



WASTE PREVENTION


THE SEED FOR THE SUSTAINABILITY OF OUR
RESOURCES

LIPOR WASTE PREVENTION PLAN | 2022

INTRODUCTION

Natural capital is one of our most valuable assets. In order for Nature to last longer, it is necessary to know how to consciously embrace the management of resources, from the air we breathe, the water we drink, the land we live on, and the stock of natural resources we use daily, as they are essential for the functioning of the economy, the society and, above all, our way of life. We must not take these for granted! In fact, we must cultivate a relationship based on sharing and give back to nature what nature has lent us.

A key priority to ensure a sustainable economic growth is the continuous commitment with the preservation of natural resources. While the economy is well grounded in society, the protection of the ecosystem and the environment is taking its first steps and many risks remain. Thus, it is crucial to converge towards a more efficient and conscious use of resources, tying the ends of the circular economy that has been fostering new, more innovative business models, based on sustainable growth and financial optimization, combining with the reduction of the environmental impacts.



There are several ways to express our collaboration with Nature. Reduce, reuse or recover locally are options that contribute to a better management of resources, in which we all have a leading role. Assuming that waste reduction and an efficient use of resources must be the priorities for all sectors of the economy is also the path to a more sustainable future.

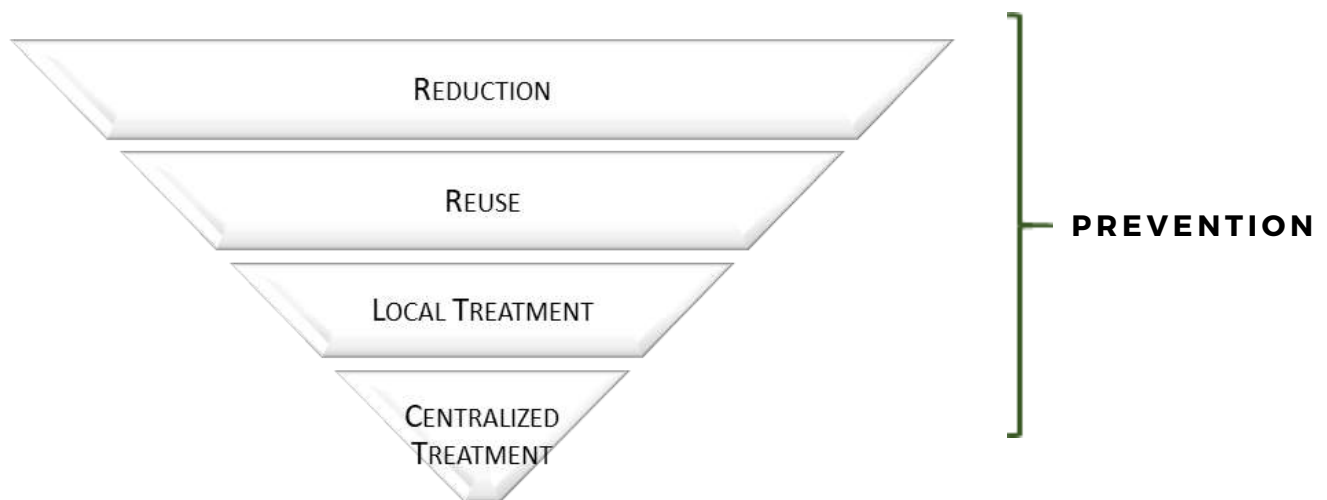
**THIS DOCUMENT PRESENTS LIPOR'S
COMMITMENT TO THE PROMOTION
OF WASTE PREVENTION.**

WASTE PREVENTION



From an environmental and sustainability point of view, the best waste is the one that is not produced. However, in recent years, there has been an increase in waste production, so it is imperative to act at all levels (from extraction to waste production), making waste prevention - reduction, reuse and local treatment - a priority for a more sustainable management. Therefore, we invite the community to rethink their daily consumption options.

In line with European guidelines, the commitment of Lipor and its Associated Municipalities, is starting to act, in order to convert circular challenges into opportunities.



A Waste Prevention Ecosystem.

