

Iceland Liechtenstein Norway grants

(De)construct for Circular Economy
(Des)construir para a Economia Circular

WP 7 – Information, awareness and training

Activity 7.2 – Participatory actions for municipalities and construction companies

Participatory Workshop – Results from Session C **Regional strategy to promote circularity in the construction sector** *(Baixo Alentejo municipalities)*

Final report

December 2021

Operador do Programa:



Promotor:



Parceiros:



*Conceptualization, methodological approach, workshop organization,
data treatment, report*

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1. Introduction

The participatory workshop “Regional strategy to promote circularity in the construction sector” was held on December 13th of 2021, integrated in the (De)construct for Circular Economy project, promoted by CIMBAL (*Comunidade Intermunicipal do Baixo Alentejo*). It was developed within the work package (WP) 7 – Information, awareness and training, led by FCT NOVA (NOVA School of Science and Technology), more precisely in the Activity 7.2 – Participatory actions for municipalities and construction companies.

The methodology for WP 7 was developed by FCT NOVA, complemented with contributions from project partners (FCT NOVA, 2021a). Two specific groups were selected, namely *Baixo Alentejo* municipalities and regional micro and small construction companies, because specific constraints for construction and demolition waste (CDW) management have been identified, especially in the last decade, for these types of stakeholders (Martinho *et al.*, 2013; European Commission, 2017; Ramos *et al.* 2020; Ramos & Martinho, 2021 and 2022).

This workshop with *Baixo Alentejo* municipalities is the third (Session C) of three sessions scheduled to present and discuss the following specific themes:

- Session A: constraints and solutions for CDW management, as well as the training needs identified by the participants (held on April 21st of 2021) (FCT NOVA, 2021b);
- Session B: the common regulation to be developed for *Baixo Alentejo* region, focused on CDW management and the application of the circular economy principles to the construction sector (held on September 7th of 2021)¹ in articulation with WP 2 (FCT NOVA, 2021c);
- Session C: development of a proposal for strategic action to promote circularity principles in the construction sector (held on December 13th of 2021)², in articulation with WP 6.

This report presents the results of the participatory activities carried out in the scope of the *Baixo Alentejo* municipalities workshop (Session C), and is structured in the following chapters:

- Introduction (current chapter);
- Programme, workshop dynamics and participants (chapter 2);
- Results of activities (chapter 3);
- Workshop evaluation (chapter 4);
- Conclusions (chapter 5).

¹ The workshop date was changed from August to the beginning of September of 2021, due to the vacation period of municipal technicians.

² The workshop date was anticipated from January of 2022 to December of 2021, to allow a better articulation with WP 6 planning.

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2. Programme, workshop dynamics and participants

2.1. Programme

This participatory workshop (Session C), with *Baixo Alentejo* municipalities, took place on December 13th of 2021 (images of the workshop in Annex I). The programme and contents are described in Table 1. The programme was structured in an awareness and training component (five presentations), and in an information gathering component (two participatory activities).

Table 1. Programme of the workshop with the municipalities, main objectives and responsibilities.

Programme topic		Main objectives	Responsibilities
09h30	Opening session.	<ul style="list-style-type: none"> Brief presentation of the project and partners. Contribution and importance of the involvement of <i>Baixo Alentejo</i> municipalities. 	CIMBAL (promoter)
09h40	Framework of the workshop in the project and presentation of the programme.	<ul style="list-style-type: none"> To present the framework of the workshop in the project, within WP7 - Activity 7.2 (participatory actions dedicated to municipalities and construction companies); Programme brief presentation. 	FCT NOVA (project partner, WP7 leader)
09h50	Presentation – component 1.	<ul style="list-style-type: none"> To present materials passport tool (in relation to the work in progress in WP 3). 	LNEG – Laboratório Nacional de Energia e Geologia (Cristina Rocha) (project partner, WP 3 leader)
10h05	Presentation – component 2.	<ul style="list-style-type: none"> To present pre-demolition audits tool (in relation to the work in progress in WP 4). 	LNEG (Ana Paula Duarte) (project partner, WP 4 leader)
10h20	Presentation – component 3.	<ul style="list-style-type: none"> To present the project (De)construct mathematical model tool (in relation to the work in progress in WP 5). 	LNEG (Joaquim Duque) (project partner, WP 5 leader)
10h35	Presentation – component 4.	<ul style="list-style-type: none"> To present the importance of the social dimension to the regional strategy (in relation to WP 6). 	Cercibeja (Vera Neca) (project partner)
10h50	Presentation – component 5.	<ul style="list-style-type: none"> To present the regional strategy to promote circularity in the construction sector, to be developed within WP 6. 	Resialentejo (Pedro Sobral) (project partner, WP 6 leader)
11h05	Debate.	<ul style="list-style-type: none"> Questions and answers about the exhibition components and other topics related to circularity in the construction sector, and in specific about CDW management. 	All participants
11h30	Session break.	<ul style="list-style-type: none"> Session break. 	-

