URBACT
Driving change for better cities

European Union
European Regional Development Fund

CIDADE DE RECURSOS

Famalicão
O SEU LUGAR

Integrated Action Plan

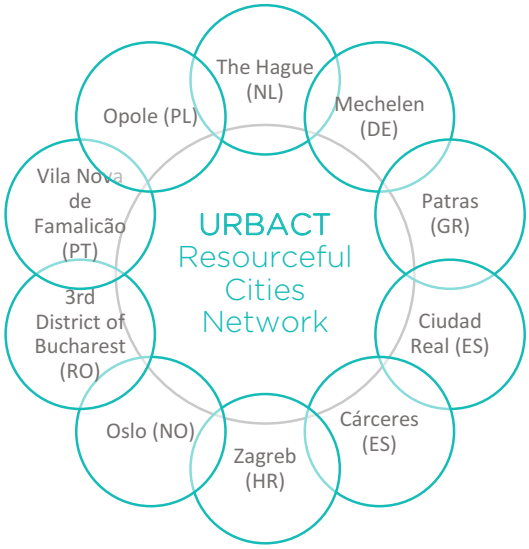
URBACT RESOURCEFUL CITIES


ARMÁRIO
CIRCULAR

CONTENT

ABOUT URBACT RESOURCEFUL CITIES

RESOURCEFUL CITIES is an URBACT Action Planning Network of European cities that seeks to develop the next generation of urban resource centres, so they can serve as catalysts of the local circular economy by adopting a participative and integrated approach.



Initially conceived by the city of The Hague together with the city of Oslo, arising from their membership of the Urban Agenda Partnership on the Circular Economy, the Resourceful Cities consortium consists of ten partners, representing a wide geographical spread across Europe. The project idea was developed to implement one of 12 actions addressed by the partnership, which is to "Promote Urban Resource Centres for waste prevention, re-use and recycling".

Although the very concept of an Urban Resource Centre can be quite diversified and may be interpreted in multiple ways, it is generally understood to represent multi-functional places that help facilitate sustainable consumption, waste prevention, re-use, repair, and recycling in urban areas, promoting the circular economy at local level.

QUICK INTRO

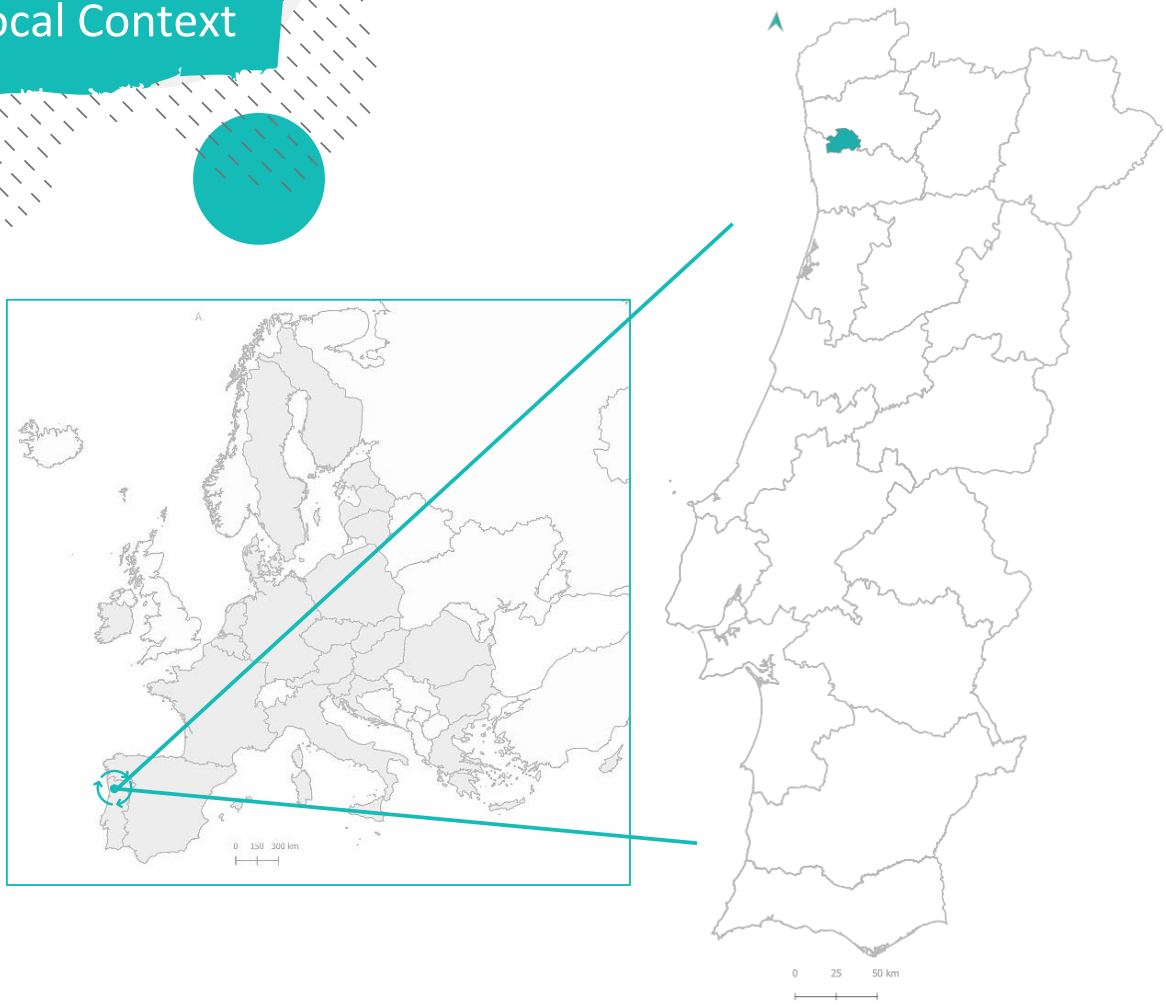
The topic of Circular Economy – defined by The Ellen MacArthur Foundation as "an economic model which is restorative and regenerative by design, and in which products and materials components are expected to maintain their usability and value over time" - has become increasingly more relevant at both European and national level over recent year given its direct connection to some of today's main challenges, namely climate change.

Pollution, greenhouse gas emissions and the resulting threat to the planet's biodiversity and ecosystems converge into what has been classified as a Climate Crisis. As a result, governments, companies, institutions, and the overall population are being urged to take action and join in the fight for sustainability.

Cities and urban areas have an added responsibly in this matter. By 2050 about 2/3 of the world population is expected to be living in a city (The Ellen MacArthur Foundation). Urban population will be consuming about 75% of all natural resources available, producing roughly 50% of all waste and accounting for 60% of all greenhouse gases emissions. Therefore, to get cities involved, making positive changes and more sustainable choices within their respective communities has never been more important.

Famalicão has been actively seeking to boost the development of a circular economy model through a multisectoral approach, while promoting the implementation of new projects geared towards more sustainable local production and consumption practices. Joining the URBACT Resourceful Cities network represents a great opportunity to rethink, plan and implement an integrated strategy for circular economy while also allowing for easier access to knowledge regarding the latest developments on the topic and support from other partner cities.

