

Environment, Climate Change and Low Carbon Economy Programme

'Environment Programme'

European Economic Area (EEA) Financial Mechanism 2014-2021

Structure of the Final Report (nº10)

May 2021 - April 2024

05_CALL#4/SGS#5 – SMILE – Sintra Motion and Innovation for Low Emissions [SMILE]

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.eeagrants.gov.pt/media/2994/applicants-guide-for-financing-eea-grants_environment-projects_28112019.pdf

Index

i. Detailed description

This final report reflects the activities and actions carried out during the last five months of SMILE project, from January to April 2024. It also summarizes and shows the achievements and challenges faced during the whole project.

Activity 1 – Circular Economy and Environment:

Summary of the activity: The Urban Garden has been completed and the app for exchanging surplus food is available. The composting competition at Alfredo da Silva School has been successfully completed with two editions having been held (school year 2022/2023 and 2023/2024). Three additional compost bins were also made available to the Elderly Centre, to João de Deus Kindergarten and Escola Primária de Albarraque. As part of the cycle workshop and repair café, various events were organised, with the participation of the community and the involvement of various volunteers. In terms of implementing the SIRA, the installation of the LoRaWan portal and the acquisition of all the equipment was completed. The system for waste management was developed and integrated into the Sintra SMILE App.

OP 1.1 Urban garden

The Urban Garden has been completed and the app for exchanging surplus food is available. A call for tenders has also been launched to distribute the garden plots to interested candidates. Accessible plots were included in the urban gardens, with a view to greater inclusivity. We've held a workshop called "Agriculture without hoe (no till)" to train the technicians and some community members on regenerative agriculture techniques that will be transferred for the members of the garden, once the applications will be closed and the farmers selected by the municipality. In addition, a micro-forest has been planted next to the gardens, with the participation of a great number of people, where 800 trees/plants were planted in public space. The indicator related to this OP isn't executed yet due to the garden being larger than initially expected, which led to a longer public procurement procedure. The construction of the vegetable gardens was completed during the project, as were the applications for access to them, which were launched in May. The users will be higher than initially considered, however, with applications still ongoing until the beginning of June, there are still no results to be presented.

OP 1.2 Composting

The composting competition at Alfredo da Silva School was successfully completed with two editions of the contest. As part of the closure of the second edition (school year 2023/2024), prizes were awarded to the best performing classes and participation prizes (with the support of SMAS Sintra), in recognition of the involvement of all participants. A bin and training were also delivered to primary school students from Escola Primária de Albarraque, raising awareness and informing them about the proper separation of recyclable waste, including bio-waste.

OP 1.3 Repair Café and Cycle Workshop

The cycle workshop is taking place in the second floor of TABLAB, and it has now a monthly frequency, happening every first Saturday of the month. Nonetheless, the tools and the space are available to the community every week days during working hours. We've participated in the XIV Edition of "Miúdos e Graúdos", activity organized by the local partner ARCBT. Also, the volunteer has given a workshop in Escola B/S Alfredo da Silva about the basics of reparation of bicycles to thirty-seven students of two different classes. Related to the repair cafe, similarly to cycle workshop, the tools and the space are now available for anyone who is interested in using them. In order to complement the free use of the tools, we have created "Café Convívio e Costura" that takes place every Wednesday in the morning, where a volunteer fixes clothes and teaches who is interested in learning how to sew. The two activities secured its sustainability through the work of the volunteers.

OP 1.4 Watering system

As part of the implementation of the SIRA, the purchase of the system's equipment was completed. The indicator related to this OP isn't executed due to the different issues that arose during the implementation. Some challenges were encountered, particularly with regards to the analysis of technical forecasts for the location to implement the system as well as the necessary coordination between the management of green spaces and the parish council. The Parish Council has delegated responsibility to ensure coordination between the Municipality and the Parish Council. The equipment was purchased and made available for installation and is currently in the implementation process, in coordination with the Parish Council and the Municipality for this purpose. With regards to technical analysis, the process was longer than expected since given the neighbourhood's arboreal situation, it was not possible to install it in several locations in the neighbourhood with apparent potential, but after analysis it could damage the roots of existing trees.

OP 1.5 Waste Management System

The system was moved from the testing application to the production Sintra SMILE app and made available to all the users. The indicator related to this OP isn't fully achieved because it depends on the adherence of the Tabaqueira neighbourhood residents, where 40% of them are elderly people. Many of them don't have smartphones and this widget of the app could only be used by residents that do recycle their waste in the local bins.

Activity 2: Sustainable Urban Mobility

Summary of the activity: The project followed-up with the conclusion of the main technical and operational tasks, considering all the four operations. Additional work regarding the adaptation of the software for the various OPs was done along the operationalization of the operations.

OP 2.1 People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)

This OP was on-going with delays due to the issues raised by the Greater Lisboa Area Authority, which lead to the alternative model, based on a tri-shaw in partnership with Pedalar Sem Idade (PSI), described on the previous reports. During this period it was concluded, including the delivery of the vehicle, training of volunteers and of the captain, and organization of the procedures between SMILE and PSI teams occurred and the operation of serving the population started with a total of around sixty-two users, showing great interest by the population and local institutions. The number of services was not yet increased due to the need of more availability of volunteers, which is now being promoted towards increasing the availability of the service after the end of the project, which will be running at least until 31st of December 2024.

OP 2.2 "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle

During this period the OP was concluded, including the delivery of the vehicle, training of volunteers and organization of the procedures between SMILE and the first merchants, and the operation of serving the population started. However, short traction from the merchants and population revealed, in contradiction with the need identified during the setup phase of the project. Merchants fell back regarding the issue of the pre-payment and population, although demonstrated initially interest in the service, does not really request it, and even less by using the App. This impact took the consortium to rethink once again the type of service and two ideas came out, and will be implemented, even after the official finishing of the project, and will be running at least until 31st of december 2024. The first idea is to, instead of requesting the population to ask the merchants to prepare an order, pay it and have the volunteers performing a route to collect from several merchants and deliver to several households, be present in the traditional marketplace or direct exchanges market, on days that the population normally goes shopping, and offer a "cargo bike" based "bring home" service. This maybe will lead the population to perform a more complete shopping at the traditional market, since the older population would not have the limitation to carry heavy weights back home. The second idea is to use the same "cargo bike" service to collect dry materials (e.g. leaves) which are normally difficult to transport, and take them to a small warehouse, where the materials can be stored and then use again the cargo-bike to take the materials to the composting process (also implemented on the SMILE project). This would help to solve one of the weaknesses found during the project, related to the collection and storage of dry materials to the composting process. For this reason, the indicator related to this OP is lower than expected.

OP 2.3 Safe Parking

This OP has been on-going with delays due to the issues related with the renovation of the TABLAB building, interior and exterior spaces. During this period, it was concluded, including the delivery of access control to the parking space, the structures for holding and locking the bikes, the bamboo contactless cards that, matching with the Sintra SMILE App QR-code, can be used to access the building parking space. The service will be available to populations, even after the official finishing of the project, and will be running at least until 31st of december 2024, and most probably afterwards. Additional cross-promotion between the usage of the App Sintra SMILE, measuring foot and bike travels, with the usage of the bamboo card to park and unpark frequently the private bike, will offer the population ClimaS (climatic points) that they can use for exchange on discounts on Sintra Parks and Culture, of planting a tree on the Sintra planting even on the 23rd of november. This is expected to increase traction on the usage of both the bike parking service and the Sintra SMILE App, in addition to the bike sharing service, also included in the loop of circular economy. The indicator related to this OP isn't fully achieved because we are facing some mechanic issues to ensure safety in the park, but many residents have already shown interest in using regularly the service once is fully available.

OP 2.4 Shared Bikes



This OP was on-going with delays due to the issues related with the renovation of the TABLAB building, interior and exterior spaces and the redefinition due to budget issues. During this period, it was concluded, including the delivery of the bike parking docks, the solar charging panels, and the bikes. The service will be available to the population, even after the official finishing of the project, and will be running at least until 31st of december 2024, and most probably afterwards. Additional cross-promotion between the usage of the App Sintra SMILE, measuring foot and bike travels, with the usage of the bike sharing service, will offer the population ClimaS (climatic points) that they can use for exchange on discounts on Sintra Parks and Culture, of planting a tree on the Sintra planting even on the 23rd of november. This is expected to increase traction on the usage of both the bike sharing service and the Sintra SMILE App, in addition to the bike parking service, also included in the loop of circular economy. The indicator related to this OP isn't achieved so far because of some issues faced in the installation. Nonetheless, the service will be running within few weeks.

