

PILLAR 1

IDENTIFICATION TECHNIQUES & TECHNOLOGIES



Utilising remote and embedded technologies with AI to identify and analyse construction entities in existing buildings and CDW.

UC1
3D geometric models



UC2
Characterisation of ageing timber



UC3
Detection of harmful materials, compounds, or coatings



UC4
Identification and modelling of concealed materials and components



UC5
Detection of hidden elements and concealed facilities, and condition of wood components



UC6
Characterisation of structural health



UC7
Optimum CDW upcycling



PILLAR 2

ANALYSIS SOFTWARE TOOLS FOR CIRCULARITY C-BIM



Applying digital tools to analyse construction entities for better interoperability and integration.

UC8
C-BIM generation for information management

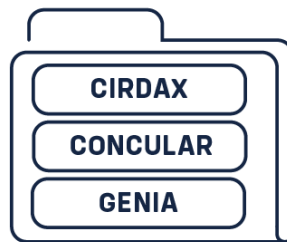


UC9
Interoperability of the project platforms



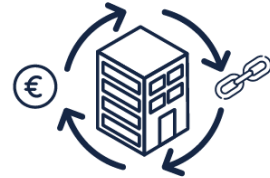
Information management based on **open standards** to promote interoperability in construction, focused on existing and demolished built works.

SECURE STORAGE DATABASE



PILLAR 3

CONTRIBUTION TO CIRCULARITY



Enhancing the value of construction entities and developing market strategies with blockchain technology to address information gaps and establish property rights.

3.1. SMART/DIGITAL STRATEGIC PLANNING

UC10
Product/Waste Condition Analysis



UC11
High-quality reuse of secondary materials through LCA



UC12
Go-to-market strategies and constrains



UC13
EU legal framework analysis



3.2. GO-TO-MARKET +UPSKILLING

UC14
Outcomes and solutions



UC15
Co-creation strategies for skills development



PILLAR 1

IDENTIFICATION TECHNIQUES & TECHNOLOGIES



UC1
3D geometric models



UC2
Characterisation of ageing
timber



UC3
Detection of harmful
materials, compounds, or
coatings



UC4
Identification and modelling
of concealed materials and
components



UC5
Detection of hidden elements
and concealed facilities, and
condition of wood components



UC6
Characterisation of
structural health



UC7
Optimum CDW upcycling



PILLAR 2

ANALYSIS SOFTWARE TOOLS FOR CIRCULARITY C-BIM



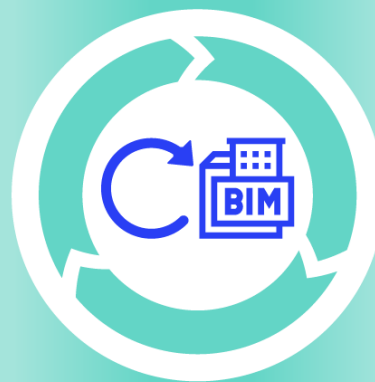
UC8
C-BIM generation for
information management



UC9
Interoperability of the
project platforms

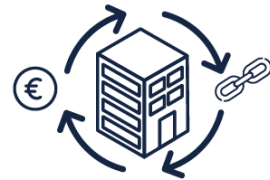


SECURE STORAGE DATABASE



PILLAR 3

CONTRIBUTION TO CIRCULARITY



3.1. SMART/DIGITAL STRATEGIC PLANNING

UC10
Product/Waste
Condition Analysis



UC11
High-quality reuse of
secondary materials through
LCA



UC12
Go-to-market strategies
and constrains



UC13
EU legal framework
analysis



3.2. GO-TO-MARKET +UPSKILLING

UC14
Outcomes and solutions



UC15
Co-creation strategies for
skills development



EXISTING/DEMOLISHED BUILT WORKS

PILLAR 1

IDENTIFICATION
TECHNIQUES &
TECHNOLOGIES



PILLAR 2

ANALYSIS
SOFTWARE TOOLS FOR
CIRCULARITY C-BIM



PILLAR 3

CONTRIBUTION TO
CIRCULARITY

