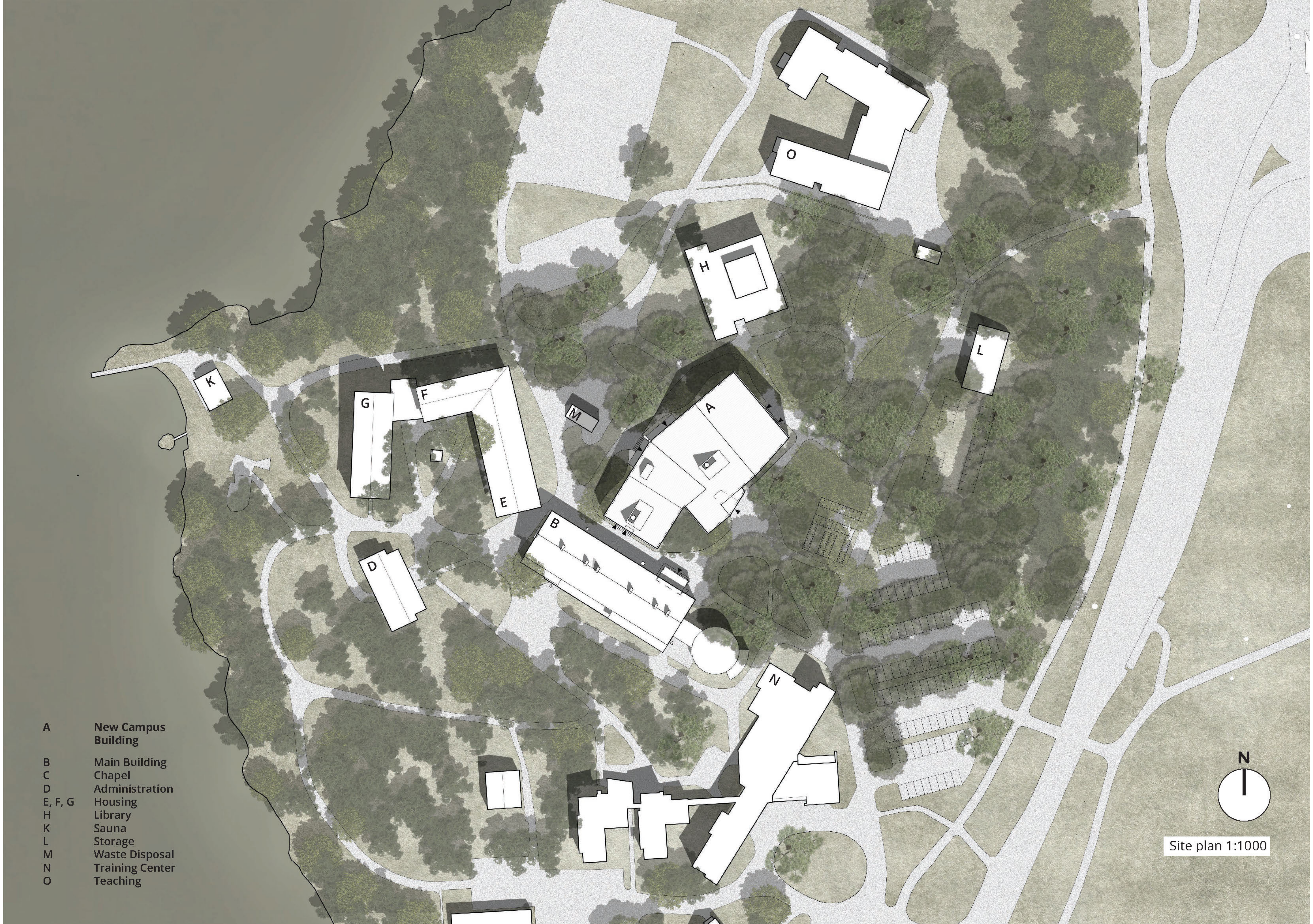
OOPEAA

CLT RAKENTAMINEN ARKKITEHDIN SILMIN

LASTU – STEP KOULUTUSKESKUS JÄRVENPÄÄ



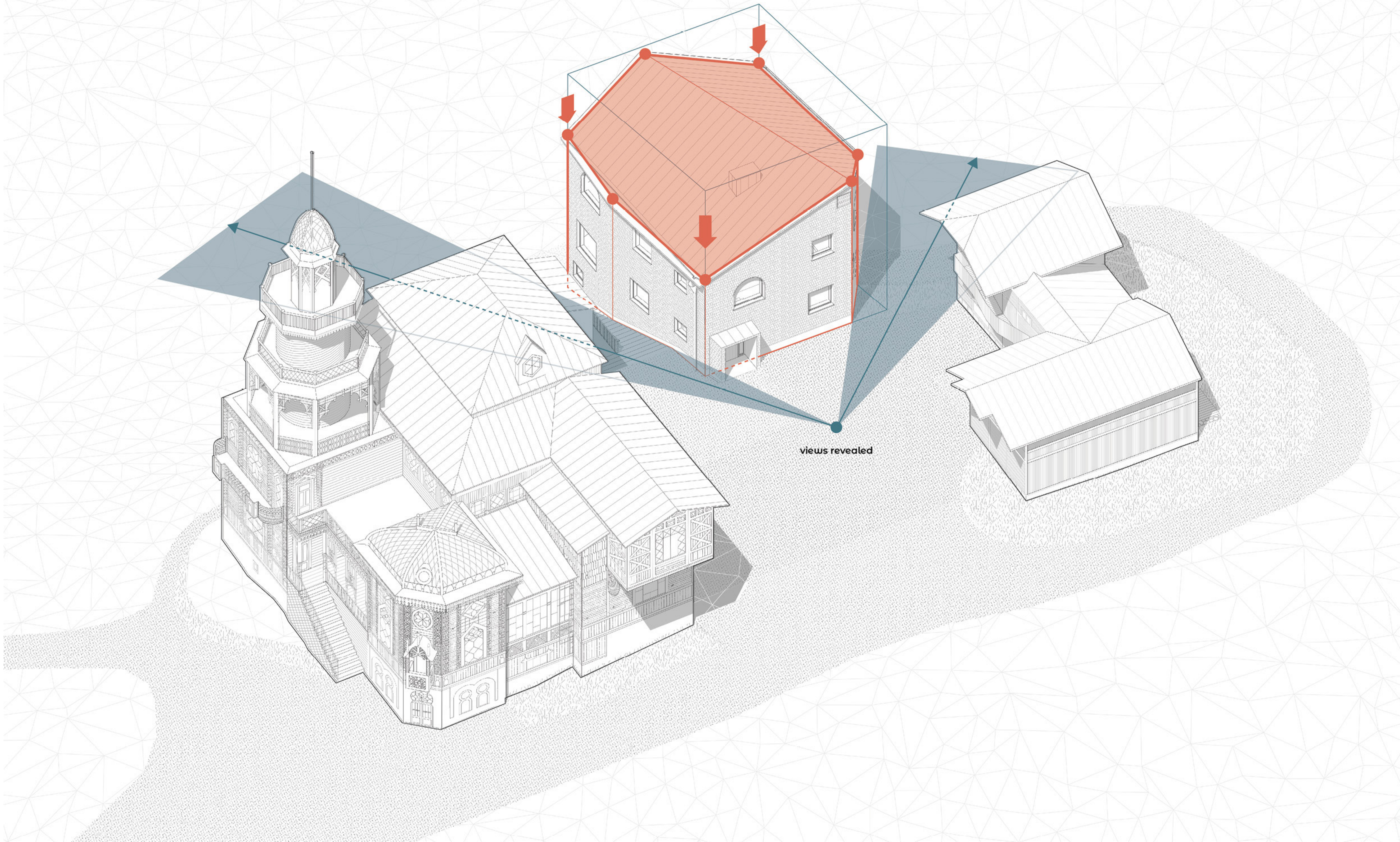
A New Campus Building
B Main Building
C Chapel
D Administration
E, F, G Housing
H Library
K Sauna
L Storage
M Waste Disposal
N Training Center
O Teaching
A
B
D
E
F
G
H
K
L
M
N
O
N
Site plan 1:1000