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Programme topic		Main objectives	Responsibilities
11h40	Activity 1 (in group).	– To discuss the vision to the regional strategy (in relation to WP 6).	FCT NOVA and technicians of <i>Baixo Alentejo</i> municipalities
12h00	Activity 2 (in group).	– To discuss the key priorities/objectives to be considered into the regional strategy (in relation to WP 6).	FCT NOVA and technicians of <i>Baixo Alentejo</i> municipalities
12h20	Next steps.	– Clarification of next steps concerning WP7 activities.	FCT NOVA and technicians of <i>Baixo Alentejo</i> municipalities
12h30	Closing session.	– Session wrap-up and closing.	FCT NOVA

2.2. Workshop dynamics

The participatory workshop, dedicated to *Baixo Alentejo* municipalities, that took place by videoconference, due to Covid-19 pandemic restrictions, was planned and organized considering two main and interrelated components: awareness and training, and activities and information gathering.

2.2.1. Awareness and training component

The awareness and training component was planned considering the project tasks dissemination and the training needs identified in the previous workshops held on April and September of 2021 (Sessions A and B, respectively). For instance, materials passports and pre-demolition audits were identified in Session B as tools having low importance (in relation to other topics) in respect to its incorporation in a common regulation for the construction sector.

To accomplish the mentioned purpose, five entities (corresponding to five presentations) were invited to be involved in this process, exposing specific topics about the regional strategy and the new tools being developed within the project. Those entities and the contents presented are described in Table 2.

Table 2. Contents list and responsible entities of the exhibitions of the workshop.

Exhibition's themes and responsible entity	Main contents list
<p>Presentation 1</p> <p>Materials passport</p> <p>Responsible entity:</p> <p>LNEG – Laboratório Nacional de Energia e Geologia (project partner, WP 3 leader)</p>	<ul style="list-style-type: none"> – Presentation of LNEG institution and activities (common to WP 3, WP 4 and WP 5); – What is a materials passport?; – What are materials passports used for?; – Examples of materials passports; – Materials passports within the project (De)construct.

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Exhibition's themes and responsible entity	Main contents list
<p>Presentation 2 Pre-demolition audits Responsible entity: LNEG (project partner, WP 4 leader)</p>	<ul style="list-style-type: none"> – What is a pre-demolition audit?; – What are pre-demolition audits used for?; – Consulted guides for pre-demolition audits; – Different stages and requirements for pre-demolition audits; – Pre-demolition audits within the project (De)construct.
<p>Presentation 3 Mathematical model Responsible entity: LNEG (project partner, WP 5 leader)</p>	<ul style="list-style-type: none"> – General concepts and description of the model components: location of collection sorting centres, inter-municipal network for the reuse of construction materials, and inter-municipal network for CDW recycling; – Mathematical model parameterization; – Mathematical model within the project (De)construct.
<p>Presentation 4 The social dimension to the regional strategy Responsible entity: Cercibeja (project partner)</p>	<ul style="list-style-type: none"> – Presentation of Cercibeja, and activities developed, as a private social solidarity institution; – Cercibeja vision for the involvement in the project (De)construct, namely through the engagement in the preparation for reuse of construction materials within the specific network to be created on the regional strategy (WP 6).
<p>Presentation 5 The regional strategy to promote circularity in the construction sector Responsible entity: Resialentejo (project partner, WP 6 leader)</p>	<ul style="list-style-type: none"> – Presentation of Resialentejo, as a municipal solid waste management operator working with the municipalities of <i>Baixo Alentejo</i> region; – Objectives of the regional strategy for the promotion of circularity in the construction sector in the <i>Baixo Alentejo</i> region;

2.2.2. Activities and information gathering component

During this workshop with *Baixo Alentejo* municipalities, the following participatory activities were organized (the methodological approach is detailed described jointly with the results, in order to facilitate the understanding; please see chapter 3):

- Activity 1 (in group): vision to the strategy to promote circularity in the construction sector in *Baixo Alentejo* region (specifically in subchapter 3.1);
- Activity 2 (in group): key priorities/objectives to be considered in the strategy to promote circularity in the construction sector in *Baixo Alentejo* region (specifically in subchapter 3.2).

