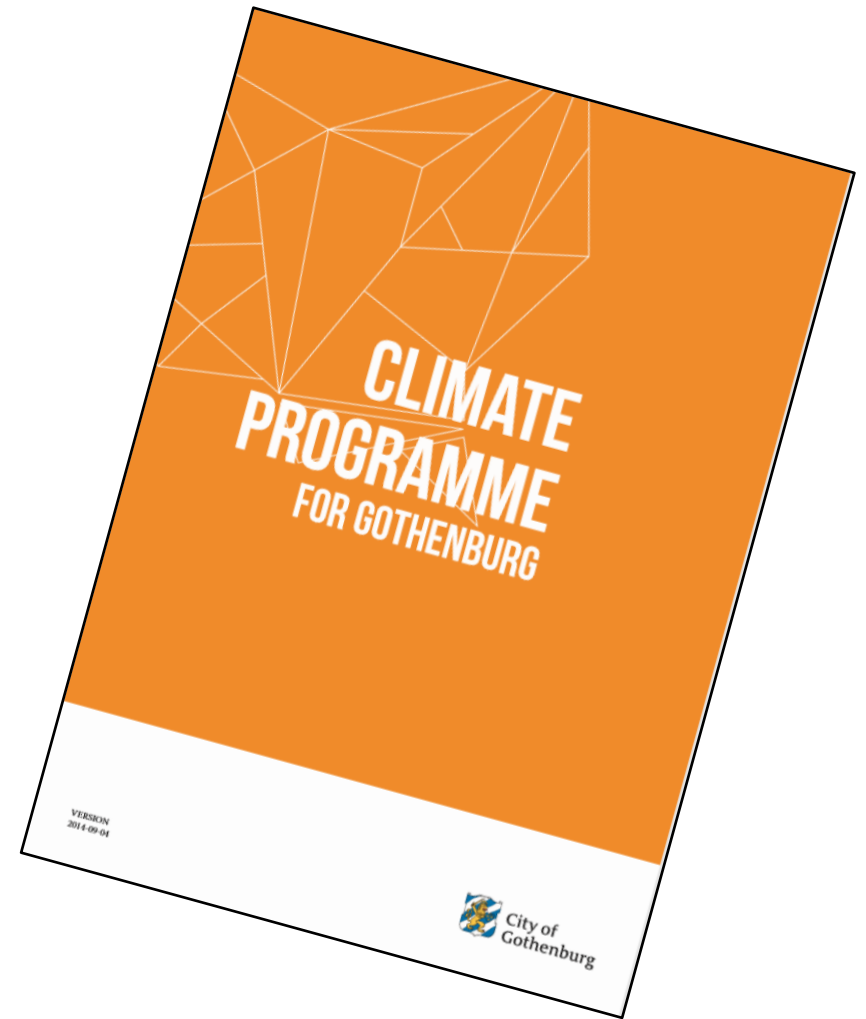
- the first fossil-free preschool

Hanna Ljungstedt  
Graz, 12 september 2019

[Movie](#)

The City of Gothenburg will be a forerunner and one of the world's most progressive cities in addressing climate and environmental issues. The goal is elaborated in the Climate Strategy Program for Gothenburg.

Local Premises Administration's goal is to achieve net zero emissions of greenhouse gases by 2030 at the latest.



## **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.

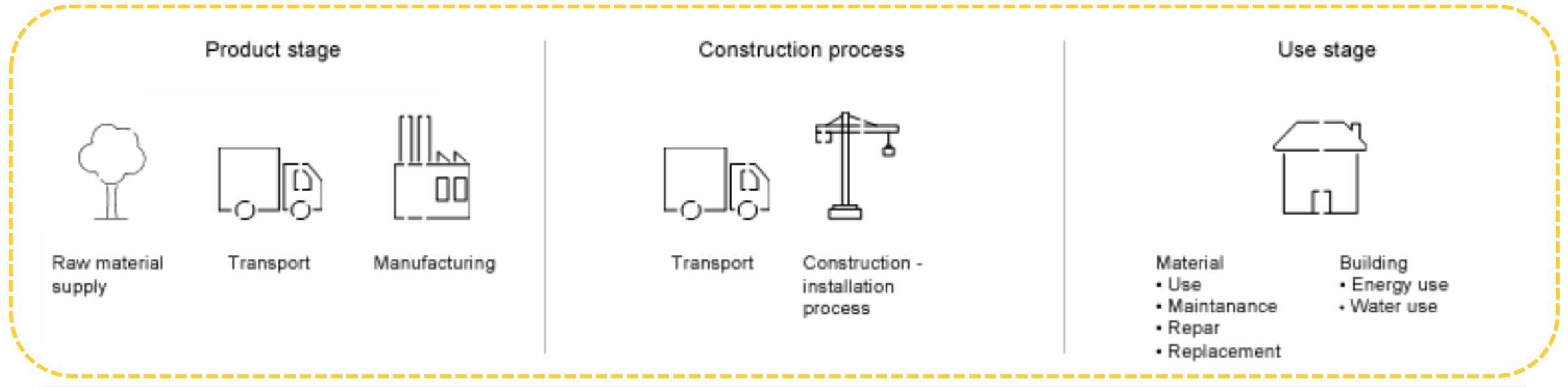
Any climate impact should be compensated for.”

