



Food Systems in European Cities

Deliverable 4.1 - Launch of an open challenge for the design of innovative CRFS solutions

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Project Consortium

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Document Control Sheet

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1.0	21.09	Final version including feedback from partners	WR, UNIBO





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Executive summary

The main objective of FoodE is to involve European Union local initiatives in the design, implementation and monitoring of environmentally, economically and socially sustainable City/Region Food Systems.

WP4 aims to implement newly designed pilot projects or improve and integrate already existing projects in the City-Region Food System (CRFS) landscape with innovative food production systems, technologies, business models, social innovations.

In the first phase (T4.1), FoodE launches open “calls for ideas” where the civil society and relevant food-chain stakeholders are asked to actively contribute to the co-design, improvement and/or integration of local food system projects identified in EU cities (pilot case studies).

Based on the outcomes of the co-design activities, the CRFS projects will be implemented. They will be subsequently monitored and will provide new data and indicators to validate and refine the first version of sustainability framework assessment (WP2) and will contribute to the definition of key sustainability indicators (WP5) and business models (WP6) for the replication and up-scaling of sustainable CRFS in different European contexts.

The current deliverable describes the objectives and the activities planned to promote the co-design and co-creation of innovative and sustainable food systems in the target cities.

1. Introduction

WP4 aims to implement newly designed pilot projects or improve and integrate already existing projects in the City-Region Food System (CRFS) landscape with innovative food production systems, technologies, business models, social innovations. A co-design and cross pollination process will foster the innovation of existing CRFS initiatives and the creation of new business-oriented pilot cases. This relies on participatory processes actively involving the civil society and relevant food chain stakeholders in the definition of priorities and optimal features to be implemented in all partner regions. Based on the outcomes of the co-design activities, the CRFS projects will be implemented and subsequently monitored and evaluated for their environmental, societal and economic sustainability. They will feed the first version of sustainability framework assessment (WP2) with new data and indicators, will contribute to the definition of key indicators (WP5) and business models (WP6) for the replication and up-scaling of sustainable CRFS in different European contexts for increasing access to affordable, safe and nutritious food in EU cities.

The WP4 work is structured in 4 stages, that include the launch of the “FoodE challenges” for the co-design of innovative pilot projects in pre-selected locations and in collaboration with existing and innovative CRFS projects (T4.1), the finalization of the executive projects of the best selected ideas (T4.2), the project implementation (T4.3) and the citizen-driven monitoring and assessment of the project outcomes (T4.4.).

The current deliverable describes and launches the co-design activities foreseen for each pilot case study within T4.1 and T4.1.1. The activities will be communicated across the extended network of FoodE partners and promoted through webpages, press releases and social media.

1. The “FoodE Challenge”: selection of innovative ideas for the design of CRFS solutions

FoodE pilot projects

FoodE will launch pilot activities in operational environments that will serve as demonstration and first application in the market and social context of innovative solutions, co-created with citizens and cities with the involvement of public authorities, economic actors and non-profit organizations.

The FoodE consortium already identified 15 City-Region Food System (CRFS) initiatives located in 12 European cities (Table 1) which will serve as pilot projects. These City-Region food systems provide multi-functional solutions that go beyond sustainable food production. They promote local economies, create jobs, facilitate social inclusion, promote environmental and food education.

Locations for hosting the pilots have been already identified, based on both space and equipment availability and technological readiness level (TRL), as well as the existence and integration with previous initiatives. However, technological solutions, business models and social structure of the pilots still needs to be defined.

This will be achieved through the active engagement of local communities and relevant food-chain stakeholders in a co-design and co-creation process (“FoodE challenges”) that will take place in all partner regions.



FoodE challenges

Pilot projects will be primarily designed and/or integrated with innovative sustainable elements and functionalities through a participatory process. For this purpose, FoodE is launching open “calls for ideas” where several stakeholders (e.g. consumers, students, entrepreneurs and/or representative of the civil society, other citizens) will actively contribute to the co-design, improvement and/or integration of sustainable food system projects in the target cities. In particular, the participants will be asked to define priorities and optimal features to be implemented in the CRFS, contribute in the ideation and conceptualization phases and/or submit executive projects.

The activities will either be organized by the partners responsible for the pilot implementation or by establishing collaboration with already existing activity frameworks (e.g. UrbanFarm).

In each of the 15 pilot locations, FoodE partners have defined:

- which aspect/s of the project will be target of the co-design activities;
- which type of activities best suits the project goals;
- which group of representative stakeholders to involve for the co-design and co-creation purposes.

Table 1 summarizes the type of activities planned for each of the 15 pre-defined pilot cases.

The co-design activities will all take place between September 2020 and February 2021.

Pilot leaders should ensure high participation (minimum 50 participants per pilot project) and provide all participants with information about existing projects and plans in relation to FoodE as well as guidelines and regulations.

The activities might be either part of an already existing international framework (e.g. international student challenge, academic consultancy training) or will be locally organized (as independent activities). FoodE will launch the following co-design activities:

- International student challenge
- Hackathons and local challenges
- Surveys and interviews
- Co-design workshops
- Focus groups
- Academic Consultancy Training

Expected outcomes

The activities will be interesting occasions to raise awareness on several food-related topics, they will offer the participants hand-on experiences as well as networking and mutual learning opportunities. As a result of the co-creation and co-design process, several outputs will be created depending on the activity types.



To mention a few: project proposals, small-scale prototypes/tools, reports produced based on material collected through focus group discussions, open events, workshops, survey results and interviews.

Starting from the results of the open challenges (T4.2), 15 pilot experiences will be newly implemented or improved (T4.3) and participatory monitoring (T4.4) by different stakeholders will be fostered, enabling to scale-up the experience and reach critical mass for increasing access to affordable, safe and nutritious food in EU cities.

Pilot project	City	Co-design activity types
Urban agricultural park with farmers and fishery market	Naples (IT)	Urban Farm
Urban Farming at SALUS Space	Bologna (IT)	Urban Farm
Urban agricultural park for participatory agricultural test spaces	Sabadell (SP)	Focus group
Sustainable small-scale fishery in school canteens	Tenerife (SP)	Focus group
Aquaponic educational farm	Amsterdam (NL)	Hackathons
Plant factory for demonstrational purposes	Lansingerland (NL)	Focus group , questionnaire
Urban farm with hydroponic greenhouse and greywater pilot plant	Berlin (DE)	Workshops
ALMA VFarm: an Indoor Vertical Farm for growing Food, Competences and Innovation	Bologna (IT)	Questionnaire
Educational rooftop farm for school pupils	Oslo (NO)	Workshop
Plant factory for social inclusion	Oslo (NO)	Workshop
Educational hydroponic garden prototype	Oslo (NO)	Workshop
Circular economy restaurant	Longyearbyen (NO)	Focus groups
Vertical farm, educational garden, short food chain, social agriculture, mushrooms production, circular innovation and community rooftop gardens	Romainville (FR)	Urban Farm
Restaurant with local products	Iasi (RO)	Local challenge, Focus group, Questionnaire, Hackathon, Project commission to ACT
Urban beekeeping for rehabilitation and social inclusion	Ljubljana (SL)	Local challenge

Table 1. Summary of co-design activity types organized in target cities.

Sections 2.1 to 2.4 describe the structures, goals and main expected outcomes of the co-design activities that will be launched in the partner city-regions.

2.1 Urban Farm: open international student challenge

“Urban Farm” is an international competition, involving multidisciplinary teams of students from higher education in agriculture, biology, architecture, design, economics, engineering, humanities and social sciences, in the design of innovative urban agriculture systems that integrate the best architectural and technological





innovations to produce plants in urban environments¹ (in Fig 1 an overview of the participating teams and universities of the former edition).

The student challenge is organized by the University of Bologna (one of the FoodE partner institutions).

After the first two successful editions (Urban Farm 2018-2019 and 2019-2020), the competition is going to approach its third edition. For the latter, a collaboration with FoodE project has been established.

In fact, the three pilot projects previously identified in the cities of Naples (Italy, Fig 2a), Bologna (Italy, Fig 2b) and Romainville (France, Fig 2c) will be the target locations of the new open challenge. The cases will be studied and redesigned by the different student teams, in order to propose the best strategies in the three pillars of sustainability (economic, environmental and social).

The participants will have to comply with the general objective, rules and guidelines defined within the framework of the open challenge.