Local Context



Population (2021)

133 590

Volume of exports (2020)

€1,751 million

Top exporting Portuguese counties ranking (2020)

5th place

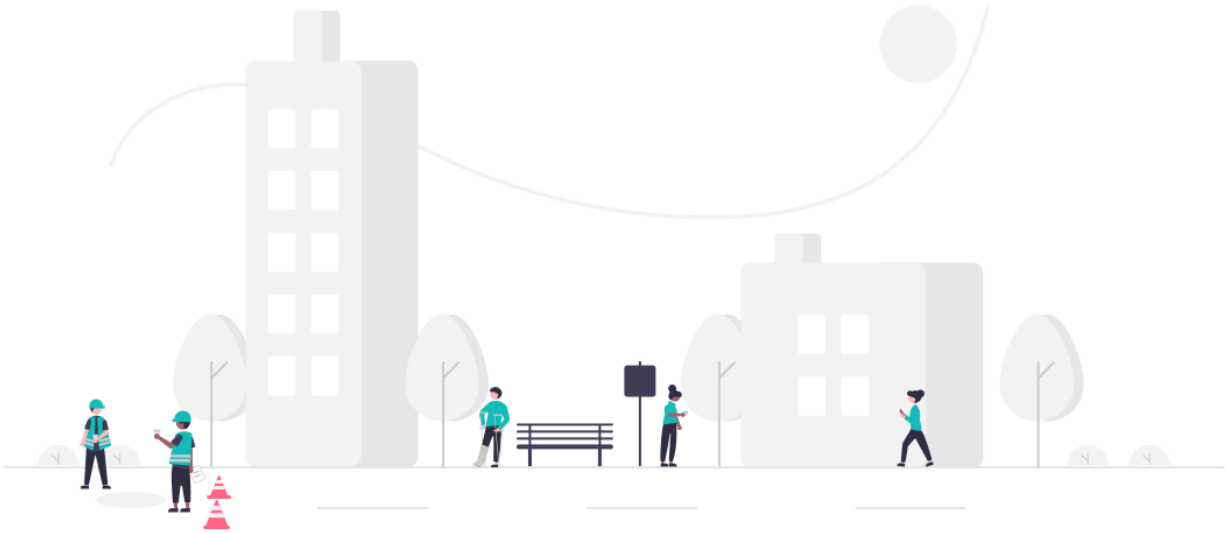
POPULATION AND THE LOCAL ECONOMY

Vila Nova de Famalicão is a city located in the Ave Valley, in the northern region of Portugal. With a total area of 202 $km^{2,}$ divided into 34 different parishes, it has a population of 133,590 according to the provisional results for the 2021 national Census, which translates to a population density of about 661.3 residents per km^2.

The city territorial framework is based on a broader polynucleated urban system, characterized by a diffuse urbanization with multifunctional occupation and mixed uses - between urban, rural, and industrial. Its geographic location (only 35 minutes from the city of Porto and from Leixões, one of the largest seaports in the country) and its high-quality road and rail systems, are valuable assets that assure territorial advantages for its economic development (local and regional level), as it plays a crucial role in the attraction and retention of investment. Industries such as textile, metal mechanics and food processing are particularly important (all represented in the ULG), as they are directly linked to one of the municipality's main economic strengths: its exporter profile.

In 2020, Famalicão had the highest volume of exports in the whole northern region of Portugal (over €1,751 million), reinforcing the importance of the role the city plays in the national economic landscape. It ranked as the 5th top exporter in the country the same year, accounting for about 4.69% of the total turnover in the Northern Region and approximately 1.28% of turnover nationwide. To this contributed in large part the presence of larger enterprises such as Continental Mabor – Tires Industry, SA.

It should, however, be noted that there has been a tendency towards increasing economic tertiarization in recent decades, to the point where the secondary and tertiary sector currently hold almost equal weight in terms of employment.



Policy context

In March 2020, the European Commission published the new Circular Economy Action Plan, considered to be one of the main pillars of the European Green Deal. The plan established several goals, designed to promote the mitigation of the effects of climate change through the transition towards a circular economy model, including conceiving more sustainable products; increasing awareness among consumers; having more circular production processes and reducing the amount of waste.

On a national scale, back in 2017 the Portuguese government published the national Circular Economy Action Plan, focusing on 3 different levels of action: *macro, sectorial and regional or local* - and introducing three new planning instruments – circular deals, sectorial agendas, and regional agendas.

These instruments highlight the role that a circular economy model will play in mitigating the negative effects that result from our current linear model and from the challenges we now face, while acknowledging the importance of involving stakeholders from key sectors and the local and regional authorities.

Locally, Famalicão is currently implementing its strategic plan, 'Famalicão Visão'25 (2014-2025)', to create a global techno-industrial community, on a green, multifunctional territory. To achieve this, it was necessary to tackle several different themes and issues regarding sustainability – from sustainable mobility to green economy, to a new approach to waste management, product valorisation and local biodiversity and, of course, the promotion of a circular economy model.

Currently there is a brand-new strategy under way for the 2025-2030 period in which these ambitions are going to be reinforced. This new document is expected to reflect the long learning process and changes that have been taking place over recent years in relation to circular economy, namely through the involvement in multiple national and international projects

Local initiative

In alignment with the national and European efforts, over the last few years Famalicão has been prioritising the development of a circular economy model through a multisectoral approach. Upholding the active, dynamic, and progressive attitude towards current issues that has come to be the city's trademark, the municipality has been focusing on integrating new CE projects at both a national and international scale for a while. Back in 2019, the municipality started promoting and supporting applications for circular innovation projects through the JUMP initiative. The first edition was held in collaboration with the academic sector and aimed to attract entrepreneurs and start-ups

Vila Nova de Famalicão has a very strong industrial presence and, as a result, has the potential to test and successfully implement new innovative methods and sustainable processes. Before joining the URBACT network, there were already multiple circular economy projects, resulting from both public and private initiative, being developed and implemented in the city – from recycling and composting projects taking place in public schools and villages in the county, to partnerships between the local industry and universities, to locally-owned small businesses built on circular practices, ranging from more traditional approaches like refurbishing old furniture to the creation of new, innovative products such as shoes made from used coffee grounds.

> *"At Oficina de Memórias we rely on sustainable practices. We take used pieces of furniture and make them brand new. With a bit of creativity, we're able to contribute to more sustainable behaviours and habits of consumption."*

- Helena Rebelo, Oficina de Memórias, ULG Member

CURRENT CHALLENGES

The main problem identified has to do with how disperse circular economy practices currently are within the county. There is a pressing need to consolidate knowledge, gathering information on circular projects being developed and implemented and organizing them in a proper structure.

In spite of the large amount of projects and initiatives taking place in Famalicão, the multiple solidified networks of local stakeholders already in place – which over time have contributed to the sharing of relevant experiences and good practices - and of numerous guidelines being implemented for a more efficient use of resources and the attaining of a more sustainable system overall, there were still some missing links when it came to creating solutions that were truly efficient in promoting the involvement of the local community and as a result, in driving general behavioural changes. Concepts like waste prevention, recycling, reusing and repairing have long been a part of the local vocabulary but too often they are still seen as an ideal rather than a part of everyday life.

In that sense, there is a clear need to bring these concepts closer to home for the local community and institutions, while establishing and maintaining new, more efficient lines of communication between the parties involved to assure proper articulation and maximize the individual and collective efforts.

In addition to that, despite the significant increase in the investment made to support circular economy projects in the last few years, there is still some difficulty for cities in accessing and getting enough funding.