To carry out the participatory activities described above, participants were asked to register their answers on a specific form, allowing one form *per* municipality. After the workshop, FCT NOVA provided the opportunity

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for the participants to conclude the work they started, allowing for the reception of the answers in its final version by December 15th of 2021.

2.3. Organization and characterization of participants

2.3.1. Organization of participants in the participatory activities

This participatory workshop with *Baixo Alentejo* municipalities (Session C), was expected to take place in a face-to-face format. However, due to the restrictions of Covid-19 pandemic, it was necessary to carry it online. For the organization of the workshop itself, each municipality was previously asked to gather their participants in a common space, considering the physical distance imposed by the security restrictions due to the Covid-19 pandemic, and to ensure a good image and sound conditions, to allow for an adequate involvement of the participants in the debates and participatory activities.

2.3.2. Participants' characterization

In this participatory workshop dedicated to municipalities (Session C), 42 participants were involved, representing 10 of the 13 municipalities of *Baixo Alentejo* region. It was not possible to *Cuba*, *Ferreira do Alentejo* and *Vidigueira* municipalities to attend the workshop.

Because different municipal divisions are involved in the CDW management process in a daily basis, it was considered an important criterion the participation of the municipal technicians of those divisions. In this context, each municipality was asked previously to be represented by technicians from three distinct areas related to municipal CDW management: environment, urbanism, and surveillance/oversight. As mentioned, 42 technicians participated, representing, in proportion, the areas represented in Figure 1.

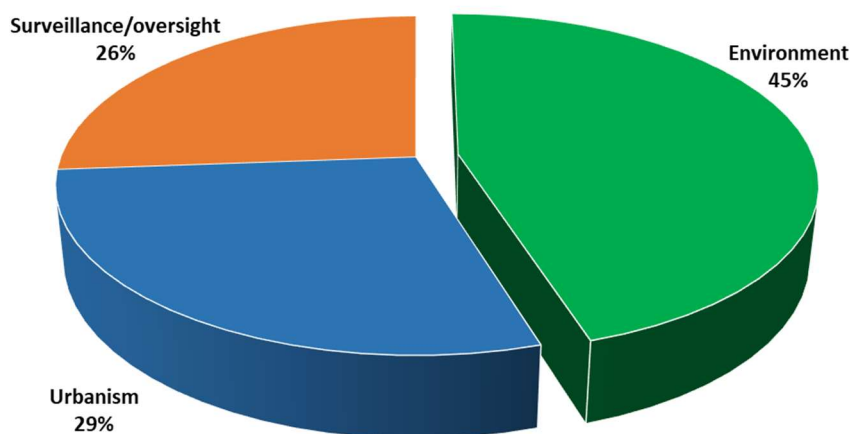


Figure 1. Intervention areas where workshop participants perform their main functions.

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2.4. Complementary information

After the participatory workshop (Session C), a weblink was sent to each participant for an evaluation, and to collect suggestions for the improvement of other events, as well as to rate their satisfaction level. Answers received until December 15th of 2021 were considered. These contributions, as well as the comments of FCT NOVA, are presented in chapter 4.

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3. Results of activities

3.1. Activity 1 – Vision to the regional strategy

In this group activity, participants were asked to define the vision to be considered into the strategy to be developed for the *Baixo Alentejo* region, aiming to promote circularity in the construction sector (within WP 6). To comply with that goal, the participants were asked, in the first phase, to identify relevant keywords. After that, participants were invited to define the vision to the regional strategy, into a short paragraph, incorporating all the chosen keywords.