In addition to the general indications, the participants will have to consider the specificity of each case study. For this purpose, for each of the locations, pilot leaders will provide all the necessary information about their projects and plans, as well as descriptions and materials of the local context in which the projects are inserted. The teams will be asked to design a structure or re-develop the current space in an urban and peri-urban setting, design the production systems and its management, choose and motivate the crop production plan, focus on technological and social innovations, ensure circular resource and material flows, integrate recycle and upcycle strategies (where possible), propose innovative business models encompassing food production, environmental issues and social inclusion that can be applicable and scalable on similar contexts.

¹ Orsini, F., Pennisi, G., D'Ostuni, M., Paoletti, M., Steffan, G., D'Alessandro, A., Sabbatini, G., D'Ercole, R., & Tamburrini, A. (2020). UrbanFarm2020: Bridging interdisciplinary knowledge for sustainable urban landscapes. *Acta Hort.*

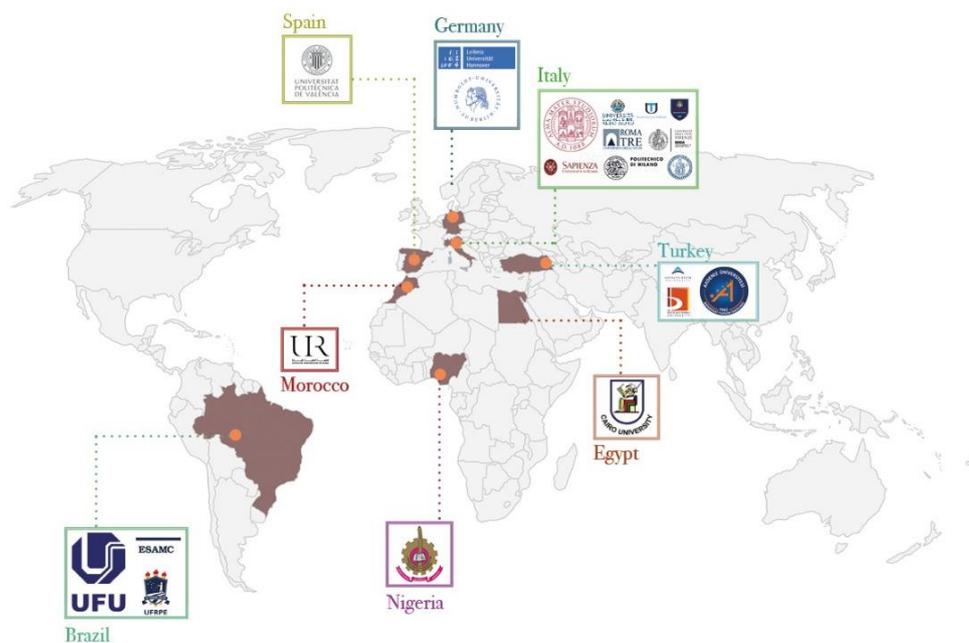


Fig. 1 Urban Farm - 2nd edition 2019-2020 involved a total of 139 students (25 teams) from 22 universities in the world (Urban farm official website, [link](#))

The open challenge will take place between September 2020 and February 2021.

Between **2 September** and **15 October 2020** participants can sign up for the competition at the registration page at the following link:

<https://site.unibo.it/urban-farm/en/registration>.

News and highlights will also be promoted through social media: [Facebook](#), [Instagram](#), [YouTube](#)).

Participation is free of charge.

After registration, the teams will undergo several selection rounds where they will be asked to submit different types of material (e.g. video presentations, abstract and full project proposal). Their work will be first evaluated by a scientific committee of experts in the fields of agriculture, architecture and economics, according to pre-defined rating criteria (the list of members of the scientific committee 2021 is available at: [link](#)). Rating criteria will be defined based on the outcome of the cross-pollination with preliminary results of the sustainability framework assessment (WP2) and first edition of “MyLocalFoodE” initiative (WP3).

Finalist teams will be invited to present their project ideas during a final event.



The selection of the winning proposals will be performed by a [jury](#) composed of FoodE partners, stakeholder panels and the public voting (online and at the awarding ceremony) following criteria of (1) relevance to the objectives of the project; (2) novelty; (3) feasibility within the given budget.

The challenge will designate one winning project per target city.

During the final run, the three best projects will compete in a “debating duel”, where the jury will ask them a series of questions regarding their projects. The jury, based on reaction and arguments provided, will then assign the first, second and third prize.

The winners will be awarded with a financial prize according to the challenge regulations and based on already existing funds of the initiative.

In addition to the monetary prize, winning teams will have the opportunity to access special benefits within the FoodE “ZeroMiles programme” (which allows for discount on goods and services provided by CRFS case studies involved in the FoodE App) and/or to take part in the co-writing of the final executive project and further pilot implementation (whenever possible according to the pilot typology).



Figure 2 The areas target of Urban Farm (3rd edition) in the cities of Naples (a), Bologna (b) and Romainville (c).

2.2 FoodE hackathons and local challenges

2.2.1 FoodE hackathons

A **hackathon** is a competitive design sprint-like event, commonly used in the field of computer programming. In recent years, more and more hackathons have been launched by private and public sector², academia^{3,4} as well as international organizations⁵ to “hack” local and global challenges in the food-related field.

The purpose of the hackathon is to engage several domain experts in difference disciplines as well as outsiders and create and deliver a functioning product or service by the end of the event. The participants usually work intensively on a specific focus during a 24-48-hour event.

The pilot case studies in the target cities of Amsterdam (The Netherlands) and Iasi (Romania) will launch hackathon events to address one or more aspects of their project.

The hackathons will mainly take place online (due to restrictions imposed by COVID-19). Participation is free of charge. Participants will be able to subscribe at the following channels:

- Facebook Group “[Hrană pozitivă](#)” (Iasi)
- [Website](#) for METAINST (Amsterdam)

More details on the specific hackathons can be found in **Appendix 1: co-design activities**.

² <https://makerfairerome.eu/it/giovani-talenti-alla-riscossa-le-idee-dellhackfood4climatechange/>

³ <https://www.wur.nl/en/project/autonomous-greenhouses-2nd-edition.htm>

⁴ <https://www.wur.nl/en/Research-Results/Research-Institutes/plant-research/show-wpr/Autonomous-Greenhouses-Challenge-livestream-of-24-hour-hackathon.htm>

⁵ <http://www.fao.org/sustainable-development-goals/news/detail-news/en/c/1197799/>





Hackathons are an innovative proving ground for new ideas. They are powerful tools to stimulate the creativity and problem-solving abilities of their participants. The diversity of participants guarantees a multitude of perspectives and the time limit creates a uniquely productive atmosphere that forces participants to distil their visionary concepts down to actionable solutions⁶.

Despite the competitive environment, such events promote interactions and networking among participants of different teams and prepare the ground for future collaborations.

Pilot leaders will provide all the necessary information about their projects and plans, as well as descriptions and materials of the local context in which the projects are inserted.

2.2.2 FoodE local challenges

Very similar to the concept and framework of “Urban farm”, but on a smaller and local scale, FoodE pilots in the target cities of Ljubljana (Slovenia) and Iasi (Romania) will launch project-based challenges. In particular,

- two 1-month challenges targeting master students in the fields of architecture and design, business and economics as well as entrepreneurs in the field of innovative business models will be issued by the pilot site in Ljubljana (Slovenia).
- a 2-month challenge mainly targeting entrepreneurs, journalists, experts on food waste, owners of CRFSs, students and teachers will be launched by the pilot in Iasi (Romania).

Participation will be free of charge.

The challenges will be launched through the following channels:

- Official [Website](#) (Slovenia)
- Facebook Group “[Hrană pozitivă](#)” (Iasi)

More details can be found in the in **Appendix 1: co-design activities**.

2.3 Other activities

The following activity types have been chosen by the pilot case studies in target cities as main or secondary ways to collect ideas from the community for the co-design and integration of one or more aspects of their projects.

2.3.1 Survey tools

Questionnaires. Questionnaires are powerful survey tools, constituting a unique way of gathering information from a large audience and acquiring substantial amounts of data on one or more topics.

Pilot case studies in the target cities of Bologna (Italy), Lansingerland (The Netherlands) and Iasi (Romania) will submit online questionnaires to their selected stakeholder network, serving as survey tools on specific topics related to their pilot projects.

The questionnaire design will vary depending on the pilot typology and goals and might contain both open- and closed- ended questions. The responses will be collected and analyzed and can be used to guide the direction of the existing project and future project development.

Interviews. Pilot case studies in the target cities of Amsterdam (The Netherlands), Lansingerland (The Netherlands), Berlin (Germany), Iasi (Romania) and Ljubljana (Slovenia) will perform interviews as complementary co-design activities. The interviews will target individual (or group of) experts and will be

⁶ Hackworks. (n.d.). *Benefits of hackathons*. www.hackworks.com/en/benefits#:~:text=Hackathons%20are%20proving%20grounds%20for,a%20low%20cost%20of%20failure. Retrieved August 30, 2020, from



carried out in the framework of open events or in a virtual environment (e.g. online platforms). Unlike questionnaires, the interview has the opportunity to ask follow-up questions and delve into a certain topic.