Site plan, hill 1:500

INTERVENTION

Käenpoika guest house

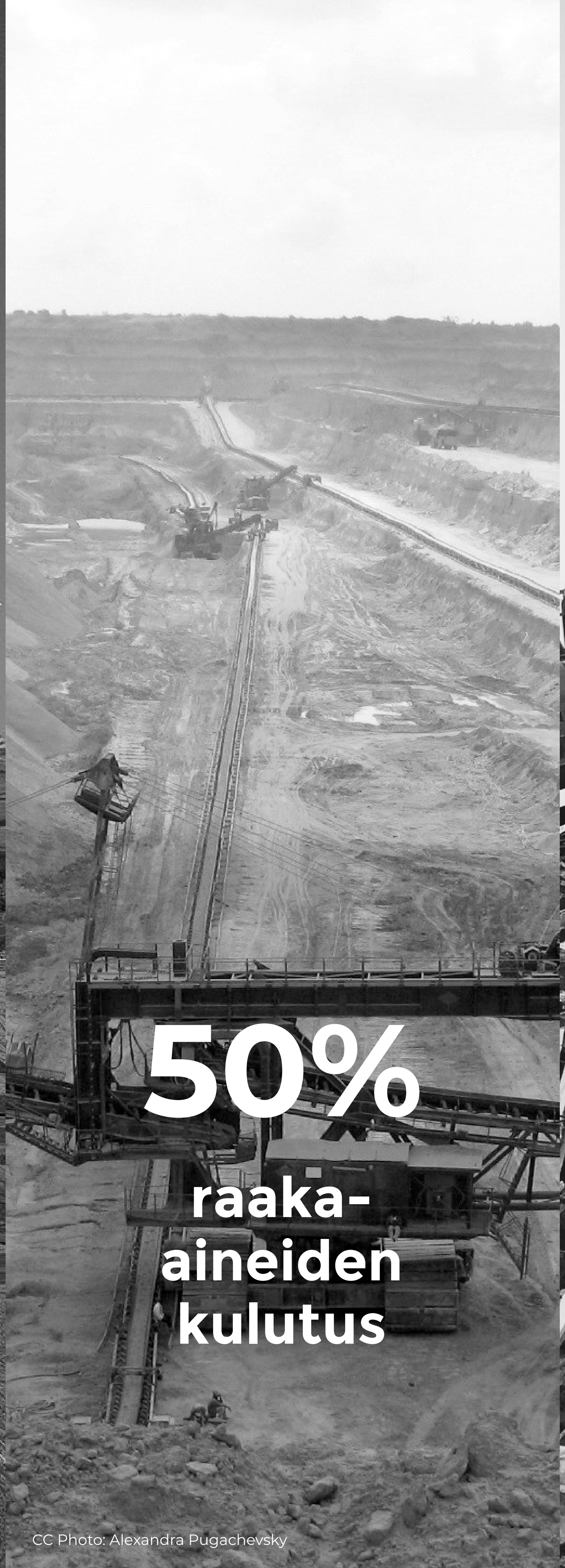
- form sculpted to respect surrounding buildings





Based on information from: Model for Life Cycle Assessment (LCA) of buildings, Publications Office of the European Union
CC Photo: Petr Kratochvil