SWOT ANALYSIS

STRENGTHS

- Partnership & collaboration already in the DNA of stakeholders across the city
- Existing sustainability consciousness
- Existing experimentation & trialling of circular solutions in private sector
- Citizens open to discovery & innovation
- Existing multi sectoral & multi-level network
- Strong & diverse industrial fabric with companies aware that remaining competitive means incorporating CE principles
- Industry & research sectors already collaborating on successful CE projects
- Motivated stakeholders who recognize the valuable opportunity provided by CE & committed to the transition
- Resilient & adaptable stakeholders
- Visible social consciousness in the city

THREATS

- Complexity in introducing changes in internal procedures in organizations
- Internal resistance to change
- Lack of public transport options particularly outside the city centre
- Sub-optimal communication of existing positive projects
- Lack of reliable information, contradictory data
- Difficulty in engaging people when impacts & outcomes are not quantifiable & visible in a short term & when the cause-effect relationship is debatable
- Lack of financing
- Lack of awareness of individual environmental impact related to everyday actions
- Lack of strategy to engage with those with low level of education

OPPORTUNITIES

- Water shortages driving sustainability transitions in the private sector & opening opportunities to develop & implement new approaches & solutions
- National strategies & programs guide & support local CE projects
- Municipal strategic vision is aligned with CE values & can mobilize actors
- Potential to develop & mainstream local resource loops e.g., in agri-food sector
- Opportunity to rebrand the city as a leader in eco-industrial innovation

WEAKNESSES

- Passive attitude and behaviour "what I do is not relevant," and "others should do it"
- Short term perspective of people • Financial costs, time & effort spent to implement the circular model is off-putting • Lack of visible results in the short & medium term are discouraging & demobilizing
- Lack of strategic coordination between stakeholders
- Legislative barriers to CE
- Economic lobbying
- Commitment to political visions change too often with elections

VISION AND FOCUS AREAS

BUSINESSES & INDUSTRY + THE LOCAL COMMUNITY

Vila Nova de Famalicão is committed to supporting and implementing projects that have the potential to have a direct positive impact, by actively working to simplify the decision-making processes for companies and for the community while promoting general behavioural change. This goal can only be attained bthrough the involvement of the relevant local stakeholders. Bearing in mind the city's highly industrial profile and the existence of a wide range of initiatives and actions in the scope of the circular economy theme within the local community, it made sense to focus on these two components, identifying key players and having them join the discussion. If the first provides the potential to experiment with new innovative approaches in terms of industrial waste management and resource usage on a municipal scale, the latter, through its involvement in the local issues and active participation in local initiatives, is an asset when it comes to testing solutions for promoting behavioural change in matters of sustainability and circularity.

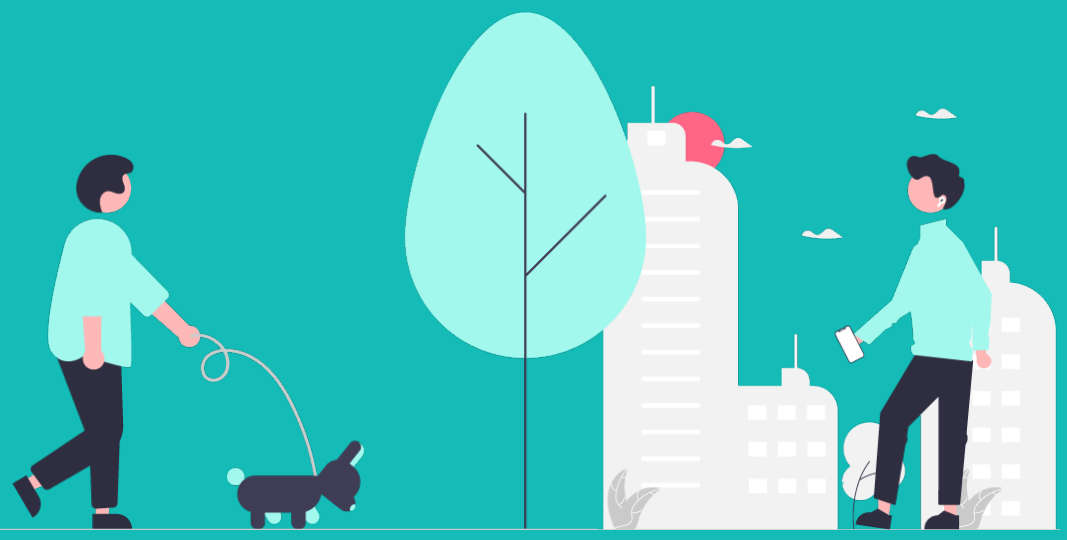
For that reason, early in the project the decision was made to have two focus areas:

BUSINESSES AND INDUSTRY

Encompassing key players in the local economic landscape, as well as some smaller businesses directly connected to circular practices

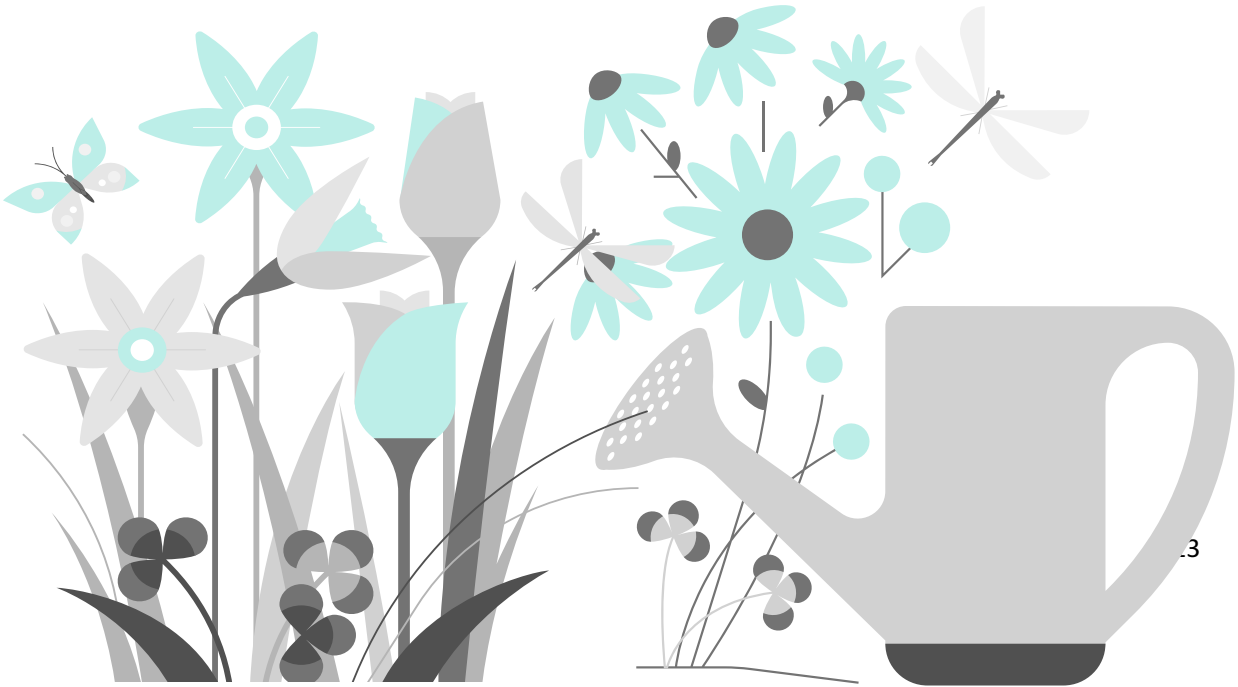
THE LOCAL COMMUNITY

Including local non-profit entities, from both the public and private sector.



Within the scope of Industry, there are entities and companies where the circularity of materials and processes is already a concern. Recognizing the need to adopt a more proactive approach to waste management, the Famalicão Circular initiative was created in 2018 with the aim of supporting multiple sectoral projects that promote circularity. Several projects have already been implemented, including projects for transforming forest biomass into energy, projects to promote industrial symbiosis - transforming industrial waste into raw materials, projects to promote local composting.

When it comes to the local community, there are also several projects in the municipality that indicate a history of active citizen participation and actively promoting waste reduction and reuse. From initiatives that focus on the repairing of old household equipment; to the collection and redistribution of surplus food through REFOOD; to collecting food waste for making compost which can then be exchanged for books for the community ("Aldeia Circular"); to the Eco-school initiative, where the municipality seeks to involve schools from primary education to professional level to promote waste reduction through the placement of mini recycling points in those schools.