2.3.2 Co-design workshops

Pilot case studies in the target cities of Oslo (Norway) and Berlin (Germany) will organize hand-on workshops at their pilot facilities for the co-design of one or more aspects of their project. Multiple types of stakeholders will be invited to join the sessions.

Hands-on workshops are used in all stages of the design process, but especially in the ideation or concepting phases. Partnering with users (or potential users) ensure their inclusion in knowledge development, idea generation and concept development on products or services whose ultimate goal is to best meet these same users' needs⁷.

Pilot leaders will guide the sessions and instruct participants on the activity.

The methods and materials used for each workshop experience will be designed to satisfy the needs of each specific study so they will vary depending on the project typology and goals.

More details on these activities can be found in **Appendix 1: co-design activities**.

2.3.3 Focus discussion groups

FoodE Pilot case studies in the target cities of Sabadell (Spain), Tenerife (Spain), Lansingerland (The Netherlands), Longyearbyen (Norway) and Iasi (Romania) planned to organize focus discussion groups on-site or online (due to restrictions imposed by Covid-19), together with various stakeholders.

Focus groups can be powerful tools to explore ideas, share knowledge and create mutual learning opportunities. Focus groups consist in a free-flowing conversation among a group of participants differing in their experiences and backgrounds, about a topic of mutual interest. Typically, a moderator facilitates the discussion and ensure that everyone is actively involved. Focus groups will be organized as standalone activities or in the framework of already organized events (e.g. conferences) according to the pilot plans.

The outcomes of the discussion can be recorded and/or notes are taken to ensure all information is retained and can be used to guide the direction of the existing projects and future projects development.

More details on these activities can be found in **Appendix 1: co-design activities**.

2.4 Academic Consultancy training

Education Project Services of Wageningen University & Research aims to connect real-life questions from society to courses at the University.

Companies, governmental bodies, non-profit organizations, education- and research institutions can submit real-life projects to the Education Project Services to work on them with students.

⁷ Naranjo, C. (2012, April 24). *Creativity-based Research: The Process of Co-Designing with Users*. Uxmag.Com. <https://uxmag.com/articles/creativity-based-research-the-process-of-co-designing-with-users> .



One of the possibilities offered is the Academic Consultancy Training (ACT)⁸. It is a mandatory course for different Master's programs⁹ within the “green” domain Food and Living Environment of Wageningen University where students of different studies and nationalities work together in teams consisting of 5 to 7 people on a problem-orientated, interdisciplinary assignment during a 8-week period.

The assignments given by the commissioner should:

- tackle a current question or problem;
- be feasible within the scheduled time (eight weeks);
- focus on problem-solving skills (not limited to descriptive or inventory research);
- require a multi-disciplinary approach.

Examples of assignments include requests of technical solutions for practical problems, market explorations, planning advice or a scientific analysis to support certain viewpoints.

Students can complete assignments by means of a literature study, interviews with experts, focus group discussions and surveys.

Projects can be submitted throughout the entire academic year. Each year, there are 5 start moments for the projects. Usually more than 40 projects per period are submitted to the ACT portal and the students choose on which assignment to work. The high number of requests coupled with the final students' choices imply the risk that some of the projects may not be chosen.

Despite this risk, FoodE included ACT as one of the options for co-design of pilot projects in target cities.

Pilot case in the target city of Iasi (Romania) will make use of this option and will submit a project request in September 2020. The request targets only one of the business dimensions of the pilot project and tackle a specific question. By the end of September, the commissioner will be informed whether the project has been accepted and, in that case, the number of student teams that will work on it for the following eight weeks.

Students will be guided by a coach and an academic advisor from the university during this time period who will ensure the scientific quality of the product.

At the same time, the project commissioner and the student team/s will interact closely through interviews, meeting, and email exchange. The final project will be evaluated by the project commissioner.

More details on the assignment can be found in **Appendix 1: co-design activities**

⁸ <https://www.wur.nl/-/About-Academic-Consultancy-Training-English.htm>

⁹ These 21 Master's programs are all Masters within the 'green' domain Food and Living environment. In this domain, three partly overlapping and coherent core areas are distinguished:

- Society and well-being (e.g. Master's programs 'Communication, Health and Life Sciences', 'Management, Economics and Consumer studies').
- Food, feed and bio-based production (e.g. Master's programs 'Agricultural and Bio-resource engineering' and 'Nutrition and Health')
- Natural resources and living environment (e.g. Master's programs 'Climate studies' and 'Forestry and Nature Conservation')

3. Launch of FoodE challenges

The activities described in the previous session will be communicated across the extended network of FoodE partners and promoted through webpages, press releases and social media.

Table 2 shows the list of communications published via the official channels of FoodE and Urban Farm (updated to 15 September 2020).

	Channel	Item	Link
Official website	foode.eu	News item	https://www.foode.eu/en/news-and-events/news/
Twitter	@EUFoodE	Social media post (co-design activities)	https://twitter.com/EUFoodE/status/1305464317647749120?s=20
		Social media post (launch of Urban Farm)	https://twitter.com/EUFoodE/status/1300765843383607297
Instagram	@eufoode	Social media post	https://www.instagram.com/p/CFHNE9WDPlt/?utm_source=ig_web_copy_link
Facebook	@EUFoodE	Social media post	https://www.facebook.com/EUFoodE/photos/a.110264393926663/173593117593790/
		Social media post (launch of Urban Farm)	https://www.facebook.com/110258857260550/posts/170092784610490/
Official website	Urban farm	Launch website UF2021	https://site.unibo.it/urban-farm/en/the-challenge/urban-farm-2021
Instagram	@urbanfarm_studentchallenge	Social media post	https://www.instagram.com/p/CElvFGVAy1x/?igshid=tvvfbsqfou3k
Facebook	@urbanfarmchallenge	Social media post	https://www.facebook.com/urbanfarmchallenge/photos/a.517103812089370/960804044386009/
Youtube	Urban Farm	Urban farm, target location in France	https://www.youtube.com/watch?v=veNF9OjHOe0&t=1s&ab_channel=UrbanFarm
	Urban Farm	Urban farm, target location in Naples	https://www.youtube.com/watch?v=yLMH8qUNP7o&ab_channel=UrbanFarm
Press release	Fritegotto.it	News item	https://www.fritegotto.it/Eventi-Al-via-la-terza-edizione-del-concorso-per-studenti-UrbanFarm-2021/





Agronotizie	News item	https://www.fritegotto.it/Eventi-Al-via-la-terza-edizione-del-concorso-per-studenti-UrbanFarm-2021/
Iperbole Rete Civica	News Item	http://www.iperbole.bologna.it/relazioniinternazionali/notizie/159:47765/

Table 2. Communication of co-design activities across FoodE network, webpages, social media and press releases.

In addition, the FoodE challenges will be actively promoted and disseminated by member of stakeholder advisory board (T3.3.1) established in each City region food system. The actor will be encouraged to share the communication of FoodE challenge on their social media and official website.

Appendix 1: co-design activities

This section describes in more detail the type, the main goal, timeline and structure of the co-design activities planned in the 12 target cities hosting the 15 CRFS projects. The current COVID-19 pandemic has seriously challenged the organization of on-site events and massive participatory activities, which constitutes the core of this project. In order to cope with these limitations and ensure that such activities take place, some of the original plans might change to comply with current national rules. For example, some of the activities and events originally planned on-site will be partly (or entirely) held online. FoodE partners are committed to promoting activities and ensuring high participation.

1. Naples, Bologna, Romainville

Comune di Napoli, Comune di Bologna (Italy) and Commune de Romainville (France) host the following CRFS pilots projects:

- “Urban agricultural park with farmers and fishery market” ([go to description on FoodE website](#))
- “Urban Farming at SALUS Space” ([go to description on FoodE website](#))
- “Vertical farm, educational garden, short food chain, social agriculture, mushrooms production, circular innovation and community rooftop gardens” ([go to description on FoodE website](#))

These 3 location will be target of Urban Farm 2021.

