

SMART WASTE PORTUGAL

LCA4Regions - Improved Environment and Resource Efficiency through use of Life Cycle Instruments for implementation of regional policies of the European Union

March 17, 2022



SCHEDULE



Smart Waste Portugal
Main SWP Initiatives on CDW
Circular Construction Project
Conclusions



SMART WASTE PORTUGAL

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Smart Waste Portugal - Business Development Network (SWP) is a non-profit private Association, created in 2015, whose mission is to **create a national platform**, involving all players in the sector, **promoting and valuing waste as an economic and social resource**, creating conditions to the competitive acting across the value chain through a **collaborative approach**, promoting **innovation, research**, development and implementation **solutions**.

SWP Association intends to join the movement to boost Portugal competitiveness, based on a circular economy, by identifying and contributing to create new business and innovation opportunities as well as new business models and more efficient production and consumption forms.

GENERATE BUSINESS

Production and dissemination of knowledge

Cooperation

Fostering R&D and knowledge transfer

Promote and support member activities

Give dimension and strength to the waste sector

143

MEMBERS

MEMBERS



MAIN INITIATIVES

Objective:

Characterize and quantify the importance of activities related to the collection, treatment, recovery and disposal of waste (waste sector) in the Portuguese economy within the framework of the **circular economy**, highlighting its role for the **socio-economic and environmental development of the country**.



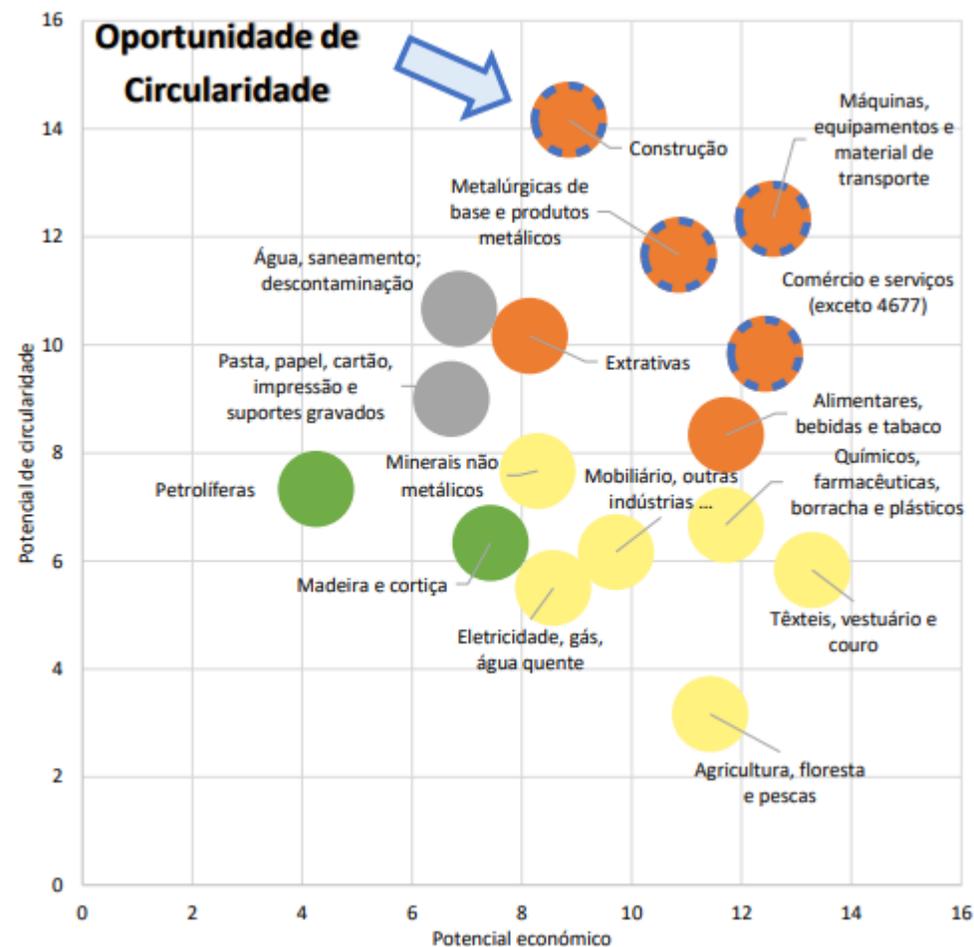
VERSÃO EXECUTIVA BILINGUE

Tiragem: 1000 exemplares

MAIN INITIATIVES

The **civil construction sector** and the various activities it develops result in the **intensive consumption of raw materials** and the **production of high amounts of Construction and Demolition Waste (CDW)**.

Smart Waste Portugal takes the CDW issue as **one of the major challenges in the waste sector in Portugal**, identifying the need for a collaborative and communication and awareness strategy aimed at the stakeholders in the CDW value chain.





MAIN INITIATIVES ON CDW

WG CONSTRUCTION AND DEMOLITION WASTE

Goal:

Bring together entities with responsibility in the Construction and Demolition value chain in order to promote a study to **characterize** the sector, which contemplates the identification of the main **barriers** and consolidates a set of **recommendations** for the valorization of the RCD.