OBJECTIVES AND EXPECTED RESULTS

This IAP aims to provide Famalicão with an instrument that will help support the city's transition towards a circular model, in an efficient, structured way.

Hoping to promote greater synergies between the wide range of entities that are currently promoting circular economy principles in Famalicão, to coordinate and articulate activities that are currently dispersed in the territory, to tackle behavioral change at the county level, encouraging and promoting citizens' action in supporting the transition to a circular city system.

The achievement of these strategic objectives will bring social, economic and environmental benefits to Famalicão's socioeconomic ecosystem and hopefully, will increase the number of green jobs created, boosting the city's competitiveness through circularity and sustainability

Main objectives

STRATEGIC OBJECTIVE 1

To map circular economy practices and actions that directly contribute to Famalicão's transition towards a circular model

STRATEGIC OBJECTIVE 2

To create a new Urban Resource Centre to help disseminate circular practices

STRATEGIC OBJECTIVE 3

To reduce the amount of waste generated by the community, businesses and local industry

STRATEGIC OBJECTIVE 4

To promote an awareness campaign for private companies and public institutions that have an active role in the transition

STRATEGIC OBJECTIVE 5

To implement small scale actions as a form of capacity-building, while seeking to promote and support the transition to

THE LOCAL GROUP

"Famalicão has many organizations, companies and projects that do a magnificent job in the transition to circularity across different sectors. With the ULG we were able to organize activities within the local community and we have addressed very relevant topics with the population such as zero waste and circular economy.

For me, it has been an experience with enormous professional and personal value. Creating networks and fostering local and regional symbioses has been possible thanks to the URBACT project"

- Filipa Gouveia, ECOnnect Portugal, ULG member

The ULG in Famalicão is composed of local key players, from public and private sector that "navigate" in fields of intervention like such as education, industry, commerce, public service (...). These stakeholders play an essential role in the project through the creation, sharing and implementation of actions and strategies which aim to advance the city's current efforts to develop a common strategy for developing urban circular practices. The ULG structure was designed to respond specifically to the needs of the current ecosystem, which is relatively well developed, though lacking a shared vision and strategic execution.

Given the decision to focus on two main dimensions, each with their own expected actions and goals - (i) the local community, with a strong focus on education and citizen's involvement and (ii) business & industry, focusing mostly on the local companies and supporting its transition to a more ecological, circular model – the ULG was divided into "two development cells", allocating stakeholders from both ecosystems. The municipality and the CCDRN have a pivotal role, given their active involvement in both dimensions.

LOCAL COMMUNITY

Aldeia Circular

The "Circular village" in Seide is an environmental and educational project which is divided into two key elements – a compost unit and a market. The compost unit, named "Espaço Compostagem" is designed to produce compost from organic waste from local businesses. Part of that compost is meant to be used in a community vegetable plot, with the remaining being traded in the market, in exchange for books which will then be sent to the public library.

Associação Famalicão em Transição

Local association which aims to make Vila Nova de Famalicão a more sustainable and resilient community, centered around people and nature

Associação de Moradores de Lousado

Association formed by residents of the Lousado Residential Complex to ensure the proper management of the complex spaces and of the surrounding areas, while also promoting educational and cultural activities for the community. The association is actively involved in all actions/activities that take place in the residential complex, and has its own Activity Plan. It is also associated with the FazRefaz project as a partner, actively participating in the organization of all activities and ensuring the financial management of the project.

Centro Social de Bairro

The Social and Cultural Centre of S. Pedro de Bairro is a private social solidarity institution founded in 1983 to respond to the needs of the local community. Over the years the institution has sought to expand its support structure, which currently includes a kindergarten, a daycare center, a nursing home and a Family and Parenting Support Center among other things

Centi - Centro De Nanotecnologia e Materiais Técnicos, Funcionais e Inteligentes

Institute for Research and Technological Development which specializes in the development of products that use nanotechnology and smart materials.

CIOR

CIOR is an educational project that offers vocational education courses in multiple fields and trades, at both high school graduate and undergraduate level.

Earthship Biotecture Portugal

Based on a concept born in the 70s and brought to life in 2013, this organization seeks to create sustainable, self-sufficient houses made exclusively from recycled materials.

Engenho – Association for the Local Development of Vale do Este

Association founded in 1994 to promote social cohesion, sustainability and the overall development of the Vale do Este region, taking advantage of its natural characteristics and establishing relevant partnerships and strategies to solve common issues.

Ana Carvalho Jewellery

Jewelry brand that specializes in silver products.

Another Life

Second-hand and vintage clothing and accessories store.

ATP – Portuguese Textile and Clothing Association

The ATP is an employers' association encompassing about 500 different businesses, which in total account for 35 thousand employees and almost 3 billion euros in revenue. It is the largest association in the clothing and textile sector in Portugal and one of the most important in the European scale.

Bag4days

Bag renting business, which allows customers to rent a bag for a given number of days as an alternative to buying a new piece of luggage

Bayou Natural Concept

Sustainable clothing brand seeking to bring an innovative approach to fashion by offering handmade, eco-friendly and recyclable products.

Bôl'ter Intimate

Eco & conscious lingerie brand, with products made using recycled fibers.

Cindinha Bulk Store

Local shop offering organic products, including fresh fruits and vegetables.

CITEVE

The technological Centre for the Textile and Clothing Industries of Portugal is a private non-profit organization founded in 1989 which aims to promote the development and innovation of the Textile and Clothing industry by supporting the creation of new technologies and techniques to improve the manufacturing processes and the quality of products.

Continental

Continental is a company founded in 1871 that develops pioneering technologies and services for sustainable and connected mobility. The company is one of biggest producers of tires in Europe and one of the largest exporters in the region and in the country

ECONNET

Company that specializes in helping businesses and organizations transition from a linear to a circular economic model, based on sustainable and innovative custom solutions.

Engraxat

Premium shoe care company that offers professional shoe cleaning services.

Famalicão MadeIN

Program led by the City Council to promote local industries in order to improve the region's economic performance by capturing and retaining new investment and promoting entrepreneurship and innovative actions.

Kortex Technologies

Kortex is a local start-up that aims to assist businesses in their digital transition efforts, optimizing and simplifying processes and increasing their business capacity, while promoting the implementation of a circular economy model and industrial symbiosis by applying a vast roll of services.

Louropel - Fábrica de Botões

Company founded in 1966, dedicated to production and commerce of buttons. It's considered to be the number one company in button production in the world, having developed a unique and patented production cycle of an eco-friendly product called "Ecological biodegradable buttons" made from all natural components.

Mercearia da Vila

Local shop that sells organic, natural and eco-friendly products in bulk.

Minority Denim

Company founded in April of 2015 that works to develop innovative denim washing and dying processes.

Mistolin

Company founded in 1992 and specialized in developing products and solutions for home care and professional cleaning. Nowadays the brand is present in over ten countries across three continents.

O Benefício

Start-up that currently specializes in gin and in sour cherry liqueur production in limited quantities, using artisanal, sustanaible methods.

Oficina de Memórias

Repair shop that specializes in the restoration of furniture and household supplies.

Re – Coffee

Sustainable brand that creates and designs products, made from coffee grounds, recycled and natural materials.

RESINORTE – Valorização e Tratamento de Resíduos Sólidos, S. A.

Company that specializes in solid waste recovery and treatment, playing a crucial role in the collection and management process of the city's waste

Riopele

Founded in 1927, Riopele is one of the oldest textile companies in Portugal and an international reference in the creation and production of fabrics for fashion and clothing collections. With a team of 1130 workers, the company exports 95%

Scoop

SCOOP is an export company, with a focus on the clothing industry. It offers management of the supply chain for multiple products/product lines, acting as an intermediary between international brands and manufacturers in Portugal. The company has been based in Vila Nova de Famalicão since 2006, and since then it has had numerous partnerships with big international names, such as NBA and the NFL. of its annual production.