Cities	Naples	Bologna	Romainville
Location target of Urban Farm 2021	Parco Troisi (Viale 2 Giugno, Napoli, IT)	SALUS Space (Via Malvezza 4, Bologna, IT)	La Cité Maraichere (Romainville, FR).
The architectural-urbanistic context of the location	The project will take place within the Troisi park, located in highly populated district within the City of Naples. It extends over an area of 12 hectares, and accounts for built infrastructures and open fields, currently hosting Mediterranean plant species, some greenhouses and an artificial pond collecting rainwater. It is embedded into the urban fabric of the eastern metropolitan area of Naples. It is very close to two railways stations and directly connected by main arterial roads to the city center.	The location is ubicated in a peripheral area surrounded by agricultural fields, a nursery (garden Centre) and a retirement home for elderly people. There are not landscape constraints and the connection is given by the bus terminus (at about 800 m) and cycle paths. The location in question is part of an urban redevelopment plan, which involves the demolition of a former building (Villa Salus), the construction of a new wooden residential building (X-Lam) and the total renovation of an existing building (ex-hyperbaric chamber). In addition, there are three small temporary buildings (made with shipping containers).	Romainville is a city of 26,510 inhabitants at 3 km east of Paris. The Cité Maraîchère is located in the heart of the Marcel Cachin priority district, and is the culmination of a vast urban renewal program operated between 2007 and 2017, in partnership with the State, the National Agency for Urban Renewal, the Ile de France Region and the Departmental Council of Seine-Saint-Denis. This redevelopment was designed in response to precise objectives set by the municipality, in consultation with the inhabitants: to improve the living environment of the inhabitants, to open up the district to make it the heart of the city, and to restore a social mix, all in accordance





			with the principles of sustainable development.
Current status of the location (production systems, activities etc.)	Several plastic and steel greenhouses are already in place, although currently not in use and needing a renovation of the cover materials and integration with at least an irrigation system. Structures of the greenhouses are embedded in the attached plans.	Three different types of garden (recreational, educational and productive) are going to be made within Salus Space project, with traditional methodologies. The food processing equipment have been acquired in order to create a small social enterprise, in collaboration with FoodE Pilot Action and the containers will serve as restaurant and meals preparation.	Cité Maraîchère" department was created in May 2020, and will be responsible for an integration site workshop (ACI). This department is made up of four divisions: market gardening, education, coffee-canteen (restaurant) and entertainment. The Cité Maraîchère is designed as a new living space for the inhabitants of the Marcel Cachin working-class district and Romainville in general. Thus, the multi-purpose spaces, the culinary laboratory and the coffee-canteen in the evening are available free of charge or at very affordable rates for local stakeholders. In addition, the Cité Maraîchère will be able to welcome, in its operating areas, researchers and action-research project leaders for tests and practical experiments on urban agriculture.
Vision of the location	The place is not completely abandoned. It serves as recreational park by local citizens, but the greenhouses are completely neglected and they need to be renewed to become the core production area of the agricultural park intended in the vision. Local citizens appeared to be quite interested in the development of local production market (as the results of a recent survey also revealed). The part of the city under consideration is a crowded suburb with a high rate of youth unemployment and	The area has been abandoned for more than a decade and it is going to be given back to the community with a very brave and innovative idea of creating a multifunctional and collaborative space, able to economically support itself with the housing and the economic facilities to be carried out. Citizens have participated to the co-design, and expressed their need to create a place for active participation with cultural and social opportunities, environmental quality and beautiful gardens for the	The main target is the creation of a public service for urban agriculture. The Cité Maraîchère represents an important investment for the community and its partners, providing a quality public service with multiple facets. As a true "living laboratory for cultivating the city of tomorrow" and promoting living together, it is thus participating in the dynamic undertaken by the City of Romainville to accompany the transition by building an original path that affirms an opening to the



	<p>several low-income families. These social groups could find support by being involved in the economic and social activities. Awareness should be raised through educational projects to develop a healthier food culture.</p>	<p>community wellbeing. The gardens must be developed to create a long term sustainability with food creation activities integrated with the ecosystem.</p>	<p>world, and carries a vision of solidarity and optimism. It offers the opportunity to accompany the economic, social and cultural dynamics of a changing territory, by associating it with its rich horticultural and market gardening past. The project shall comprehensively target social, environmental and economic aspect.</p>
Students' objectives	<ul style="list-style-type: none"> - Requalification of the greenhouses (structures, cultivation, management) - Design of a farmer's market area - Education gardens for school activities - Plan for economic and social management for the entire area 	<ul style="list-style-type: none"> - Rooftop multifunctional vegetable garden on the top of one of the two buildings - Community garden in the green space within the Salus complex - A management model that fosters social, environmental and economic functionalities of the proposed activities 	<p>Student teams are expected to develop a model for activities within the Cité Maraichère, toward the creation of territorial public transition food and social justice service. Main elements target elements:</p> <ul style="list-style-type: none"> - Territorial integration: creation of a sustainable solidarity -based food eco-system - Economic sustainability: implementation of economic model that integrates multiple activities - Social inclusion: targeting different social groups and involving local inhabitants in the project toward engagement and space appropriation.
Estimated/existing budget	70.000 euros	120.000 euros	Not yet specified
Main objectives that the realization of the project should achieve	<p>Social, economic and employment, recreational, touristic functionalities. All these objectives are important, but particular relevance needs to be given to social aspects and job creation,</p>	<p>Social, economic and employment, recreational, touristic functionalities. These objectives shall be addressed by activities fostering Job creation, knowledge sharing, environmental</p>	<p>Creation of a public service for urban agriculture. Facilitate access to sustainable food, foster social diversity and living</p>



	production of local food for local market following environmental sustainability concepts and enabling awareness creation and knowledge sharing.	sustainability, social inclusion of migrants and refugees, circularity, collaborative management, creation of a multicultural space.	together, job creation, developing integration networks through urban agriculture, improving the quality of life of vulnerable people. Local production of fruits, vegetables and mushrooms according to ecological principles. Raise awareness on the main environmental issues (climate change, scarcity of resources, accelerated loss of biodiversity, food waste) to move towards new ways of consuming and producing food, working and living together.
Keywords	<ul style="list-style-type: none"> - Local food production and market - Creativity - Citizens and Farmers engagement - Education - Innovations 	<ul style="list-style-type: none"> - Innovative - Sustainable - Community-based - Inclusive - Multicultural 	<ul style="list-style-type: none"> - Sustainability - Circular economy - Urban agriculture - Solidarity food - Locals engagement.

2. Sabadell

The Ajuntament de Sabadell (Spain) hosts the following pilot initiative “Urban agricultural park for participatory agricultural test spaces” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

Type of activity:	Focus group
Describe the activity:	<p>1) Focus group with local stakeholders to co-design the activities to be developed and decide techniques and points of interest to be developed / studied.</p> <p>2) Focus group focused on any of the processes or activities selected in the co-design activities.</p>
Period and duration of the activity:	<ul style="list-style-type: none"> - 15 July 2020 (10:00-12:00 A.M.) - Second half of October 2020 (10:00-12:00) - Second half of January 2021
When do you expect this activity to start:	July 2020
How many of these activity type you expect:	3



Where (or how e.g. if it is online)	Online from ICTA/Sabadell (Zoom platform) If the situation with COVID-19 improves, they will be done on-site (in Sabadell and/or ICTA with online transmission)
Expected number of participants:	15 to 20 for each event
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Acceptance e-mail and recording of the meeting.
Participants' categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	<ul style="list-style-type: none"> - Citizens organizations - School organizations - NGOs for organic farming - Local traders - Agricultural students - Other UE H2020 project members - Local administration
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	<p>The pilot project will be focus on three aspect of the value chain: Primary production, marketing and selling, food waste generation. The focus group coupled with a preliminary analysis will be used to better understand the main problem and challenge in the area in order to set the features of the pilot.</p> <ul style="list-style-type: none"> - Production Systems and environmental impact: fertilizers, water use, local varieties. - Food Waste: reduction, reuse, possibilities of reuse. - Marketing or sale systems: local traders, consumer cooperatives, etc.
How do you plan to monitor and document the outcomes of this activity?	<ul style="list-style-type: none"> - Collection of multimedia materials (event recording, photos). - Performing a final recap session if it is a face-to-face process, notes are taken.
How will you promote the activities:	<p>Personally, inviting Associations, NGOs, consumer cooperatives, schools, etc. who are already working on the topic. The first event will serve to identify topics of interest and detect possible new participants and new agents to invite. The following events will be used to act on specific issues and ensure the participation of the different agents involved. The focus group will be promoted also by other EU project that are dealing with similar topic in the same area. In particular, an important synergy has been found with FOODSHIFT 2030 and the focus group will be promoted within their stakeholder advisory board established in Barcelona.</p>

