

Environment, Climate Change and Low Carbon Economy Programme

*'Environment Programme'*

*European Economic Area (EEA) Financial Mechanism 2014-2021*

**Final Report**

**31/12/2021**

## **8\_CALL#2–(De)construct for Circular Economy**

*Accordingly, with the Articles 25.2.j) and 29.4 of the 'Applicants Guide for Financing of Projects Supported by Environment, Climate Change and Low Carbon Economy Programme'*

[https://www.eeaqrants.gov.pt/media/2994/applicants-guide-for-financing-eea-grants\\_environment-projects\\_28112019.pdf](https://www.eeaqrants.gov.pt/media/2994/applicants-guide-for-financing-eea-grants_environment-projects_28112019.pdf)

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### i. Detailed description

The (De)construct for Circular Economy project took place between September 1, 2020 and December 31, 2022, having all the planned activities been carried out.

Throughout the 28 months of the project, all partners maintained their involvement and commitment, collaborating beyond the activities to which they had committed.

As recent examples of this collaboration (others were mentioned throughout the various progress reports) it is important to mention the work (extra-project) of the partner FCT NOVA in the production of a support document for the implementation of strategies to promote the management of CDW on a municipal scale ("RCD\_Guia-Estrategias-Loicais\_2022-11\_vf. pdf", attached to this report) and of a proposal of contents for a pamphlet and for the websites of the Baixo Alentejo municipalities ("RCD\_Pamphlet-Sites\_2022-11\_vf.pdf", also attached). The objective is that these documents be used in a way that allows objectivity and uniformity of criteria between municipalities, facilitating the effectiveness of actions and communication channels.

Also, partner IDN (NO) prepared an online platform/website where it disseminate the Norwegian experience in the area of circularity in building and construction sector in the form of power point presentations and videos, available in Portuguese and in English, and addressed to representative of Portuguese stakeholders, municipalities, research institutions etc, and with the following goals: provide overview of Norwegian solutions and good practices implemented in circular construction, grouped in the modules consistent with main work packages (Regulatory framework, Pre-demolition audit, Material passport, Mathematical model) and provide inspirations for Portuguese municipalities and stakeholders.

Available: [CIMBAL Knowledge HUB: home \(overdrive.io\)](https://cimbal-knowledge-hub.home.overdrive.io)

- User: [guest@id-norway.com](mailto:guest@id-norway.com)
- Password: EEA-1234567809

It should also be noted that the E-learning course on "Construction and Demolition Waste: Prevention and Recovery", promoted by Smart Waste Portugal Association and intended exclusively for project partners and municipalities of CIMBAL (already mentioned in previous reports) was included as a good practice in the policy learning platform of the Interreg Europe program. This inclusion comes after the presentation of the course, held by the Smart Waste Association as an invited entity and partner of CIMBAL in the (Des)construct project, in the LCA4Regions project event - Improved Environment and Resource Efficiency through use of Life Cycle Instruments for implementation of regional policies of the European Union, (in March 2022 and also already mentioned in previous reports). After the presentation, the course (which immediately generated great interest from the partners of the LCA4Regions project) was evaluated as a good practice to be replicated in other regions, hence its inclusion in the policy learning platform of the Interreg Europe program.

All the activities planned in the eight workpackages were carried out:

Program Area	Activity Description		Promoter / Partner	Execution
WP0 - Management	0.1	<i>Implementation control / internal management - Coordination meetings</i>	CIMBAL	performed
	0.1	<i>Implementation control / internal management - Reporting</i>		performed
	0.2	<i>Outcome assessment</i>		performed
WP1 - Baseline situation analysis and follow-up	1.1	<i>Data collection about CDW generation and recovery</i>	IPP	performed
	1.2	<i>Data collection about best practices and constraints</i>		performed
	1.3	<i>Analysis of the regional construction sector dynamics</i>		performed
	1.4	<i>Methodology for estimating CDW illegal dumping</i>		performed
	1.5	<i>Estimate of CDW illegal dumping</i>		performed
WP2 - Regulatory framework	2.1	<i>Legal framework analysis</i>	CIMBAL	performed
	2.2	<i>Common regulatory framework</i>		performed
	2.3	<i>Dissemination/ capacitation</i>		performed
WP3 - Materials passport	3.1	<i>State of art</i>	LNEG	performed
	3.2	<i>Developing MP model (preliminary version)</i>		performed
	3.3	<i>Stakeholders' consultation for the MP validation</i>		performed
	3.4	<i>Development of a MP model (final version)</i>		performed
WP4 - Pré-demolition audits	4.1	<i>Analysis of Existing Pre-demolition Audits</i>	LNEG	performed
	4.2	<i>Stakeholder consultation</i>		performed
	4.3	<i>Development of a draft guide for Conducting Pre-demolition Audits</i>		performed
	4.4	<i>Testing and improving guide for conducting pre-demolition audits</i>		performed
	4.5	<i>Development of a guide for Conducting Pre-demolition Audits</i>		performed
WP5 - Model	5.1	<i>Mathematical model for the location of recovery/sorting centres</i>	LNEG	performed
	5.2	<i>Mathematical model for the inter-municipal reuse network</i>		performed
	5.3	<i>Mathematical model of an inter-municipal CDW processing network</i>		performed