The identified keywords are presented in Table 3. The answers from the participants were analysed and organized in decreasing order of responses frequency. The frequency refers also to the number of times that each keyword (including words with similar meaning) was identified by each municipality. The ones that have the greatest consensus are those related to stakeholders, local solutions, information/awareness/training, reuse of materials, and circular economy.

Table 3. Keywords to be considered in the vision to the regional strategy.

Keywords (including words with similar meaning)	Frequency (n.º)
Stakeholders/entities/players, construction sector, construction companies/agents, small producers/individuals	9
Local solutions/solution, proximity/approximate, sites/facilities (licensed)	7
Information, awareness, training	6
Reuse	5
Circular economy	4
Recycling	3
Regulations, legal framework/regulatory requirements	3
Sustainability/sustainable	2
Surveillance	2
Materials recovery	2
Articulation, cooperation	2
Network for CDW collection, collection	2
Transport	1
Sorting	1
Resources (human and financial)	1
Reduction	1
Recovery	1
Prevention	1
Costs	1

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Keywords (including words with similar meaning)	Frequency (n.º)
Benefits	1
Adaptability	1
Accessibility /to the service)	1

In a complementary way, Table 4 presents the vision defined by each municipality that participated in this workshop. The keywords are highlighted in bold.

Table 4. Vision to the regional strategy defined by each municipality that participated in the workshop.

Municipality	Vision
<i>Aljustrel</i>	Development of a strategy for the CDW management in line with the circular economy principles, focusing on information and raising awareness among the stakeholders , and supported by regulation , creating local solutions aiming the prevention, materials recovery, reuse and recycling .
<i>Almodôvar</i>	To implement a logic of sustainability , raising awareness of the construction companies and the entities involved, and the implementation of a network for CDW collection , promoting proximity between the players .
<i>Alvito</i>	The circular economy is a challenge for the construction agents in order to have a greater reuse of construction materials, contributing for a more sustainable management.
<i>Beja</i>	To implement the circular economy principles in the reduction, materials recovery, reuse and recycling of materials. It is essential to minimize resources extraction and to maximize the reuse. At the same time, it is necessary to control the delivery of waste generated by the construction sector .
<i>Castro Verde</i>	To invest in awareness campaigns, focused on professional construction companies and individuals . Second, provide municipal services with financial and human resources (technical/surveillance), in order to enable the creation of duly identified and licensed sites/facilities for CDW delivery. Finally, provide the services with mobility capacity (transport) for CDW collection resulting from small producers (i.e., waste arising from minor do-it-yourself construction and demolition activities within private households).
<i>Mértola</i>	A strategy of proximity for all the players , with adaptability and accessibility of services in the territory, with training of all the stakeholders to implement all existing and proposed regulations .
<i>Moura</i>	To find a solution that involves articulation between entities , seeking to raise awareness to all of those involved in the process. In addition to legal and regulatory requirements , it must clearly identify the costs and benefits of the circular economy principles in the construction sector .

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Municipality	Vision
<i>Ourique</i>	Increase on-site surveillance and approximate CDW storage sites/facilities to generation sites in order to increase the reuse and recycling of materials.
<i>Serpa</i>	Raise awareness of public and private entities for the implementation of good practices, to comply with current legal framework . Network cooperation by all the players involved in the process, focused on CDW management surveillance and recovery , in order to guarantee the sorting, collection and reuse/recovery of materials.

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3.2. Activity 2 – Key priorities for the regional strategy

In this group activity, participants were asked to identify the key priorities/objectives to be considered into the strategy to be developed for the *Baixo Alentejo* region, aiming to promote circularity in the construction sector (within WP 6).

The identified key priorities/objectives are presented in Table 5. The answers from the participants were analysed and organized in decreasing order of responses frequency. The frequency refers also to the number of times that each priority/objective was identified by each municipality. The ones that have the greatest agreement are those related to the implementation of local solution for CDW management, the recovery and reuse of construction materials, to ensure CDW treatment, to promote communication and raise awareness, and to promote surveillance actions onsite.

Table 5. Key priorities/objectives identified to be implemented in the regional strategy.