3. Tenerife

Organización de Productores de Túnidos y Pesca Fresca de la Isla de Tenerife (ISL) together with Instituto de Investigación Social y Turismo (Universidad de La Laguna) (Spain) host the following pilot initiative “The Sustainable small scale fishery in school canteens” ([go to description on FoodE website](#)). It will be target of the following activity type/s:



Type of activity:	Focus group (“Participatory co-design of ECOTUNIDOS/PESCART activities”)
Describe the activity:	Focus group to gather ideas from the different actors related to pilot implementation: school managers, teaching staff, cooks and the parents association.
Period and duration of the activity:	From September 2020 to January 2021.
When do you expect this activity to start:	. September 2020
How many of these activity type you expect:	<ul style="list-style-type: none"> - Meetings with parents and mother associations of the schools already engaged in the pilot. Ideally one meeting per active school (8 so far). 2 to 8 meetings depending on the stakeholder availability. - Meetings with teaching staff to define the best ways to introduce in the teaching program the contents related to the consumption of the local products and local fish, in different teaching areas, English, Social Knowledge, Environment knowledge, Mathematics. (2-8 meetings as above) - Meetings with cooks and canteen staff to share cooking experiences, design innovative cooking training, improve the acceptability of fish in the menus, sharing experiences to reduce problems related to thorns in canteens (2-8 meetings as above) - Meetings with new schools representatives that may enter the pilot project in Tenerife or other islands (teaching staff, cooks, parents associations, fisher organizations involved) (2-8 meetings above)
Where (or how e.g. if it is online)	Preferably on-site, in one of more selected schools.. In some schools of deprived areas it may be more desirable to have the meetings in person, the same for the training of cooks and canteen staff. Otherwise online meetings looks also feasible.
Expected number of participants:	More than 50.
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Recordings of meetings, photos of meetings, list of signatures (when in person).
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	<ul style="list-style-type: none"> - Schools managers - Teaching staff - Cooks and canteen staff - Parents and parents associations - Fisher and fisher organizations - Pupils and students - Public authorities more (municipalities, directorates-general, fisheries administrations)



Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	<ul style="list-style-type: none"> - Current knowledge on local fish production and its availability in the market. - The awareness of the importance of the local consumption of fish and other products. - How to improve the attitude of children and adults towards local fish consumption - How to introduce content related to the consumption of local products/local fish in the different areas of education - How to bring these learnings into the homes
How do you plan to monitor and document the outcomes of this activity?	We expect to record at least some of the meetings and produce simple and very clear reports that will be used to get further feedback from participants. These reports will be distributed electronically.
How will you promote the activities:	Using the school managers as key elements, and the electronic systems they have already in place to communicate with parents, teaching staff, cooks. Fisher organizations and their members as well as public authorities will receive personal invitations.

4. Amsterdam

Metabolic Institute (The Netherlands) hosts the following pilot initiative “Aquaponic educational farm” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

Type of activity:	Hackathons
Describe the activity:	Organization of 2 Hackathons (online) and one final concept presentation day (on-site) for the winning team of each hackathon.
Period and duration of the activity:	Two 1-day hackathons and one final presentation day will take place between end- October and early November 2020.
When do you expect this activity to start:	End of October 2020
How many of these activity type you expect:	2
Where (or how e.g. if it is online)	The hackathons will be entirely online - using zoom or google hangout platforms for the keynotes speakers, presentation, jury selection, team interactions, and Q&A. Online Miro board and google documents will also be set up for each team. The final concept day will take place with one winning team for each hackathon at the pilot location (aquaponics farm on De Ceuvel ground).



<p>Expected number of participants:</p>	<p>Each hackathon will attract 25 participants (5 teams of 5 members), therefore a total of 50 participants will go through the hackathons. In addition, other stakeholders acting as jury members or keynote speakers will be present (remotely) for the hackathons or physically on the final presentation day.</p>
<p>Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):</p>	<p>Participants will have to subscribe in order to participate. In addition we will verify attendance on the days of the events.</p>
<p>Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):</p>	<p>The majority of the participants will be master and PhD students. A few experts from private organizations or research institutes may also be present.</p>
<p>Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)</p>	<ul style="list-style-type: none"> - Hackathon #1: Design of the UX / UI* (dashboard) of the aquaponic software. The development of the interface will be built on the best user journey developed by one of the teams and the best interface design. Several user journeys will be developed to address different audiences, such as the farm manager (operational interface) or the researcher/student (educational interface). This hackathon will target the software. - Hackathon #2: Design of the mechanical automation filling of the struvite reactor and of the dispensing systems - hardware. The winning team design will help create the blueprint of the automation of the current struvite reactor, so as to increase the local nutrient cycling in the aquaponic farm, a key ambition of the farm within the FoodE project. <p><i>*UX/UI: User-experience/User interface</i></p>
<p>How do you plan to monitor and document the outcomes of this activity?</p>	<p>We plan to produce media materials during each of the hackathons and the final presentation day. During the hackathons, each team will submit a short concept brief (with a specific format for submission) as an output of their work. The teams will also have the chance to interview key stakeholders (farm manager, aquaponics researcher), which will be recorded. The presentation/pitch of each team, as well as the subsequent Q&A will be recorded. During the presentation day of the winning teams, photos and videos will be taken, and the winning teams will be interviewed. A detailed program of the event will be produced and a dedicated person will keep the minutes during the teams presentation and Q&A. The winning teams will also submit a slide deck that presents in greater depth their winning concepts.</p>
<p>How will you promote the activities:</p>	<p>Through our social media (Twitter, LinkedIn, Facebook, Instagram) platforms and through FoodE website. We will spread the information throughout our network and contacts with the universities (University of Amsterdam, Amsterdam University of Applied Sciences, Wageningen University & Research). In addition to the keynote speakers, the guided visit of the farm (for the winning teams) and De Ceuvel, and the presence of experts in the jury, we will also have an award for the winning team</p>



	of each hackathon, around 750 euros (with 500€ in cash prize and 250€ worth of voucher from the local sustainable restaurant/café). The jackpot is based on existing sponsor(s) and budget of the organization.
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5. Lansingerland

Lansingerland municipality together with Wageningen University & Research (The Netherlands) host the following pilot initiative “Plant factory for demonstrational purposes” ([go to description on FoodE website](#)).

Type of activity:	Survey tool	Meeting and interviews with stakeholders
Describe the activity:	Questionnaire	In the occasion of the kick-off event of the vertical farm at the WUR facility in Lansingerland (Pilot site).
Period and duration of the activity:	1 month window opening (if needed, there will be time for a second round).	1 day
When do you expect this activity to start:	End October – December 2020	28 th October 2020
How many of these activity type you expect:	1	1
Where (or how e.g. if it is online)	Online questionnaire	The opening event will be on-site and will be broadcasted via internet and television in order to make an impact and raise awareness among the citizens from Lansingerland and surrounding areas (Rotterdam-The Hague region).
Expected number of participants:	> 50	50
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Email contacts	Attendees at the meeting are invited and register upon entry.
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	Local growers, suppliers of fertilizers and consumables, substrate, energy, installation companies in the field of climate, water, energy, Students (BSc, MSc at Wageningen University & Research), Urban planners, Public authorities (municipal-regional level), Citizens/consumers.	<ul style="list-style-type: none"> - Dignitaries from Europe will be present during the opening. - In addition, entrepreneurs and employees of various research institutes are present.
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	The questionnaire aims to survey among the different stakeholders which activity types would render the Pilot location a training/outreach/raising-awareness instruments	<ul style="list-style-type: none"> - Creating new insights for dignitaries, which will support future investments in the field of innovative horticulture projects. Publication via social media and television is mainly intended for raising awareness.



	for each type of stakeholder (e.g. workshops, seminars, working groups, guiding tours, others).	- Identification of target user of the demonstrational facility.
How do you plan to monitor and document the outcomes of this activity?	Information collected through the questionnaire will be analyzed, processed and summarized in a report. The responses will guide the direction of the existing project and future project development.	We plan to produce media materials during the event (photos and videos), make interviews to participants, we will have a detailed program of the event.
How will you promote the activities:	Mailing lists (contact network of the Business Unit Greenhouse Horticulture + Municipality of Lansingerland) Webpage and social media of Wageningen University & Research.	Through our social media, through FoodE website. We will spread the information throughout our network and contacts with the universities. We will also create news items by inviting various media (newspapers and television) for a preview.