TecMeat

Agri-food Competence Center for the Meat Sector - Non-profit association that aims to increase the competitiveness and innovation of meat producing and processing companies through scientific and technological developments, providing an integrated and sustainable way to increase the volume of exports as well as the added value of products.

TMG Group

The history of the TMG Group started back in 1937 with the creation of a textile factory. Since then the group has expanded its activity and grown significantly, being currently divided into different branches from TMG Textile, which focus on fabric production to TMG Automotive, that produces car upholstery

CROSS-SECTORAL

CCDRN

The Commission for the Coordination and Regional Development of the North Region is a civil service, with financial and administrative autonomy - under the direction of the Minister for Territorial Cohesion in coordination with the Minister for the State Modernization and Public Administration and the Minister for the Environment and Climate Action – which aims to achieve the sustainable, integrated development of the region while promoting competiveness and territorial cohesion at national level.

Municipio de Vila Nova de Famalicão

The ULG includes representatives from key departments in the local government structure, namely the Strategic Development, Mobility, Education and the Urban Development departments.competiveness and territorial cohesion at national level.

CHALLENGES & THE DEVELOPMENT PROCESS

The initial stages of the process were definitely the most complex. Right at the start of the project there was a need to assess who the key players were, through mapping of the local stakeholders, as well as to determine how this new project would fit in and compliment the work that was already being done in the city as regards to circular economy.

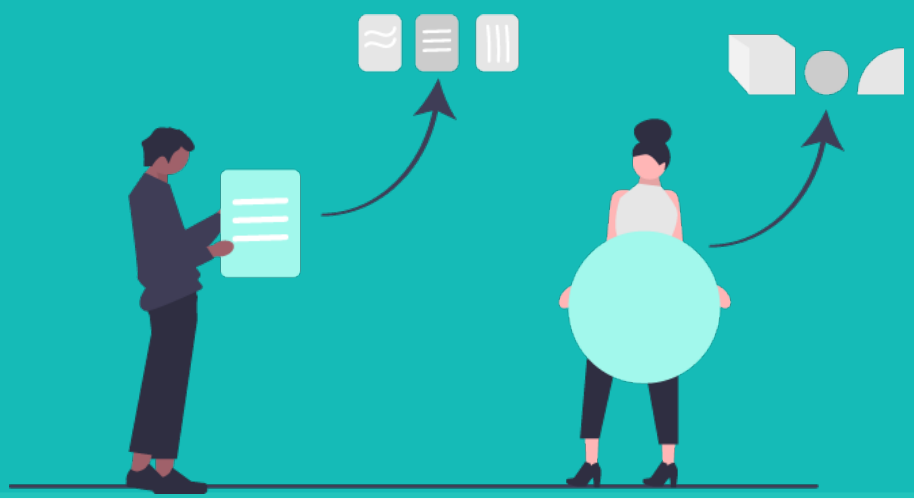
This proved to be a rather daunting phase given the cheer magnitude of the task – at that point, there was already a very considerable number of projects, agents, businesses, organizations, and institutions committed to the topic and the initial intent was to try to make the project as inclusive as possible, and not to leave anyone behind. As a result, the original ULG became way too large and hard to manage, lacking cohesion and proper articulation between its members. The solution involved taking a step back and making the necessary adjustments.

Soon after, the COVID-19 pandemic came as an even bigger challenge. It forced the ULG to rethink not only the way communication between all involved parties took place - from physical meetings to a fully online format, to a mix of both in the more recent stages – but also the ways in which it would continue to develop and implement the planned actions.

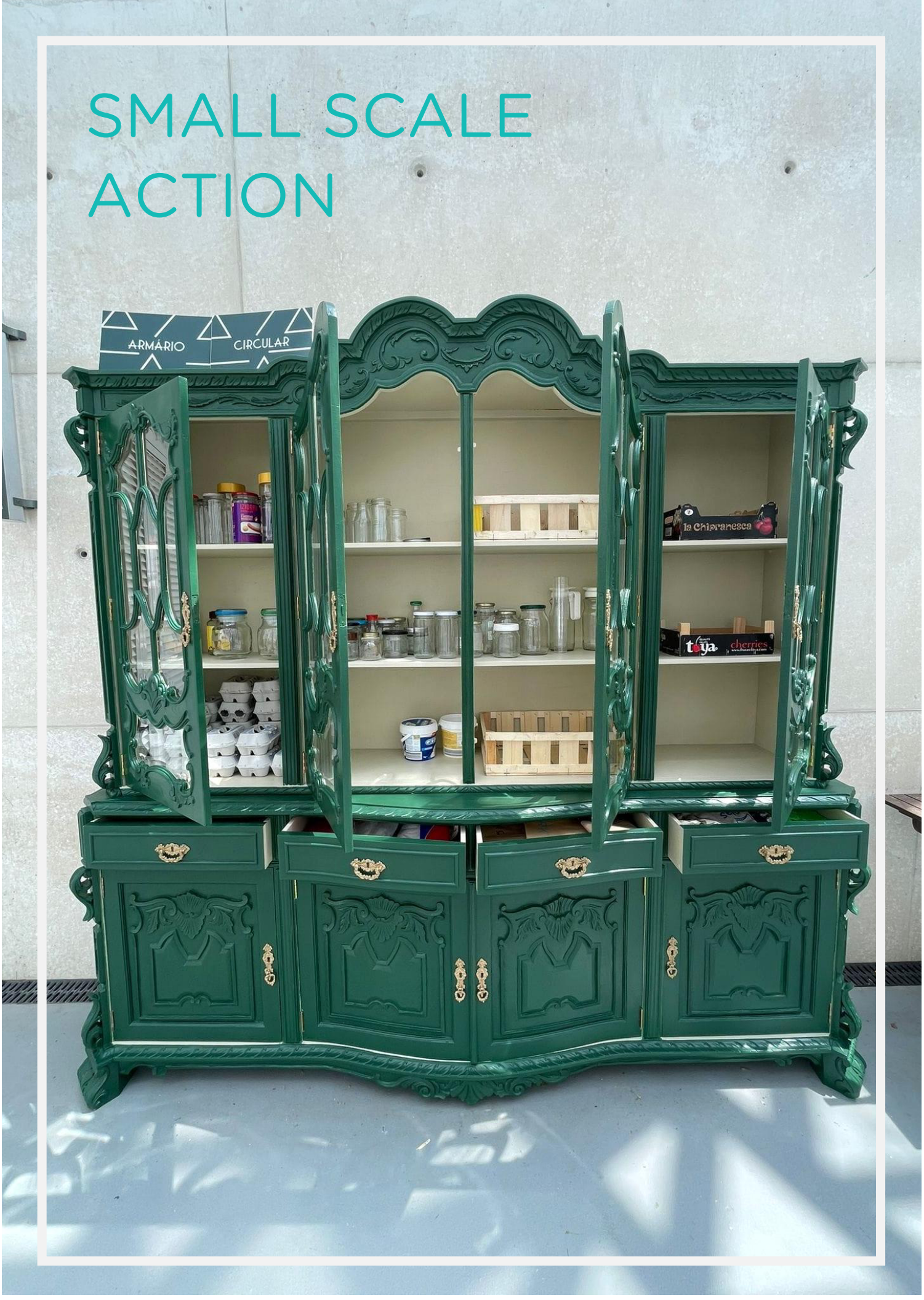
Some of the activities that had been planned as part of the SSA and which included workshops and showcases, had to be adapted as they fully relayed on the involvement of the local community.