Program Area	Activity Description		Promoter / Partner	Execution
WP6 - Proposal for strategic action	6.1	<i>Stakeholders consultation - strategic regional action</i>	RESIALENTEJO	performed
	6.2	<i>Study for the management of the CDW</i>		performed
	6.3	<i>Stakeholders consultation - guidelines for institutional model</i>		performed
	6.4	<i>Definition of the institutional model</i>		performed
	6.5	<i>Presentation of the final results to the relevant stakeholders</i>		performed
WP7 - Information, awareness and training	7.1	<i>Methodology for stakeholders' consultation (participatory actions)</i>	FCT NOVA	performed
	7.2	<i>Participatory actions for municipalities and construction companies</i>		performed
	7.3	<i>Project partners capacitation</i>		performed
WP8 - Communication	8.1	<i>Defining and implementing a detailed communication plan</i>	CIMBAL	performed
	8.2	<i>Project website creation / other communication supports</i>		performed
	8.3	<i>Dissemination of project results - public events</i>		performed
	8.4	<i>Dissemination of project results - press/ online</i>		performed

See document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_AnnexI\_Final Report.xlsx, sheet "Synthesis"

ii. Results achieved

All 34 Activities/Actions of the project were executed.

Thus, and by WP/Activity, the project results are identified, taking into consideration the indicators and targets defined in the contract:

Program Area	Activity Description	Promoter / Partner	Indicators	Targets	Results	% Cumulative technical execution	Comments	Final documents	Evidence (activities carried out between Sep and Dec/22)
WP0 - Management	0.1 <i>Implementation control / internal management - Coordination meetings</i>	CIMBAL	Coordination meetings held	5	5	100%		-	Meeting minutes; attendance sheets; other evidence, s.a. Fotos: <b>2022-09-16_Management Meeting</b> <b>2022-12-21_Management Meeting</b>
	0.1 <i>Implementation control / internal management - Reporting</i>		Activity implementation report	12	9	75%	Project execution reports were submitted on a quarterly basis, in accordance with the guidelines of the Programme Operator - Secretary General for Environment	-	Progress reports (one every two months): <b>9 Activity implementation report</b>
			Financial execution reports	5	7	100%	Although only 5 Payment Requests were foreseen, 7 were submitted	-	Financial execution reports: <b>7 Financial execution reports</b>
	0.2 <i>Outcome assessment</i>		Questionnaire responses / inquiry analysis	250	48	19%	Despite all the efforts made it was only possible to obtain 48 answers	-	Questionnaire responses / Evaluation report: <b>(De)construct para a Economia Circular - Inquérito de satisfação (pt).csv.zip</b> <b>English - (De)construct for Circular Economy - Satisfaction survey.csv.zip</b>
WP1 - Baseline situation analysis and follow-up	1.1 <i>Data collection about CDW generation and recovery</i>	IPP	CDW generated and recovered for each CIMBAL municipality	13	12	92%	Despite all the efforts made it was only possible to obtain answers from 12 of the 13 CIMBAL municipalities	Report with CDW generated and recovered: <b>(De)construct_WP1_A1.1_A1.3_Final Report.pdf</b>	
	1.2 <i>Data collection about best practices and constraints</i>		Number of best practices and constraints	5	24	100%	The number of good practices collected (24) far exceeded the target (of 5)	Report with best practices and constraints: <b>(De)construct_WP1_A1.2_Final Report.pdf</b>	
	1.3 <i>Analysis of the regional construction sector dynamics</i>		Construction sector dynamics	1	1	100%		Report with construction sector dynamics: <b>(De)construct_WP1_A1.1_A1.3_Final Report.pdf</b>	
	1.4 <i>Methodology for estimating CDW illegal dumping</i>		Methodology report (CDW illegal dumping)	1	1	100%		Report with estimating CDW illegal dumping methodology: <b>(De)construct_WP1_A1.4_Final Report.pdf</b>	
	1.5 <i>Estimate of CDW illegal dumping</i>		Number of monitoring action periods for CDW illegal dumping (at least for 3 CIMBAL municipalities)	3	3	100%		Reports with the estimation of CDW illegal dumping at the end of each monitoring action period (3 periods): <b>1. (De)construct_WP1_A1.5_P1_Final Report.pdf</b> <b>2. (De)construct_WP1_A1.5_P2_Final Report.pdf</b> <b>3. (De)construct_WP1_A1.5_P3_Final Report.pdf</b>	
			Estimate of CDW illegal dumping (at least for 3 CIMBAL municipalities)	3	3	100%			
			Number of monitoring action periods for CDW illegal dumping (at least for 3 CIMBAL municipalities)	10	10	100%			
WP2 - Regulatory framework	2.1 <i>Legal framework analysis</i>	CIMBAL	CIMBAL municipalities legal framework diagnosis	13	13	100%		Report with the European (project partners ) and national legal framework diagnosis: <b>(De)construct_WP2_A2.1_Final Report.pdf</b>	
			Project partners legal framework diagnosis (countries)	3	3	100%			
	2.2 <i>Common regulatory framework</i>		Common legal framework	1	1	100%		Report with the legal regulatory framework: <b>(De)construct_WP2_A2.2_Final Report.pdf</b>	
	2.3 <i>Dissemination/ capacitation</i>		Dissemination of the legal regulatory framework	2	2	100%		Actions to disseminate the common legal regulatory framework: <b>(De)construct_WP2_A2.2_Final Report.pdf</b>	