6. Berlin

Nolde & Partner (Germany) hosts the following pilot initiative “Urban farm with hydroponic greenhouse and greywater pilot plant” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

	Workshop (1) Daily-Life Hydroponics operated with recycled water DESIGN & PLANTING MAINTENANCE	Workshop (2) Daily-Life Hydroponics operated with recycled water DESIGN & CONSTRUCTION MODULES
Type of activity:		
Describe the activity:	Organization of a Hydroponic Workshop Series in cooperation with STADTMANUFAKTUR @ TU Berlin at the pilot location focusing on daily-life integration. 1-day-hands-on workshop introducing hydroponic farming principles focusing on planting design and plant care.	1-day-hands-on workshop introducing hydroponic farming principles focusing on constructing different farm modules based on circular economy
Period and duration of the activity:	September – October 2020	November 2020 – February 2021
When do you expect this activity to start:	September 2020 (1 test-workshop in July 2020)	mid-November 2020
How many of these activity type you expect:	2	2-3



Where (or how e.g. if it is online)	On-site. Complementary activities will take place online.	Webinar Format
Expected number of participants:	10 – 20 on site for each workshop to meet the COVID-19-standards	10 – 20 on site for each workshop to meet the COVID-19-standards
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Advance registration and list of signatures	Advance registration & list of signatures
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	<ol style="list-style-type: none"> 1. Test-workshop with students 2. Regular workshop for citizens, social and environmental organizations, entrepreneurs, design-planners-engineers & makers. 	<ol style="list-style-type: none"> 3. Regular workshop for citizens, social and environmental organizations, entrepreneurs, design-planners-engineers & makers
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	<ul style="list-style-type: none"> - Activities and tools to increase public and citizen knowledge and hands-on practice about hydroponic food production modules in daily life and circular economy - Linking to its relevance in future urban design and planning in regards to circular resource management, climate-cooling, blue-green infrastructures, water-sensitive design in landscapes and architectures. - Design and management of a user-friendly hydroponic systems to be easily and ready-to become integrated at home, neighborhood or community scale. 	<p>How can I support my personal food provision in an urban setting? How much space do I need to provide food for myself/ my family?</p> <p>Which possibilities do I have regarding a sustainable water supply?</p> <p>What are the advantages of light-weight hydroponic farming? What are the challenges (monitoring of pH, nutrient provision, etc.)?</p> <p>-</p>
How do you plan to monitor and document the outcomes of this activity?	We want to produce media materials along the hydroponic workshop series (photos, videos, audios). Furthermore, we plan to interview the participants, lecturers, and involved experts. Relevant material and retained information will be broadly disseminated via social-media channels (Website, Facebook), by involving the relevant press and by publishing articles in relevant journals.	We want to produce media materials along the hydroponic workshop series (photos, videos, audios). Furthermore, we plan to interview the participants, lecturers, and involved experts. Relevant material we want to broadly distribute and retain information via social-media channels (Website, Facebook), by involving the relevant press and by writing articles in relevant journals.
How will you promote the activities:	Through our social media and websites such as roofwaterfarm.com and FoodE website . We will spread the information throughout our network and contacts with the universities, particularly TU Berlin. In the past there had	Through our social media and websites such as roofwaterfarm.com , through FoodE website. We will spread the information throughout our network and contacts with the universities, particularly TU Berlin.



	always been a great demand, which we could not always fully satisfy.	
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7. Bologna

Flytech and University of Bologna host the following pilot initiative “ALMA VFarm: an Indoor Vertical Farm for growing Food, Competences and Innovation” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

Type of activity:	Survey tool
Describe the activity:	Questionnaire to collect expressions of interest with the University community about the pilot project.
Period and duration of the activity:	June -September 2020
When do you expect this activity to start:	The questionnaire (first round) has been sent on June 8.
How many of these activity type you expect:	We expect two rounds of dissemination of the survey: the first one in June and the second one in September.
Where (or how e.g. if it is online)	Online questionnaire
Expected number of participants:	More than 100
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Mailing list
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	Students, professors, technicians of Bologna university
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	Type of plants to be cultivated within the vertical farm, kind of educational activities to be developed (e.g., research, dissemination activities about vertical farming, workshops, webinars, hackathons)
How do you plan to monitor and document the outcomes of this activity?	We will collect the results of the survey through a server (Feedback Server) and we will prepare a report with answers collected



How will you promote the activities:	Mailing list of professors and students, Facebook page of faculty . The project is very innovative and attractive for the topic (vertical farming) and for the educational lab that we want to implement.
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8. Oslo

1) Nabolagshager (Norway) hosts the following pilot initiative “Educational rooftop farm for school pupils” (go to description on FoodE website). It will be target of the following activity type/s:

Type of activity:	Workshop (Urban Agriculture Social Enterprise Workshop)
Describe the activity:	<p>Nabolagshager has received external funding to host a conference-workshop about creating sustainable social enterprise business models around urban agriculture. This is part of ongoing work we have completed through the H2020 project, EdiCitNet, in which we lead a work-package on business models in urban agriculture. The conference will have participants grouped based on a series of case studies. The groups will then participate in various activities, each connected to a piece of the business model canvas. Ultimately, participants will, first hand, work through challenges of business models in urban agriculture that take into account social sustainability.</p> <p>Nabolagshagers FoodE pilot case will serve as one of the case studies of this workshop, allowing various participants to contribute to the project (as groups rotate through case studies). We have also discussed with Tåsen Microgreens (FoodE pilot in the same target city) to add the joint pilot project of Nabolagshager and Tåsen as a case study as well.</p>
Period and duration of the activity:	Early October 2020
When do you expect this activity to start:	October 2020
How many of these activity type you expect:	1
Where (or how e.g. if it is online)	In Oslo, but we are planning to host the conference and workshop online too trying to unsure interaction among participants. Due to risk of a resurgence of Covid 19 and related restriction, the back-up plan would be to host the entire workshop online.
Expected number of participants:	75
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Conference registration sheets, Zoom or online platform log
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	The key demographic is individuals who want to start their own urban agriculture business. We will also explicitly recruit policy makers and university students. The project will be open to the public, so we are sure ‘interested parties’ from the general public will attend.



<p>Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)</p>	<p>One of the goal of the pilot case within FoodE is to create a sustainable business model with the rooftop farm which employees local, minority youth. The questions asked during the workshop will be connected to the business model canvas – attempting to create a more holistic business model that meets the demands of the public.</p> <p>As such, the attendees will help contribute ideas and concepts to the business model in order to expand it. We know that our business models has to be more multi-functional (as we have learned that multi-functionality is key in developing successful urban agriculture models from our H2020 work in EdiCitNet). Participants will add layers and key topics to our existing canvas to help expand the potential of income.</p>
<p>How do you plan to monitor and document the outcomes of this activity?</p>	<p>Participants of the workshop will be creating physical business model canvases throughout the conference. This will look like large business canvases for each case study. As such, our case study will leave with a physical document. In addition, participants will have space to present the case studies once they are complete. We plan on recording this segment of the conference in order to be able to revisit it.</p> <p>As part of the project, we are working with a designer in Oslo (Grow Lab). They are tasked with collecting key outcomes of the conference and consolidating them into a document that can be publicly distributed.</p>
<p>How will you promote the activities:</p>	<p>Built into the budget of our funding is money for marketing. We plan on completing this using Facebook and Instagram, popular platforms in Norway.</p> <p>In addition, through the EdiCitNet H2020 project, we have a pilot project running in Oslo at an urban farm, attempting to build an incubator of sorts. We will personally invite participants of the urban farm incubator, inviting them to bring their projects as case studies for the workshop.</p> <p>We will use target marketing on the platforms discussed above. In addition, we have very close ties to Norway’s only University level program centered on urban agriculture. Finally, Nabolagshager has a following on social media of over 3 000 members of the public interested in urban agriculture</p>

2) Tassen microgreens (Norway) hosts the following pilot initiative “Plant factory for social inclusion” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

<p>Type of activity:</p>	<p>Workshop (Cityfarming - Fieldtrip to indoor Plant factory)</p>
<p>Describe the activity:</p>	<p>Fieldtrip to Tåsen microgreens indoor farm in the central of Oslo:</p> <ul style="list-style-type: none"> - Learn about sustainable system for indoor production and how to grow your own food effortless. - Raising awareness on the benefits to grow your own food - Awareness of the nutrition benefits of microgreens - Awareness of using unused spaces to food production - Benefits of local produce versus import and high CO2 Emissions <p>The workshop will offer a hand-on experience to the participants and will allow to investigate and testing the participant awareness on the topics listed above. Later on in FoodE we will use this information to refine the participatory activities around the pilot.</p>

D4.1 Launch of an open challenge for the design of innovative CRFS solutions - H2020 GA 862663



Period and duration of the activity:	01.09.2020 – 31.01.2021
When do you expect this activity to start:	01.09.2020
How many of these activity type you expect:	Up to 3 events: <ul style="list-style-type: none"> - Oslo restaurant school – 04.09.2020 - Bjørnsletta skole 7a – November 2020 - Etterstad vgs – to be defined
Where (or how e.g. if it is online)	At both Tåsen Microgreens plant factory and at the schools already in the pilot network.
Expected number of participants:	50 - 100
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	List of signatures, media materials, invitations, activity report.
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	Students, youth, chefs, organizations
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	Plant factory for social inclusion <ul style="list-style-type: none"> - We will ask relevant question about growing food indoor, - where food comes from, - how is it possible to grow it indoors - what benefits do we gain when growing locally
How do you plan to monitor and document the outcomes of this activity?	Feedback, Surveys, visit.
How will you promote the activities:	Social media, networking, “word of mouth”. We have a lot of request to visit our plant factory by educational institution. We will contact more schools and institutes to invite them for a day with us

3) Tassen microgreens (Norway) hosts the following pilot initiative “Educational hydroponic garden prototype” ([go to description on FoodE website](#)).