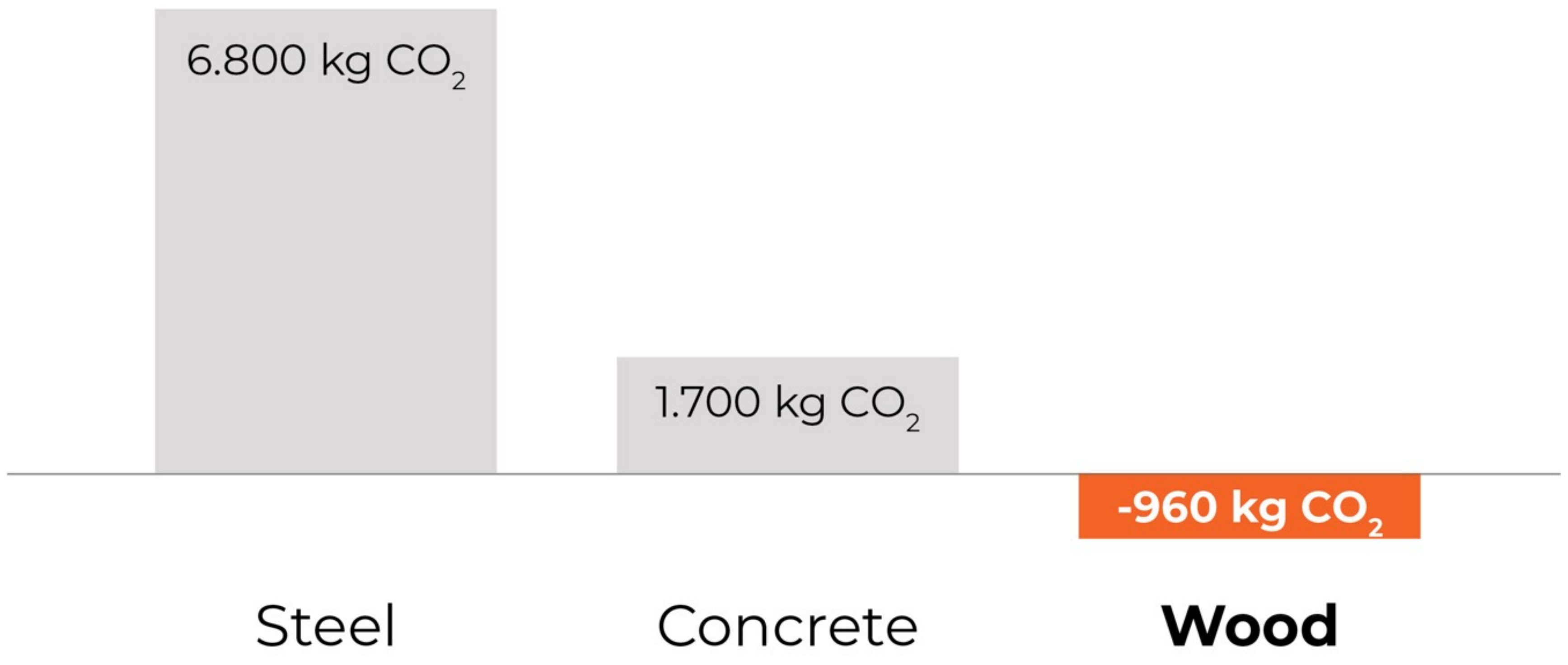
CC Photo: ENERGY.GOV



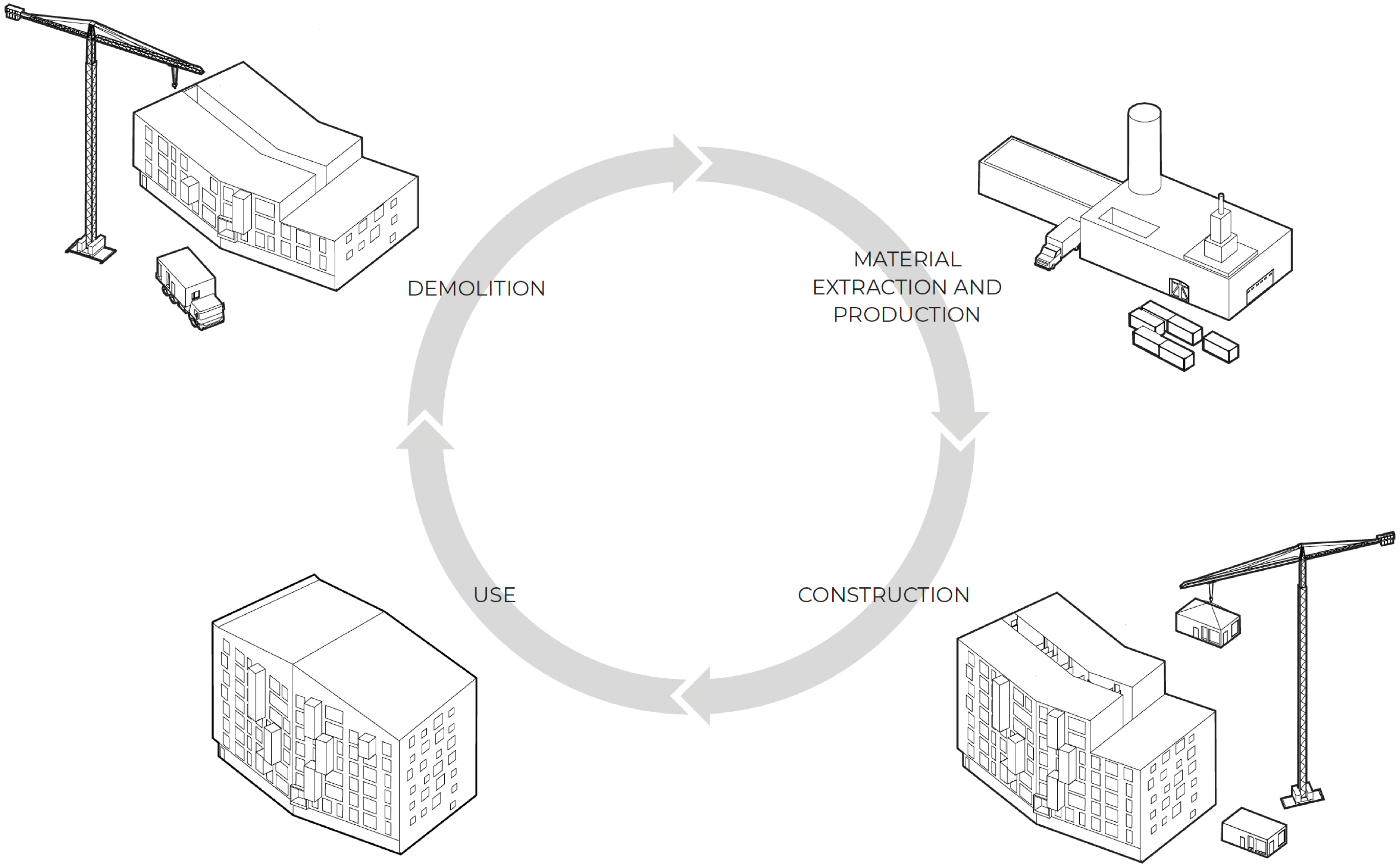
CC Photo: Alexandra Pugachevsky

CC Photo: Gennady Grachev

Release of CO_2 per $1m^3$ of construction material



Source: Ökobau.dat

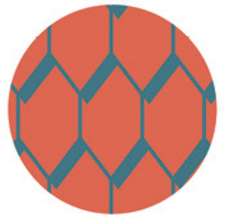

DEMOLITION
MATERIAL
EXTRACTION AND
PRODUCTION
USE
CONSTRUCTION

NEW INTO OLD