Program Area	Activity Description	Promoter / Partner	Indicators	Targets	Results	% Cumulative technical execution	Comments	Final documents	Evidence (activities carried out between Sep and Dec/22)
WP3 - Materials passport	3.1 <i>State of art</i>	LNEG	Number of initiatives collected for state of the art	3	5	100%	The number of initiatives collected for state of the art (5) exceeded the target (3)	Report of the state of the art: <b>(De)construct_WP3_A3.1_Final Report.pdf</b>	
	3.2 <i>Developing MP model (preliminary version)</i>		Preliminary MP model	1	1	100%		Preliminary MP model: <b>(De)construct_WP3_A3.2_Material Passports for a Circular Economy_preliminary.xlsm</b>	
			Scoring of the developed MP model by partners and stakeholders (1-4)	3	3	100%		Evaluation report: <b>(De)construct_WP3_A3.2 and WP4_A4.3_Final Report.pdf</b>	
	3.3 <i>Stakeholders' consultation for the MP validation</i>		Number of stakeholders consulted for validation	20	31	100%	The number of stakeholders consulted for validation (31) exceeded the target (20)	Report of the consultation process: <b>(De)construct_WP3_A3.3 and WP4_A4.2_Final Report_Building Companies.pdf</b> <b>(De)construct_WP3_A3.3 and WP4_A4.2_Final Report_Municipalities.pdf</b> <b>(De)construct_WP3_A3.3_Final Synthesis Report.pdf</b>	
	3.4 <i>Development of a MP model (final version)</i>		MP model	1	1	100%	In addition to the Material Passports, a Material Passports Instruction Manual was developed	MP model <b>(De)construct_WP3_A3.4_Material Passports for a Circular Economy.xlsm</b> <b>(De)construct_WP3_A3.4_Material Passports_Instruction Manual.pdf</b>	
WP4 - Pré-demolition audits	4.1 <i>Analysis of Existing Pre-demolition Audits</i>	LNEG	Number of good practices collected for pre-demolition building audits	5	8	100%	The number of good practices collected for pre-demolition building audits (8) exceeded the target (of 5)	Report with good practices: <b>(De)construct_WP4_A4.1_Final Report.pdf</b>	
	4.2 <i>Stakeholder consultation</i>		Number of stakeholders consulted	20	30	100%	The number of stakeholders consulted for validation (30) exceeded the target (20)	Report with consultation results: <b>(De)construct_WP3_A3.3 and WP4_A4.2_Final Report_Building Companies.pdf</b> <b>(De)construct_WP3_A3.3 and WP4_A4.2_Final Report_Municipalities.pdf</b> <b>(De)construct_WP4_A4.2_Final Synthesis Report.pdf</b>	
	4.3 <i>Development of a draft guide for Conducting Pre-demolition Audits</i>		Draft guide for conducting pre-demolition audits	1	1	100%		Draft guide for conducting pre-demolition audits: <b>pre-demolition guide_draft version EN.xlsx</b>	
			Scoring of the developed pre-demolition audit guide by partners and stakeholders (1-4)	3	3	100%		Evaluation report: <b>(De)construct_WP3_A3.2 and WP4_A4.3_Final Report.pdf</b>	
	4.4 <i>Testing and improving guide for conducting pre-demolition audits</i>		Number of performed tests	3	5	100%	The number of performed tests (5) exceeded the target (3)	Report of the testing phase: <b>(De)construct_WP4_A4.4_Report of the testing phase.pdf</b>	
	4.5 <i>Development of a guide for Conducting Pre-demolition Audits</i>		Number of guidance documents produced	1	1	100%	In addition to the guide for conducting pre-demolition audits, a User Manual - Pre-demolition Audits was created	Digital document: Guide for conducting pre-demolition audits: <b>Final Version_Pre-demolition Guide_En.xlsx</b> <b>(De)construct_WP4_A4.5_User's Manual_Pre-demolition Audits.pdf</b>	