Activity 3 – Energy

Summary of the activity: The installation of the UPAC at Alfredo da Silva School has been completed (installation of the inverters, meters and connections between the inverters and the electrical panel inside the school). The photovoltaic plant is producing energy at the moment, in a limited way (it only produces according to the building's consumption needs). This limitation will be removed once the UPAC will be licensed. The inspection to issue the certificate has already been carried out, awaiting Sintra City Council to finalize the necessary documents (TRE declaration and Civil Liability Insurance). The internal regulations for submitting the Auto Consumo Coletivo (ACC) – Community of Self-Consumption – are also on the making. After that, it will be possible to license the ACC. Operation and management activity have been running smoothly throughout the project, with no anomalies to report.

OP 3.1 REC Model Requirements Survey

This OP is concluded.

OP 3.2 REC Support Infrastructure Development

The application was configured with all the members of the ACC and accounts were created for each of the forty-six members. Telemetry data is available for the school because were installed devices to measure energy production and consumption as part of the Photovoltaic installation. Data from the other

members will be supplied from the DSO (e-redes) and made available on the platform when the ACC is approved. The platform operation is just waiting for data supplied by the DSO to exchange energy between the members. The indicator related to this OP

OP 3.3 REC Installation

This OP is concluded.

OP 3.4 REC Maintenance

Operation and management activity have been running smoothly throughout the project, with no anomalies to report. As the ACC licensing isn't finished there wasn't yet the need to maintain or improve the management platform and for that reason, D3.4.2 isn't delivered.

Activity 4 – Buildings

Summary of the Activity: This activity has achieved a large proportion of its goals and has created new solutions, not previewed in the initial project text, to achieve the goal of addressing the Energy Efficiency Promotion. The final deliverables were produced.

OP 4.1 Model Requirements Survey

This OP is finalized.

OP 4.2 Solution Development

During this report period maintenance and improvement tasks have been undergone by the Watt-IS team to improve the user experience for the "Virtual Energy Manager" solution.

OP 4.3 Local Program for Energy Efficiency Promotion

This OP is generally finalized. It was possible to involve 68% of the initially proposed number of dwellings in the Energy efficiency program, and the rest of the objectives were surpassed. The initial indicator was very demanding, not addressing properly the demographic composition of the neighborhood.

The creation of the Gabinete de Eficiência Energética, was consolidated and became the genesis of the same service offered to a larger community than the one limited by the neighborhood.

OP 4.4 Monitoring and Evaluation of the solutions

This OP is finalized.

Activity 5 – Transversals Activities: Community, Art and Culture

Activity Summary: Overall, this activity has contributed for the success of the project, as the activity responsible for coordination, implementation, evaluation and communication of the project. The main outcome that summarizes the whole process is the impact that the project is having in the neighbourhood and the commitment that all consortium members have shown to continue the work until the end of 2024.

OP 5.1 Consortium Management and Project Governance

We have held the 12th consortium meeting, finalizing the visits to each partner's office, where members of Secretaria Geral do Ambiente (SGA) have also participated and helped the consortium members taking decisions about the project. We also held the 4th steering committee meeting under the topic of Energy and Buildings from where we received some important guidelines. Several meetings took place to set up all the necessary details for the implementation of the different actions.

Due to different delays during the project as the gathering place or the challenges caused by the covid19 pandemic and the prices escalation of the war between Russia and Ukraine, we did not hold all the meetings proposed initially in the contract. Towards the end of the project, we understood that we were holding the meetings that were necessary to achieve the project goals instead of forcing more meetings to compensate the ones delayed. So, in total we had 4 out of 6 steering committee meetings and 4 out of 6 residents' assemblies, and that also reflects on the number of deliverables.

On the 12th of January we received an audit on sight done by "Agência para o Desenvolvimento e Coesão". On the 19th of March we received the second audit and visit to the project done by Salgueiro Consulting for Sustainability, where all partners have participated. And on the 13th of March we took part of the session organised by SGA to support every living lab in the closing period.

OP 5.2 Community Participation and Involvement

During this period the IV LEPAC residency was concluded, with an exhibition with different art pieces made from bicycle parts, and a reinvented cycle lane to promote the use of more sustainable ways of transport. This last event was also the event that gathered all four residency artists and was used to conclude and wrap up all the good contributions that the artists have done to the project and the neighbourhood.

With a clear intention we have supported the local association ARCBT organizing and holding a celebration afternoon of the "Women's day" on the 8th of March, where women like the Rio de Mouro parish president, Tabaqueira's head of sustainability office and the SMILE's project coordinator were distinguished for the work they are doing to help improve and advance Tabaqueira neighbourhood. During the last three years we have supported ARCBT events because partnership relations are built on mutual investment.

OP 5.3 Monitoring, Assessment and Sustainability

All the activities and actions in the project were thought and designed to have a continuity, either by involving the necessary stakeholders, either by involving community members and volunteers. During the project every three months we assessed how the work has been evolving as performed some adjustments. We did evaluate some actions to improve them. The last evaluation report aims to show the overall reflection on how the project evolved and what stays for the continuity of this living lab that will continue its work at least until the end of 2024.

The Living Lab Management Platform is operational and exhibited in the entrance of TABLAB, nonetheless the responsibility of the data gathering is not responsibility of the management platform as it was initially considered, so the two indicators are not adjusted to the platform created.

OP 5.4 Communication and Dissemination

The "Ambienta-te" rubric released four more articles: Urban gardens (January), Carbon sinks (February), Consumerism Society (March), Community Participation (April), and we've also kept on using the projects' social media platforms to engage with a wider range of people, outside the neighbourhood. Moreover, we've designed and delivered four activities to share our knowledge with the project stakeholders.

[1]: "Plastic: awareness raising": three classes of Jardim Escola João de Deus had the possibility to learn about the origin of plastic and to experiment two machines, one that crushes the plastic into small pieces and another one that melts the small pieces and gives the possibility to create new materials.

[2]: Presentation about sustainable building materials: a presentation requested by the local basic school, where the teacher has challenged the project to inspire an 8th grade class to know more about sustainable buildings and materials, in order for them to propose a group project.

[3]: Composting goes to the primary school: the local primary school started composting with their students because of the results seen in the basic school. The director asked the project to teach the students from the 1st to the 4th grade, and that happened through different games.

And because we approach the end of the project, we held three events to share the results and were invited to one organised by Cascais living Lab.

[4]: "Reforest the School": an action divided into 3 sessions where all the students from Albarraque Primary School helped clean up the garden area, created and learn about seed bombs and lastly planted some bushes and small trees and thrown the seeds into the garden. It was an action participated by teachers, students and parents.

[1] Visit of Promoter Interreg: this project visited TABLAB with all the stakeholders and was inspired by the work done in the project.

[2]: The closing event of SMILE project: where members of the financing mechanism, the operator and from the consortium, as well as stakeholders and community have attended and where the results were shared and celebrated.

[3]: PedyPaper for sharing results: a session organized for three classes of Santa Maria Secondary School where the students through a group challenge have learned about the results, that later were confirmed by our presentation and selection of the winning team.

[4]: Cascais Smart Pole closing event: we've been invited to take part of this event to share our results and create a bond with the neighbour living lab. To communicate with all the residents in the neighbourhood and all visitors of TABLAB, we've created a booklet with all the services, tools and opportunities that TABLAB offers. We have also created four videos, both in Portuguese and English as guidelines of the four pillars of our project. Lastly, a local artist has been invited to embellish the inferior floor of TABLAB with designs of the narrative of the neighbourhood that the project tried to create. A place for bicycles, nature and environmental conscious actions. A new coat of arms was also created.

OP 5.5 MySMILE APP

During this period, it was concluded, including the launch of the App, start of collection of data and calculation of overall indicators. The work with Sintra Municipality towards finding climate partners to be present on the app, offers the citizens offers and discounts that motivate them towards having good and sustainable habits. A partnership with Sintra/ICNF was created because every year they organize on the 23rd of November the day of planting trees, and population who collect ClimaS (climate coins) can now exchange ClimaS for trees to be planted on this event, the target is to plant 1.500 trees and on the first 2 weeks of App usage about 30 trees were reserved to be planted. To communicate the app, we have created some stickers that we have spread all over the neighbourhood with QRcodes, either in electricity poles and in the trash and recycle bins.

OP 5.6 Benchmarking

The webinars and the local exhibition were delivered, and the knowledge shared did contribute to our better understanding of the concept of living labs and how it has been applied in Europe.