- addition enhances the functionality of the existing buildings and provides a quiet complement to the ornate decoration of the castle

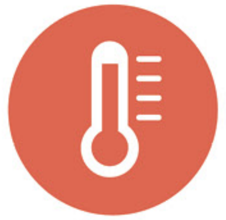
RESILIENT & RENEWABLE MATERIALS

- wood primary structure and cladding
- carbon storage benefits
- simplified maintenance and building physics due to singular material (wood)



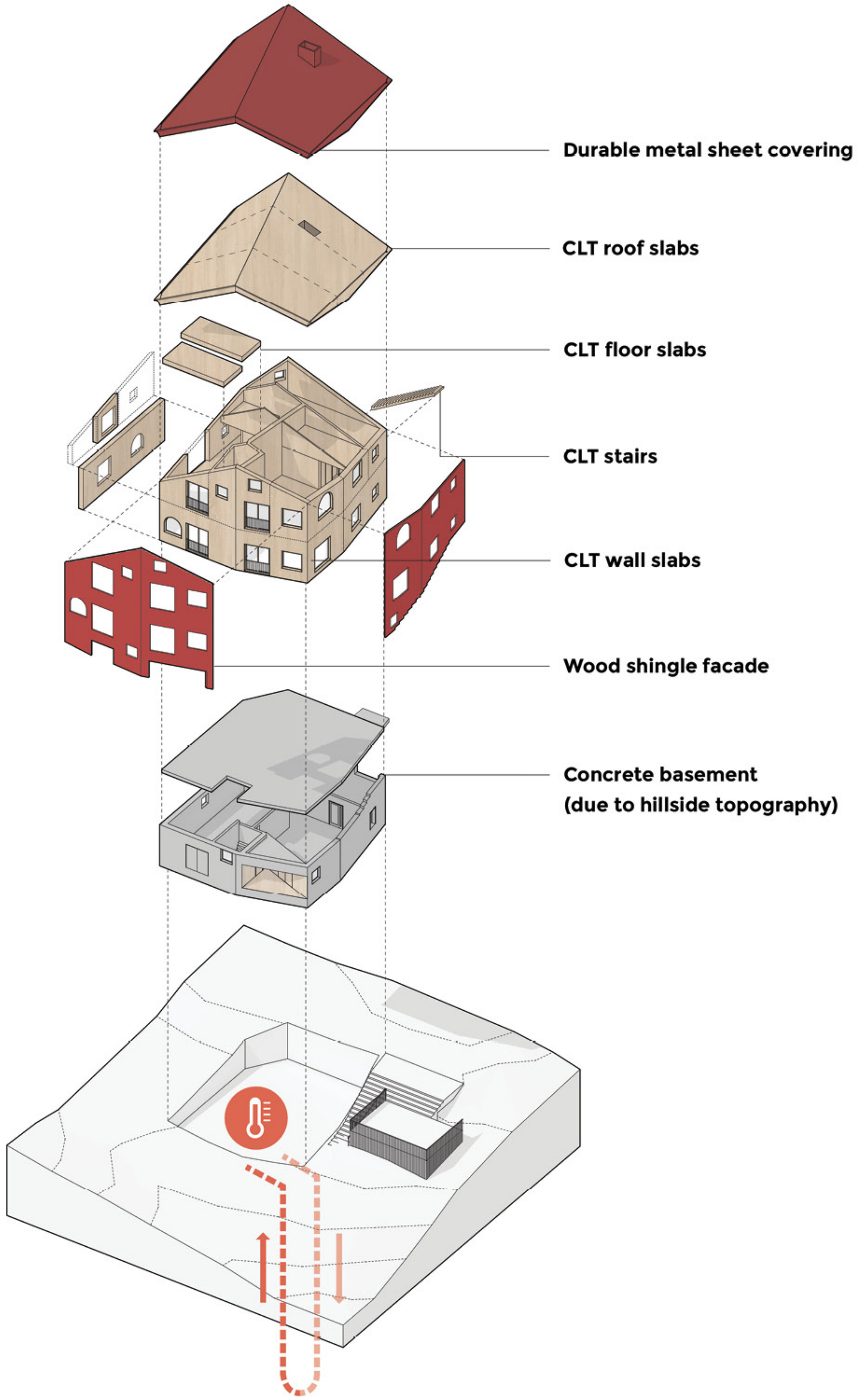
TRADITIONAL MATERIALS, NEW OPPORTUNITIES