Program Area	Activity Description	Promoter / Partner	Indicators	Targets	Results	% Cumulative technical execution	Comments	Final documents	Evidence (activities carried out between Sep and Dec/22)
WP5 - Model	5.1 <i>Mathematical model for the location of recovery/sorting centres</i>	LNEG	Number of model validation sessions using a region to be defined and selected on the basis of data availability	3	1	33%	All the attempts to get data from the municipal partners and project partners remain unanswered despite all the efforts made. Only partner IDN (NO) collaborated by doing the evaluation of the mathematical model. A preliminary version of this report was sent to all project partners for analysis, feedback, and discussion.		Meeting minutes: <b>modell_evaluering_EN.pdf</b>
			Report with the results of the model for the location of recovery/sorting centers for case study 1	1	1	100%		Report: <b>(De)construct_WP5_A5.1 and A5.2_Final Report.pdf</b>	
	5.2 <i>Mathematical model for the inter-municipal reuse network</i>		Number of model validation sessions using a region to be defined and selected on the basis of data availability	2	1	50%	All the attempts to get data from the municipal partners and project partners remain unanswered despite all the efforts made. Only partner IDN (NO) collaborated by doing the evaluation of the mathematical model. A preliminary version of this report was sent to all project partners for analysis, feedback, and discussion.		Meeting minutes: <b>modell_evaluering_EN.pdf</b>
			Report with the results of the model for the inter-municipal reuse network for case study 2	1	1	100%		Report: <b>(De)construct_WP5_A5.1 and A5.2_Final Report.pdf</b>	
	5.3 <i>Mathematical model of na inter-municipal CDW processing network</i>		Number of waste management actors consulted for validation of the model	3	0	0%	All the attempts to get data from the management actors remain unanswered despite all the efforts made	Report of the consultation process	
			Report with the results of the model of an inter-municipal RCD processing network for case study 3	1	1	100%		Report: <b>(De)construct_WP5_A5.3_Final Report.pdf</b>	
WP6 - Proposal for strategic action	6.1 <i>Stakeholders consultation - strategic regional action</i>	RESIALENTEJO	-	-	-	-	The minutes of the meetings with stakeholders were included in the preliminary report; the consultation and the report were carried out simultaneously, in order to not compromise the project's deadline (the process of contracting the company that developed the study took longer than expected)	-	(De)construct_WP6_A6.2_Preliminary Report.pdf
			Doc. Study preliminary phase	1	1	100%		Doc. Study 1phase: <b>(De)construct_WP6_A6.2_Preliminary Report.pdf</b>	
	6.3 <i>Stakeholders consultation - guidelines for institutional model</i>		-	-	-	-	Meetings were held with the municipalities (by zoom) where they were asked if they agreed and what the solution was, presented in the report preliminar	-	(De)construct_WP6_A6.2_Preliminary Report.pdf and (De)construct_WP6_A6.4_Final Report.pdf
			Doc. Study final phase	1	1	100%		Doc. Study final phase: <b>(De)construct_WP6_A6.4_Final Report.pdf</b>	
	6.4 <i>Definition of the institutional model</i>		Creation of a regional network	1	1	100%	At the event held in Prague, representatives of the municipalities and Resialentejo met in order to discuss and commit to work after the definition of the Strategy	Agreement: <b>(De)construct_WP6_A6.4_Final Report.pdf</b>	Meeting minutes, November 30, 2022, in (De)construct_WP6_A6.4_Final Report.pdf
			6.5 <i>Presentation of the final results to the relevant stakeholders</i>	-	-	-	The results of the study were presented at the Final Event held in Beja on 13/12/2022		Attendance Sheets; other evidence, s.a. Fotos: 2022-12-13_Evento final

Program Area	Activity Description	Promoter / Partner	Indicators	Targets	Results	% Cumulative technical execution	Comments	Final documents	Evidence (activities carried out between Sep and Dec/22)	
WP7 - Information, awareness and training	7.1	Methodology for stakeholders' consultation (participatory actions)	Methodology report (participatory actions)	1	1	100%		Report with the methodology for stakeholders' consultation: <b>(De)construct_WP7_A7.1_Final Report.pdf</b>		
	7.2	Participatory actions for municipalities and construction companies	FCT NOVA	Participatory actions for CIMBAL municipalities	3	3	100%		Reports with the results of stakeholders' consultation at the end of each action (3 periods, 2 groups): <b>1. (De)construct_WP7-A7.2_Workshop-A_Companies.pdf</b> <b>(De)construct_WP7-A7.2_Workshop-A_Municipalities.pdf</b> <b>2. (De)construct_WP7-A7.2_Workshop-B_Companies.pdf</b> <b>(De)construct_WP7-A7.2_Workshop-B_Municipalities.pdf</b> <b>3. (De)construct_WP7-A7.2_Workshop-C_Companies.pdf</b> <b>(De)construct_WP7-A7.2_Workshop-C_Municipalities.pdf</b>	
				Capacitation of CIMBAL municipalities about CDW topics	3	3	100%			
				Participatory actions for Portuguese (regional) construction companies	3	3	100%			
				Capacitation of Portuguese (regional) construction companies about CDW topics	3	3	100%			
				Participants (CIMBAL municipalities) at the participatory actions	13	36	100%			The number of participants in participatory actions (36) far exceeded the target (13)
				Participants Portuguese (regional) construction companies at the participatory actions	20	76	100%			The number of participants in participatory actions (76) far exceeded the target (20)
	7.3	Project partners capacitation		Participatory actions (project partners)	1	1	100%		Report with the result of European project partners capacitation: <b>(De)construct_WP7-A7.3_Final Report.pdf</b>	
				Participants (project partners) at the participatory actions	20	31	100%	The number of participants in participatory actions (31) far exceeded the target (20)		