The following table shows the consortium involvement, the number of participants and the name of the deliverables and evidences that can be found attached to this report:

Table 1 – Consortium involvement, number of participants, deliverables and evidences

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
1	OP 1.1 Urban garden	IrRADIARE, CMSintra, AKF	17 people planting the microforest 10 trainees	D1.1.1 Guia utilização HUC - agricultura biológica D1.1.2 Relatório síntese OP1.1	OP1.1 Relatório_Abertura de candidaturas às hortas comunitárias OP1.1 FP Plantação Microfloresta OP1.1 FP Formação Agricultura sem Enxada OP1.1 Material Formação Agricultura Sem Enxada Parte Prática OP 1.1 PDF Formação Agricultura sem Enxada OP1.1 Relatório_Plantação da Microfloresta OP1.1 Relatório_Agricultura Sem Enxada
	OP 1.2 Composting	IrRADIARE, CMSintra, AKF	163 students	D1.2.2 Relatório síntese da OP1.2	
	OP 1.3 Repair Café and Cycle Workshop	FCUL, AKF, CMSintra	2 Sewing and Coffee 4 cycleworkshop participants 37 students	D1.3.2 Relatório de utilização e adesão às iniciativas de sensibilização e dinamização	OP1.3 FP Cafe Convivio Costura OP1.3 FP Demonstração Escola Cicloficina OP1.3 FP Cicloficina
	OP 1.4 Watering system	IrRADIARE, CMSintra		D1.4.1 Manual de Apoio D1.4.2 Relatório síntese	
	OP 1.5 Waste Management System	Innovation Point, AKF			OP1.5 Aplicação disponível nas app stores

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
2	OP 2.1 People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)	<ul style="list-style-type: none"> - Card4B - overall IT solution and technical coordination - Sintra Municipality - requirements definition and Support on the EV trishaw procurement and agreement with PSI - IrRADIARE and I9Point - procurement of shuttle alternatives, including trishaw - AKF - Support to the meetings and operational coordination - FCUL - architectural plan proposal and Support on operation definition 	62 users	<ul style="list-style-type: none"> D2.1.3 Disponibilização de Mini-Shuttle Eléctrico D2.1.4 Relatório de utilização e adesão à iniciativa com Mini-Shuttle Eléctrico 	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
	OP 2.2 "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle	<ul style="list-style-type: none"> - Card4B - overall IT solution and technical coordination - Sintra Municipality - requirements and space implementation - IrRADIARE and I9Point - procurement of mini electrical vehicle recovery, and cargo-bike afterwards - AKF - Support to the meetings and operational coordination - FCUL – architectural plan proposal and Support on operation definition, support in analyzing solutions for the battery system replacement of the EV, and cargo-bike afterwards 	22 delivers	<ul style="list-style-type: none"> D2.2.3 Disponibilização de Mini-Veículo Eléctrico D2.2.4 Relatório de utilização e adesão à iniciativa com Mini-Veículo Eléctrico 	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
	OP 2.3 Safe Parking	<ul style="list-style-type: none"> - Card4B - overall solution and integration with bike parking / indicators and app systems, and technical coordination - Sintra Municipality - requirements and space implementation - FCUL - Support on operation definition and equipments selection - AKF - Support to the meetings and operational coordination 	1 user	<ul style="list-style-type: none"> D2.3.1 Disponibilização de estacionamento de bicicletas próprias D2.3.2 Relatório de utilização e adesão à iniciativa 	OP2.3 FP Estacionamento Seguro
	OP 2.4 Shared Bikes	<ul style="list-style-type: none"> - Card4B - overall solution and integration with bike sharing system, and technical coordination - Sintra Municipality– requirements and space implementation - FCUL - Support on operation definition - AKF – Support to the meetings and operational coordination - DST solar - bike charging solution 		<ul style="list-style-type: none"> D2.4.1 Implementação das docas D2.4.2 Disponibilização do sistema digital de requisição (V2) 	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
3	OP 3.2 REC Support Infrastructure Development	Innovation Point, DSTSolar, AKF, FCUL, Watt-IS, CMSintra			OP3.2 Disponibilização da plataforma de gestão global da CER
	OP 3.4 REC Maintenance			D3.4.1 Maintenance of the CER's physical infrastructure D3.4.3 Manutenção e melhoria dos módulos de análise inteligente de dados	
4	OP 4.2 Solution Development	Watt-IS		D4.2.3 Integração dos módulos de "data analytics" com a plataforma de gestão global da CER	
	OP 4.3 Local Program for Energy Efficiency Promotion	FCUL, Watt-IS, AKF		D4.3.3 Relatório de impacto de envolvimento comunitário do programa	
	OP 4.4 Monitoring and Evaluation of the solutions			D4.4.2 Relatório final de monitorização e quantificação de resultados atingidos	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
5	OP 5.1 Consortium Management and Project Governance (consortium meetings, activity meetings, steering committee, residents assembly)	All consortium members	2 new steering committee members	D5.1.1 Reuniões Conselho Consultivo semestrais (iv) D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo (iv) D5.1.4 Reuniões regulares do Consórcio (xii)	OP5.1 SMILE_Auditoria_12.01.2024_ADC OP5.1 SMILE_auditoria_19Março_Salgueiro OP5.1 Reunião Acompanhamento_SGA_Mar2024
	OP 5.2 Community Participation and Involvement	AKF, IrRADIARE, FCUL, CMSintra		D5.2.1 Instrumentos facilitadores da participação da comunidade D5.2.2 Relatório síntese da webApp-SEEDS D5.2.3 Intervenções artísticas participadas (iii)	OP5.2 2024_03_08_Dia_Mulher_1 OP5.2 2024_03_08_Dia_Mulher_2
	OP 5.3 Monitoring, Assessment and Sustainability	All consortium members		D5.3.2 Relatório Final	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
	OP 5.4 Communication and Dissemination	AKF, IrRADIARE, CMSintra	31 students in peddypaper 34 Promoter 61 Plásticos 30 Evento Final 103 alunos compostagem 20 students presentation 99 primary school students	D5.4.1 Relatório Síntese	OP5.4 Peddy paper SMILE - Disseminação OP5.4 FP Partilha de resultados ES Santa Maria_PeddyPaper OP5.4 SMILE_Presentation-PROMOTER_Interreg OP5.4 FP Disseminação Promoter OP5.4 FP Apr Construção Sustentável OP5.4 Apresentacao_Construção sustentável OP5.4 FP Oficina de plásticos Jardim Escola João de Deus OP5.4 SMILE_CascaisSMart Pole OP5.4 CascaisSmartPole_Disseminação OP5.4 FP Apresentação Final de Resultados OP5.4 FP compostagem na escola primaria Albarraque OP5.4 SMILE - Livreto TABLAB OP5.4 Publicacao-SMILE#Maio2024_A4 OP5.4 FP compostagem escola primária OP5.4 SMILE - EN - Economia Circular e ambiente - GUIA1 OP5.4 SMILE - EN - Mobilidade urbana sustentável - GUIA2 OP5.4 SMILE - EN - Energia e Edifícios - GUIA3 OP5.4 SMILE - EN - Comunidade, arte e cultura - GUIA4 OP5.4 SMILE - Video EN - Economia circular e ambiente OP5.4 SMILE - Video EN - Mobilidade urbana sustentável OP5.4 SMILE - Video EN - Energia e Edifícios OP5.4 SMILE - Video EN - Arte e Cultura OP5.4 Relatório intervenção artística oficinas TABLAB OP5.4 Relatório ação Refloresta a Escola OP5.4 FP Ação Refloresta a Escola
	OP 5.5 MySMILE APP	- Card4B - overall solution - All partners - contribution about each activity for the use cases and App integration AKF - app promotion		D5.5.1 Compilação da Aplicação MySMILE (versão final)	

Summary of the activity execution	Status of OP execution	Consortium involvement (especially the donor countries)	Nr of Participants	Deliverables	Evidences
	OP 5.6 Benchmarking	IDNorway, AKF		D5.6.1 Compilação dos conteúdos dos webinaries D5.6.2 Relatório da visita guiada e workshop D5.6.3 Relatório Final	

As a final report, we would like to highlight some major achievements of its implementation:

- **OP1.1** – Community Garden – the implementation took longer than expected but the area is larger than the one proposed in the project and its future management is secured by the partnership between CMSintra and AKF. Additionally, we have also planted a microforest composed by 800 trees/plants.
- **OP1.2** – Composting goes to school – two competitions were held to help enhance the learnings from “Natural Sciences” and the competition inspired three more institutions in the neighbourhood to start composting: Centro Social de Reformados e Idosos de Albarraque, Jardim Escola João de Deus and Escola Primária de Albarraque.
- **OP1.3** – Repair Café – this operation evolved from sporadic events to a self-use workshop available to anyone interested in using the tools in TABLAB. It has also ramified into a sewing weekly activity led by a community member. Moreover, the repair café events and the volunteers are now holding events in a much populated area of the municipality, in Tapada das Mercês.
- **OP1.3** – Cycle workshop – it is running by itself with available tools for the use of anyone interested and with the collaboration of one volunteer every first Saturday of the month.
- **OP2.1** – People's Mobility with the electric Mini-Shuttle – The use of the trishaw has been an adaptation of the initial proposal but it has been a great solution for the neighborhood, especially for the residents of Centro Social de Reformados e Idosos de Albarraque and Lar Bella Persona. The isolation and lack of mobility are two of the main challenges faced by the residents of Bairro da Tabaqueira, so this solution came up as a match between environmental and social issues.
- **OP2.3** – Safe Park – we have implemented the first indoor and free of charge safe park for bicycles in the municipality of Sintra.
- **OP2.4** – Shared Bicycles – we have implemented the first set of shared bicycles in the municipality of Sintra.

