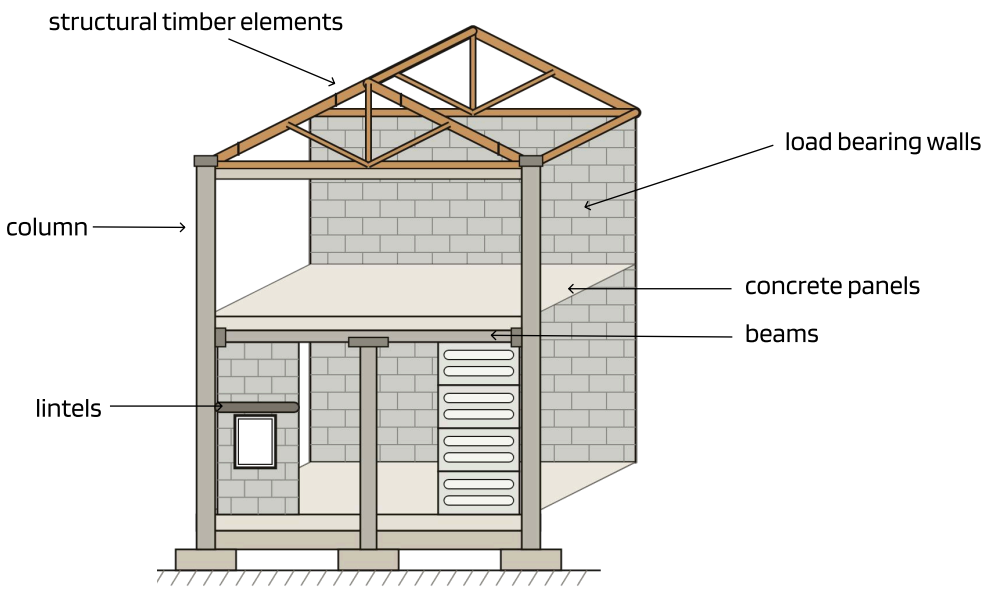
RE-X
BUILDING SCAN

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Re-X is a FinEst pilot project developing both **a 3-step "Re-X Building Scan" methodology** to assess the reuse potential of structural elements and **a digital platform** to support their reuse.

The digital platform is used **before** the site visit to gather preliminary data, **during** the visit to record measurements and images, and **afterwards** to compile the data and create **digital material passports.** Passported elements can then be viewed by individual building or across projects, helping building owners and design teams identify available materials and coordinate future projects. Elements can also be made publicly available for sale or linked to external platforms.



RESULTS SO FAR

PRECAST CONCRETE HOLLOW-CORE SLAB

A reused ≈7–10 m² slab costs only

13% of a new one

Krulli

A 5-STOREY BUILDING

Reusing its reinforced concrete panels and calcium silicate bricks could save:

9,000 t materials

€1M in costs

3,000 t CO_2

Paljassaare tee 20, Tallinn

01. RE-X ASSESSMENT METHODOLOGY

Review

Existing documentation is reviewed, the preliminary scope is defined, testing methods are pre-selected, and an initial timeline and cost estimate are provided.

Inspect

If potential for reuse is identified, a detailed on-site assessment and non-destructive testing is carried out.

Test

If the site testing results are inconclusive, additional laboratory testing is carried out on selected elements.

validated elements enter the platform

02. RE-X DIGITAL PLATFORM

Report

Reusable elements, their condition, test results, methods and recommendations are documented in a report. The report is then signed off by an engineer (Level 7 or 8), confirming the basis for safe and compliant reuse.

Element Passport

Each reusable element receives a digital passport containing its key characteristics.

Inventories /Marketplace

Assessed elements are then viewable in project inventory on the Re-X platform and can be linked to external marketplaces and design tools.

TESTED ON

TALLINN | CĒSIS | VALGA

Kindergarden

[precast reinforced concrete elements]

Õismäe tee 70, Tallinn

Office Building

[masonry walls, hollow-core floor panels, concrete lintels, beams, columns and stair elements]

Paljassaare tee 20, Tallinn

Gatehouse, Port of Tallinn

[12m hollow-core concrete slabs, bolted steel structural elements]

Logi 2/1, Tallinn

WORKS ON ANY BUILDING

Warehouses | Public buildings | Commercial & Residential | Industrial

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we left some space for you