Program Area	Activity Description	Promoter / Partner	Indicators	Targets	Results	% Cumulative technical execution	Comments	Final documents	Evidence (activities carried out between Sep and Dec/22)
WP8 - Communication	8.1 <i>Defining and implementing a detailed communication plan</i>	CIMBAL	Doc. Communication Plan	1	1	100%		Doc. Communication Plan: <b>ComPlan_EN.doc</b>	
	8.2 <i>Project website creation / other communication supports</i>		Project website creation / other communication supports	5	7	100%		project website + project brochure + project flyer + 2 project videos: <a href="https://desconstruir.pt/">https://desconstruir.pt/</a> <b>Triptico Brochura DESCONSTRUIR.pdf</b> <b>Pasta para Documentos A4_Desconstruir.pdf</b> <b>CIMBAL_pitch evento Portugal Smart Cities Summit 2020.wmv</b> <b>(Des)construir (1).mp4;</b> <b>(De)construct for Circular Economy (en).mov</b> <b>(Des)construir para a Economia Circular-Sessão Encerramento.mp4</b>	project brochure + project flyer: <b>BrochuraDesconstruir.jpg</b> <b>Pasta para documentos A4.jpg</b>
	8.3 <i>Dissemination of project results - public events</i>		Events held	3	4	100%	The number of events (4) and participants (158) exceeded the target (3/150)	-	Attendance Sheets; other evidence, s.a. Fotos: <b>2022-12-13_Evento final</b>
			Participants	150	158	100%			
	8.4 <i>Dissemination of project results - press/ online</i>		Press releases; posts on social media/project website	48	103	100%	The number of press releases, posts on social media/project website (103) exceeded the target (48)	-	Clipping report / project website/ social media page: <b>Nota de Imprensa Desconstruir 27 12 22.pdf</b> <b>clipping desconstruir dez 2022.xlsx</b> <a href="https://desconstruir.pt/">https://desconstruir.pt/</a> <a href="https://www.facebook.com/Desconstruir.eeagrants">https://www.facebook.com/Desconstruir.eeagrants</a> <a href="https://www.instagram.com/desconstruir.eeagrants/">https://www.instagram.com/desconstruir.eeagrants/</a> <b>Novos gostos e seguimentos.pdf</b> <b>Visitas à Página e ao perfil.pdf</b>
			Project newsletters	8	8	100%		Quarterly newsletter: <b>Newsletter (De)Construct EN 1 march.pdf</b> <b>Newsletter (Des)Construir EN 2 junho.pdf</b> <b>Newsletter (Des)Construir_3_nov_21.pdf</b> <b>Newsletter (Des)Construir 4 - fevereiro 2022 (EN).pdf</b> <b>Newsletter (Des)Construir_5 junho 2022_EN.PDF</b> <b>Newsletter (Des)Construir_6 agosto 2022_EN.PDF</b> <b>Newsletters (Des)Construir_7_EN.pdf</b> <b>Newsletter (Des)Construir_8_dezembro_2022_EN.pdf</b>	-
			Reach of online posts - views	9600	25716	100%	The reach of online posts (views and interactions) far exceeded the targets	-	project website visit statistics/ social media page: <b>Alcance.pdf</b> <b>Novos gostos e seguimentos.pdf</b> <b>Visitas à Página e ao perfil.pdf</b>
	Reach of online posts - interactions		240	1200	100%	-			

See document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_Annexl\_Final Report.xlsx, sheet "Synthesis"





The overall technical execution rate of the project was 93% (see document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_AnnexI\_Final Report.xlsx, sheet "Indicators"):

	% Cumulative technical execution
WP0 - Management	74%
WP1 - Baseline situation analysis and follow-up	99%
WP2 - Regulatory framework	100%
WP3 - Materials passport	100%
WP4 - Pré-demolition audits	100%
WP5 - Model	64%
WP6 - Proposal for strategic action	100%
WP7 - Information, awareness and training	100%
WP8 - Communication	100%
<b>Total</b>	<b>94%</b>



iii. Description of costs and financial impact assessment

The expenses were presented in 7 Payment Requests:

Partner	1st Payment Request (nov/20 to feb/21)		2nd Payment Request (mar to aug/21)		3rd Payment Request (sep to nov/21)		4th Payment Request (dec/21 to fev/22)		5th Payment Request (mar to may/22)		6th Payment Request (jun to aug/22)		7th Payment Request (sep a dec/22)		Total expenditure
	Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		
CIMBAL	12.543 €	nov/20 to feb/21	20.869 €	mar to aug/21	11.163 €	sep to nov/21	8.528 €	dec/21 to fev/22	15.324 €	mar to may/22	26.158 €	jun to aug/22	41.834 €	set to dec 22	136.418 €
Laboratório Nacional de Energia e Geologia	11.031 €	nov/20 to feb/21	34.260 €	mar to aug/21	16.563 €	sep to nov/21	18.399 €	dec/21 to fev/22	7.941 €	mar to may/22	10.372 €	jun to aug/22	13.503 €	set to dec 22	112.069 €
Universidade Nova de Lisboa	6.303 €	nov/20 to feb/21	23.393 €	mar to aug/21	12.778 €	sep to nov/21	10.608 €	dec/21 to fev/22	11.203 €	mar to may/22	14.964 €	jun to aug/22	18.237 €	set to dec 22	97.487 €
Instituto Politécnico de Portalegre	1.827 €	nov/20 to feb/21	2.754 €	mar to aug/21	1.266 €	sep to nov/21	1.202 €	dec/21 to fev/22	1.173 €	mar to may/22	989 €	jun to aug/22	2.960 €	set to dec 22	12.172 €
Resialentejo	0 €		900 €	mar to aug/21	778 €	sep to nov/21	2.355 €	dec/21 to fev/22	599 €	mar to may/22	1.749 €	jun to aug/22	26.073 €	set to dec 22	32.453 €
Associação Smart Waste Portugal	299 €	nov/20 to feb/21	1.790 €	mar to aug/21	1.221 €	sep to nov/21	447 €	dec/21 to fev/22	0 €		4.728 €	jun to aug/22	3.771 €	set to dec 22	12.256 €
RDF Construções - Sociedade Imobiliária Lda	0 €		0 €		0 €		5.098 €	mar/21 to fev/22	2.857 €	mar to may/22	3.438 €	jun to aug/22	1.796 €	set to dec 22	13.189 €
CERCIBEJA	0 €		0 €		291 €	sep to nov/21	1.407 €	dec/21 to fev/22	615 €	mar to may/22	2.020 €	jun to aug/22	6.189 €	set to dec 22	10.522 €
Internacional Development Norway AS	9.046 €	nov/20 to feb/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - jan/22	13.480 €	mar to aug/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - apr/22	0 €		0 €		6.922 €	dec/21 to may/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - nov/22	0 €		24.968 €	jun to dec/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - jan/23	54.417 €