- **OP3.3** – REC Installation – We’ve registered 45 households and Alfredo da Silva School in the “Autoconsumo Coletivo”, as for now it is the ACC with bigger number of participants (the access was free of charge).
- **OP4.3** – Local Program for Energy Efficiency Promotion – the creation of “Gabinete de Apoio à Eficiência Energética” wasn’t planed in the initial design of the project, but it was the first of its kind to be opened in the municipality of Sintra and supported by Rio de Mouro Parish. CMSintra is already trying to implement a similar service to respond to the needs of the whole municipality and ADENE (Agência para a Energia), is learning from our experience as part of a movement to create more services like this in the country.
- **OP5.2** – Community participation – LEPAC arts residencies were a success, leaving a great footprint of memories in the public space of the neighbourhood, from big murals to outdoor exhibitions, rehabilitation of the lake, to addressing the issue of invasive plant species to rolling non identified objects, the artists managed to link art with a message and with community participation.
- **OP5.5** – SintraSMILE app – we’ve launched the app and we’ve managed to capture the interest of many sustainability enthusiasts, adding to it the opportunity to buy trees and plant them in Sintra municipality.
- **The project as a whole** – We have used fully the TABLAB and started developing a narrative around it “an open door to a sustainable future”.

Overall, the chronogram of the activities approved in the contract hasn’t suffered any changes. All the OP’s are executed but minor details are yet to be implemented and those are explained in the collum called “Observations”.

Table 2 – Status of chronogram of activities

Description	Name of Activity	Beginning	End	Status	Observations
OP 1.1. urban garden	Circular economy and environment	01/05/2021	30/04/2024	Executed*	The garden is available, and the applications are open until the 5 th of June in Sintra Municipality website. 14 farmers will be selected mid-June and begin using the garden in July.
OP 1.2. composting		01/09/2021	31/05/2023	Executed	
OP.1.3. Repair Café and cycle workshop		01/05/2021	30/04/2024	Executed	
OP 1.4. Watering system		01/05/2021	31/08/2023	Executed*	The system was acquired, and the design of the implementation is concluded. It awaits the authorization for the last execution.
OP 1.5. Waste Management System		01/05/2021	30/11/2022	Executed	

Description	Name of Activity	Beginning	End	Status	Observations
OP 2.1- People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)	Mobility	01/06/2021	30/04/2024	Executed	
OP. 2.2- "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle		01/05/2021	30/04/2024	Executed	
OP2.3 - Safe Parking and Shared Bikes		01/05/2022 (2RI)	30/04/2024	Executed*	The safe parking is half concluded, it has been used as storage because the main gate and the intermediate door aren't yet finalized
OP 2.4 Smooth Mobility - Shared Bikes		01/05/2021	30/04/2024	Executed*	The station, the bicycles and the solar panels are operational. Only the app that coordinates the service is yet to be launched by Soltrafejo
OP 3.1 - REC Model Requirements Survey	Energy	01/05/2021	31/03/2022	Executed	
OP 3.2 - Development of the Infrastructure to support the Energy Community		01/01/2022	30/04/2023	Executed	
OP 3.3 - REC Installation		01/05/2022	31/01/2023	Executed	
OP 3.4 - REC Maintenance		01/02/2023	30/04/2024	Executed	
OP 4.1 - Survey and Specification of Requirements	Buildings	01/05/2021	31/01/2022	Executed	
OP 4.2 - Desenvolvimento da Solução		01/10/2021	30/04/2023	Executed	
OP 4.3 - Local Programme for Energy Efficiency Promotion		01/10/2021	30/04/2024	Executed	
OP 4.4 - Monitoring results, improvement and follow-up of solutions provided		01/08/2022	30/04/2024	Executed	
OP 5.1- Consortium Management and Project Governance	Coordination and Management	01/05/2021	30/04/2024	Executed	
OP 5.2-Community Participation and Involvement		01/05/2021	30/04/2024	Executed	
OP 5.3- Monitoring, Assessment and Sustainability		01/05/2021	30/04/2024	Executed	
OP 5.4- Communication and Dissemination		01/05/2021	30/04/2024	Executed	
OP 5.5- MySMILE APP		01/05/2021	30/04/2024	Executed	
OP 5.6- Benchmarking		2021-05-01/12/2021	30/04/2024	Executed	

ii. Results achieved

The following table shows the indicators and their percentage of execution for this period (January - April 2024) and the cumulative results since the beginning of the project.

Table 3 – Targets and % of Execution

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 1.1 Urban Garden	No. of users of vegetable garden plots	Nº	10	0	0	0	0	0	0	0	0	0	0	0	0%	
OP 1.2 Composting	No. of students participating in the composting competition	Nº	140	0	163	0	0	253	0	0	0	0	0	416	297%	
OP 1.3 Repair Café and Cycle Workshop	No. of Repair Café users	Nº	40	0	35	0	0	10	0	0	0	0	0	45	113%	
OP 1.3 Repair Café and Cycle Workshop	No. of activities, promotion and demonstration sessions in the scope of the SMILE Cycle Workshop	Nº	5	1	1	0	1	2	1	1	0	0	0	7	140%	OP1.3 Report on the use and adhesion to Cycle Shop awareness and dynamisation initiatives
OP 1.3 Repair Café and Cycle Workshop	No. of users of the Cicloficina (regulares)	Nº	20	4	7	7	8	10	8	0	0	0	0	44	220%	OP1.3 Attendance sheets of CycleWorkshop
OP 1.4 Watering system	Water saving	m3	68	0	0	0	0	0	0	0	0	0	0	0	0%	
OP 1.5 Waste Management System	No. of waste collection points registered on the platform	Nº	7	0	0	0	0	35	0	0	0	0	0	35	500%	

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 1.5 Waste Management System	No. of users of the waste system	Nº	60	9	0	0	0	0	0	0	0	0	0	9	15%	OP 1.5 Usage Statistics - Waste Management System
OP 2.1 People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)	No. of service uses	Nº	5000	62	0	0	0	0	0	0	0	0	0	62	0,1%	OP2.1_Usage Statistics_Passengers
OP 2.2 "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle	No. of service uses	Nº	400	22	0	0	0	0	0	0	0	0	0	22	6%	OP2.2_Usage Statistics_Cargo_bike
OP 2.3 Safe Parking	No. of users of secure bicycle parking	Nº	10	1	0	0	0	0	0	0	0	0	0	1	10%	Report on the use of and adherence to the Safe Parking initiative
OP 2.4 Shared Bikes	Total no. of shared bicycles utilisations	Nº	1000	0	0	0	0	0	0	0	0	0	0	0	0%	
OP 3.1 REC Model Requirements Survey	Document specifying the requirements and graphical model of the platform	Nº	1	0	1	0	0	0	0	0	0	0	0	1	100%	
OP 3.3 REC Installation	Installed power	kW	50	0	0	0	50	0	0	0	0	0	0	50	100%	
OP 3.4 REC Maintenance	Annual reduction in energy purchased from the supplier	MWh	65	37,19	23,17	6,35	0	0	0	0	0	0	0	67	103%	OP3.4 CER energy management platform - Annual reduction in energy purchased from the supplier
OP 3.4 REC Maintenance	Annual reduction in CO2 emissions	ton CO2	16,8	17,66	10,88	3,03	0	0	0	0	0	0	0	32	188%	OP3.4 CER energy management platform - Annual reduction in CO2 emissions
OP 3.4 REC Maintenance	Annual operating and maintenance report	N.º	2	1	1	0	0	0	0	0	0	0	0	2	100%	OP3.4 Annual operation and maintenance reports