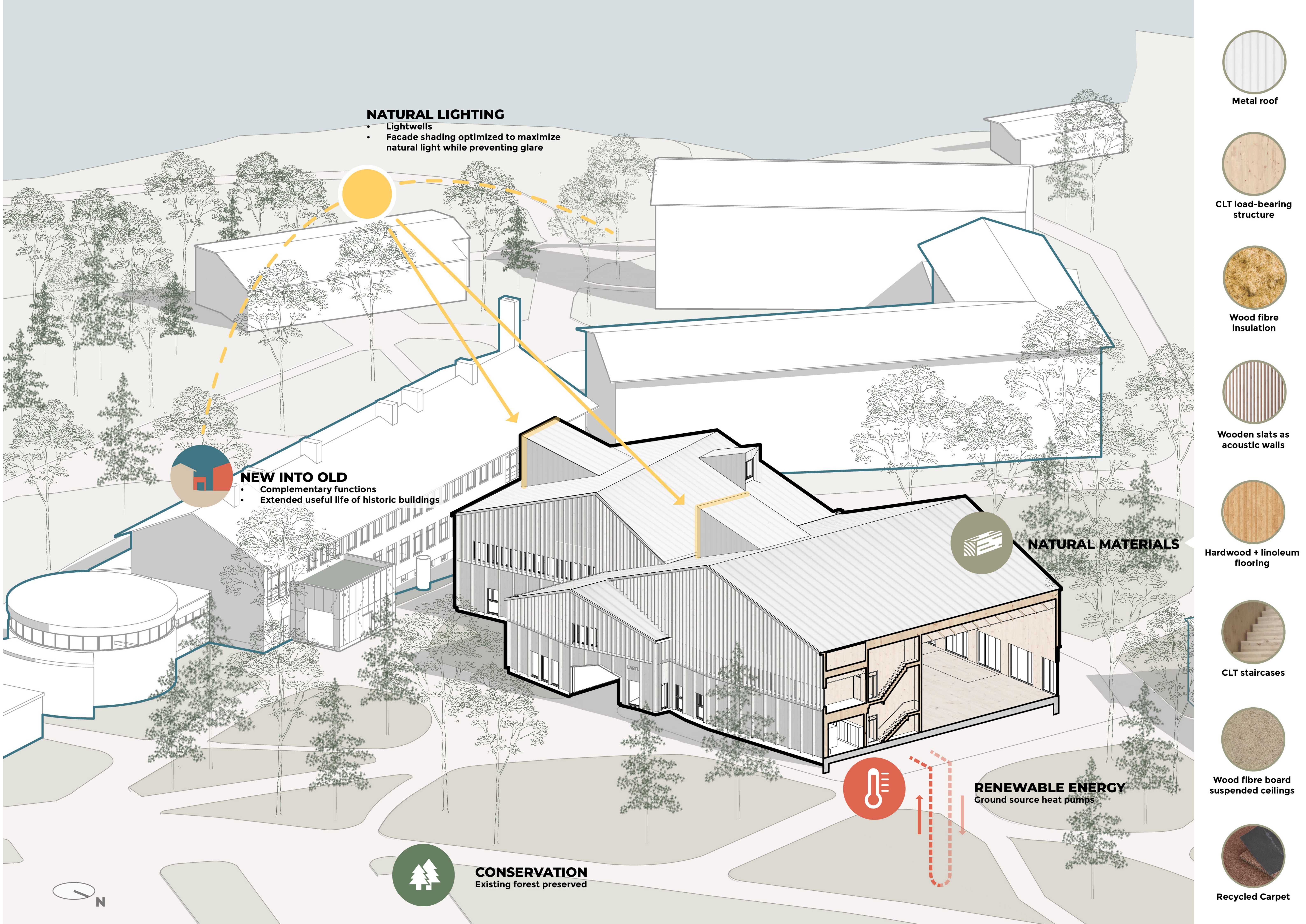
- contemporary interpretation of a traditional shingle facade
- strength of CLT allows for playful facade openings and a flexible, spacious interior