# Sweden's construction sector – Climate impact

kilo tonnes CO<sub>2</sub>-eqv.



# Delimitations

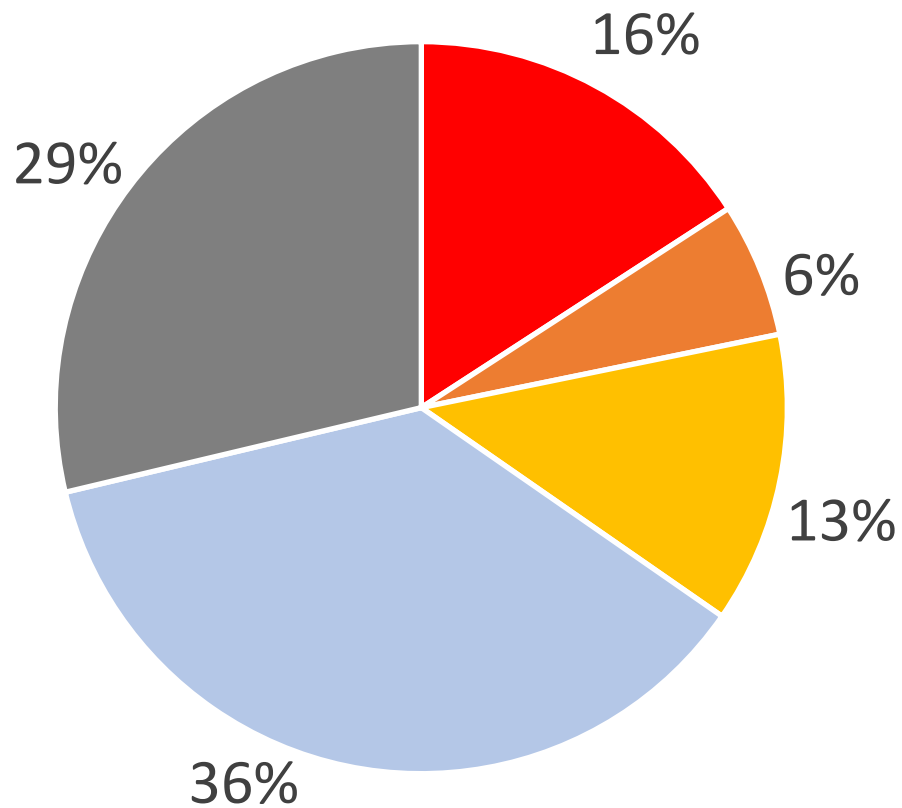


## End of life



# The reference preschool

# Which building materials in a preschool have a content of fossil origin?



## Petroleum-based raw materials (80-100%) :

Plumbing products, insulation, electrical products, fire joints, plastic films

## Petroleum-based raw materials (50-79%) :

Pipes, cables, plumbing products, plastic films, surface layers

## Petroleum-based raw materials (30-50%) :

Cables, surface layers, joints, paint

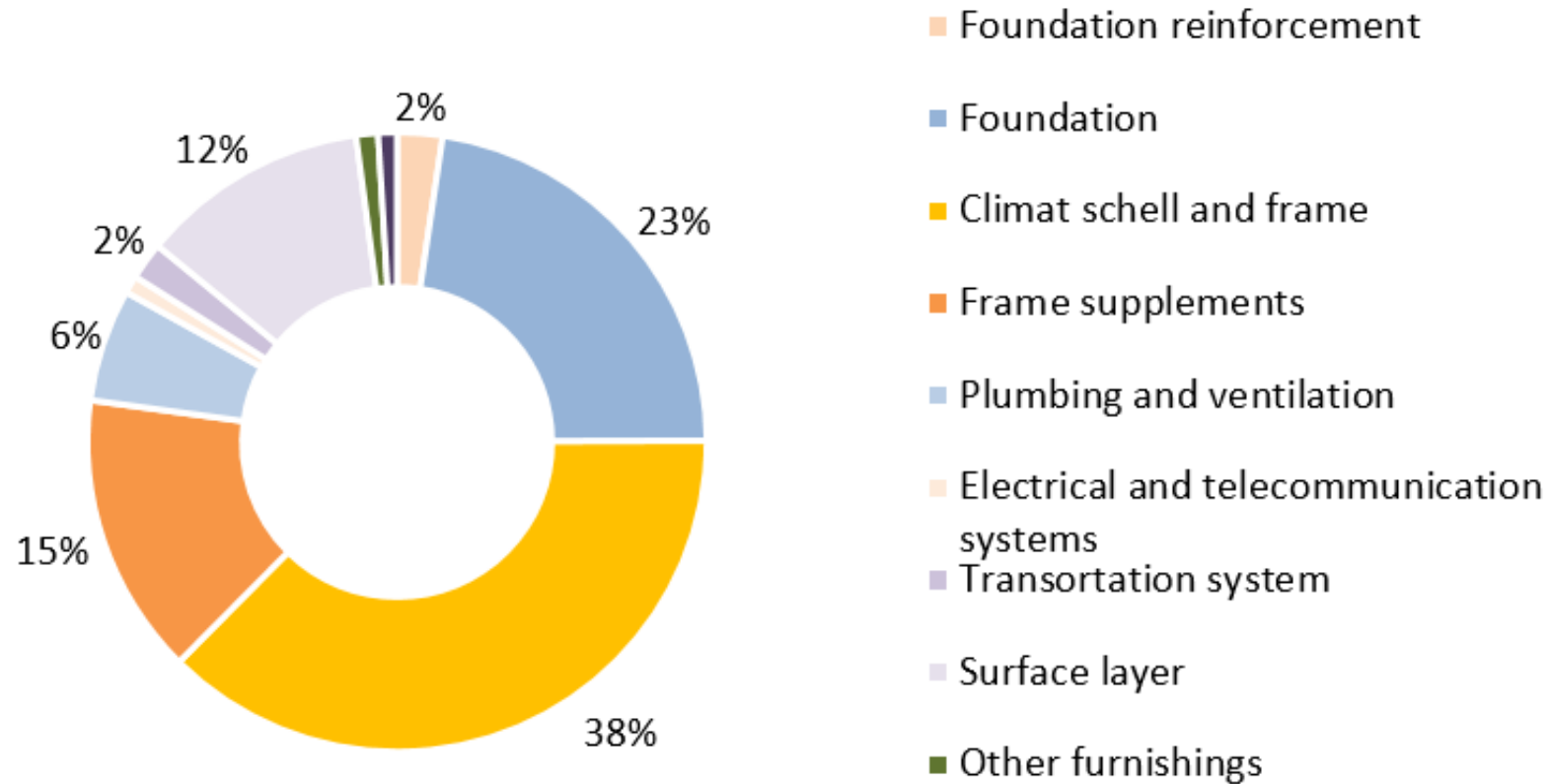
## Petroleum-based raw materials (1-30%) :

Cables, Paint, soft joints, plumbing products, insulation, doors, windows

## Without petroleum-based raw materials:

- 19 with metal - energy-intensive process
- 9 with cement - energy-intensive process → **CO<sub>2</sub> released**
- 3 with mineral wool - energy-intensive process

# Climate impact from a traditionally built preschool



**Figure 3.** Climate impact of construction components in the reference preschool, Byvädersgången. Life cycle stages A1-A4 and A5.1 are included in the analysis.



# Strategies for fossil-free construction

# Strategies for fossil-free construction

**Biobased**

**Reused and recycled**

**Exclude and minimize**

**Life cycle perspective**

**Fossil free  
construction site**





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**HOPPET**



# Hoppet - an innovation project to build fossil free

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## Sweden's first fossil-free construction project

Hoppet is an initiative with the purpose of creating better conditions for fossil-free constructions. The first milestone is to build a preschool, constructed as far as possible with fossil-free material and procedures. From resource extraction to construction site and operation. We are looking for ground-breaking actors and entrepreneurs that are willing to join us and make the impossible possible.

Do you want to join us?

[FAQ](#)

[Upcoming activities](#)

HOPPET



Göteborgs  
Stad