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 3.4 REC Maintenance	Absolute percentage delta between estimate and production	%	20	7,7	0	0	0	0	0	0	0	0	0	8	39%	OP3.4 Annual operation reports
OP 4.3 Local Programme for Energy Efficiency Promotion	Identification of potential reduction in consumption by implementing energy efficiency measures	%	24%	62%	0	0	0	0	0	0	0	0	0	62%	258%	OP4.3 Consumption monitoring and energy advice platform
OP 4.3 Local Programme for Energy Efficiency Promotion	Effective reduction in consumption through the adoption of energy efficiency measures	%	14%	15%	0	0	0	0	0	0	0	0	0	15%	107%	OP4.3 Consumption monitoring and energy advice platform
OP 4.3 Local Programme for Energy Efficiency Promotion	Percentage of dwellings (of all dwellings in Tabaqueira neighbourhood - 306- 40% = 122 dwellings) involved in the local energy audit programme	%	40%	0%	6%	0	2%	3%	0	3%	5%	9%	0	27%	68%	

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 4.3 Local Programme for Energy Efficiency Promotion	Percentage of reduction of hidden energy poverty in the population covered by the local programme for promoting energy efficiency	%	10%	15%	0	0	0	0	0	0	0	0	0	15%	150%	OP4.3 Community Involvement Impact Report of the Local Energy Efficiency Promotion Programme
OP 4.3 Local Programme for Energy Efficiency Promotion	No. of training and awareness-raising sessions organised in the scope of the local programme for the promotion of energy efficiency	Nº	4	0	1	0	0	2	0	1	0	0	0	4	100%	
OP 5.1 Consortium Management and Project Governance	No. and type of partners (extra consortium) that are part of the advisory board and/or No. of guidelines recommendations produced	Nº	5	2	2	5	4	0	0	0	0	0	0	13	260%	OP5.1 FP IV RN Conselho Consultivo

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 5.2 Community Participation and Involvement	No. of residents participating in the assemblies	Nº	50	0	30	0	0	10	0	0	17	32	0	89	178%	
OP 5.2 Community Participation and Involvement	No. of participants	Nº	100	0	0	22	0	10	31	51	0	9	0	123	123%	
OP 5.2 Community Participation and Involvement	Nº of residents participating in activities	Nº	6	0	0	0	0	0	8	0	5	0	0	13	217%	
OP 5.2 Community Participation and Involvement	Nº of residents leading/taking responsibility for activities (PSI)	Nº	15	2	2	0	0	7	5	1	0	0	0	17	113%	OP5.2 FP formação voluntarios PSI
OP 5.3 Monitoring, Assessment and Sustainability	Living lab management platform	Nº	1	1	0	0	0	0	0	0	0	0	0	1	100%	OP 5.3 Online address and screenshots
OP 5.3 Monitoring, Assessment and Sustainability	Monthly measurement rates of the monitoring system	%	90	N/A	0	0	0	0	0	0	0	0	0	0	0%	
OP 5.3 Monitoring, Assessment and Sustainability	No. of registrations and measurements of consumption per year	Nº	7884	N/A	0	0	0	0	0	0	0	0	0	0	0%	
OP 5.3 Monitoring, Assessment and Sustainability	No. of mid-term and final reports	Nº	6	0	1	1	1	1	1	1	1	1	0	8	133%	
OP 5.3 Monitoring, Assessment and Sustainability	No of beneficiaries covered by the project	Nº	500	777	335	79	53	483	39	457	123	425	0	2771	554%	OP5.3 Interim and final reports measuring residents' participation in the various activities

Operation	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
OP 5.4 Communication and Dissemination	Nº of communication events (cascaissmartpole)	Nº	2	1	0	0	0	0	1	0	0	0	0	2	100%	OP 5.4. synthesis report
OP 5.4 Communication and Dissemination	No. of Art-Science co-creation activities within the Communication and Dissemination plan	Nº	2	1	2	1	0	0	0	0	0	0	0	4	200%	OP5.4 Final report of Dissemination and Communication Activity
OP 5.5 MySMILE APP	No of users	Nº	250	291	0	0	0	0	0	0	0	0	0	291	116%	OP5.5 Usage Statistics - AppSintraSMILE
OP 5.6 Benchmarking	No of webinars and face-to-face workshops held	Nº	3	0	3	0	0	0	0	0	0	0	0	3	100%	

Overall, we have a percentage of execution of 70,2% of the indicators presented above, meaning that from the 37 indicators we have finalized and surpassed 26 of them. The 11 indicators not reached, 6 weren't fully achieved with different percentages of execution, and 5 haven't been executed at all. The reasons have been explained in the narratives of the different OPs presented above in the section "i. Detailed description".

Related to the communication plan, the indicators' execution status is presented in the following table.

Table 4 – Communication Targets

Communication Plan	Indicator	Unit	Target	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1	Target achievement until report date (cumulative)	% of Execution	Verification Source
Communication Plan	Press Articles	Nº	10	8	26	6	9	11	1	1	0	0	0	62	620%	Clipping Media
Communication Plan	Workshop to share the project results	Nº	1	1	0	0	0	0	0	0	0	0	0	1	100%	Evento Final de partilha de resultados Santa Maria
Communication Plan	Sessions in secondary schools/universities from Sintra	Nº	4	2	0	0	0	1	0	1	0	0	0	4	100%	Ação de disseminação SMILE_Materiais Sustentáveis resultados Escola Secundária
Communication Plan	Events of raising awareness and sharing knowledge	Nº	3	1	0	0	0	2	0	0	1	1	0	5	167%	Relatório ação Refloresta a Escola
Communication Plan	Events of dissemination of the project (1st, 4th [Jan-Jun2023] and 6th semester [Jan-Apr2024])	Nº	3	0	0	1	1	1	0	0	0	0	1	4	133%	SMILE_Dissemination-PROMOTER_Interreg
Communication Plan	Final Report stating the Project results	Nº	1	1	0	0	0	0	0	0	0	0	0	1	100%	Final Report stating the Project results
Communication Plan	Sustainability guidebooks (one per activity)	Nº	4	4	0	0	0	0	0	0	0	0	0	4	100%	SMILE - PT - Economia Circular e ambiente - GUIA1 SMILE - PT - mobilidade urbana sustentável - GUIA2 SMILE - PT - Energia e Edifícios - GUIA3 SMILE - PT - Comunidade, arte e cultura - GUIA4
Communication Plan	Website	Nº	1	0	0	0	0	0	0	0	0	1	0	1	100%	

The indicators from the Communication Plan were all achieved, eight out of eight. In three out of the eight we have managed to do more than agreed in the contract as it made sense according to the partnerships built during the project and the opportunities that came up.

In the table below, we present the following table “Deliverables Chronogram” showing the final situation of their hand over. In dark green we represent the contracted deliverables and the deliverables sent in this report or in the previous ones. In yellow, the tracking of the delays presented in previous reports. In red is shown the deliverables not handed over. The reasons are explained in the narratives of the different OPs presented above in the section “i. Detailed description”. The reporting period is highlighted by the red line.