Key priority/objective	Frequency (n.º)
To implement local solutions, aiming to improve CDW management (i.e., CDW collection, transport and preliminary storage, under appropriate conditions, and respecting defined requirements).	8
To promote the recovery and reuse of construction materials (including material banks, for the use in the municipality's construction works or in the context of social actions).	4
To ensure the proper treatment of the CDW generated.	4
To inform and raise awareness of all the players in the CDW management process, including the citizens/individuals.	4
To promote the surveillance of construction works.	4
To avoid or minimize CDW illegal dumping occurrences in the region.	3
To ensure environmental sustainability.	3
To promote procedures control related to licensed construction works.	2
To reduce costs associated with CDW management.	1
To train the entities/stakeholders involved.	1
To establish that materials passports are mandatory.	1
To adapt municipal urban planning, building and waste management regulations to the current legal framework referring to CDW management.	1
To harmonize CDW management procedures at the municipal level (including the development of a municipal collection model and respective rules).	1
To promote the regional strategy to implement the principles of circularity in the construction sector.	1
To reduce the CDW disposal (landfill).	1
To simplify the system relating to the circuit of CDW management.	1
To create financial incentives for municipalities.	1

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Key priority/objective	Frequency (n.º)
To implement the common regional regulation to be created.	1
To make responsible all of those involved in the CDW management process, aiming to develop a joint dynamic.	1

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4. Workshop evaluation

After the *workshop*, a weblink was sent to each participant, in an anonymous and confidential format, regarding its evaluation. Twenty seven responses out of 42 participants were received (response rate of 64%). From those, 41% participated in one previous session (22% in session A, and 19% in session B), 23% were involved in the two previous sessions, and 26% were participating for the first time.

The overall evaluation of the workshop, measured on a 7-point Likert scale (between 1 “very bad”, and 7 “very good”), was 5,3 (see details of the evaluation in Figure 2).

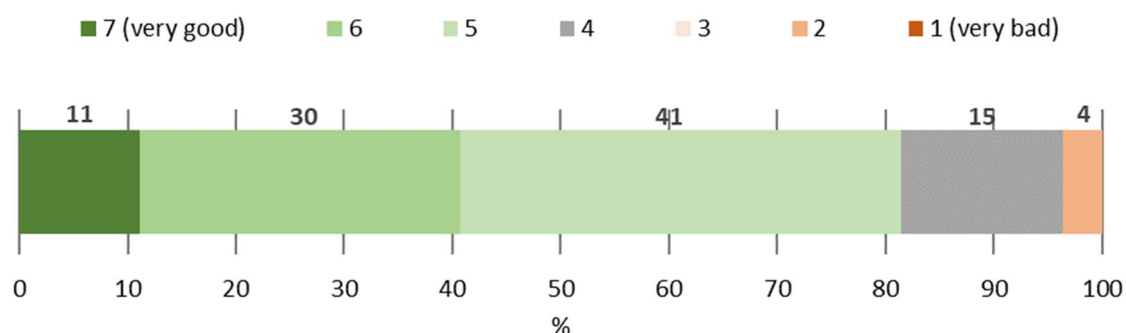


Figure 2. Overall evaluation of the workshop with the municipalities, in relation to the number of respondents.

The results are detailed below, where comments from the FCT NOVA team are also presented. The questions asked were:

- What the participant liked more and less, according to pre-selected options, but allowing to add other choices, and accepting, in both cases, more than one answer (Table 6);
- Improvement suggestions for the next workshop (Table 7).

Table 6. Evaluation of the workshop by the respondent participants - what they liked more and less.

Topics evaluated	Answers (in relation to total respondents)		Feedback from FCT NOVA
	N.º	%	
What you liked more			
Contents (exhibitions)	16	59,3	- Maintain/reinforce in other events, especially in the contents and structure/organization, but also trying to improve the dynamics in the participatory actions (and rhythm/dynamics), although fulfilling the approved requirements/programme, and the previously agreed with other stakeholders/partners/participants.
Structure and organization.	16	59,3	
Utility.	6	22,2	
Participatory activities.	6	22,2	
Rhythm/dynamics.	4	14,8	