WASTE PREVENTION: WE ACT IN FAVOUR OF THE SUSTAINABILITY

A COMMITMENT THAT WE SHOULD ALL EMBRACE

This plan is constituted by seven areas of activity, all of them related, in order to create a circular system, in which the preservation of resources, the promotion of biodiversity, sustainability and community involvement are the key drivers.



AREAS OF ACTIVITY:

1. WE REDUCE WASTE
2. WE REUSE MATERIALS
3. WE RECOVER LOCALLY
4. WE ADOPT THE SUSTAINABLE PUBLIC PROCUREMENT
5. WE INVESTIGATE AND INOVATE
6. WE SHARE KNOWLEDGE AND A SUSTAINABLE LIFESTYLE
7. WE MEASURE THE IMPACT

**THE PRIORITY GIVEN TO
WASTE PREVENTION
DEMONSTRATES OUR
COMMITMENT!**

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1. We reduce waste

We transform valuable materials and natural resources into goods and services on which modern life and the economy depends. However, it is essential to rethink the way we do it and focus on local production, conscious consumption and waste reduction.

Thus, we are fully committed to reducing waste, the carbon footprint and contributing to the Sustainable Development Goals (SDGs).

Our ACTIONS:

- We invest on local food production, linking it with local treatment
Horta à Porta
- We promote the biodiversity
Lipor's Sustainable Green Spaces
- We reduce food waste in the catering sector
Dose Certa | Embrulha.
- We promote the food donation network
Banco Alimentar | ReFood | Zero Desperdício
- We encourage ideas and businesses related to the theme
GoodAfter | Fruta Feia | Too Good To Go



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2. We reuse materials

Despite advances in technology, the average useful life of many products purchased for daily use is still very short. We consider that products must be lasting solutions, not disposable.

It is essential to extend products lifecycle, through reuse, repair, creative and useful recovery, as well as evolving towards new models that optimize their use, through swap or sharing.

We intend to reduce waste production through reuse, involving citizens, to promote the necessary change of attitude, from "use and throw away" for a greater valorisation of used goods and products. We also intend to promote training on this subject.

Our ACTIONS:

- We promote Good Practices of Reduction and Reuse in the Community
Banco de Bens Lipor / Centro de Reutilização Lipor / CREW / UpCycling / T-Circular
- We enhance the performance in the Reuse area through Partnerships
Alexandra Arnóbio Upcycling / Centro Social de Ermesinde / Lady in Green/ Let's Swap/ Semente - Ass. de Voluntários / Zero Desperdício
- We provide Citizens with information that facilitates sustainable consumption, products maintenance over time and products reuse.



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3. We recover locally

Locally recovery of waste represents the opportunity that each community has to manage and recycle these resources in its own local community, instead of sending it to a centralized processing facility or, often, to a landfill. Examples are home composting, community composting and vermicomposting solutions, among others, which allows the producers of biowaste to be, at the same time, the recyclers, obtaining their own compost.

Recycling waste at source improves quality in the recovery and transformation of waste into a resource and reduces transport and processing costs.



We all need to take responsibility for the waste we produce. We cannot dump them in other people's backyards and force them to bear the burden of our reckless, consumption-based lifestyle. You can use and abuse of waste, not rejecting what we may need.

Our ACTIONS:

- We increase home composting
Terra-à-Terra
- We invest on community composting (voluntary or more structured format)
Espaços de Compostagem Comunitária
- We promote the green waste composting
Parque Gorgolito

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4. We adopt the Sustainable Public Procurement

Sustainable public procurement has an huge potential in the transition to a more circular economy. It consists in a powerful tool in order to meet several objectives, whether environmental, innovation, or even social inclusion. These challenges influence the relationship between buyers and suppliers, while represents an opportunity to explore the huge potential of public procurement in developing markets for innovative products and solutions.



Sustainable public procurement is expanding in Europe, as it encourages circularity, namely a more circular design, increased use of recycled content in products, ensuring reparability, reuse and proper recycling of products and materials, as well as the promotion of maintenance services. For instance, the replacement of primary resources by reused or recycled materials, which can have a high impact in sectors such as construction, Information and Communication Technologies, textiles, furniture and food.

Our ACTIONS:

- **We promote Good Practises on Sustainable Public Procurement**

Sustainable Public Procurement Platform

[HTTPS://CENTRALDECOMPRAS.LIPOR.PT/](https://centraldecompras.lipor.pt/)

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5. We investigate and inovate

For the innovation to be capable of transformative change, our knowledge, data or technology must meet these ambitions.

We know that innovation is vital - not only for developing new solutions/approaches but also for improving the efficiency, cost and/or effectiveness of existing technologies. The creation of synergies with organizations, industry and universities are key drivers for innovation. Innovation is part of our DNA.

Our ACTIONS:

- We promote the application of Life Cycle Analysis to products and services
CREW Project
Dose Certa Project

- We study and develop:

Assess the impact of the admission of cooked Food waste in the local biowaste treatment process

Reuse Sector Characterization



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6. We share knowledge and a sustainable lifestyle

The involvement and active participation of the Community is essential for the success of any waste prevention action. Through communication, training and awareness, we would like to promote a development of a sustainable lifestyle in the Community.

Through communication we allow the dissemination of our knowledge on waste prevention; through awareness raising we encourage the behaviour change, and through training we promote the improvement of skills and knowledge. We value resources and people. We embrace sustainability and we make it a way of life.

Our ACTIONS:

- We promote sustainable waste prevention actions across Europe, mobilizing local communities
European Week for Waste Reduction (EWWR)
- We disseminate projects and initiatives for the adoption of good practices on waste prevention
Prevention Tips
Library of Things
Partnerships
- We encourage sustainable behavior in the community, as well as the creation of circularity environmental management models, at an individual or institutional level.
Lipor Geração +: Educational, Local and Families Axis.
- We train the community on Waste Prevention
Lipor Academy Training
Training Programme EWWR
Workshops Bio, Upcycling & Repair Café



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7. We measure the impact

At a time in which information is valuable, obtaining data and gathering high quality information is essential for demonstrating the results that we share with the whole community. In addition, it allows us to formulate effective policies, helping our region to continue on the path towards Sustainability.

Our ACTIONS:

- We ensure the reporting and quarterly update of the platform
Lipor's Observatory
-reduction and reuse area
- We promote the expansion of the Observatory's Partners network
- We continue to improve the statistical validation of the quantification methodologies of projects/initiatives.

PARTNERS:



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Commitment 2022

MEASURES	OBJECTIVES	ACTIONS	INDICATORS	TARGETS
PROMOTION OF GOOD PRACTICES FOR REDUCTION, MANAGEMENT AND LOCAL TREATMENT OF BIOWASTE	INTEGRATE IN COMMUNITY DYNAMICS, GOOD PRACTICES OF ORGANIC FARMING AND SUSTAINABLE PRACTICES OF MANAGEMENT AND/OR MAINTENANCE OF GREEN AREAS	SUSTAINABLE GREEN AREAS	CREATE A KITCHEN GARDEN AT INSTITUTIONAL OR SOCIAL RESPONSIBILITY LEVEL	1
			NR OF KITCHEN GARDENS WITH SOIL AND WATER ANALYSIS – VALIDATE FOOD QUALITY	10
			% OF COMPOSTERS IN ACTIVE KITCHEN GARDENS	60%
			NR. OF ANNUAL MONITORING OF KITCHEN GARDENS	4
			% OF ACTIVE PLOTS IN KITCHEN GARDENS MANAGED BY LIPOR	95%
			SUSTAINABLE GREEN AREA – KITCHEN GARDENS (M2)	2500
			GREEN AREA MANAGED THROUGH SUSTAINABLE PRACTISES (M2)	1 600 000
	INTERVENE IN THE FOOD CHAIN, MINIMIZING WASTES GENERATED IN ITS PROCESSES, BOTH AT THE PRODUCER AND CONSUMER LEVELS.	FOOD WASTE	NR. OF NO WASTE (NÃO AO DESPERDÍCIO) CERTIFICATIONS	13
		DOSE CERTA	NR. OF NEW ACCESSIONS (NETWORK ENLARGEMENT)	5
		EMBRULHA.	ENSURE MONITORING OF DC RESTAURANTS/CANTEENS	100%
	FACILITATE THE COMMUNITY ACCESS TO PRACTICES THAT PROMOTE A BALANCED MANAGEMENT OF THE ORGANIC FRACTION OF WASTE PRODUCED IN DAILY ACTIVITIES OF CITIZENS.	HOME COMPOSTING	NR. OF NEW ACCESSIONS EMBRULHA. (2 MUNICIPALITIES)	20
			NR. OF DELIVERED COMPOSTERS/YEAR	1000
		COMMUNITY COMPOSTING	10% MONTHLY MONITORING OF HOME COMPOSTING COMPARED TO THE SAME MONTH OF 2020	10%
			10% MONTHLY MONITORING OF HOME COMPOSTING COMPARED TO THE SAME MONTH OF 2021	10%
			NR. OF NEW COMMUNITY COMPOSTING SITES	10
		ELECTRIC COMPOSTER	% BIENNIAL MONITORING/FOLLOW-UP OF VOLUNTARY COMMUNITY COMPOSTING	100%
			% QUARTERLY MONITORING/FOLLOW-UP OF COMMUNITY COMPOSTING SPACES	100%
GREEN WASTE PARK – GORGOLITO'S PARK	IMPLEMENT IN A NEW PLACE	1		
EXPAND BIOWASTE PREVENTION PROJECTS AND REPLICATION IN NEW MUNICIPALITIES	PROMOTION OF BIOWASTE CIRCULARITY WITHIN THE SCOPE OF CITYLOOPS - H2020 - PROJECT BEING DEVELOPED WITH THE MUNICIPALITY OF PORTO	NR OF USERS	15	
		PROJECT EXECUTION (%)	90%	
		NUMBER OF DEVELOPED CIRCULARITY TOOLS (CIRCULARITY CHECKLIST; PREDICTIVE TOOL; CIRCULAR PUBLIC PROCUREMENT; CERTIFICATION MODEL OF GA)	4	

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MEASURES	OBJECTIVES	ACTIONS	INDICATORS	TARGETS
PROMOTION OF GOOD PRACTICES FOR WASTE REDUCTION AND REUSE	IMPLEMENT IN ALL THE ORGANIZATION ACTIONS TO PROMOTE WASTE REDUCTION, ESPECIALLY SINGLE-USE PLASTICS REDUCTION, TO PROMOTE REUSE AND THE SUSTAINABILITY IN GENERAL	ACTION PLAN #SOMOSPELASUSTENTABILIDADE	ACTION PLAN EXECUTION (%)	90%
			CREATION OF LIPOR'S GOODS BANK	1
	PROMOTE THE CREATION OF PARTNERSHIPS THAT REINFORCE THE INTERVENTION IN REUSE AND RECOVERY AXIS, ENHANCING SYNERGIES THAT CONTRIBUTE TO THE REINTRODUCTION IN THE VALUE CHAIN OF DIFFERENT MATERIAL FLOWS - CLOSING OF RESOURCES CYCLES	PARTNERSHIPS WITHIN THE SCOPE OF THE REUSE AND RECOVERY STRATEGY	CREATION OF PARTNERSHIPS WITH MUNICIPALITIES AND/OR NEW PARTNERS	1
			NUMBER OF ACTIVITIES DEVELOPED WITHIN THE SCOPE OF REUSE STRATEGY PARTNERSHIPS	5
		UPCYCLING LIPOR	NUMBER OF REUSE TIPS - DO IT YOURSELF	6
			CREATION OF A DIGITAL GUIDE GOOD PRACTICES FOR REDUCTION AND REUSE	1
	CREATE NEW ACTIVITIES IN THE REUSE CENTRE LOCATED AT FORMIGA DROP-OFF SITE, WITH THE LAUNCH OF A NEW VISIT CIRCUIT AND A NEW ACTIVITIES PLAN DEDICATED TO MULTIMATERIAL REUSE AND RECOVERY	CENTRO DE RECUPERAÇÃO E REUTILIZAÇÃO DA LIPOR (FORMIGA DROP-OFF SITE)	REUSE CENTER ACTIVITIES PLAN	1
			ACTION PLAN EXECUTION (%)	90%
	PROMOTE TEXTILES REDUCTION AND REUSE, THROUGH INNOVATIVE INITIATIVES FOR THE COMMUNITY. ENCOURAGE THE CREATION OF SUSTAINABLE CONSUMPTION HABITS - SLOW FASHION, AS WELL AS CLOTHING REUSE.	T-CIRCULAR	ACTION PLAN EXECUTION (%)	90%
			CREATION OF A DIGITAL GUIDE "CONSERVATION OF TEXTILES"	1
GIVING A NEW LIFE TO ELECTRICAL AND ELECTRONIC EQUIPMENT (EEE), INVOLVING THE COMMUNITY AND EMPOWERING THEM TO REPAIR EEE.	CREW PROJECT	TOTAL HOURS DEDICATED TO EEE REPAIR (H/YEAR)	800	
PROMOTION OF GOOD PRACTICES IN SUSTAINABLE PUBLIC PROCUREMENT	INCORPORATE SUSTAINABLE CRITERIA IN THE PURCHASING PROCEDURES	SUSTAINABLE PUBLIC PROCUREMENT PLATFORM	NR. OF TERMS OF REFERENCE WITH CIRCULAR CRITERIA IN THE PURCHASING CENTRAL	2
			NR. OF IMPLEMENTED FRAMEWORK AGREEMENTS	1
PROMOTION OF AWARENESS, EDUCATION AND TRAINING ACTIONS WITHIN THE COMMUNITY	PROMOTE SUSTAINABLE ACTIONS ABOUT WASTE PREVENTION IN ALL EUROPE. MOBILIZE AND ENCOURAGE THE HIGHEST NR OF CITIZENS.	14 th EUROPEAN WEEK FOR WASTE REDUCTION (EWWR)	NR. OF INSCRIBED ACTIONS	200
			EWWR ACTION PLAN EXECUTION (%)	90%
	DISSEMINATE INFORMATION ABOUT WASTE PREVENTION PROJECTS AND RAISE AWARENESS TO PROMOTE GOOD PRACTICES ON WASTE PREVENTION	COMMUNICATION AND AWARENESS FOR WASTE PREVENTION	NR OF PAGE VIEWS – LIPOR WEBSITE WASTE PREVENTION AREA	80 000
			NR OF PUBLISHED NEWS ABOUT WASTE PREVENTION	220
			COMMUNICATE PROJECTS/INITIATIVES TO INTERNATIONAL AND NATIONAL ASSOCIATIONS INCLUDED IN LIPOR'S DATABASE	12
			NR OF PUBLISHED NEWS /YEAR – PREVENTION TIPS	40
	PROMOTE SUSTAINABLE BEHAVIOR AMONG THE COMMUNITY, FACILITATE THE CREATION OF CIRCULAR ENVIRONMENTAL MANAGEMENT MODELS, AT INDIVIDUAL OR INSTITUTIONAL LEVEL.	LIPOR GERAÇÃO+	EDUCATIONAL AXIS - NR. OF CERTIFICATIONS	15
			EDUCATIONAL AXIS - NR. OF MONITORING ACTIONS IN CERTIFIED INSTITUTIONS	155
			LOCAL AXIS - EXTENSION TO A NEW PC, WITH THE SIGNING OF A PROTOCOL	1
			FAMILIES AXIS - NUMBER OF FAMILIES INVOLVED IN THE PILOT PROJECT	3