TABLE 5 – Deliverables Chronogram

	2021					2022					2023					2024								
	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
Activity 1																								
OP1.1 Community Garden																								
D1.1.1 Guia utilização HUC - agricultura biológica																								
D1.1.2 Relatório síntese OP1.1																								
OP 1.2 Composting																								
D1.2.1 Guia de Compostagem																								
D1.2.2 Relatório síntese da OP1.2																								
OP 1.3 Repair Café and Cycle Workshop (Ciclo-Oficina)																								
D1.3.1 Implementação da Ciclo-Oficina de Bicicletas																								
D1.3.2 Relatório de utilização e adesão às iniciativas de sensibilização e dinamização																								
OP 1.4 Watering system																								
D1.4.1 Manual de Apoio																								
D1.4.2 Relatório síntese																								
OP 1.5 Waste Management System																								
D1.5.1 Documento de especificação dos requisitos e maqueta gráfica da interface gráfica da aplicação móvel e plataforma web																								
D1.5.2 Plataforma Web e Aplicação Móvel disponibilizadas ao público																								
Activity 2																								
OP 2.1 People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)																								
D2.1.1 Disponibilização da Plataforma de Gestão de Serviço Flexível e A Pedido e de Acesso/Bilhética Interoperável para Mini Shuttle Eléctrico (V1)																								
D2.1.2 - Disponibilização da Aplicação de "Citizen Engagement e Sustentabilidade - MySMILE" para utilização de Mini-Shuttle Eléctrico (V1)																								
D2.1.3 Disponibilização de Mini-Shuttle Eléctrico																								
D2.1.4 Relatório de utilização e adesão à iniciativa com Mini-Shuttle Eléctrico																								
OP 2.2 "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle																								
D2.2.1 Disponibilização da Plataforma de Gestão de Serviço Flexível e A Pedido e de Acesso/Bilhética Interoperável para Mini Shuttle Eléctrico (V1)																								
D2.2.2 - Disponibilização da Aplicação de "Citizen Engagement e Sustentabilidade - MySMILE" para utilização de Mini-Shuttle Eléctrico (V1)																								
D2.2.3 Disponibilização de Mini-Veículo Eléctrico																								
D2.2.4 Relatório de utilização e adesão à iniciativa com Mini-Veículo Eléctrico																								
OP 2.3 Safe Parking																								
D2.3.1 Disponibilização de estacionamento de bicicletas próprias																								
D2.3.2 Relatório de utilização e adesão à iniciativa																								
OP 2.4 Shared Bikes																								
D2.4.1 Implementação das docas																								
D2.4.2 Disponibilização do sistema digital de requisição (V2)																								
Activity 3																								
OP 3.1 REC Model Requirements Survey																								
D3.1.1 Levantamento de requisitos																								
D3.1.2 Especificação de APIs a utilizar																								
D3.1.3 Maqueta funcional da interface gráfica da plataforma de gestão da Comunidade de Energia																								
OP 3.2 REC Support Infrastructure Development																								
D3.2.1 Disponibilização da plataforma de gestão global da CER																								
D3.2.2 Disponibilização dos módulos de análise inteligente de dados																								
OP 3.3 REC Installation																								
D3.3.1 Instalação e colocação em operação da CER																								
D3.3.2 Instalação do sistema de monitorização																								
OP 3.4 REC Maintenance																								
D3.4.1 Manutenção da infraestrutura física da CER																								
D3.4.2 Manutenção e melhoria da plataforma de gestão global da CER																								
D3.4.3 Manutenção e melhoria dos módulos de análise inteligente de dados																								
Activity 4																								
OP 4.1 Model Requirements Survey																								
D4.1.1 Requisitos técnicos das soluções a desenvolver																								
D4.1.2 Listagem de medidas de eficiência energética direcionadas ao edifício do Bairro da Taboqueira																								
D4.1.3 Especificação de APIs para comunicação com APP MySMILE e plataforma de gestão da Comunidade de energia																								
OP 4.2 Solution Development																								
D4.2.1 Solução "Auditor de Energia Virtual" disponibilizada																								
D4.2.2 50 Equipamentos para monitorização de consumos																								
D4.2.3 Integração dos módulos de "data analytics" com a plataforma de gestão global da CER																								
OP 4.3 Local Programme for Energy Efficiency Promotion																								
D4.3.1 Guia de auditoria energética simplificado																								
D4.3.2 Relatório intermédio de envolvimento comunitário do programa																								
D4.3.3 Relatório de impacto de envolvimento comunitário do programa																								
OP 4.4 Monitoring and Evaluation of the solutions																								
D4.4.1 1º Relatório de monitorização e quantificação de resultados atingidos																								
D4.4.2 Relatório final de monitorização e quantificação de resultados atingidos																								
Activity 5																								
OP 5.1 Consortium Management and Project Governance																								
D5.1.1 Reuniões Conselho Consultivo semestrais																								
D5.1.2 Guielines semestrais produzidos pelo Conselho Consultivo																								
D5.1.3 Assembleias de Moradores semestrais																								
D5.1.4 Reuniões regulares do Consórcio																								
OP 5.2 Community Participation and Involvement																								
D5.2.1 Instrumentos facilitadores da participação da comunidade																								
D5.2.2 Relatório síntese da webApp-SEEDS																								
D5.2.3 Intervenções artísticas participadas																								
OP 5.3 Monitoring, Assessment and Sustainability																								
D5.3.1 Reports intercalares de monitorização e avaliação																								
D5.3.2 Relatório Final																								
OP 5.4 Communication and Dissemination																								
D5.4.1 Relatório Síntese																								
OP 5.5 MySMILE APP																								
D5.5.1 Compilação da Aplicação MySMILE																								
OP 5.6 Benchmarking																								
D5.6.1 Compilação dos conteúdos dos webinars																								
D5.6.2 Relatório da visita guiada e workshop																								
D5.6.3 Relatório Final																								

Out of the 70 deliverables set to be delivered during the project, we have delivered 62, an overall percentage of execution of 89% of the deliverables.

The following table shows the status of delivery of each deliverable:

Table 6 – Status of the deliverables

Activity	OP	Deliverables (delivered/hot delivered)
1. Circular economy and environment	OP 1.1 Urban garden	D1.1.1 Guia utilização HUC - agricultura biológica D1.1.2 Relatório síntese OP1.1 D1.2.1 Guia de Compostagem D1.2.2 Relatório síntese da OP1.2 D1.3.1 Implementação da Ciclo-Oficina de Bicicletas D1.3.2 Relatório de utilização e adesão às iniciativas de sensibilização e dinamização D1.4.1 Manual de Apoio SIRA D1.4.2 Relatório síntese D1.5.1 Documento de especificação dos requisitos e maqueta gráfica da interface gráfica da aplicação móvel e plataforma web D1.5.2 Plataforma Web e Aplicação Móvel disponibilizadas ao público
	OP 1.2 Composting	
	OP 1.3 Repair Café and Cycle Workshop	
	OP 1.4 Watering system	
	OP 1.5 Waste Management System	
2. Mobility	OP 2.1 People's Mobility on a Flexible, "on-demand" basis with the electric Mini-Shuttle (and Taxis)	D2.1.1 Disponibilização da Plataforma de Gestão de Serviço Flexível e A Pedido e de Acesso/Bilhética Interoperável para Mini Shuttle Eléctrico (V1) D2.1.2 - Disponibilização da Aplicação de "Citizen Engagement e Sustentabilidade - MySMILE" para utilização de Mini-Shuttle Eléctrico (V1) D2.1.3 Disponibilização de Mini-Shuttle Eléctrico D2.1.4 Relatório de utilização e adesão à iniciativa com Mini-Shuttle Eléctrico D2.2.1 Disponibilização da Plataforma de Gestão de Serviço Flexível e A Pedido e de Acesso/Bilhética Interoperável para Mini Shuttle Eléctrico (V1) D2.2.2 - Disponibilização da Aplicação de "Citizen Engagement e Sustentabilidade - MySMILE" para utilização de Mini-Shuttle Eléctrico (V1) D2.2.3 Disponibilização de Mini-Veículo Eléctrico D2.2.4 Relatório de utilização e adesão à iniciativa com Mini-Veículo Eléctrico D2.3.1 Disponibilização de estacionamento de bicicletas próprias D2.3.2 Relatório de utilização e adesão à iniciativa D2.4.1 Implementação das docas D2.4.2 Disponibilização do sistema digital de requisição (V2)
	OP 2.2 "Inverted" Micro-Mobility of Goods "on-demand" with Electric Mini-Shuttle	
	OP 2.3 Safe Parking	
	OP 2.4 Shared Bikes	
3. Energy	OP 3.1 REC Model Requirements Survey	D3.1.1 Levantamento de requisitos D3.1.2 Especificação de API's a utilizar

Activity	OP	Deliverables (delivered/not delivered)
	OP 3.2 REC Support Infrastructure Development OP 3.3 REC Installation OP 3.4 REC Maintenance	D3.1.3 Maqueta funcional da interface gráfica da plataforma de gestão da Comunidade de Energia D3.2.1 Disponibilização da plataforma de gestão global da CER D3.2.2 Disponibilização dos módulos de análise inteligente de dados D3.3.1 Instalação e colocação em operação da CER D3.3.2 Instalação do sistema de monitorização D3.4.1 Manutenção da infraestrutura física da CER D3.4.2 Manutenção e melhoria da plataforma de gestão global da CER D3.4.3 Manutenção e melhoria dos módulos de análise inteligente de dados
4. Buildings	OP 4.1 Model Requirements Survey OP 4.2 Solution Development OP 4.3 Local Program for Energy Efficiency Promotion OP 4.4 Monitoring and Evaluation of the solutions	D4.1.1 Requisitos técnicos das soluções a desenvolver D4.1.2 Listagem de medidas de eficiência energética direcionadas ao edifício do Bairro da Tabaqueira D4.1.3 Especificação de API's para comunicação com APP MySMILE e plataforma de gestão da Comunidade de energia D4.2.1 Solução "Auditor de Energia Virtual" disponibilizada D4.2.2 50 Equipamentos para monitorização de consumos D4.2.3 Integração dos módulos de "data analytics" com a plataforma de gestão global da CER D4.3.1 Guia de auditoria energética simplificado D4.3.2 Relatório intermédio de envolvimento comunitário do programa D4.3.3 Relatório de impacto de envolvimento comunitário do programa D4.4.1 1º Relatório de monitorização e quantificação de resultados atingidos D4.4.2 Relatório final de monitorização e quantificação de resultados atingidos
5. Coordination and Management	OP 5.1 Consortium Management and Project Governance OP 5.2 Community Participation and Involvement OP 5.3 Monitoring, Assessment and Sustainability OP 5.4 Communication and Dissemination OP 5.5 MySMILE APP OP 5.6 Benchmarking	D5.1.1 Reuniões Conselho Consultivo semestrais i D5.1.1 Reuniões Conselho Consultivo semestrais ii D5.1.1 Reuniões Conselho Consultivo semestrais iii D5.1.1 Reuniões Conselho Consultivo semestrais iv D5.1.1 Reuniões Conselho Consultivo semestrais v D5.1.1 Reuniões Conselho Consultivo semestrais vi D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo i D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo ii D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo iii D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo iv D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo v D5.1.2 Guidelines semestrais produzidos pelo Conselho Consultivo vi D5.1.3 Assembleias de Moradores semestrais i D5.1.3 Assembleias de Moradores semestrais ii D5.1.3 Assembleias de Moradores semestrais iii D5.1.3 Assembleias de Moradores semestrais iv D5.1.3 Assembleias de Moradores semestrais v D5.1.3 Assembleias de Moradores semestrais vi D5.1.4 Reuniões regulares do Consórcio (2/2) D5.2.1 Instrumentos facilitadores da participação da comunidade (2/2) D5.2.2 Relatório síntese da webApp-SEEDS