Partner	1st Payment Request (nov/20 to feb/21)		2nd Payment Request (mar to aug/21)		3rd Payment Request (sep to nov/21)		4th Payment Request (dec/21 to feb/22)		5th Payment Request (mar to may/22)		6th Payment Request (jun to aug/22)		7th Payment Request (sep a dec/22)		Total expenditure
	Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		
National Centre for Sustainable Production and Consumption	0 €		12.977 €	nov/20 to aug/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - apr/22	2.474 €	sep to nov/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - may/22	3.701 €	dec/21 to feb/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - sep/22	0 €		14.336 €	mar to aug/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - dec/22	12.410 €	sep to nov/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - jan/23	45.898 €
ENVIROS sro	4.211 €	nov/20 to feb/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - jan/22	0 €		21.932 €	mar to nov/21 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - may/22	1.826 €	dec/21 to feb/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - sep/22	0 €		0 €		20.451 €	mar to nov/22 - Art. 9.6 Regulation EEE - monthly accounting exchange rate of the European Commission - jan/23	48.420 €
<b>Portuguese partners</b>	<b>32.003 €</b>		<b>83.966 €</b>		<b>44.061 €</b>		<b>48.043 €</b>		<b>39.712 €</b>		<b>64.418 €</b>		<b>114.364 €</b>		<b>426.566 €</b>
<b>Other partners</b>	<b>13.257 €</b>		<b>26.457 €</b>		<b>24.406 €</b>		<b>5.527 €</b>		<b>6.922 €</b>		<b>14.336 €</b>		<b>57.829 €</b>		<b>148.734 €</b>
<b>Total</b>	<b>45.260 €</b>		<b>110.422 €</b>		<b>68.466 €</b>		<b>53.570 €</b>		<b>46.634 €</b>		<b>78.754 €</b>		<b>172.193 €</b>		<b>575.301 €</b>

The document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_AnnexI\_Final Report.xlsx, sheet "Budget" presents the reported costs, in a detailed way, by WP, partner and expense type.

In summary (which is also in the document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_AnnexI\_Final Report.xlsx, sheet "Costs"):

	Total Expenditure (nov/20 to dec/22)											
	Project Promoter CIMBAL	Partner 1 LNEG	Partner 2 FCT NOVA	Partner 3 I P Portalegre	Partner 4 Resialentejo	Partner 5 Smartwaste	Partner 6 RDF Construções	Partner 7 Cercibeja	Partner 8 I D Norway	Partner 9 Romania	Partner 10 Czech Rep.	Total
WP0 - Management	20.044,07	6.056,84	0,00	0,00	0,00	1.173,63	2.199,58	2.322,65	6.569,68	9.619,88	5.969,46	53.955,78
WP1 - Baseline situation analysis and follow-up	0,00	2.494,06	29.048,42	7.732,89	0,00	0,00	0,00	0,00	5.970,82	5.291,26	8.257,01	58.794,47
WP2 - Regulatory framework	28.908,63	1.547,35	9.928,91	0,00	0,00	0,00	0,00	0,00	3.001,05	5.566,43	4.408,18	53.360,55
WP3 - Materials passport	0,00	17.533,87	2.982,64	0,00	0,00	2.466,31	2.272,41	0,00	5.983,84	2.548,77	3.958,67	37.746,51
WP4 - Pré-demolition audits	0,00	13.493,10	3.096,58	0,00	0,00	2.359,95	2.060,87	0,00	5.727,69	2.801,66	3.976,89	33.516,73
WP5 - Model	0,00	32.685,46	3.177,31	0,00	0,00	0,00	0,00	0,00	5.622,23	2.592,92	2.584,55	46.662,48
WP6 - Proposal for strategic action	18.400,71	9.030,41	6.471,37	1.865,00	23.562,33	2.635,21	1.940,12	4.420,31	5.622,23	2.874,05	2.900,81	79.722,55
WP7 - Information, awareness and training	17.723,96	5.901,73	23.284,55	139,54	2.399,97	1.169,50	2.078,51	1.674,34	5.035,71	5.423,10	5.897,66	70.728,57
WP8 - Communication	24.057,36	912,63	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	782,85	25.752,84
<b>Direct Costs</b>	<b>109.134,73</b>	<b>89.655,46</b>	<b>77.989,79</b>	<b>9.737,43</b>	<b>25.962,30</b>	<b>9.804,59</b>	<b>10.551,49</b>	<b>8.417,30</b>	<b>43.533,24</b>	<b>36.718,07</b>	<b>38.736,07</b>	<b>460.240,47</b>
<b>Indirect Costs</b>	<b>27.283,68</b>	<b>22.413,86</b>	<b>19.497,45</b>	<b>2.434,36</b>	<b>6.490,58</b>	<b>2.451,15</b>	<b>2.637,87</b>	<b>2.104,33</b>	<b>10.883,31</b>	<b>9.179,52</b>	<b>9.684,02</b>	<b>115.060,12</b>
<b>Total Project Cost</b>	<b>136.418,41</b>	<b>112.069,32</b>	<b>97.487,24</b>	<b>12.171,78</b>	<b>32.452,88</b>	<b>12.255,74</b>	<b>13.189,36</b>	<b>10.521,63</b>	<b>54.416,55</b>	<b>45.897,58</b>	<b>48.420,09</b>	<b>575.300,59</b>