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Topics evaluated	Answers (in relation to total respondents)		Feedback from FCT NOVA
	N.º	%	
What you liked less			
Rhythm/dynamics.	11	40,7	<ul style="list-style-type: none"> – It is recognized that, online, the rhythm/dynamics is compromised, as well as the participatory activities, so the team will try to improve these aspects when organizing other events, and will reflect about some aspects of contents/utility to the target audience, reinforcing even more this aspect to the invited participants.
Participatory activities.	6	22,2	
Contents (exhibitions).	2	7,4	
Utility.	2	7,4	
Structure and organization.	1	3,7	
Lack of participation by entities.	1	3,7	<ul style="list-style-type: none"> – Because of the target audience for these workshops (i.e., municipal technicians and micro and small construction companies), in each session FCT NOVA invites the representatives of the project to involve municipal technicians to the workshops, from 3 different intervention areas related to CDW management: environment, urbanism and surveillance; – The municipal executives were involved in the session “Baixo Alentejo – Território Sustentável” held on December 10th of 2021, where the (De)construct project was presented by the WP leaders; – Also, it is planned to municipal executives get involved in WP 6 (regional strategy).
Duration of the workshop (more time).	1	3,7	<ul style="list-style-type: none"> – The workshop characteristics were discussed previously with the municipal representatives of the project, with the general idea that more prolonged actions would not be feasible due to the technicians’ agendas.
Have been performed by videoconference.	1	3,7	<ul style="list-style-type: none"> – This workshop was planned to be organized in a face-to-face format; nevertheless, it was held by videoconference due to the and Covid-19 restrictions in relation to the characteristics of the planned participatory activities.

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Table 7. Evaluation of the workshop by the respondent participants – improvement suggestions.

Improvement suggestions	Answers (in relation to total respondents)		Feedback from FCT NOVA
	N.º	%	
Organize the event in a face-to-face format.	4	14,8	– Please see answers related to these subjects in Table 6 (what you liked less).
Require the participation of legal representatives (executive).	1	3,7	
Create group dynamics to generate solutions and motivate for the regional strategy.	1	3,7	– These dynamics were considered in session A (April of 2021) and will involve other stakeholders during WP 6; – The results can be consulted in the reports that are disseminated in the municipality by the project representative (the reports were also sent by FCT NOVA to the participants with the invitation to this specific workshop).
More practical examples.	1	3,7	– FCT NOVA will try to improve in other events considering these recommendations; – Please also see answers related to these subjects in Table 6 (what you liked less).
More time for activities.	1	3,7	
Duration of the workshop (less time).	1	3,7	
To pay attention to the use of technical terms.	1	3,7	– This workshop was organized to municipal technicians working into a daily basis with CDW management and in relation to the construction sector; in this context, it is expected that technicians recognize technical terms.

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5. Conclusions

Within the scope of the (De)construct for Circular Economy project, more precisely WP 7 (information, awareness and training), this report presents the results of the participatory workshop (Session C), held online on December 13th of 2021, entitled “Regional strategy to promote circularity in the construction sector” (*Baixo Alentejo* municipalities). This workshop was articulated with the main objectives of WP 6 (proposal for strategic action), namely in what concerns the development of a proposal for strategic action to *Baixo Alentejo* region in respect to the circular economy principles application to the construction sector.

Regarding the **awareness and training component**, it is important to highlight the accomplishment with the project tasks dissemination, but also with the training needs and lack of technical knowledge identified in the previous workshops, held on April and September of 2021 (Sessions A and B, respectively). To accomplish the mentioned purpose, five entities (project partners) were invited to be involved in this process, exposing specific topics about the regional strategy and the new tools being developed within the project.

On the **participatory activities’ component**, carried out with *Baixo Alentejo* municipalities, the following main conclusions stand out:

- Forty-two technicians from 10 of the 13 *Baixo Alentejo* municipalities participated in the workshop, representing three areas of intervention important to CDW management at a municipal level (45% from environment area; 29% from urbanism area; and 26% from surveillance/oversight area);
- For the vision to the regional strategy, the keywords that have the greatest consensus to be considered are those related to the stakeholders, local solutions, information/awareness/training, reuse of materials, and circular economy (examples of the vision defined by each municipality that participated in the workshop were presented);
- Regarding the key priorities/objectives to be incorporated in the regional strategy, the ones that have the greatest agreement are those related to the implementation of local solution for CDW management, the recovery and reuse of construction materials, to ensure CDW treatment, to promote communication and raise awareness, and to promote surveillance actions onsite.

As **next steps**, one more workshop is scheduled to be performed in Czech Republic or Romania (Activity 7.3 – project partners capacitation), in April of 2022, where it is planned to present the main results of the (De)construct project and to discuss with partners the adaptation to different realities. The event organization is being discussed with the project partners.