Developed activities:

- Study on “**Construction and Demolition Waste Management in Portugal: Sector Diagnosis and Improvement Opportunities**”. Study delivered to the State Secretariat for the Environment;
- **Circular Construction Project** (<https://www.construcaocircular.pt/>). Following this project, the 2nd and 3rd Edition of the **E-learning Course** “CDW: prevention and recovery” was organized;
- Support in the development of the Action Plan for the Sustainable Management of CDW in the **Porto Metropolitan Area**, where relevant tools for the sector are presented (http://portal.amp.pt/pt/2/temae/526#FOCO_2);
- Support in the development of the Action Plan for Circular Economy in the CDW Sector in the **Algarve Region** and in **North Region**.
- **Circular Buildings Project** (<http://www.smartwasteportugal.com/pt/projetos/edificios-circulares/o-que-e/>).

Next activities and in development:

- Compilation of **good circularity practices** in the construction sector;
- Elaboration of a **catalog of CDW and recycled aggregates**;
- Proposed model **specifications for tenders** in the construction sector;

Number of Meetings: 4

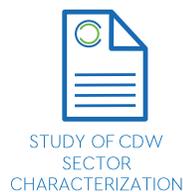
CIRCULAR CONSTRUCTION PROJECT



The Circular Construction Project – Prevention of Construction and Demolition Waste had as main objective the **promotion of education/awareness actions, aimed at the various stakeholders associated with CDW**, supporting their interaction, in order to promote a more sustainable value chain organization, in line with the principles of the circular economy.

These were framed by the various key areas of the National Environmental Education Strategy 2020 (ENEA 2020).

Activities:



5



4



3



3





ONLINE
COURSE

Construction and Demolition Waste: Prevention and Recovery

Objectives: this online course focuses on the problem of CDW and on the possibility of their integration into a value chain, divided into four thematic areas:

1. Introduction to CDW;
2. CDW Processing and Treatment;
3. Legislative Framework and Quality Management;
4. Use of CDW on site.

Target Audience: Companies and business associations, public administration, higher education and professional associations.

Duration: 4 weeks, with students studying the materials available independently.

CIRCULAR CONSTRUCTION PROJECT



ONLINE
COURSE

Construction and Demolition Waste: Prevention and Recovery

Module Details:

1 st Module - Introduction to CDW	2 nd Module - Processing and Treatment of CDW	3 rd Module - Legislative Framework and quality management	4 th Module - Use of CDW on site
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Definitions and Terminology	<input type="checkbox"/> Conventional demolition vs. Selective Demolition	<input type="checkbox"/> Legislation	<input type="checkbox"/> Barriers
<input type="checkbox"/> Classification	<input type="checkbox"/> Reuse, Recycling and Valorization	<input type="checkbox"/> Regulation (recycled aggregates)	<input type="checkbox"/> Use of CDW in Portugal (studies)
<input type="checkbox"/> Separation and Collection		<input type="checkbox"/> Quality Assurance (processing and treatment)	<input type="checkbox"/> Practical cases

Each module has a video class available on each topic, as well as study support materials. At the end of each one, there is also an assessment activity.

CIRCULAR CONSTRUCTION PROJECT



ONLINE
COURSE

Construction and Demolition Waste: Prevention and Recovery

This online course has already had **three** editions.



1st Edition: February 1st to March 1st, 2018

The first edition had more than 300 applicants, with 219 having completed the course.



2.^a EDIÇÃO
CURSO E-LEARNING

RESÍDUOS DE CONSTRUÇÃO E
DEMOLIÇÃO: PREVENÇÃO E
VALORIZAÇÃO

2nd Edition: October 12th to November 12th, 2020

The course had 191 applicants, with 112 having completed the course.



3.^a Edição Curso E-Learning

RESÍDUOS DE CONSTRUÇÃO E
DEMOLIÇÃO: PREVENÇÃO E VALORIZAÇÃO

Edição Reservada aos Stakeholders do Projeto
(Des)Construir para a Economia Circular

3rd Edition: February 15th to March 15th, 2021
Edition Reserved for Stakeholders of the Project (Des)Build for the Circular Economy
The course had 69 applicants, 38 of whom completed the course.

CIRCULAR CONSTRUCTION PROJECT



ONLINE
COURSE

Construction and Demolition Waste: Prevention and Recovery

The execution of this Massive Open Online Course (MOOC) was supported by the Faculty of Engineering of the University of Porto, for the preparation and elaboration of the content, as well as sound, image and video editing technicians.

The course is hosted on the UP Digital platform.



CONCLUSIONS



CONCLUSIONS

- The Construction sector is one of the sectors with the greatest potential for growth in terms of circularity in Portugal.
- It is essential that the agents involved have knowledge of the material composition of the building stock and material flows to enable the paradigm shift.
- There is a lot of interest in knowing more about this topic, since in the total of the three editions we have 500 applicants to the E-learning Course.



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