Activity	OP	Deliverables (delivered/not delivered)
		<p>D5.2.3 Intervenções artísticas participadas (3/3) D5.3.1 Reports intercalares de monitorização e avaliação (5/5) D5.3.2 Relatório Final D5.4.1 Relatório Síntese D5.5.1 Compilação da Aplicação MySMILE D5.6.1 Compilação dos conteúdos dos webinars D5.5.6.2 Relatório da visita guiada e workshop D5.6.3 Relatório Final</p>

ii. Description of costs and financial impact assessment

Regarding the reporting period – January to April 2024 – and the cumulative expenses of the whole project, we present an overall financial execution of 90%, where all partners present a percentage of execution higher than 85%, except one. The rubric “cost with new or secondhand equipment” has not reached the execution of 50%, especially in activity 1 and 2, but it did not compromise the physical execution and the implementation of the activities. The rubric “cost of staff assigned to the project” has a percentage of execution higher than 100% because we have adopted a collaborative way of designing and implementing the solutions. Lastly, an adjustment between two partners – Innovation Point and DST Solar – was made and supported by the whole consortium as shown in the documentation sent with the final payment request.

The tables 7, 8 and 9 present the costs per activity, per expenditure type and by partner. In the Annex I – Partner Costs we present the costs with more details, including the payment requests.

day

Table 7 – Costs per activity

Report by output / activity					
	Budget	Execution 2024	Total execution (from may 2021 to april 2024)	% Execution (2024)	% Total Execution
1- Circular economy and environment	134 743,92 €	14 243,01 €	111 520,02 €	11%	83%
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	26 382,00 €	1 402,92 €	9 708,56 €	5%	37%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	91 240,27 €	10 085,45 €	88 876,09 €	11%	97%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	5 156,16 €	1 548,50 €	2 706,80 €	30%	52%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	3 020,88 €	1 024,61 €	1 421,19 €	34%	47%
Indirect Costs - Reg. Art. 8.5	8 944,61 €	181,53 €	8 807,38 €	2%	98%
2-Sustainable Urban Mobility	251 330,11 €	71 862,24 €	190 046,17 €	29%	76%
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	8 520,00 €	- €	1 330,85 €	0%	16%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	128 926,03 €	22 060,59 €	133 363,13 €	17%	103%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	112 598,36 €	48 925,10 €	54 144,20 €	43%	48%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	869,31 €	752,27 €	779,04 €	87%	90%
Indirect Costs - Reg. Art. 8.5	416,41 €	124,29 €	428,95 €	30%	103%
3- Energy	237 135,00 €	16 826,72 €	216 321,96 €	7%	91%
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	45 736,22 €	- €	21 249,92 €	0%	46%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	155 872,44 €	7 604,38 €	159 721,25 €	5%	102%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	6 956,16 €	8 010,00 €	10 945,00 €	115%	157%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	5 189,31 €	114,03 €	610,11 €	2%	12%
Indirect Costs - Reg. Art. 8.5	23 380,87 €	1 098,31 €	23 795,67 €	5%	102%
4- Buildings	181 740,89 €	11 760,54 €	171 151,37 €	6%	94%
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	3 544,00 €	- €	- €	0%	0%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	136 407,77 €	8 103,14 €	134 002,61 €	6%	98%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	17 403,66 €	2 048,50 €	14 717,08 €	12%	85%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	3 924,30 €	486,83 €	2 531,08 €	12%	64%
Indirect Costs - Reg. Art. 8.5	20 461,16 €	1 122,07 €	19 900,60 €	5%	97%
5-Transversal Activities (M&E; Communication, etc)	299 973,30 €	41 867,77 €	294 965,83 €	14%	98%
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	6 750,00 €	125,80 €	125,80 €	2%	2%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	141 719,46 €	16 194,39 €	144 670,88 €	11%	102%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	136 872,16 €	22 119,25 €	136 465,02 €	16%	100%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	2 130,88 €	325,84 €	1 163,56 €	15%	55%
Indirect Costs - Reg. Art. 8.5	11 500,79 €	2 180,46 €	11 618,54 €	19%	101%
Travel and subsistence allowances for staff - Reg. Art. 8.3.1.b	1 000,00 €	922,03 €	922,03 €	92%	92%
Project management	114 863,24 €	18 880,55 €	112 450,55 €	16%	98%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	103 880,49 €	16 277,87 €	101 235,25 €	16%	97%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	8 076,00 €	2 207,00 €	8 076,00 €	27%	100%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	454,72 €	64,96 €	510,21 €	14%	112%
Indirect Costs - Reg. Art. 8.5	2 452,03 €	330,72 €	2 629,09 €	13%	107%
Total Geral	1 219 786,46 €	175 440,84 €	1 096 455,90 €	14%	90%

Table 8 – Costs per expenditure type

Report by type of expenditure

	Budget	Execution 2024	Total execution (from may 2021 to april 2024)	% Execution (2S 2023)	% Total Execution
Cost of new or second hand equipment - Reg. Art. 8.3.1.c & Art. 8.3.2	90 932,22 €	1 528,72 €	32 415,13 €	2%	36%
1- Circular economy and environment	26 382,00 €	1 402,92 €	9 708,56 €	5%	37%
2-Sustainable Urban Mobility	8 520,00 €	- €	1 330,85 €	0%	16%
3- Energy	45 736,22 €	- €	21 249,92 €	0%	46%
4- Buildings	3 544,00 €	- €	- €	0%	0%
5-Transversal Activities (M&E; Communication, etc)	6 750,00 €	125,80 €	125,80 €	2%	2%
Cost of staff assigned to the project - Reg. Art. 8.3.1.a	758 046,47 €	80 325,81 €	761 869,21 €	11%	101%
1- Circular economy and environment	91 240,27 €	10 085,45 €	88 876,09 €	11%	97%
2-Sustainable Urban Mobility	128 926,03 €	22 060,59 €	133 363,13 €	17%	103%
3- Energy	155 872,44 €	7 604,38 €	159 721,25 €	5%	102%
4- Buildings	136 407,77 €	8 103,14 €	134 002,61 €	6%	98%
5-Transversal Activities (M&E; Communication, etc)	141 719,46 €	16 194,39 €	144 670,88 €	11%	102%
Project management	103 880,49 €	16 277,87 €	101 235,25 €	16%	97%
Costs entailed by other contracts awarded by PP for the purpose of carrying out the project - Reg. Art. 8.3.1.f	287 062,51 €	84 858,35 €	227 054,10 €	30%	79%
1- Circular economy and environment	5 156,16 €	1 548,50 €	2 706,80 €	30%	52%
2-Sustainable Urban Mobility	112 598,36 €	48 925,10 €	54 144,20 €	43%	48%
3- Energy	6 956,16 €	8 010,00 €	10 945,00 €	115%	157%
4- Buildings	17 403,66 €	2 048,50 €	14 717,08 €	12%	85%
5-Transversal Activities (M&E; Communication, etc)	136 872,16 €	22 119,25 €	136 465,02 €	16%	100%
Project management	8 076,00 €	2 207,00 €	8 076,00 €	27%	100%
Costs of consumables and supplies - Reg. Art. 8.3.1.e	15 589,40 €	2 768,54 €	7 015,19 €	18%	45%
1- Circular economy and environment	3 020,88 €	1 024,61 €	1 421,19 €	34%	47%
2-Sustainable Urban Mobility	869,31 €	752,27 €	779,04 €	87%	90%
3- Energy	5 189,31 €	114,03 €	610,11 €	2%	12%
4- Buildings	3 924,30 €	486,83 €	2 531,08 €	12%	64%
5-Transversal Activities (M&E; Communication, etc)	2 130,88 €	325,84 €	1 163,56 €	15%	55%
Project management	454,72 €	64,96 €	510,21 €	14%	112%
Indirect Costs - Reg. Art. 8.5	67 155,86 €	5 037,38 €	67 180,24 €	8%	100%
1- Circular economy and environment	8 944,61 €	181,53 €	8 807,38 €	2%	98%
2-Sustainable Urban Mobility	416,41 €	124,29 €	428,95 €	30%	103%
3- Energy	23 380,87 €	1 098,31 €	23 795,67 €	5%	102%
4- Buildings	20 461,16 €	1 122,07 €	19 900,60 €	5%	97%
5-Transversal Activities (M&E; Communication, etc)	11 500,79 €	2 180,46 €	11 618,54 €	19%	101%
Project management	2 452,03 €	330,72 €	2 629,09 €	13%	107%
Travel and subsistence allowances for staff - Reg. Art. 8.3.1.b	1 000,00 €	922,03 €	922,03 €	92%	92%
5-Transversal Activities (M&E; Communication, etc)	1 000,00 €	922,03 €	922,03 €	92%	92%
Total Geral	1 219 786,46 €	175 440,84 €	1 096 455,90 €	14%	90%

