

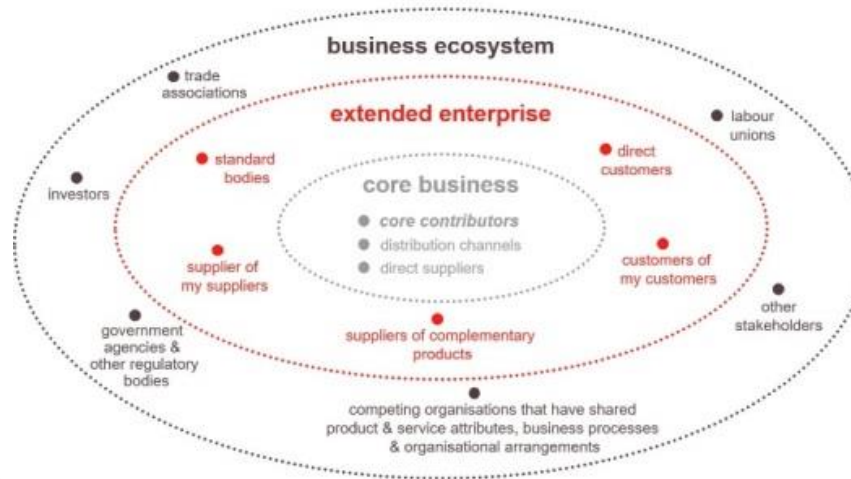
Upscaling; Circular Business ecosystem and tools for Urban Mining

- Thematic Areas/Technology/Topic of focus + key elements of the idea/problem:
Urban mining allows parties along the value chain to balance supply and demand in construction materials and optimize their logistics
- Expected synergies and complementarities:
The proposal is a follow-up of a materials (PUMA) project and H2020 ProSUM and part of the Amsterdam (AMS) Institute Circular City research program. The innovation is unique in the synergy between social and technical innovation.
- Outcomes:
Unlocking potential of built environment as a secondary source of metals and other building materials. Collaboration around data needs in the business ecosystem for the innovation of urban mining, plus a basic digital platform for both material locating and optimizing logistics for Urban Mining
- Market & Business opportunities:
Lowering cost of demolition and less dependency on other countries for building materials
- Partners already identified:
Partners in Amsterdam: AMS Institute, City of Amsterdam, BAM, New Horizon
- Wanted additional partners :
Cities in the construction material value chain transitioning towards a more circular co-operative business model; plus government and research institutes interested in the topic

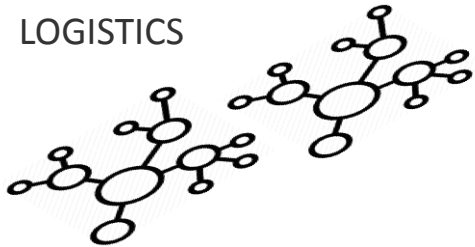
Circular business ecosystem for urban mining consists of three interacting layers

BUSINESS ECOSYSTEM

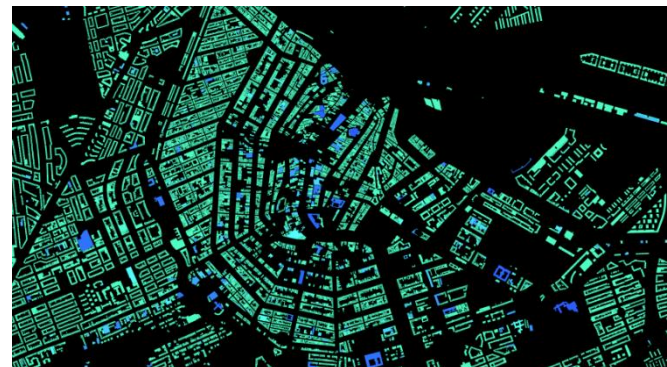
business ecosystem actors



LOGISTICS



DATA



The stakeholders use the data layer for information and for arranging the logistics

- > The business ecosystem consists of two categories stakeholders: stakeholders that are part of the value chain and the context setters (policy makers and legislation).
- > The logistics layer represents the logistic and information hubs that exchange information on (planned) movements of construction/ demolition materials in the area.
- > The data layer comprises dynamic data on construction and demolishing activities, corresponding material properties on a geographical representation.