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MEASURES	OBJECTIVES	ACTIONS	INDICATORS	TARGETS
TRAINING AND PROVIDING CAPACITY OF THE COMMUNITY TO ADOPT GOOD PRACTICES FOR WASTE REDUCTION AND REUSE	ENSURING THE COMMUNITY'S ACCESS TO INFORMATION AND INITIATIVES THAT PROMOTE AN INCREASING OF CITIZENS ENVIRONMENTAL AWARENESS	WASTE PREVENTION TRAININGS PROMOTED BY LIPOR ACADEMY	NR OF TRAINING COURSES CARRIED OUT BY LIPOR ACADEMY (Bio/UPCYCLING/ PREVENTION)	35
		WORKSHOPS/EVENTS – REDUCTION AND REUSE	NR OF UPCYCLING WORKSHOPS (GERAÇÃO+/LIPOR REUSE CENTRE)	13
			NR OF CREW EVENTS	24
			NR OF TRAINING HOURS CREW (h/YEAR)	120
DISSEMINATE INFORMATION ABOUT THE EUROPEAN WEEK FOR WASTE REDUCTION AND PROVIDE PARTICIPANTS WITH KNOW-HOW TO PARTICIPATE IN THE EWWR	EWWR TRAINING PROGRAMME	NR OF PARTICIPANTS IN EWWR TRAINING PROGRAMME	80	
MEASURING THE IMPACT OF REDUCTION AND REUSE ACTIONS	LIPOR OBSERVATORY - OPTIMIZE LIPOR AND PARTNER ENTITIES, DATA REPORTING, AS WELL AS THE COLLECTED INFORMATION TREATMENT	ENSURE THE MEASUREMENT AND REPORTING OF REDUCTION AND REUSE AREA	BIOWASTE DIVERSION- HOME AND COMMUNITY COMPOSTING (kg/ANO)	345 000
			POTENTIAL DIVERSION OF FOOD WASTE (kg/YEAR) - MZD EMBRULHA DOSE CERTA EVENTS 100 DESPERDÍCIO	150 000
			AMOUNT OF MATERIAL DIVERTED FOR REUSE AND RECOVERY (CREW, UPCYCLING, AND OTHER INTERNAL PROJECTS/SUPPORT) (Kg/year)(CREW, UPCYCLING, E DEMAIS PROJETOS INTERNOS/APOIOS) (Kg/ANO)	2 500
IMPROVING PROCESSES FACILITATING CIRCULARITY AND THE REDUCTION OF RESOURCES CONSUMPTION	PROMOTE THE DEVELOPMENT OF LIFE CYCLE ASSESSMENT STUDIES	LIFE CYCLE ASSESSMENT - DOSE CERTA PROJECT	ACTION PLAN EXECUTION (%) LCA DOSE CERTA	90%
	CHARACTERIZE THE REUSE SECTOR IN LIPOR'S AREA, MONITOR ITS IMPACT ON WASTE PREVENTION AND ENHANCE SYNERGIES, IN ORDER TO STRENGTHEN LIPOR'S REUSE STRATEGY	LIFE CYCLE ASSESSMENT – CREW PROJECT	ACTION PLAN EXECUTION (%) LCA CREW	100%
		CHARACTERIZATION STUDY OF THE REUSE SECTOR IN LIPOR'S AREA	ACTION PLAN EXECUTION (%)	90%
	IMPROVE MONITORING OF IMPLEMENTED COMPOSTERS IN LIPOR'S AREA USING DIGITAL TOOLS	DEVELOPMENT OF SENSORS FOR COMPOSTERS	PROJECT EXECUTION (%)	90%
	ASSESS THE IMPACT OF THE ADMISSION OF COOKED FOOD WASTE IN THE LOCAL BIOWASTE TREATMENT PROCESS	DEFINITION AND DESCRIPTION OF THE METHODOLOGY FOR THE ADDITION COOKED FOOD WASTE AT LOCAL TREATMENT	METHODOLOGY DOCUMENT (ABLE TO BE SHARED)	1
	RESEARCH AND DEVELOP TECHNOLOGICAL AND BIOTECHNOLOGICAL SOLUTIONS TO ENHANCE THE BIOECONOMY, THE DIGITALIZATION OF INDUSTRY AND THE REDUCTION OF FOOD WASTE, (BIOMA - BIOECONOMY INTEGRATED SOLUTIONS FOR THE MOBILIZATION OF THE AGRIFOOD CHAIN (COMPETE)	DEVELOPMENT OF AN INTEGRATED TRACEABILITY SOLUTION FOR THE AGRIFOOD VALUE CHAIN (BIOTRACE)	PROJECT EXECUTION (%)	90%



"Attitude is a little thing that
makes a big difference."

-Winston Churchill-