

Creating materials banks from digital urban mining

PILLAR 1

PILLAR 2

PILLAR 3

TECHNIQUES & TECHNOLOGIES



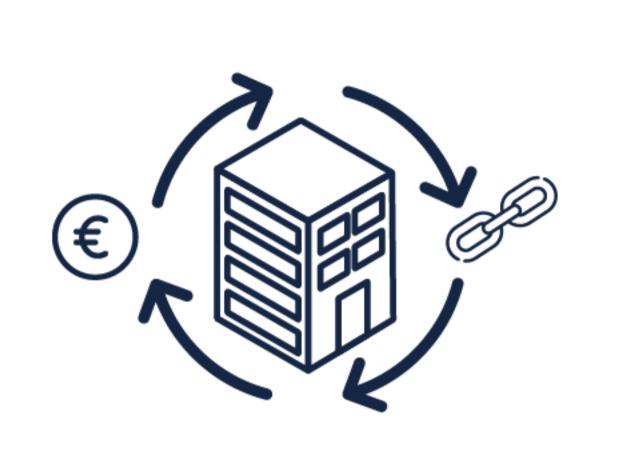
Utilising remote and embedded technologies with AI to identify and analyse construction entities in existing buildings and CDW.

ANALYSIS SOFTWARE TOOLS FOR CIRCULARITY C-BIM



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

CONTRIBUTION TO CIRCULARITY



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

UC1 3D geometric models



UC8 C-BIM generation for information management

Interoperability of the

project platforms

UC9



3.1. SMART/DIGITAL STRATEGIC PLANNING



Product/Waste **Condition Analysis**



timber

UC2

UC3 **Detection of harmful** materials, compounds, or

Characterisation of ageing



UC11 High-quality reuse of secondary materials through LCA



coatings

UC4 Identification and modelling of concealed materials and



UC12

UC13

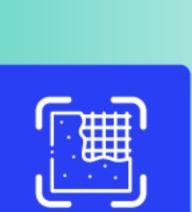
Go-to-market strategies and constrains



UC5

components

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



Information management based on

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



+UPSKILLING



UC6

Characterisation of structural health



SECURE STORAGE DATABASE

CIRDAX CONCULAR

GENIA

UC14 Outcomes and solutions



UC7

Optimum CDW upcycling



UC15

Co-creation strategies for skills development



EXISTING/DEMOLISHED BUILT WORKS

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