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Operador do Programa:



Promotor:



Parceiros:



Iceland
Liechtenstein
Norway grants

for Porto Metropolitan Area by FCT NOVA – NOVA School of Science and Technology (NOVA University of Lisbon) and 3drivers. Available at (in Portuguese):
http://portal.amp.pt/media/documents/2020/09/21/5_PD_GuiasPD_jun2020.pdf

Operador do Programa:



Promotor:



Parceiros:



Annex II – Involvement of project partners CNPCD and Enviros

(De)construct for Circular Economy (Des)construir para a Economia Circular

Promotor:



Parceiros:



WP7 – Information, awareness, and training Activity 7.2 – Participatory actions for municipalities and construction companies

Session C – Proposal for strategic action

Partner: CNPCD

If you accept to collaborate on this task, please send your feedback only to Mário Ramos (mario.ramos@fct.unl.pt) by December 3rd of 2021.

If it is not currently convenient to you, please inform us about your decision.

A. Main considerations and instructions

Within **WP7 – Activity 7.2**, FCT NOVA will hold the **third round of workshops**, in Portugal, in early December of 2021, targeting two specific groups: *Baixo Alentejo* municipalities and micro and small construction companies. In this context, FCT NOVA invites you to collaborate on the preparation of these specific workshops, this time aiming the development of a proposal for a **strategic action plan to *Baixo Alentejo* region (focused on the implementation of circular economy principles to the construction sector)**, by filling in the information requested below. Please check the methodological report regarding Activity 7.1 for more details (such as subchapter 3.1, table 1).

If you accept to participate, FCT NOVA kindly asks you to give your contribution, following the instructions below. In addition, these results can be used later to the tasks related to Activity 7.3.

Instructions

You can perform this tasks on your own or by requesting national stakeholders to get involved. In this contest, please follow the following instructions:

1. In **section B**, please select between **3 to 5 keywords** that in your opinion reflect needs to define the **vision to a regional strategic action plan (in general)** to assure to implement the circular economy principles in the construction sector. With the keywords that you identified, please write a short paragraph with the vision to the plan.

Operador do Programa:



Promotor:



Parceiros:



- In **section C**, please identify the **main objectives (key strategic priorities)**, for the implementation of the circular economy principles in a regional strategic action plan.
- In case you request national stakeholders to get involved, please go to **section D** to add complementary information about those contributions (*e.g.*, who contributed).

After FCT NOVA receives your contributions, they will be presented on the workshops.

B. Vision to the regional strategic action plan for the implementation of circular economy principles

(Suggest keywords and elaborate a short text about the vision for a future regional strategic plan)

Keywords (3 to 5)	Vision (one short paragraph, with 3 to 5 lines, including all the keywords)
<ul style="list-style-type: none"> Awareness raising Capacity building Regulate and supervise Finance Connect 	<p>Raise awareness of the potential benefits of CDW recovery, identify areas of collaboration between the sectors and establish cooperation mechanisms.</p> <p>Publish best practices to promote learning and knowledge sharing among regional/national stakeholders. Create permanent communication channels to enable public-private articulation.</p> <p>Regional/ local governments adopt rules and procedures for regulating, supervising and controlling CDW generation, recovery and treatment.</p> <p>Support and finance infrastructure for CDW management and recovery at the regional/ local level by public authorities, including capacity building components and facilitation of reuse.</p> <p>Interconnection of firms and individuals through particular exchanges, developing trust and shared norms in support of CDW recovery, cooperation and coordination between economic players and local stakeholders.</p>

C. Main objectives to be considered by a regional strategic action plan for the implementation of circular economy principles

(for instance, you can considerer objectives considering the following dimensions: environment, economy, social, communication, among others)

What are the main objectives (key strategic priorities) that a regional strategic plan should establish?
<ul style="list-style-type: none"> Reduce CDW dumping through better surveillance of CDW generation and treatment Ensure 70% recovery and reuse of CDW by creating the necessary recovery infrastructure for CDW

Operador do Programa:



Promotor:



Parceiros:



What are the main objectives (key strategic priorities) that a regional strategic plan should establish?