RENEWABLE ENERGY

- ground source heat pumps




NATURAL LIGHTING
Lightwells
Facade shading optimized to maximize natural light while preventing glare
NEW INTO OLD
Complementary functions
Extended useful life of historic buildings
NATURAL MATERIALS
RENEWABLE ENERGY
Ground source heat pumps
CONSERVATION
Existing forest preserved
N
Metal roof
CLT load-bearing structure
Wood fibre insulation
Wooden slats as acoustic walls
Hardwood + linoleum flooring
CLT staircases
Wood fibre board suspended ceilings
Recycled Carpet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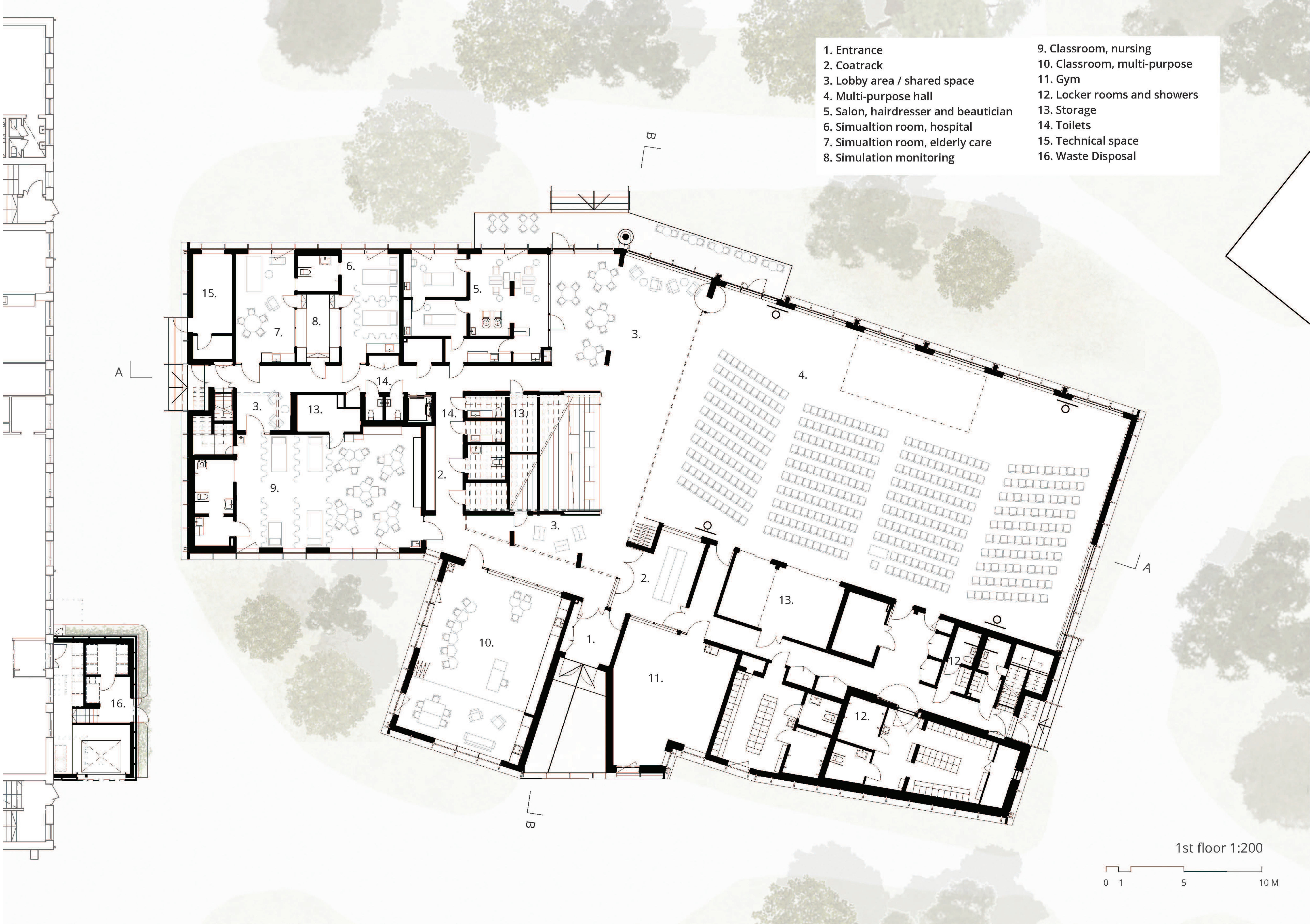
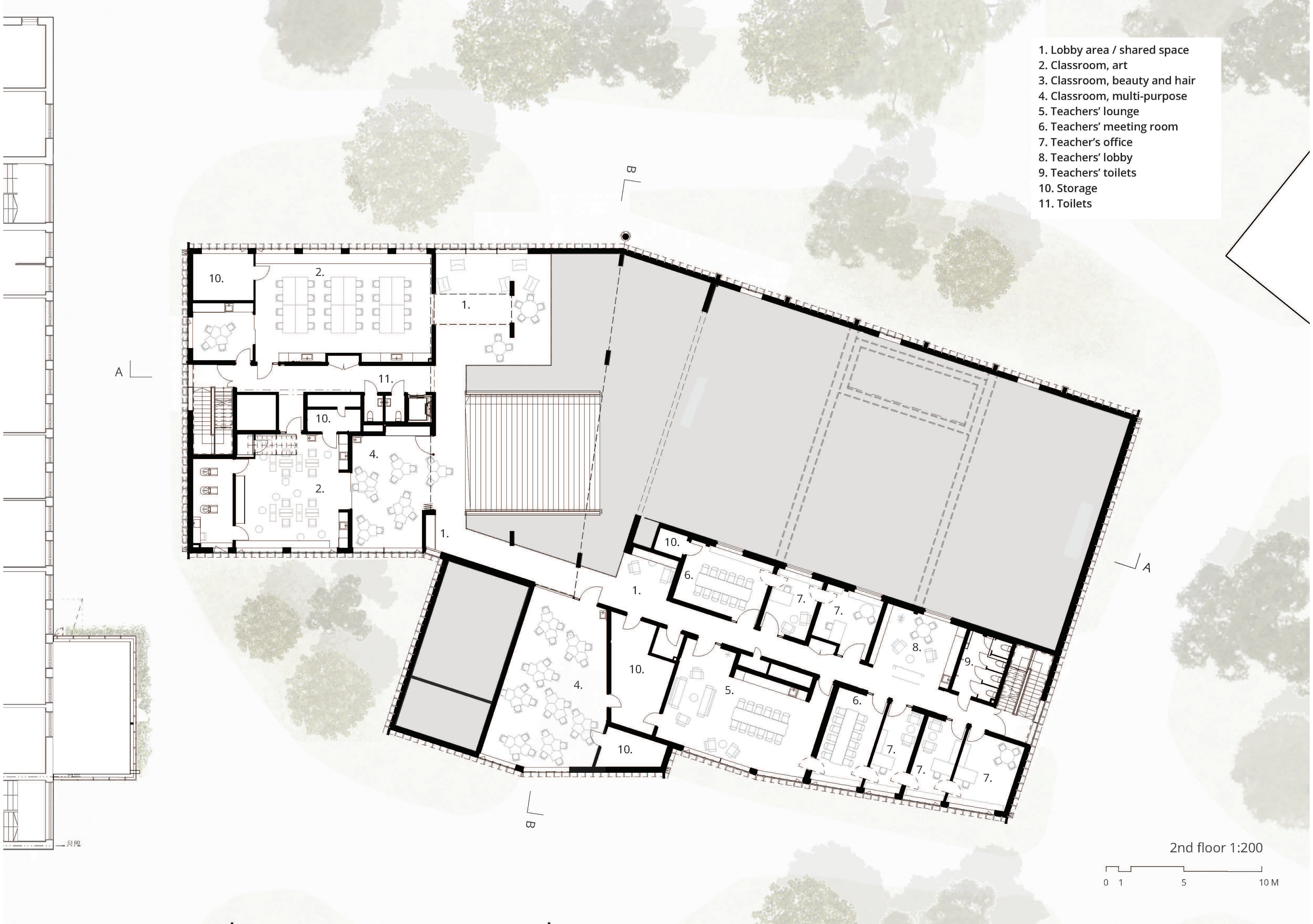


1st floor 1:200



2nd floor 1:200