

CinderOSS benefits

About the project



New Circular Economy Business Model for More Sustainable Urban Construction



CINDERELA ONE-STOP-SHOP

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This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N° 776751

CINDERELA is a large scale H2020 demonstration project with an ambition to make circular economy an industrial concept in construction sector. The objective for the project is to design and demonstrate under real conditions a circular economy business model dedicated to the urban construction sector called CinderCEBM. The model will enable production of construction products using Secondary Raw Materials (SRM) recovered from different waste types available in urban and semi-urban areas and their application in urban construction services in a technically feasible and economically viable way.

The business model will be accompanied by a "One-Stop-Shop" (CinderOSS) service offering all that companies need to know for manufacturing and application of SRM-based construction materials in buildings and civil engineering works.

CINDERELA provides a pathway to bring circular business models into real life

CINDERELA project facts

Project duration: June 2018 - May 2022 (48 months)

Total Project budget: 7 635 365.25 €

Project Coordinator: Slovenian National Building and Civil Engineering Institute (ZAG)

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Project partners



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THE CONSTRUCTION SECTOR:

- Information on all aspects related to exploitation of circular economy business models through the CinderOSS database
- Usage information and BIM-libraries on different circular construction products
- A digital business ecosystem for contacting and trading with potential business partners and stakeholders

LOCAL AND REGIONAL ADMINISTRATORS:

- A collection of best practices on circular policy (subsidies, taxes, legislation, etc.), offered through the legal module of the CinderOSS database
- Inspiration on proven circular economy business models, including information on 'transferring' these business models to other regions
- Reliable test data on SRM-based construction materials performance based on testing protocols meeting the construction sector's requirements



What is CinderOSS?

CINDERELA One-Stop-Shop (CinderOSS) is a service to facilitate the exploitation of circular economy business models (CEBM) that turn waste into SRM-based construction products. It is being developed as a response to the different needs of stakeholders that operate or want to operate in the circular construction sector. As such, CinderOSS consists of a number of different modules that offer information or interaction that is related to circular construction business. It consists of two key elements: the CinderOSS database, which offers a complete knowledge repository on different business elements; and the Digital Business Ecosystem, which offers interaction through a platform for finding business partners, and a marketplace to find, buy or sell waste, materials and products.

Digital Business Ecosystem

The Digital Business Ecosystem enables the communication and interaction between users, finding business partners, buying or selling waste, SRM or SRM-based products.

The modules have simple and cohesive interfaces. 'Shop items' are labelled within a certain module and include tags, such as waste type and country, allowing easy browsing and comparison of items. The Digital Business Ecosystem is in constant development and is to connect or merge with other circular digital tools and platforms in the future.

PRODUCT & CONSTRUCTION

The CinderOSS product & construction module collects information on the characteristics of different circular construction products and how they can be applied (also as BIM libraries), making it relevant for the product user.

LEGAL

The legal module is a database of subsidies, exemptions and other policy requirements and instruments, according to which a circular business model needs to act, and from which it can benefit.

CEBM

The CEBM module is a collection of CEBMs, including CINDERELA, that turn waste into circular construction products. Each CEBM item includes basic information about the business model, following the business model canvas framework. The module includes a visual demonstration of waste-to-product value chain.

MARKET

The technique and product of a certain circular business model might be universal but construction products are mostly sold in a regional market, differing throughout Europe. The CinderOSS market module offers a basis for comparison of different market situations, including information on the potential market size, the costs and potential profits of business models for different EU-countries and regions.

RESEARCH & DEVELOPMENT

The CinderOSS database will also follow progress in research on new waste-to-product routes. The module will display the latest and relevant documents on R&D, not only from the academic perspective, but also from companies and industry organisations.

BUSINESS FINDER

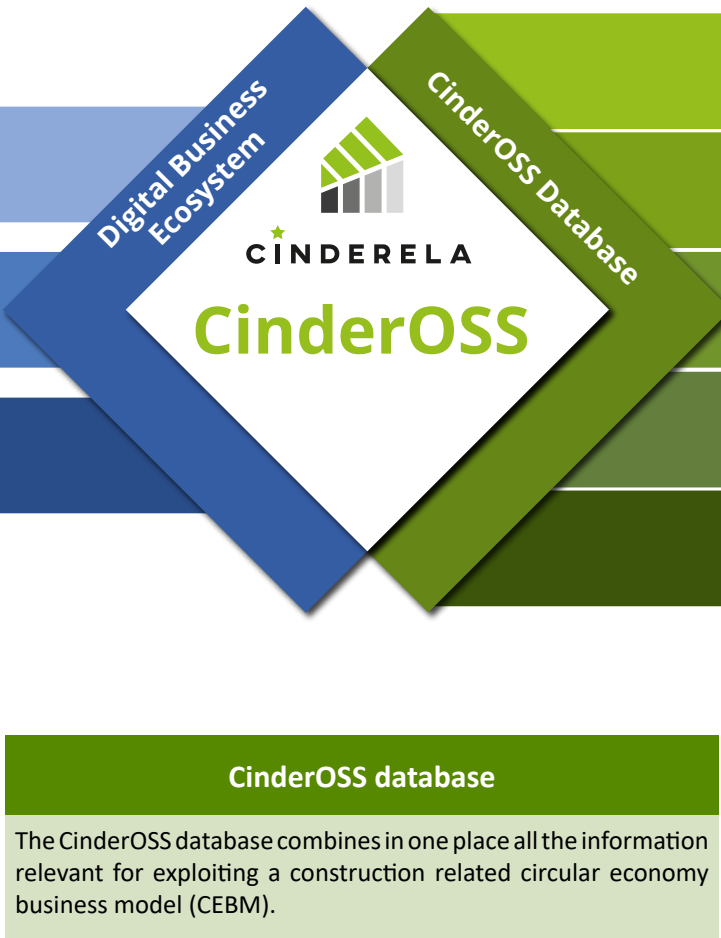
The Business Finder is a tool for searching business partners and other stakeholders such as research institutions and policy makers. It displays a map where users can find registered actors using different criteria, such as company sector, main activity, waste type or products of interest and geographical area of interest.

COMMUNITY PLATFORM

As CinderOSS is currently in beta development, the Community Platform offers a place where our community of CinderOSS co-design stakeholders can profile themselves, interact and follow the CinderOSS development. We are always looking for new community members! If you are interested, send an e-mail to info@cinderela.eu.

MARKETPLACE

In the Marketplace section users can buy or sell waste, secondary raw materials (SRM) or SRM-based products by means of simple and effective publications and announcements. Sellers can publish their offers on the offers page by giving several details, which can be used by potential buyers to search the offers.



CinderOSS database

The CinderOSS database combines in one place all the information relevant for exploiting a construction related circular economy business model (CEBM).