- Facilitate the market for construction components and CDW (standards and norms, waste certification, etc)
- Increase cooperation between actors and sectors (networks, online platforms for exchange, etc)

D. Comments about other contributions

(briefly explain how the partner incorporated the contribution of others to answer sections B/C)

Comments

- We explored the status quo by addressing local and regional authorities with a focused questionnaire and got 14 responses. The summary of the results will be provided soon.

Date: 12/11/2021

Operador do Programa:



Promotor:



Parceiros:



(De)construct for Circular Economy (Des)construir para a Economia Circular

Promotor:



Parceiros:



WP7 – Information, awareness, and training Activity 7.2 – Participatory actions for municipalities and construction companies Session C – Proposal for strategic action

Partner: ENVIROS

If you accept to collaborate on this task, please send your feedback only to **Mário Ramos** (mario.ramos@fct.unl.pt) by **December 3rd of 2021**.
If it is not currently convenient to you, please inform us about your decision.

A. Main considerations and instructions

Within **WP7 – Activity 7.2**, FCT NOVA will hold the **third round of workshops**, in Portugal, in early December of 2021, targeting two specific groups: *Baixo Alentejo* municipalities and micro and small construction companies. In this context, FCT NOVA invites you to collaborate on the preparation of these specific workshops, this time aiming the development of a proposal for a **strategic action plan to *Baixo Alentejo* region (focused on the implementation of circular economy principles to the construction sector)**, by filling in the information requested below. Please check the methodological report regarding Activity 7.1 for more details (such as subchapter 3.1, table 1).

If you accept to participate, FCT NOVA kindly asks you to give your contribution, following the instructions below. In addition, these results can be used later to the tasks related to Activity 7.3.

Instructions

You can perform this tasks on your own or by requesting national stakeholders to get involved. In this contest, please follow the following instructions:

4. In **section B**, please select between **3 to 5 keywords** that in your opinion reflect needs to define the **vision to a regional strategic action plan (in general)** to assure to implement the circular economy principles in the construction sector. With the keywords that you identified, please write a short paragraph with the vision to the plan.
5. In **section C**, please identify the **main objectives (key strategic priorities)**, for the implementation of the circular economy principles in a regional strategic action plan.

Operador do Programa:



Promotor:



Parceiros:



6. In case you request national stakeholders to get involved, please go to **section D** to add complementary information about those contributions (e.g., who contributed).

After FCT NOVA receives your contributions, they will be presented on the workshops.

B. Vision to the regional strategic action plan for the implementation of circular economy principles

(suggest keywords and elaborate a short text about the vision for a future regional strategic plan)

Keywords (3 to 5)	Vision (one short paragraph, with 3 to 5 lines, including all the keywords)
<ul style="list-style-type: none"> • reuse and recycling • renewable resources • stakeholder cooperation • awareness and capacity building • policy instruments 	<p>The region aims to maximize the use of recovered, recycled and renewable resources in construction works, enhanced by the application of a mix of policy instruments (incl. regulatory, economic, information, education). The transition to circular construction is based on cooperation of knowledgeable actors from both public and private sector whose awareness and capacities are continuously increasing.</p>

C. Main objectives to be considered by a regional strategic action plan for the implementation of circular economy principles

(for instance, you can consider objectives considering the following dimensions: environment, economy, social, communication, among others)

What are the main objectives (key strategic priorities) that a regional strategic plan should establish?
<ul style="list-style-type: none"> • Maximize the use of secondary materials (reused/recycled CDW) and renewable construction materials; primary raw materials are used only in indispensable cases. • Maximize material recovery of CDW while preferring reuse of construction products over recycling of materials. • Reduce CDW illegal dumping by creating opportunities for waste producers to easily hand over the waste for further processing/disposal as well as by better supervision and inspection activities. • Support capacity building, awareness raising and networking activities in the area of construction and CDW. • Support digitalization of construction projects and works, including the use of progressive procedures and tools (such as material passports, building logbooks, BIM, etc.).

Operador do Programa:



Promotor:



Parceiros:



D. Comments about other contributions

(briefly explain how the partner incorporated the contribution of others to answer sections B/C)

Comments

Answers are based on a previous collaboration with 3 external experts on the waste management analysis for preparation of the strategy Circular Czechia 2040.

Date: 26/11/2021

Operador do Programa:



Promotor:



Parceiros:

