



# The exploitation of project results

*Project no: 2020-1-ES01-KA204-083226*



## Table of Contents

Introduction	4
Information on partnership level	4
1. How will Zero Waste change your internal processes?	4
ESCIENCIA	4
INSTITUTO AGROALIMENTARIO DE ARAGÓN – IA2	5
FEDERACION ARAGONESA DE MUNICIPIOS COMARCAS Y PROVINCIAS - FAMCP	5
PREVIFROM	6
SITES Ltd.	6
SPEKTRUM EDUCATIONAL CENTER FOUNDATION (SEC)	6
2. How will Zero Waste change the services and/or products you offer to your target groups and/or stakeholders?	7
ESCIENCIA/ES:	7
IA2/ES:	7
FAMCP/ES:	8
PREVIFROM/PT:	8
SITES/IR:	8
SEC/RO:	8
3. Provide the concrete steps you will take in the coming year to make this exploitation of results a reality.	9
ESCIENCIA/ES:	9
IA2/ES:	9
FAMCP/ES:	9
PREVIFROM/PT:	10
SITES/IR:	10
SEC/RO:	10
4. If there are any specific plans, activities, or actions your organisation has related to further use of the project results, please describe them in detail at this point.	11
PREVIFROM/PT:	11
SITES/IR:	11
SEC/RO:	11
Closing remarks	12



## Introduction

This document is to recollect the information on the individual exploitation plans for each of the partners related to training and education of their own organisations.

### **Training methodology**

The basic guide to learning new learning and teaching methodologies through gamification, such as puzzles, challenges and tests.

### **Digital Toolkit and Role-Playing Games**

The biggest resource diversity includes contests, digital games, gamification examples, workshops and role-playing games.

### **Good Practices Guide**

The guide serves as a reference in order to take actions related to food waste so that families can download and use it easily at home.

### **Scientific Content**

The present document is summarizing the plans of the Zero Waste consortium in regard to the best exploitation possibilities foreseen in their own countries. The planned actions vary according to each partner's expertise and field of activities. Nevertheless, it can be generally stated that all partners have improved their transnational skills, as well as their knowledge about the topic of food waste and the countries' state of the art in this respect as a result of the research done for the case studies.

## Information on partnership level

### 1. How will Zero Waste change your internal processes?

For these questions, partners have summarised the benefits of taking part in the Zero Waste project and the changes this might bring to their internal progressions.

In **Spain**, there were three participating organizations involved in the project, coming from different fields, namely: Science Communication and popularization of Science, university research structure and the public sector.

### ESCIENCIA

Being the promoter of the project and having waste experience in bringing specific topics close to different target groups has named the following:

- Increasing the quality of the work, activities and practices done at ESCIENCIA opening up to new actors at the European level.
- Increasing the capacity of the organisation to work transnationally and across sectors;
- Raising awareness about food waste to address common needs and priorities in education.
- Enabling transformation and change (at individual, organisational or sectoral level), leading to improvements in the organization such as leading European projects, and discovering new working approaches.

## INSTITUTO AGROALIMENTARIO DE ARAGÓN – IA2

Has been developing the Scientific content and has covered all the research-related activities within the project in the field of food waste, concluded the following:

- In terms of research, the project has enabled us to explore a topic that could become a new line of research at IA2 on food waste. Thus, researchers from different disciplines have been connected on a topic such as food waste in order to develop the scientific content in IO1 (training methodology), through an approach from different perspectives that have merged into a multidisciplinary working team with great potential. Some of the researchers have already indicated their interest in continuing to work on this topic.
- In terms of academic training, the scientific content and training methodology (IO1) has been developed with a training purpose, so that it can be considered as support in training programmes developed and carried out by the University of Zaragoza
- In terms of dissemination, one of the IA2's specific objectives is to bring science closer to society. In the IO2, a repository of a digital toolkit and role-playing games has been developed that will be very useful to support our activities and science dissemination events in which IA2 is involved, these tools are a didactic and playful way to transmit concepts and all the knowledge that has been generated about the topic of food waste in this project.
- The good practice guide (IO3) has been an excellent tool to learn about actions and good practices related to the reduction and prevention of food waste, some of them in our locality. It is a support document for IA2 that will be used in the development of future actions, as well as it has generated knowledge and understanding of the actions of other organisations, as well as potential contacts in order to launch new projects.
- Finally, participating in a European project, with partners from different countries and disciplines, has increased the network of contacts and potential partners. This network will be used in the future in order to get new projects, either on the same topic or in another where our interests meet.

## FEDERACION ARAGONESA DE MUNICIPIOS COMARCAS Y PROVINCIAS - FAMCP

- At the internal level of the organization, ZW has helped us to analyse the causes of the food waste problem, as well as to learn guidelines and strategies when better planning the acquisition of food, its correct organization/preservation at home, a schedule of coherent menus, and reuse.
- The FAMCP, thanks to ZW Erasmus+, has generated synergies and alliances with other public and private organizations. During this year and a half, we have been able to publicize, and disseminate the project, to detect the best good practices at the regional level against food waste. The [government of Aragon](#) and the FAMCP have created an exchange of information that will be seen in future results of collaboration in campaigns against food waste as with waste management. As well, other private entities, with which we have established synergies, are the [FAS](#) (Aragonese Federation of Solidarity, for the search for a fairer and more supportive world, through education for development, awareness raising, and training) and [CERAI](#), an entity that is committed to food sovereignty and agroecology approach and defends living

and respectful rural space). These alliances of exchanging points of view, suppose the beginning of actions in which we can continue and strengthen, based on common objectives-

## PREVIFROM

In **Portugal**, having a wide range of experience in the area of adult training, the perceptions mentioned were as follows:

- The experience of this project will affect our internal processes in two main ways,
  - in terms of the provision of food safety services, where the procedures developed in the project, in terms of excess food produced and its impacts, which are now included in the food safety reports (if applicable<sup>9</sup>, as a non-compliance or improvement measure on the part of the customer providing meal services.
  - On the other hand, especially in terms of adult training, we will directly include this topic in our courses - with its own curriculum or included in subjects linked to citizenship.

## SITES Ltd.

In **Ireland** partner of the project, SITES - a Sustainable Innovation Technology Services Limited (SITES) a high-growth knowledge-intensive consulting company, has seen their benefits as

- Firstly, related to training methodology, SITES, in collaboration with its local associate partner, the Shannon Chamber, will exploit the future collaboration and national synergies based on the SkillNet programme which is related to the sustainability skill network in Ireland. Water will be tested in terms of public and private funding opportunities to further develop the project results, e.g. Erasmus +, in a variety of mobility, regional and national funds, etc.
- Secondly, related to the digital toolkit and the role-playing games, they can be used in future events in Ireland, as in the case of the Science Week and the Irish National BioEconomy week.
- Finally, regarding the Good practices Guide, in collaboration with Shannon Chamber, SITES will create a regional repository with new practices thanks to the technical working table with local companies, schools, and local authorities which will be set up at the beginning of 2023 and new academic publication are foreseen with internal universities.
- The ZW project gave additional knowledge over training methodology and gamification tools. This new knowledge permits us to better understanding the research on stakeholders based on interviews.

## SPEKTRUM EDUCATIONAL CENTER FOUNDATION (SEC)

In **Romania**, also an adult education provider institution, has mentioned the following:

- SEC being an active actor in the educational field of the region in which it is situated, the Zero Waste ideas and developed materials can be implemented within its different partnerships with local/regional actors of the field the Zero Waste results were developed for.



- Not only can these materials be used by our part-time teachers in their classes at SEC, but they can also influence the knowledge about the importance of tackling food waste in their schools, where they have their regular classes.
- Moreover, informing and engaging our staff within the project development processes led to having a more conscious internal team in terms of zero waste and zero food waste alike. Even though our organisation has been already implementing many aspects for being an environmentally friendly and less waste producer (using filtering can for our tap water instead of bottled water, using glasses/cups for our meetings, own use in the offices as to reduce the use of water, recycling paper/cardboard, not printing unnecessary documents, etc.) we are sure that these changes are being implemented by all our staff members also in their personal lives. Therefore, the personal development of our staff can be mentioned, which consequently enhances the rural region we are located in.
- Developing further partnerships and collaboration possibilities have increased the network of contacts and potential partners for further cooperations.

## 2. How will Zero Waste change the services and/or products you offer to your target groups and/or stakeholders?

For this aspect, the gathered responses were as follows:

### ESCIENCIA/ES:

- Throughout the implementation of the project, what we have learnt is that adult education needs a new approach to implement an Erasmus+ Project. Although along the execution in the schools and events, we have achieved the objectives proposed, we should offer more activities where all the agents can participate at the same time such as more workshops as the ones included in the intellectual outputs. Adults as well as children learn better by doing. In our region, ESCIENCIA has contributed to raising awareness about food waste through the organization of multiple events where people have the opportunity to learn about facts and tips to reduce food waste at their homes.

### IA2/ES:

The intellectual outputs developed in the Zero\_Waste Project will change IA2's services and products in several aspects:

- Scientific content has been created in IO1 and will be exploited at an academic level and in new education projects and proposals. It will be available for free download on the project website.
- A scientific team of researchers from IA2 has been established to develop the scientific content of the IO1. This has led to the creation of a working group with the potential to continue collaborating and to open this line of research dedicated to preventing/avoiding food waste in households. It is a multidisciplinary team that brings together various scientific



disciplines such as food safety, social studies, economic, environmental and social impacts, etc. This will be a new research line that we will be able to offer to our services.

- The development of the scientific content (IO1) and digital toolkit and role-playing games will provide the basic tools that can be used in all the dissemination events and activities in which IA2 is involved. This will mean diversifying and adding new dissemination activities to our catalogue.
- IA2 is part of knowledge platforms and governmental councils (City Council of Zaragoza). Having participated in this project accredits us as interlocutors in food waste topics.

### FAMCP/ES:

- Our main stakeholders as the Regional Government of Aragon, the totally Aragonese local entities associated with FAMCP, and other entities such as the Development Agency, Consumer Associations, have been not only Stakeholders but also recipients of the developed project results of ZW.
- During the pilot development, we have spread our focus of target groups to the adult education schools, we have opened a scope of work, which will allow us, thanks to the new contacts of educational centres, teachers, etc to achieve better results for new projects and future activities.

### PREVIFROM/PT:

- The changes will mainly be at the level of the training courses given, with greater emphasis on these issues of the need to change consumption habits among our adult trainees, creating awareness of the effects and impacts of consumption above our needs and seeking that these trainees pass the message along to the social and family environment where they are inserted, thus contributing to passing on information on the subject. Also, in the food safety services provided, we will try to make customers aware of the importance of the topic, which can also result in savings and rationalization of means for these customers.

### SITES/IR:

- The ZW project changed services in particular during the COVID-19 crisis which was extremely important for the food supply chain and the co-creation activities between producers, retailers, and consumers. In particular, consumer behaviour in food waste in the rural area in Ireland has had an important impact also as a result of the ZW project.

### SEC/RO:

- Even though, SEC is an educational centre providing many different pieces of training and courses from language courses to teacher training activities and is trying to respond to the various different educational needs which arise within our region, we have not been providing learning opportunities related explicitly to food waste. The methodology of



gamification has been already used within our programmes, nevertheless using it for food waste is new to our portfolio, and has a high exploitation potential.

- The **Training methodology** alongside the **Digital Toolkit and Role Playing Games** will be further distributed through the networks of teachers' associations, due to our close collaboration with them. This could ensure a county-wise spread of the developed Zero Waste materials.
- Moreover, the developed materials will be used also for language learning purposes as they have the potential of being a good base for vocabulary improvement.

### 3. Provide the concrete steps you will take in the coming year to make this exploitation of results a reality.

#### ESCIENCIA/ES:

- The activities that ESCIENCIA will do in order to exploit the intellectual output developed along the project are:
- Publishing of practical resources on the Zero Waste Facebook page. This strategy is aimed at keeping the engagement of the followers as well as providing info and tips to reduce food waste.
- Development of two newsletters with content about the intellectual outputs elaborated for the project, encourage them to use it and share their findings on social media.

#### IA2/ES:

- IA2 regularly participates in an activity organised by the University of Zaragoza in the context of an outdoor agro-food market of local products ("Mercado Agroalimentario del Campus San Francisco"). In this setting, IA2 presents its dissemination projects to the public attending the market. Throughout the year 2023, we will participate in at least once showing the Zero\_Waste project and providing practical information on the digital toolkit and role-playing games that have been developed.
- IA2 is part of the Zaragoza Municipal Food Council, participating in several of its working groups, including the one specialising in Food Waste. The Zero\_Waste project results will be presented and shared with the rest of the members of the working group and the Council in the next working sessions during the year 2023.
- We will create a direct link to the Zero\_Waste project website from our corporate website.

#### FAMCP/ES:

- 30/11/22 **La Calle Indiscreta**: Urban Environment Classroom, an initiative of the Government of Aragon which is intended to deal with the main environmental problems of urban centres and discover what you can do as a citizen to minimize the environmental impact in your environment. Help to understand its consequences, both locally and globally. Reflect on the individual responsibility we have regarding these problems and motivate people towards positive attitudes to solve them.
- Collaboration in the dissemination with regional government Activities: <https://www.lacalleindiscreta.es/agenda-amau/>
- FAMCP collaborates in the dissemination and participation
- 2023 Scholar Year. Within the collaboration agreement that the FAMCP has with the European Movement, responsible for disseminating EU values, and giving talks to students of High Aragonese Schools, the Council of the European Movement, about the origin,

perspectives and values of the European Union. Famcp will deliver and disseminate the Erasmus+ project and the value of education in concepts of how we can help 7 improve Zero waste. The FAMCP will share all the products and deliverables of the project for the dynamization of the talks.

### PREVIFROM/PT:

- The two activities where the results of this project will be applied are the training of adults and the provision of food security services.

### SITES/IR:

- Step1: Collaboration with Shannon Chamber with Educational stakeholders, SMEs and consumer groups through a working table on food waste at the beginning of 2023 in Western Ireland, particularly focused on three main areas: skills, legislation, and data monitoring for food waste at a regional level and support to the national consultation strategy organised by EPA by mid-2023. The partnership will be sealed via the signature of the collaboration agreement between SITES and the Shannon Chamber.
- Step 2: Replication of the good practices report in new publications and training activities paying due attention to the indicators identified in the report which could be beneficial for educational stakeholders, SMEs and consumer groups of Western Ireland.
- Step 3: Identification of new funding sources (public and private) to support regional activities in the field of reduction of food waste.

### SEC/RO:

- As a result of the Zero Waste project, having a well-developed and thoroughly thought-out training material based on practical exercises and thorough scientific material, SEC will seek to establish close contact with the professionals who have already tested the developed Zero Waste outcomes and will make sure to introduce the Zero Waste methodology and materials, training opportunities in its regular course offer, contributing therefore to the enhancement of the skills of the regional professionals' working with different target groups. These professionals will be able at their end to further spread the word about this important issue and methodologies. Moreover, the Scientific content will be distributed to professionals working in the field.
- The project information and website link will be available on SEC's website in the project's archive for another 2 years. Our website has an average number of 4000 unique visitors.



4. If there are any specific plans, activities, or actions your organisation has related to further use of the project results, please describe them in detail at this point.

#### PREVIFORM/PT:

- Our plan involves, above all, the inclusion of the various pedagogical materials created throughout the project, in the curricula of the courses, or by creating specific disciplines for this theme (in the case of courses related to cooking and gastronomy) or in disciplines linked to citizenship, in the courses that are no longer directly linked to this topic.
- As we intend to expand our activity to youth exchanges, this topic will also be addressed in internships for young people at our institution, especially when these internships are related to catering services.

#### SITES/IR:

- Additional exploitation activities will be dedicated to policy guidelines for local stakeholders and citizen engagement with small workshops during future events in Ireland.

#### SEC/RO:

- Additional exploitation activities will be dedicated to further awareness raising about the importance of the topic on different stakeholder levels and citizen engagement by conducting small workshops, during future events organised by SEC.



## Closing remarks

According to the Food and Agriculture Organization of the United Nations (FAO), approximately one-third of global food production for human consumption around the world is either lost or wasted each year, this is the equivalent of 1.3 million tonnes of food. In the European Union (EU), it is estimated that food waste is around 89 million tonnes, which represents 20% of food produced in the EU, and with an associated cost estimated at 143 billion euros. This situation is ironic in a world where more than 800 million people suffer from malnutrition and approximately 36 million people in Europe cannot afford a quality meal every second day.

Reducing food waste by half is one of the commitments made by the member countries of the United Nations (UN) in 2015, following the approval of the Agenda 2030 for sustainable development in order to eradicate poverty, protect the planet and ensure prosperity for all as part of new sustainable development. Specifically, Sustainable Development Goal number 12 regarding responsible production and consumption includes target 12.3 “By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses”.

But the fight against food waste is a shared responsibility of society as a whole. On an individual level, the consumer, as the final recipient of food, must also contribute to this end, and it is essential that citizens are aware of the social and environmental implications of each of the decisions they make when they purchase and consume, change their attitudes and acquire responsible consumption habits. It is important do not forget the importance of this stage in the food chain, since is in households where the highest percentage of the waste is produced (42%)

Committed to the problem, the ZERO WASTE project has been born from a consortium of six members from four countries (Spain, Ireland, Portugal and Romania) as it has been presented above, that have decided to jointly address actions through education, as the way to contribute in tackling the problem of food waste. The present document underpins, that not only during the implementation period of the project but also beyond the consortium took its responsibility seriously and will ensure the maximization of the exploitation possibilities of the developed Zero Waste project results.