Table 9 – Costs by partner

Report by partner				
	Budget	Execution 2024	Total execution (from may 2021 to april 2024)	% Total Execution
☒ Câmara Municipal de Sintra	214 557,20 €	73 695,78 €	139 315,67 €	65%
1- Circular economy and environment	26 677,80 €	2 468,37 €	14 831,60 €	56%
2-Sustainable Urban Mobility	114 682,20 €	48 195,12 €	59 044,29 €	51%
5-Transversal Activities (M&E; Communication, etc)	67 574,00 €	22 181,55 €	60 516,72 €	90%
Project management	5 623,20 €	850,74 €	4 923,06 €	88%
☒ Card4B	226 514,57 €	20 490,21 €	223 197,90 €	99%
2-Sustainable Urban Mobility	126 150,00 €	18 802,11 €	122 443,47 €	97%
5-Transversal Activities (M&E; Communication, etc)	91 416,00 €	930,62 €	91 080,00 €	100%
Project management	8 948,57 €	757,48 €	9 674,43 €	108%
☒ DST SOLAR	111 168,56 €	7 177,84 €	94 634,80 €	85%
2-Sustainable Urban Mobility	2 205,70 €	952,86 €	2 283,71 €	104%
3- Energy	105 921,29 €	6 025,88 €	88 479,89 €	84%
Project management	3 041,57 €	199,11 €	3 871,20 €	127%
☒ FCUL	120 538,12 €	2 787,74 €	119 715,02 €	99%
1- Circular economy and environment	6 302,17 €	- €	6 254,03 €	99%
2-Sustainable Urban Mobility	2 266,74 €	- €	2 335,78 €	103%
3- Energy	33 664,47 €	2 740,00 €	33 346,95 €	99%
4- Buildings	70 351,62 €	- €	69 632,82 €	99%
5-Transversal Activities (M&E; Communication, etc)	4 533,49 €	- €	4 722,44 €	104%
Project management	3 419,64 €	47,74 €	3 423,00 €	100%
☒ Fundação Aga Khan	175 798,35 €	33 713,19 €	167 978,40 €	96%
1- Circular economy and environment	28 438,80 €	8 979,96 €	25 846,31 €	91%
2-Sustainable Urban Mobility	6 025,47 €	3 912,16 €	3 938,93 €	65%
3- Energy	6 025,47 €	3 624,03 €	5 280,11 €	88%
4- Buildings	6 025,46 €	1 828,57 €	4 865,52 €	81%
5-Transversal Activities (M&E; Communication, etc)	50 700,55 €	1 116,67 €	53 260,86 €	105%
Project management	78 582,59 €	14 251,80 €	74 786,67 €	95%
☒ IDNorway	11 350,00 €	11 329,58 €	11 329,58 €	100%
5-Transversal Activities (M&E; Communication, etc)	11 350,00 €	11 329,58 €	11 329,58 €	100%
☒ Innovation Point	123 446,03 €	1 140,09 €	128 405,90 €	104%
1- Circular economy and environment	34 778,38 €	- €	35 369,41 €	102%
3- Energy	61 981,26 €	282,33 €	64 261,53 €	104%
4- Buildings	11 191,06 €	857,76 €	11 528,97 €	103%
5-Transversal Activities (M&E; Communication, etc)	10 330,21 €	- €	11 326,49 €	110%
Project management	5 165,11 €	- €	5 919,50 €	115%
☒ IrRADIARE	112 698,38 €	11 877,71 €	101 801,09 €	90%
1- Circular economy and environment	38 546,78 €	2 794,68 €	29 218,66 €	76%
5-Transversal Activities (M&E; Communication, etc)	64 069,05 €	6 309,35 €	62 729,74 €	98%
Project management	10 082,55 €	2 773,68 €	9 852,69 €	98%
☒ Watt-IS	123 715,25 €	13 228,69 €	110 077,53 €	89%
3- Energy	29 542,50 €	4 154,48 €	24 953,47 €	84%
4- Buildings	94 172,75 €	9 074,21 €	85 124,06 €	90%
Total Geral	1 219 786,46 €	175 440,84 €	1 096 455,90 €	90%

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

SMILE project, as a Living Lab being implemented in Bairro da Tabaqueira in Sintra, has *per se* already contributed to the overall EEA Grants objectives, with the involvement of Sintra Municipality. Overall, we have reached 2716 participants in the actions related to the all five activities that composed the project. This number doesn't match the total number of participants in the project because we've subtracted the participation of the FCUL students, that are in fact participating in the project (learning from the implementation of the Energy Consultations (OP4.3) but are not benefiting directly from decarbonization measures.

The project contributed to saving 32 ton of CO2 by the production of electricity through ACC solar panels installed in Alfredo da Silva School, plus 6 ton of CO2 saved with the use of app Sintra SMILE (green mobility and tree plantation).

The project supported fourteen innovative decarbonization measures: (A1): community garden, composting goes to school, repair café and workshop, cycle workshop, SIRA, microforest; (A2): Electric vehicle for passengers, electric vehicle for deliveries, safe parking, shared bicycles; (A3): energy self consumption; (A4): Energy Efficiency Programme, including the energy audits, the energy virtual manager and the office to support energy efficiency actions; (A5): Swap Market and App SintraSMILE with the different widgets integrated.

Table 10 – Contribution to Programme Overall Objectives

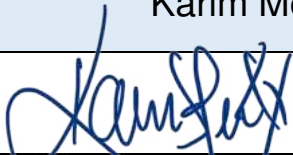
Expected result	Related activity	R10	R9	R8	R7	R6	R5	R4	R3	R1&2	Cumulative contribution
Estimated annual decrease of CO2 Emissions	A2, A5	32	0	0	0	0	0	0	0	0	32
Jobs created		0	0	0	0	0	0	0	0	0	0
Number of beneficiaries of implementation of decarbonization measures	A1, A4, A5	777	335	79	53	463	44	475	95	395	2716
Number of inovative decarbonization measures supported	A1, A2, A3, A4, A5	14	0	0	0	0	0	0	0	0	14
Number of municipalities that implemented decabornization measures	A5	0	0	0	0	0	0	0	0	1	1




The contribution of the project to strengthen the bilateral relations between the donor countries – Norway, Iceland and Liechtenstein and the beneficiaries, in this case, Portugal, one of the fifteen beneficiary countries, was successful. In this living lab we partnered with International Development Norway (ID Norway). The relation allowed the consortium, the partner organizations of the consortium and the residents / students of the neighborhood to learn more about the methodology of living labs and how it has been implemented in the donor countries. This experience showed the participants that innovation doesn't only happens in the other countries, it does happen in ours as well and the examples shown in classes and presentations can now be from our municipality, Sintra.

The participation of ID Norway in the consortium meetings also helped the group to face some challenges and to find solutions for them, as many of them were already surpassed by our partner in other experiences. This exchange of knowledge allowed us to feel confident of the work done and the work that needs to be done to further decarbonize our neighborhoods. We have now a stronger network and a partner to reach out for new opportunities.

Projector Promotor

Name	Karim Merali
Date and Signature	
Position	CEO

Programme Operator – Secretary General for Environment

Name	Marco Rebelo
Date and Signature	 Marco Rebelo <small>Assinado de forma digital por Marco Rebelo Dados: 2024.09.04 17:22:56 +01'00'</small>
Position	Secretary General