

New Circular Economy Business Model for More Sustainable Urban Construction



Newsletter 3

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Editorial

Dear Readers,

Welcome to the third issue of our CINDERELA project Newsletter!

For now, the project has been running for almost three years. We have reached several milestones during this period and accumulated a considerable amount of knowledge, both on a scientific level and a more practical level. The important achievements we would like to highlight in this newsletter are: (1) the successful initiation of the pilot production of SRM-based construction products, (2) the launch of the CINDERELA One-Stop-Shop (CinderOSS) beta version and (3) the preliminary version of the CINDERELA business model (CinderCEBM).

The initiation of the pilot production of SRM-based construction products in Maribor (Slovenia), Madrid (Spain) and Skopje (North Macedonia) is an essential (...)

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News from demo-sites and pilots

★ Pilot Production Initiation



As part of the pilot demonstrations of our CINDERELA project (H2020), we established the pilot production plants in Maribor (Slovenia), Madrid (Spain), and Skopje (North Macedonia). With the pilot production plants, we aim to demonstrate the technical, technological, and administrative possibilities of processing and using various non-hazardous construction and other waste types to produce more sustainable construction products. Following the pilot production, the secondary raw material (SRM) based products will play an essential role in construction demonstration. We plan to revitalise three degraded areas and build two small facilities with accompanying access roads. However, as the waste is not suitable for direct use in construction projects, we must pre-process it.

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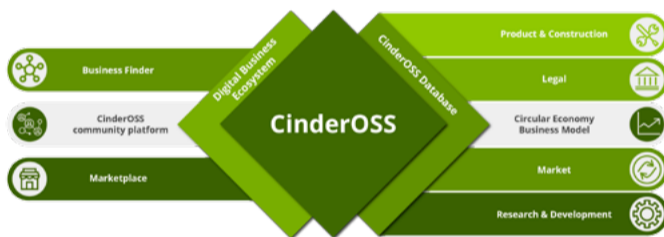
News on CinderOSS and CinderCEBM development

★ The CINDERELA One-Stop-Shop

One of the key challenges from the construction and waste management sector is to find a right way to make circular economy a business case for them. Despite emerging opportunities, businesses need support and information in order to be able to define a business model that would work for them in their economic and policy environment using the resources available locally/regionally. Also, the amount of knowledge of SMEs about the waste-to-resource opportunities differs a lot across Europe.

The mission of CINDERELA is to equip waste and construction companies with awareness, knowledge and demonstrations on how to make profit with different types of urban waste as a resource for construction materials.

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★ Co-design and testing process in the development of the CinderOSS



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The circular business model build under the CINDERELA project requires establishing new value chains and getting a comprehensive knowledge on who are the actors, how do they interact which technical, economic and legal environments are needed for their successful operation. All these aspects were subject of a comprehensive analysis carried out in CINDERELA. The analysis covered potential new value chains as well as existing value chains for urban waste that connect multiple sectors within urban and peri-urban areas. The conclusions of the analysis could function as a starting point towards further development of the circular built environment as they seem to closely relate to the goals of the European Union. This is because the main findings of the analysis indicate that a focus needs to be put on enhanced certification, providing of subsidies and taxation on virgin materials and landfilling.

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Project news

★ A new partner has joined our team!



We would like to inform you, that there has been a change in CINDERELA project consortium. 6MAJ has left the project. Taking this opportunity, we would like to thank 6MAJ for their cooperation.

We are happy to introduce our new project partner: Civil Engineering Institute Macedonia. CEIM plays a leading role in the construction industry, offering a wide range of services related to the preparation of project documentation for all types of facilities with all stages and at all levels.

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Project partners



SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE



IEFE
Centre for Research on Energy and Environmental Economics and Policy



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