Despite the initial difficulties, the ULG members remained determined to come together and collectively work on finding solution. The effort put into working through the adversities resulted in a valuable experience, strengthening relationships, while also serving as a great reminder of the need for adaptability, resilience, and agility to be built into future activities and projects.

The overall balance is rather positive, having collectively and successfully built something which represents the beginning of a new stage in Famalicão in terms of circular economy.



SMALL SCALE ACTION



Zero Waste Market is the *Small-Scale Action* defined for this project. Using the local market as a platform for circular economy, the primary goal of this SCA was to raise awareness about sustainable production and consumption, shifting the community's behavior.

SSA	Zero Waste Market: An Urban Resource Centre for Circular Economy
MAIN OBJECTIVE	To promote circular economy at local level through the involvement of local market vendors, customers, and the community in general.
BACKGROUND AND INSPIRATION	Taking full advantage of the local market, this action seeks to create a space in which circular economy practices can be easily integrated into the residents' daily lives, while simultaneously bringing together a wide community of stakeholders for promoting circular consumption, waste prevention, and the re-using of materials and resources. With those notions in mind, this action integrates an educational component, as well as a physical space where circular notions can be put to use. Along with a number of workshops and other educational activities, the municipal market also saw the introduction of the 'Circular Cabinet', a refurbished piece of furniture recovered from the municipal furniture depository that serves as an exchange point for reusable bags and packaging.
LEAD ORGANIZATION	Município de Vila Nova de Famalicão
KEY PARTNERS	Project Team; ULG members - Famalicão em Transição; Refood; CIOR; Resinorte; Life in a Bag; Revolução das minhocas; Reciclagem Orgânica; Minority Denim; Recoffee; Alexandra Arnóbio Upcycling Projects; ECOnnect Portugal; Earthship)

MONITORING INDICATORS	• Number of reusable bags distributed • Hours of training provided • Number of participants in the workshops • Number of views on the webinar
RESOURCES AND BUDGET	Estimated Budget: 20.000€
DURATION	
RISKS AND MITIGATION MEASURES	This is a low level risk The COVID-19 pandemic and the resulting restrictions were an added challenge when it came to this SSA. Specific activities which were heavily reliant on the involvement of the community had to be adapted to assure the safety of those involved. The decision was made to have those activities take place in an outdoors space and with a limited number of participants to allow for social distancing. The webinar was also an alternative to a larger in-person gathering.
RESULTS & KEY LEARNING	The SCA included several activities namely on-site workshops for different audiences aiming to get people to see materials as resources rather than waste. From vinyl records that can be turned into clocks, to crochet work that may be used to make a lamp - recycling, reusing and repurposing are key words. Through the involvement of local partners, the project also managed to include activities that focus on reducing food waste, repair of small appliances and composting. RESULTS: • 250 participants on the workshops; • 34 hours of training; • 250 reusable bags distributed; • 562 views of the "Circular inspiration" webinar;

IMPACT ON THE IAP	Famalicão market served as a powerful anchor and a "laboratory" to test and implement different circular activities, namely the Urban Resource Centre due to its location (highly frequented by the population). Through this SSA it was demonstrated that it is possible to achieve a Zero Waste Market the Municipality by raising awareness for market operators and market users, improving their waste management habits, enabling eco-competences (reducing, repairing, reusing, composting, upcycling and recycling strategies

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. "Circular Cabinet"	This action involves placing a repurposed cabinet in the market, where market users can both collect and deposit things like bags, jars, cardboard boxes, egg cartons, which can then be used for their shopping in the market. This initiative sought to help change consumer habits by promoting a "buy in bulk" approach, while bringing attention to the importance of reducing waste resulting from product packaging.	Municipality of Famalicão	Market Vendors; ULG members: Oficina de Memórias; Associação Famalicão em Transição; Revolução das Minhocas	2021	
2. Workshop for the market vendors	Waste management workshop for market vendors - developed in partnership with RESINORTE, which focused on waste reduction and the optimization of recycling habits.	Municipality of Famalicão	ULG members; CIOR	2021	
3. Circular Market	A series of on-site workshops for diverse audiences - from senior citizens to school children, designed to sensitize the community to a circular perspective, demonstrating how things previously considered waste are in fact	Municipality of Famalicão	ULG members	2021	

	valuable resources. From vinyl records turned into clocks, to crochet work that can be made into a lamp - recycling, reusing and repurposing are key words.				
4. Webinar - InspirAção Circular para a Comunidade	Webinar about circular economy, hosted in the Municipal Market and with an online live broadcast, which included a debate on the topic of "Circular Economy in consumption options"	Municipality of Famalicão	ULG members	2021	
5. Exhibition - InspirAção Circular	Exhibition where products and services from local companies and startups were showcased.	Municipality of Famalicão	ULG members	2021	

Actions

Action 1.	Circular Economy Map
Main Objective	Mapping circular practices in the city
Vision	As a result of the ongoing efforts to drive a shift in the local paradigm, there are currently many projects and initiatives relating to Circular Economy being developed and implemented in Famalicão, involving numerous entities, businesses, and members of the community. This mapping exercise aims to allow for the creation of a macro vision of what is happening, where and who the stakeholders are. Based on an intensive data collection with special focus on technical contributions from the ULG members and other sources, it would allow for an accurate account of the "circular economy movement", making it easier for interested parties to get in touch, driving cooperation and also bringing visibility to the projects and the issues they're looking to tackle. The results would then be added to an already-existing platform, B-Smart FAMALICÃO.
Lead Organization	Municipality of Famalicão
Key Partners	Project Team; ULG members – ECOnnect
Monitoring indicators	• Number of circularity reports • Number of visitors on the B-Smart FAMALICÃO platform (circular economy menu)
Estimate of costs	25.000€
Resourcing	Municipal budget; NORTE 2030
Timescale	2023 - 2025

Status	Ongoing: Technical meetings between the team responsible for managing the platform and ULG Members
Risks and Mitigation Measures	This is a low-level risk The need to ensure continuous and proper management namely in terms of (i) new circular data, (ii) updated contents and (iii) assessment of the results achieved through reports;
Inspiration	The ECO.NOMIA portal is one of the key components of the Ministry of Environment's action plan, as a space for sharing KNOWLEDGE. On the one hand, by informing consumers and companies of the advantages and opportunities of financing and, on the other hand, by launching an interaction forum for collaborative INVESTMENT projects in Circular Economy: Economia Circular - Home

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. Analysis of the B SMART Platform	Upgrade of the Smart City platform B-SMART to include a Circular Economy Menu	Municipality of Famalicão	ULG Members, (namely ECOnnect)	2022-2025	- Local authorities' own resources - Specialised external consultants
2. Selection of Circular Projects for mapping:	Internal and External Technical Meetings in order to understand the *status quo* of circular projects, in terms of description, execution and results achieved	Municipality of Famalicão; MADE IN	ULG Members, (namely ECOnnect)	2022-2025	
3. Definition of the New Structure of the B SMART Platform: Circular City	Establishing "circular menus" that we want to introduce in the B SMART Platform like - "Organisation" - "Sector of Activity" - "Type of Synergy" - "Type of Strategy"	Municipality of Famalicão	ULG Members, (namely ECOnnectt)	2022-2025	

4. Indicators for Urban Circularity	Selection of indicators to assess the state-of-the-art of urban circularity in Famalicão; indicators for Urban Circularity (Water, Waste, industry)	Municipality of Famalicão	ULG Members, (namely ECOnnect)	2022-2025	
5. Circularity Report	Publication that must reflect the advances of Famalicão regarding circular economy as well as the levels of internal and external coordination achieved	Municipality of Famalicão	ULG Members, (namely ECOnnect)	2022-2025	