Type of activity:	Workshop (Educational Hydroponic Garden)
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Describe the activity:	Hand-on workshops with international refugees and school pupils. Tåsen Microgreens has, together with, Hersleb Upper Secondary School (Hersleb Vgs.) and Grønlands Flytende Bybondelag (GFB) made a scalable hydroponic school garden where youth can learn to develop and operate their own micro-hydroponic systems with focus on Nutrient Film Technique and Ebb and Flow systems. The garden is located on a concrete pier in the middle of the city's harbor, right next to one of Oslo's most popular walkways, Havnepromenaden, to prove that it is possible to grow crops hydroponically in any environment.
Period and duration of the activity:	We have already made an instruction video which will be uploaded within the next week, and with three more videos to come. Summer activities for kids are planned to start on the 6 th of July and last for a month. Hand-on workshops with international refugees will start after schools open in August and continue throughout the year. One international refugee has already been hired to sell the excess plants from the development of the pilot.
When do you expect this activity to start:	The activities have started, with the recording of three out of four instructional videos already finished. First workshop with pupils will be held in week 28.
How many of these activity type you expect:	We have planned four hands-on workshops in both the summer activities and the autumn semester, so the participants can follow the production throughout the two crop growing cycles.
Where (or how e.g. if it is online)	In Sukkerbiten, Oslo, one of the most crowded tourist areas in the Capital, right next to the Opera house, the new Munch-museum and city's most popular beach, Sørenga. The videos will be uploaded for anyone to see online.
Expected number of participants:	GFB is cooperating with YMCA to have 20 kids in the summer activities and 75 pupils from Hersleb Vgs. in the school semester.
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	List of participants.
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	The main target for the project is international refugees who are pupils on Hersleb Vgs.
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	The goal is to get at least 30 international refugees to implement their own small-scale plant factory.
How do you plan to monitor and document the outcomes of this activity?	Survival rate of the plants in each own system will tell if they have learned the basic principles of plant requirements. The income which each participant will generate from selling their products will be a proof if the project is a success.
How will you promote the activities:	The pilot is located in the middle of one of the most crowded areas for summer activities in Oslo, so by hanging up banners we will reach several 1000 bypassers every day. The projects will be promoted via Facebook-group 'oslofjordhage.no' (currently accounting for about 800 members) and the new website of the project oslofjordhage.no launched at the end of



	July 2020. Up to 20 youth will be employed by YMCA and GFB for the summer activities. In the autumn we will recruit 75 pupils from Hersleb Vgs.
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9. Longyearbyen

Polar permaculture (Norway) hosts the following pilot initiative “Circular economy restaurant” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

Type(s) of activity:	Focus group (zero waste restaurant)	Focus group (follow-up Urban Farm 2020)
Describe the activity:	On-site focus group to get folks interested in the zero waste restaurant concept.	Polar Garden has been one of the target locations of the (already concluded) 2 nd edition of Urban Farm . Within FoodE, the pilot concept will be built on the project outcomes submitted by students in the framework of the open challenge. Local activities (such as focus discussion groups) will be organized where the project options are presented to the local stakeholders. The goal of the activity will be to identify which among the proposed solutions better fit the local context and needs..
Period and duration of the activity:	Mid-October, about 2 hour duration.	October-November 2020, about 1.5 hour duration
When do you expect this activity to start:	Mid-October	
How many of these activity type you expect:	2 to 3	1-2
Where (or how e.g. if it is online)	We will organize it at our location (or online if needed).	We will organize it at our location (or online if needed).
Expected number of participants:	15-20	10-15
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	Email sign ups and also name list	Email sign ups and also name list
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	Citizens, students, entrepreneurs, and others	Citizens, students, entrepreneurs, and others



<p>Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)</p>	<p>We would like to know how stakeholders envision a zero waste restaurant as and how they want to use the space. It is important for us to design a green space that satisfies the needs of the community. For this reason we want to include them at every step of the way.</p>	<p>The focus group will discuss the project proposals submitted during the last edition of Urban Farm. The agricultural production in peri-urban district of Nyben in the World northernmost city of Longyearbyen, in the Svalbard Islands (Norway), is constrained by the harsh environmental conditions and the local community relies on fresh food shipped from the mainland. In 2016, the Polar permaculture organization started to grow fresh vegetables inside a dome that uses passive solar energy from end of May until end of September. Locals were enthusiastic about the project, however Nyben is quite far from the town centre. Polar permaculture, in agreement with the local governmental agencies, proposed five possible sites in the town of Longyearbyen as the new possible locations for the Polar Garden. Multidisciplinary student teams had to use their skills to find the best options to set up an urban farm in the town (in one of the 5 locations). In their project they had to ensure: space for the dome, set up a zero-waste restaurant, and create a green space for the city. The projects have been selected and evaluated by a scientific committee and a Jury.</p>
<p>How do you plan to monitor and document the outcomes of this activity?</p>	<p>We will live stream it and also record it.</p>	<p>Event recordings, report summarizing the outcomes of the discussion group.</p>
<p>How will you promote the activities:</p>	<p>We will promote it via different channels (e.g. social media, local newspaper). In addition we will also offer drinks and small courses to participants.</p>	<p>Polarpermaculture.com</p>

10. Iasi

Asociația Mai Bine (Romania) hosts the following pilot initiative “Restaurant with local products” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

<p>Type(s) of activity:</p>	<p>Local challenge and focus groups (“Food Waste No more”)</p>	<p>Focus group and survey tool (“Zero Waste, food to go & catering”)</p>	<p>Survey tool (“Food zero miles”)</p>	<p>Hackathon (Food Bank)</p>
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Describe the activity:	Given the complexity of the subject, the process will be split 3 phases: 1. Food waste recovery (in the format of Facebook group challenge/call for ideas) 2. Food waste prevention (in the format of Facebook group challenge/call for ideas) 3. Closed loop production (in the format of on-site focus discussion group)	Organizing a Focus Group with activists from our national network, active in the field of sustainable consumption.	We will run an online questionnaire and interviews with the help of the members from our stakeholder panel.	Organizing a 1-day Hackathon.
Period and duration of the activity:	August-October 2020, 2-3 months	August-September 2020, 1 month	September-November 2020, 3 months	1 Day
When do you expect this activity to start:	August 2020	August 2020	September, at the latest	September-October (at the latest on world food day 16 th of October)
How many of these activity type you expect:	3	1	1	1
Where (or how e.g. if it is online)	Online (Facebook Group " Hraná pozitivá ") & on-site (at CUIB or Mai bine HQ).	Questionnaire (paper and online) and a 2 hour-online focus group (Facebook group)	Online and on-site at CUIB.	At CUIB (or online)
Expected number of participants:	<ul style="list-style-type: none"> - 50 participants in the FB challenge (phase 1 and 2) - 20 participants in the focus discussion group (phase 3) 	10	30 for the online questionnaire and 10 for the Consulting Group interview	10
Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):	<ul style="list-style-type: none"> - For the online activities: Facebook Group log activity and screenshots 	<ul style="list-style-type: none"> - Questionnaire: name list - Focus group: name list, multimedia materials 	Survey results, name list	List of participants