	Approved budget	Total Expenditure	% Cumulative financial execution	% Cumulative technical execution
WP0 - Management	40.629	53.956	133%	74%
WP1 - Baseline situation analysis and follow-up	62.168	58.794	95%	99%
WP2 - Regulatory framework	52.611	53.361	101%	100%
WP3 - Materials passport	37.456	37.747	101%	100%
WP4 - Pré-demolition audits	33.794	33.517	99%	100%
WP5 - Model	47.580	46.662	98%	64%
WP6 - Proposal for strategic action	95.129	79.723	84%	100%
WP7 - Information, awareness and training	74.688	70.729	95%	100%
WP8 - Communication	26.185	25.753	98%	100%
Direct Costs	470.241	460.240	98%	94%
Indirect Costs	117.560	115.060	98%	-
Total Project Cost	587.802	575.301	98%	-

	Approved budget	Total Expenditure	% Cumulative financial execution
Project Promoter CIMBAL	99.043	109.135	110%
Partner 1 LNEG	89.658	89.655	100%
Partner 2 FCT NOVA	78.905	77.990	99%
Partner 3 I P Portalegre	9.743	9.737	100%
Partner 4 Resialentejo	36.627	25.962	71%
Partner 5 Smartwaste	10.765	9.805	91%
Partner 6 RDF Construções	10.555	10.551	100%
Partner 7 Cercibeja	10.662	8.417	79%
Partner 8 I D Norway	46.208	43.533	94%
Partner 9 Romania	39.033	36.718	94%
Partner 10 Czech Rep.	39.042	38.736	99%
Direct Costs	470.241	460.240	98%

The financial execution rate is 98%.

The deviations from the approved budget can be consulted in detail in the document 08\_Call#2\_(Des)construir\_Economia\_Circular\_CIMBAL\_AnnexI\_Final Report.xlsx, sheet "Budget detours"):

Analyzing these deviations by WP, it is important to note:

WP0 - the financial execution value presented in this WP is 33% higher than approved; this increase results from two costs not considered in application: from CIMBAL and from the partner IDN (NO). The CIMBAL budget (approved in the application) did not consider the hiring of a statutory auditor to supervise (mandatory) all the expenses presented by the partnership. The CIMBAL assured, with its own funding, this expense, but with the availability of the partnership budget (and with the agreement of all partners - (De)construct for Circular Economy - financial execution.msg) we now present this expense. Also, the partner IDN (NO) had not considered in its application a budget for certification of its expenses; with a global budget allocation to include this expense we ask that it be considered. If we consider the value of the deviation from the budget, in this WP, without the two mentioned expenses, we have a deviation of only 1%;

WP1 - the financial execution of this WP is 5% lower than the approved amount, mainly due to the expenses made by two of the foreign partners, in the item "Travel and subsistence allowances for staff". The partner CNPCD (RO) traveled to the international event by car, which substantially decreased the amount used for this purpose. The partner ENVIROS (RC) - host of the international event - used this amount to cover the costs of hosting the event (adjustment requested and accepted in the IR 6), which was substantially below the budgeted amount;

WP5 - the financial execution of this WP is 2% lower than the approved budget; the partner Associação Smart Waste Portugal did not consider it necessary to carry out any travels in the scope of this activity;

WP6 - The budgets approved for "Travel and subsistence allowances for staff" (in the scope of the international event) were generally excessive and several partners ensured the travel of their teams for amounts well below the approved, namely, CIMBAL, FCT NOVA and Resialentejo. In the case of CIMBAL, travel and accommodation was purchased for thirteen representatives of the municipalities, but two mayors, for unforeseen and unavoidable reasons, could not participate in the event and, therefore, the cost associated with their travel was not charged to the project; the partner Resialentejo was responsible for the "Study for the management of the CDW", carried out using a service provision which, although the approved budget (25 000 euros) was observed in the definition of the base price of the procedure, was awarded for only 13 900 euros; the partner Resialentejo needed much more dedication from its human resources in this WP than initially foreseen; effectively the company team that (through the already mentioned service provision) developed the Regional Strategy for the Reuse of Construction Products and Components required constant mediation by Resialentejo, with municipalities, project partners and other stakeholders; the partner Cercibeja terminated the contract with its employee with the greatest allocation to the project even before the end of the project; this termination of contract had no implications in terms of the work developed but ended up having some financial impact with this partner using only 78% of the approved budget in this WP and in the item "Cost of staff assigned to the project";