Action 2.	Circular Economy: Training & Awareness Program
Main Objective	To contribute to the creation of individuals highly qualified in the matter of circular economy who may help drive process while also raising awareness
Vision	Circular Economy brings challenges, but it also represents the turning point for transformation of systems and create many opportunities. It is necessary to rethink the whole socio-economic model, reformulate processes, products and businesses. This action aims to provide basic concepts of circular economy, in a life cycle analysis perspective, to professionals from a diversified range of entities (community, ngo's, public and private organizations), to propose practical circular economy solutions appropriate to the territorial context. It also aims to boost the involvement of the community with new ideas and activities regarding the economical shift proposed by the circular economy. Explore, articulate and visualize the range of possibilities for stakeholders in circular contexts through a framework of practices, places and projects.
Lead Organization	CSIF (inter parish social committees) and CIOR
Key Partners	Project Team; ULG members;
Monitoring indicators	• Number of circular training modules outlined • Number of participants in Training • Number of participants in Awareness Activities • Number of participants certified
Estimate of costs	25.000€
Resourcing	Municipal budget; NORTE 2030; Environmental Fund; PT Social Innovation
Timescale	2022 - 2025
Status	Preparatory meetings between the Municipality and CIOR in order to achieve a 1st draw

Risks and Mitigation Measures	This is a medium level risk Resistance of participants, possible stigma and general lack of understanding of circular economy, its importance and potential.
Inspiration	Cidade Mais Annual and free festival of citizen initiative for the promotion of sustainability. It originated from the will of a group of friends to shake up the city regarding the issue of sustainability, to provoke social transformation and influence public policies. It aims to trigger synergies between people, projects, municipalities, institutions and companies that inspire, acting as a laboratory-event where all participants teach and learn Sustainability on a global scale in economic, social, cultural and environmental terms.

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
Definition of objectives and contents: Training Dimension	Recovering old trades and occupations: - Sewing - restoration of antique furniture - Repairing electrical appliances and household goods	CIOR	Project Team; ULG members;	2022-2025	CIOR own resources
Definition of objectives and contents: Awareness Dimension	Development of a circular economy awareness programme to be implemented in the whole Famalicão territory, with an	CSIF	Project Team; ULG members;	2022-2025	CSIF own resources

	active role played by the CSIF - Inter-faith Social Commissions				
Communication Tools for Training & Awareness Program	Communication Tools (Brochure, FlashNews…) For guaranteed maximum membership in the community the course known in the Guimarães Branding business ecosystem	CIOR & CSIF	Project Team; ULG members;	2022-2025	CIOR and CSIF own resources
Selection of Participants: Training Dimension	Development of a grid of criteria for participation in the professional training course on circular economy. It should be targeted to young people who want to follow a vocational pathway, unemployed young people, unemployed, long-term unemployed	CIOR	Project Team; ULG members;	2022-2025	CIOR own resources
Evaluation & Certification: Training Dimension	Certification process in understanding the principles of Circular Economy	CIOR/CSIF	Project Team; ULG members;	2022-2025	CIOR and CSIF own resources
Reporting and showcasing results	B SMART Platform	Municipality of Famalicão	Project Team; ULG members;	2022-2025	Famalicão own resources

Action 3.	Municipal Furniture Bank
Main Objective	To promote circular practices by having a space where people can donate their old furniture so that it can be refurbished and reused.
Vision	The Municipal Furniture Bank project is an initiative coordinated by the Municipal Social Action Division of the municipality, in close collaboration with the commercial area located at Lago Discount. This action aims to take the already existing local furniture depository, where donated furniture can be collected by low-income families and individuals, a step further. By involving local vocational schools and establishing partnerships in which students in specific trades help restore and refurbish the donated pieces, this action would allow for the creation of value from something that previously might have been considered waste - in line with the very notion of circular economy. This would not only serve to directly promote the adoption of sustainable practices, by inviting the community, not just people in need, to get a refurbished, quality piece instead of buying something brand new, but it could also have a very positive impact on participating students, allowing them to get practical experience in their fields of study.
Lead Organization	Municipality of Famalicão and *"Oficina de Memórias"*
Key Partners	Project Team; ULG members;
Monitoring indicators	• Number of pieces of furniture collected • Number of pieces refurbished • Number of refurbished pieces distributed • Number of showroom exhibitions
Estimate of costs	40.000€
Resourcing	Municipal Budget; NORTE 2030; Environmental Fund
Timescale	2023 - 2025
Status	Preparatory meetings between the Municipality and Oficina da Memoria to outline

Risks and Mitigation Measures	This is a low level risk Prejudice still existing in the community around the use of used material, in this case, used furniture. Need for a strong and attractive communication plan on the subject of used furniture recycling.
Inspiration	Materials Repository In today's society there is a culture of waste, with the construction sector being the most responsible for waste production. The aim is to face this situation not as a problem, but as an opportunity for change. The Materials Repository emerges as a response to this situation, having launched a platform to safeguard and enhance the value of materials and components left over from construction or from demolition/rehabilitation works with potential for reuse. Repositório de Materiais – Projeto Pioneiro na Economia Circular (repositoriodemateriais.pt)

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. "Don't let monsters loose" campaign	Collection of materials of various kinds, with particular emphasis on furniture	Municipality of Famalicão and "Oficina de Memórias"	ULG Members	2022 - 2025	Famalicão own resources
2. "From old to new": Treatment and restoration of collected furniture	Furniture Bank will establishing partnerships for the storage and treatment of the materials collected, namely professionals in conservation and restoration, carpentry,	Municipality of Famalicão and Oficina de Memórias	ULG Members	2022 - 2025	Famalicão own resources

	upcycling and social projects.				
3. Digital Catalogue	Development of a catalogue (physical and online) of materials of various kinds, with special emphasis on furniture in order to trigger the community's interest in visiting/acquiring any article.	Municipality of Famalicão and “Oficina de Memórias”	ULG Members	2022 - 2025	Famalicão own resources
4. Furniture Bank Show Room	Installation of a showroom at the Urban Resource Centre "Shopping Town" in order to show to the community the circular work around the use of used furniture and to potentiate social and economic opportunities around this upcycle process	Municipality of Famalicão and “Oficina de Memórias”	ULG Members	2022 - 2025	Famalicão own resources
6. B SMART Platform	Mainstreaming results	Municipality of Famalicão	ULG Members	2022 - 2025	Famalicão own resources

Action 4.	ShoppingTown: Creating an URC from obsolete real estate
Main Objective	To create a new URC in a building that currently lies mostly vacant in the city center
Vision	Bringing new life to something that, despite its potential, has seen its value reduced over time is one of the core premises of circular economy. ShoppingTown is a prime example of that. Previously a key piece of commercial real estate in the city, it has - like most of the older, smaller shopping centers located in the heart of cities across the country – become a casualty of the larger-scale malls that grew in more peripherical areas. Nowadays, ShoppingTown is mostly used as a passageway, connecting two different streets in the city center. And while a few shops close to the main entrance remain open a large portion of the space lies vacant. Taking advantage of the shopping center's strategic location and its characteristics, this action would see the installation of a brand new URC in that space, with multiple services and facilities directly connected to circular economy – From a "Circular Economy Kiosk" where residents can seek more information on the matters of circular economy in Famalicão or have their questions easily answered, to a showroom for pieces of furniture recovered from the Municipal Furniture Bank.
Lead Organization	Municipality of Famalicão
Key Partners	Project Team; ULG members;
Monitoring indicators	• Number of Circular Show Rooms • Number of Municipality Services installed • Number of visitors
Estimate of costs	150.000€
Resourcing	Municipality Budget; NORTE 2030; PT 2020
Timescale	2023 – 2025
Status	Ongoing analysis of the list of possible obsolete buildings to receive the URC

Risks and Mitigation Measures	This is a medium level risk
Inspiration	Silo Auto The sharing of buildings, equipment, materials and communication and distribution networks between different sectors reduces needs and stimulates the creation of new products or services. In the Silo Auto building, for example, Porto Municipality promotes the sharing of parking area with other initiatives of cultural nature and of promotion of circular economy.