	<ul style="list-style-type: none"> - For the Focus Group: list of signatures 			
Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):	The stakeholder network in Facebook Group (currently accounting for 360 members): entrepreneurs, journalists, experts on food waste, owners of CRFSs, students, teachers etc. Some of them (the ones living in Iasi) will be invited for the Focus Group.	Activists and experts from our national network, active in the field of sustainable consumption, citizens, students, pupils, entrepreneurs etc.	Citizens, farmers, small producers, researchers.	Practitioners in the field of food banks and CSAs, producers/ retail
Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)	<p>Here are the main guiding questions:</p> <ul style="list-style-type: none"> - How to integrate recovered/leftovers as main or side ingredients in the menu? - How to prevent food waste? - How to close the loop for the production/growing of herbs in the garden (create compost, create soil farm etc.) - How to become a zero waste bistro? 	<p>Here are the main guiding questions:</p> <ul style="list-style-type: none"> - What packages to use for ingredients? - What packages to use for take-away and catering? - What kind of serving logistics should the take away and catering include? 	<p>The surveys tool will be used to reach:</p> <ul style="list-style-type: none"> - Best local known producers for the ingredients we need - Highest diversity of products per producer. 	<p>The participants will address the following questions/concepts:</p> <ul style="list-style-type: none"> - How to be a sustainable food bank? - How to integrate the recovered food in the Bistro? - How to store the food? - Whom to collect the food from? - What food to collect? - To whom/ what organization to redirect the collected food?
How do you plan to monitor and document the outcomes of this activity?	We plan to share the outcomes of the challenges via the official webpages (Mai bine & CUIB), to integrate some of the outcomes in the menu of Bistro and to create	The questionnaire will stand as a references and starting point for the 2 hours meeting (FG). At the Focus Group minutes of the meeting will be taken. As for the outcomes, we will keep	Creation of a database with producers list, addresses and selected products.	Event recording, minutes will be taken, output submitted by the participants.



	<p>guidelines for the whole CUIB team.</p> <p>As for the Focus Group we will produce media materials and a visual map of the plan towards Becoming a Zero Waste Bistro.</p>	<p>track of sales and of the clients reviews.</p>		
<p>How will you promote the activities:</p>	<p>Firstly on our social media channels, posters in the garden and in the Bistro.</p> <p>We will promote it on our Social Media channels. Most of the participants we mentioned are our friends and acquaintances with whom we share the same interests. Some of them are already in the Facebook Group exchanging ideas about food recipes and other food related issues. For the others we will contact them by phone or e-mail.</p>	<p>Online, through our social media channels and at the bar as a physical paper questionnaire that clients can complete while waiting for their food. For the Focus Group we will contact the participants directly by phone or e-mail.</p> <p>In addition, we will offer consumer vouchers to one in 5 survey respondents.</p> <p>AS for the Focus Group we will create a Zero Waste Kit to give to the participants</p>	<p>Via our Social Media channels and direct contact.</p> <p>Farmers and producers will be motivated to promote their products, citizens will be motivated to have easier access to good local food, to know their farmers/ producers for the highest variety of vegetarian products.</p>	<p>On our social media channels and in our bistro.</p> <p>We will offer the participants ecological give aways plus vouchers at CUIB.</p>

Project commission to Academic Consultancy training (Wageningen University)

In addition to the activities described above, the pilot case study in the target city of Iasi (Romania) will commission a project to the Academic Consultancy Training (ACT) of Wageningen University and Research. The table below is the form required by the ACT.

Title-case	Measuring Natural Capital Low-carbon footprint restaurant?
Background	<p>The bistro CUIB is one of the most ambitious project at national level in integrating sustainability dimensions, a pioneer through several approaches (slow and vegetarian food, fair trade products, local ingredients, zero waste principles etc.). Despite the clear impact on the community it is a challenge to express and communicate to the public both as information and as awareness rising, the added value of what it does and the opportunity costs it encounters. People need quantitative data linked with the qualitative ones. There is the need to express in number the environmental outcomes as much as we are able with the financial and social ones.</p>



	<p>The site constitutes one of the pilot case studies within the H2020 FoodE project. Within FoodE, the aim is to integrate, improve, and/or develop the following business dimensions:</p> <ol style="list-style-type: none"> 1. Food waste prevention <ol style="list-style-type: none"> 1.1. food waste recovery from retail/external <ol style="list-style-type: none"> 1.1.1. integrating ingredients/recovered food in the menu 1.1.2. preparing more free food to be donated to the disadvantaged 1.2. food waste prevention internal <ol style="list-style-type: none"> 1.2.1. recipes for leftovers 1.2.2. recipes “with what you have” – adaptive and versatile menu 1.2.3. recipes for preserving food, drying, freezing, fermenting etc. 1.3. compost + closed loop production+ soil farm + growing herbs 2. Zero waste bistro + food events/ catering + food & drinks to go <ol style="list-style-type: none"> 2.1. Packaging of food ingredients 2.2. Logistics for food to go 2.3. Logistics for serving (e.g. reusable napkins versus paper tissues etc.) 3. KM 0 – decrease of environmental footprint of the ingredients <ol style="list-style-type: none"> 3.1. Closed loop production – herbs 3.2. Own production of food – fermented, drying, herbs, etc. 3.3. Wild/ spontaneous peri-urban food integration 3.4. Development of other urban gardens + heirloom varieties; 4. Food HUB + Community Supported Agriculture + Food Bank <p>What set of indicators can be used to measure and compare the impact before and after and/ or what will be achieved as compared with a conventional bistro/restaurant?</p>
<p>Description of the assignment</p>	<p>Assignment: Methodology for measuring the decrease of the negative environmental impact determined by approaching environmentally friendly practices in food services (restaurant).</p> <p>Research question/solution quest: how we can measure the contribution we make when approaching sustainable practice as compared with conventional practices. For instance:</p> <ul style="list-style-type: none"> - How we can estimate the carbon footprint reduction by using only local products, handcraft beers? How this increase with the increase of the distance from the source? - What is the impact of food waste reduction per volume of quantity reduced?



	<ul style="list-style-type: none"> - How to measure the decrease of impact by approaching zero waste principles (for instance: not using any single-use recipient for food to go and/or by renouncing paper napkins, plastic straws using bulk ingredients as much as possible, stop selling plastic water bottles)? - What is the indicator that can be measured to show the benefits of serving natural slow food versus conventional fast food? - How we can assess the impact between different operational activities (e.g. how far can we transport the food waste to be composted/redistributed so that the carbon footprint of the transport is smaller than that of the food disposal). <p>Expected outcome: quantitative and qualitative indicators able to express the environmental outcomes, resulting from the adoption of innovative environmental friendly practices in the food service dimensions.</p>
Student team(s) required expertise	<ul style="list-style-type: none"> - Environmental studies - Mathematics/ statistics - Natural Sciences - Business management – HORECA industry <p>Ideally the team will have a background in environmental studies with knowledge on life cycle assessment, ecological footprint measurement, social green business management, food sciences.</p>

11. Ljubljana

Urban Beekeepers Association of Slovenia (Slovenia) hosts the following pilot initiative “Urban beekeeping for rehabilitation and social inclusion” ([go to description on FoodE website](#)). It will be target of the following activity type/s:

Give a name to this activity/ define activity type:	Local challenges
Describe the activity:	Organization of “calls for ideas” in the format of local project-base challenge.
Period and duration of the activity:	November 2020 -December 2021, challenge 1 (urban planning and design of beehives, 1 month duration) January – February 2021 Challenge 2 (business models, 1 month duration)
When do you expect this activity to start:	November 2020
How many of these activity type you expect:	2
Where (or how e.g. if it is online)	At the pilot facility and at the University for design and University of economics (Ljubljana). Each team can have members connected online as well.
Expected number of participants:	50 - 60



<p>Which kind of evidence can demonstrate their participation (e.g. list of signatures etc.):</p>	<p>Subscription to the challenge, list of signature, hand-in materials.</p>
<p>Participants categories (e.g. citizens, students, entrepreneurs, school organizations etc.):</p>	<p>Master students of design and architecture, master students of business and economics, entrepreneurs in the field of innovative business models.</p>
<p>Which aspects of your Pilot project will be the target of this activity? (e.g. which kind of questions you are going to ask the attendees?)</p>	<p>Urban planning and business model (entrepreneurship):</p> <ul style="list-style-type: none"> - How/where to place a beehive in a prison facility to make it user-friendly (urban planning) - How to make it look attractive for imprisoned persons to care for it and get involved (design) - Activities and tools to increase public awareness about urban beekeeping and at the same time increase social acceptance of (ex) imprisoned persons. - What is a sustainable and innovative business model to sell the bee produce by imprisoned persons on the market.
<p>How do you plan to monitor and document the outcomes of this activity?</p>	<p>We plan to produce media materials during the events (photos and promotional videos), make interviews to participants, we will have a detailed program of the events and a dedicated person in charge. There will be a specific format for the project submission as well.</p>
<p>How will you promote the activities:</p>	<p>Through our social media (FB) and website and FoodE website. We will spread the information throughout our network and contacts with the universities. We will do some PR and media work to disseminate the results as well.</p>



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