WP7 - the financial execution of this WP is 5% lower than the approved budget; among the most significant changes, we highlight the non-use by the partners LNEG, IP Portalegre, Resialentejo, RDF and Cercibeja of most of the budgeted amount for "Travel and subsistence allowances for staff" (the pandemic significantly reduced the travel made throughout the project); the partner FCT NOVA exceeded the amount allocated to "Cost of new or second hand equipment" because the increase in the duration of the project implied an increase in the amount allocated related to

the depreciation of the computer acquired by the partner within the project; RDF exceeded the amount approved under "Cost of staff assigned to the project" (by 17%) due to an increase in the salary of the human resource assigned to the project; the partner Cercibeja ended the contract with its employee with the highest allocation to the project even before the end of the project; this contract end had no implications in terms of the work developed but ended up having some financial impact with this partner using in this WP and in the line "Cost of staff assigned to the project" only 59% of the approved budget; the partner IDN (NO) used only 21% of the amount approved in the line "Travel and subsistence allowances for staff" within the international event - one of the project team members could not attend due to health reasons;

WP8 - the financial execution of this WP is 2% lower than the approved amount; it should be noted that the costs of the Closing Public Event and the Communication Instruments in the CIMBAL budget are a bit higher than the approved one (namely because it is bilingual); the partner ENVIROS (RC) also did not use all the budgeted amount for "Travel and subsistence allowances for staff".

Making a brief analysis of the budget deviation by partner:

- CIMBAL - the allocation of expenditure higher than approved (10%) was due exclusively, as already mentioned, to the allocation of the hiring of the Statutory Auditor for supervision of all expenses presented by the partnership;
- Resialentejo - the imputation of only 71% of the approved expense was essentially due to the awarding of the service provision for the development of the Regional Strategy for the Reuse of Construction Products and Components for a value much lower than expected;
- Cercibeja - the allocation of only 79% of the approved expenditure was due essentially (as already mentioned) to the termination of the contract with its employee with the highest allocation to the project even before its end.

#### iv. Description of the Project's contribution to achieving the overall objectives of EEA Grants and the 'Environment Programme'

The (De)construct for Circular Economy project contributed to the implementation of the Programme's objective n. 1: "Increase the application of Circular Economy principles in specific sectors" and of the Programme's Output 1.4, by promoting the Circular Economy in the Construction sector, by promoting the reduction of the use of materials and waste production, in particular by applying innovation at the level of the production chain of construction materials, in accordance with Annex I of the Programme Agreement signed on 27 May 2019.

Since the project integrates the partner International Development Norway, the project also contributes to bilateral relations with donor countries. Thus, the contribution of the partner from Norway also allows to meet the proposed objectives.

The good participation of the partners from Norway, Romania and the Czech Republic in all project activities from the beginning of the project should be highlighted.

The project presents a contribution to the indicators, namely in what regards to the number of SMEs supported, which is visible in the following table.

Indicators		Activity	Project contribution
Objective 1	Increase the application of Circular Economy principles in specific sectors	Construction and Demolition waste avoided in the supported sectors (%)	-
		Number of jobs created (nº)	-
Output 1.4	Increasing resource efficiency in the construction sector	Number of Small and Medium-sized Enterprises supported (nº)	0
		Number of 'Pilot Buildings constructed' (nº)	-
		Number of innovative pilot solutions to increase resource efficiency (nº)	-

#### v. Extra contribution to disseminate the project

The partner FCT NOVA published three scientific articles in peer-reviewed journals, allowing to disseminate internationally the *Baixo Alentejo* region and the results obtained within the project “(De)construct for Circular Economy”, namely:

Ramos, M., Martinho, G., Vasconcelos, L., Ferreira, F. (2023). **Local scale dynamics to promote the sustainable management of construction and demolition waste.**

*Resources, Conservation & Recycling Advances*, 17.

<https://doi.org/10.1016/j.rcradv.2023.200135>

Ramos, M., Martinho, G. (2023). **An assessment of the illegal dumping of construction and demolition waste.** *Cleaner Waste Systems*. 4.

<https://doi.org/10.1016/j.clwas.2022.100073>

Ramos, M., Martinho, G., Pina, J. (2023). **Strategies to promote construction and demolition waste management in the context of local dynamics.** *Waste Management*.

161. <https://doi.org/10.1016/j.wasman.2023.02.028>

Eng. Mário Ramos, from FCT NOVA, also concluded his Ph.D. with the thesis entitled “**Determining factors and strategies to promote construction and demolition waste management on a local scale**”.

The experimental component of the thesis was developed in the *Baixo Alentejo* region, within the project “(De)construct for Circular Economy”, essentially together with the municipal technicians and the representatives of micro and small construction companies, facing specific challenges for construction and demolition waste management. The thesis was written as a compilation of five peer-reviewed articles, comprehending the three mentioned above. This thesis contributes to the lack of data in the scientific literature regarding construction and demolition waste management on local scales and in less developed countries, but also to the absence of data in local territories, making more difficult the decision making processes, whether they are technical or political.

**Projector Promotor**

<b>Name</b>	António Manuel Ascensão Mestre Bota
<b>Date and Signature</b>	
<b>Position</b>	Presidente do Conselho Intermunicipal

**Programme Operator – Secretary General for Environment**

<b>Name</b>	Marco Rebelo
<b>Date and Signature</b>	
<b>Position</b>	Secretary General