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. URC: Survey of obsolete buildings "	Survey of obsolete buildings with a central urban location in Famalicão to constitute an Urban Resource Centre.	Municipality of Famalicão	ULG Members	2022 - 2025	Human resources of the municipality of famalicão
2. URC: Selection of the best infrastructure to accommodate the URC Centre in Famalicão	Transforming an empty and degraded building into an URC by: (i) creating business opportunities, (ii) equipping it with tools and public services to inform and raise awareness in the community.	Municipality of Famalicão	ULG Members	2022 - 2025	Human resources of the municipality of famalicão
3. URC: products, services and activities	Elaboration of a digital roadmap about the URC to potentiate its knowledge and use by the community	Municipality of Famalicão	ULG Members	2022 - 2025	Human resources of the municipality of famalicão

4. URC: Opening Event	Presentation of the Circular Equipment to the community	Municipality of Famalicão	ULG Members	2022 - 2025	Human resources of the municipality of Famalicão
5. URC: Mainstreaming results	B SMART Platform	Municipality of Famalicão	ULG Members	2022 - 2025	


Famalicão
O SEU LUGAR

Action 5.	Ecopark Project
Main Objective	To create a brand-new space for companies and industries, as a way to promote innovation and technological development on a sustainable basis
Vision	- To create a modern, sustainable space which provides ideal conditions for companies to settle in, driving innovation and technological advances. - Provide suitable supporting infrastructure, developed to maximize efficiency and promote a sustainable use of resources - Design and offer incentives as a way to reward good practices and set a positive example at local, regional and national scale.
Lead Organization	Municipality of Famalicão
Key Partners	Project Team; ULG members;
Monitoring indicators	• Number of installed companies applying circular economy principles furniture rehabilitated (number) • Circular and sustainable regulations/incentives for companies to set up business • Number companies taking part in a local condominium association • Energy consumption savings • Variation in the amount of waste generated
Estimate of costs	400.000€
Resourcing	Municipality Budget; NORTE 2030; PT 2030
Timescale	2023 - 2025
Status	Preliminary meetings between the Municipality, "MADE IN Cell" and companies to assess the current status quo of the 6 existing business host areas in the territory
Risks and Mitigation Measures	This is a medium level risk Effective and constant monitoring of funding opportunities arising from the next programming period within the scope of Portugal 2030
Inspiration	EcoParque do Relvão is a national cluster for environment and energy, with a growing and sustainable business community, based on strategies of collective efficiency, innovation and knowledge, and with a fundamental contribution for

	environmental protection and for the economic and social development of the region and the country. Eco Parque do Relvão - Câmara Municipal de Chamusca (cm-chamusca.pt)

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. "Areas for Business Accommodation: Diagnosis	Carrying out a diagnosis which will allow an effective assessment of the status quo of the business host areas in the territory of Famalicão. .	MADE IN	ULG Members (industry cell)	2022 - 2025	"MADE IN" and Famalicão Municipality human resources Expert consulting
2. Pilot "Business Hosting Areas" for sustainability: Diagnosis	Based on the existing business welcoming park in the territory, a welcoming area will be selected that meets the best conditions to become an "industrial anchor" in terms of circularity and sustainability in the welcoming and territorial implementation of economic activity.	MADE IN	ULG Members (industry cell)	2022 - 2025	
3. Management team for the responsible corporate hospitality area	Support for the creation of an entity responsible for the management of the ecopark to be created, in order to professionalise management and make the most of the multiple funding opportunities that	"MADE IN"	ULG Members (industry cell)	2022 - 2025	

	will arise to support sustainable and circular economy				
4. regulations for sustainable business hosting	Development of business hosting regulations that go beyond the usual financial and tax incentives and introduce the adoption of circular economy principles in the companies' value chain (energy, mobility)	"MADE IN"	ULG Members (industry cell)	2022 - 2025	
5. Platform	Mainstreaming results	Famalicão Municipality	ULG Members (industry cell)	2022 - 2025	

Action 6.	TERYS – EUROPEAN TEXTILE UPCYCLING ECOSYSTEM PROPOSAL
Main Objective	To reduce the environmental impacts of European textile production, through the implementation of an European textile upcycling system
Vision	- To become part of network of European cities looking to tackle the issue of textile waste and to promote the valorization of waste resulting from industrial production. - To create a textile processing centre, which operates on 3 distinct levels (collection, reusing and repairing) - Besides seeking to reduce textile waste in about 80%, this project would also aim to create new jobs in the textile sector, having therefore a direct, positive impact on the local economy.
Lead Organization	CITEVE
Key Partners	Municipality of Famalicão; Textile companies;
Monitoring indicators	• *general indicators* (organizational units, participating entities, joint supplier companies, number of material or knowledge networks); • *environmental indicators* (saved primary material and water resources, recycled solid waste, reduced CO2 emissions) • *economic indicators* (cost savings for human resources, material, energy, disposal, emission trading certificates) • social indicators (number of jobs created, joint social events, shared utilities and human resources, improved health and safety aspects)
Estimate of costs	200.000€
Resourcing	HORIZON EUROPE
Timescale	2023 - 2025
Status	An international application for the HORIZON EUROPE program is being submitted with other European partners

Risks and Mitigation Measures	This is a medium level risk Effective and constant monitoring of funding opportunities arising from the next programming period within the scope of Portugal 2030
Inspiration	To reduce the environmental impacts of European textile production, through the implementation of an European textile upcycling system

NAME	ACTION DESCRIPTION	RESPONSIBLE	KEY PARTNERS	TIMESCALE	RESOURCES
1. UPCYCLE	Upcycle 80 % of the collected recyclable solid textile waste; Applying circular business models for upcycling processes using innovative designs and digital technologies.	CITEVE	Textile Companies Municipality of Famalicão	2023 - 2025	
2. Reduce	Reduce the environmental impact of the European textile-producing industry in terms of primary materials use, water consumption, land use, and greenhouse gas emissions by upcycling textile waste instead of producing new clothing and household textiles for the same amount.	CITEVE	Textile Companies Municipality of Famalicão	2023 - 2025	
3. Increase	Increase employment within the textile and clothing sector by establishing a textile upcycling ecosystem incl. reskilling and upskilling programmes for upcycling.	CITEVE	Textile Companies Municipality of Famalicão	2023 - 2025	
4. Expand	Increase the market share of sustainable textiles by increasing	CITEVE	Textile Companies	2023 - 2025	

	the lifetime of textile fibres through upcycling design strategies and digital technologies.		Municipality of Famalicão		
5. Mainstreaming results	B SMART Platform	Municipality of Famalicão	CITEVE	2023 - 2025	

LOOKING AHEAD

Famalicão stands by its ambition to keep implementing new programs and projects which aims to support the transition towards circular economy, in straight articulation with the local stakeholders, with the goal of making city an example in terms of sustainable, circular practices.

Collaborating with and supporting local businesses and the community in the creation of solutions that actively contribute to sustainable development will remain a priority, so that all parties can be co-creators of a thriving city, which is proud of its green, environmentally friendly stance.

Establishing meaningful, mutually beneficial partnerships has long been one of the city's goals, and it is constantly moving forward in that sense, namely when it comes to industrial eco-innovation and eco-education projects. The work developed during this project, as well as the relationships established between the local stakeholders are expected to continue to help shape the city's policy-making process within the scope of circular economy.

The city council will therefore continue to coordinate the implementation of the planned actions, as described in this document, working in close proximity with current ULG members while also seeking to expand the current network by establishing new, mutually beneficial partnerships.