

## Research & Development Request

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# H2020 CE-SFS-24-2019 - Innovative and attractive French urban agglomeration is searching partners notably interested in the field of sustainable alimentary supply for setting up novel urban food-chains

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### Summary

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*An innovative and attractive French urban agglomeration has been setting up a consortium to be completed by a coordinator and other partners to answer H2020 CE-SFS-24-2019 call. The institution is searching municipalities or equal structures being experienced and applying novel practices in the domain of sustainable food-chains and food-systems. The scope of the project is to set-up an universally implementable model of an innovative, inclusive and sustainable food-system for cities.*

<b>Creation Date</b>	08 March 2018
<b>Last Update</b>	11 April 2018
<b>Expiration Date</b>	30 September 2018
<b>Reference</b>	RDFR20180307001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d5206c1b-1fad-41d3-8026-55d569a1602a">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/d5206c1b-1fad-41d3-8026-55d569a1602a</a>

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### Details

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#### Description

The rural exodus and the density of businesses and technologies in cities are reasons for the tremendous growth of the latter in the last decades. The number of people living in European cities does not cease rising.

One of the main challenges for the next years will be to find sustainable and inclusive solutions for providing the cities' inhabitants with affordable, safe and nutritious food. Cities shall be considered as "food-hubs" assuring the receipt, the dispatching and the distribution of high-quality and traceable alimentary products to their inhabitants.

The French urban agglomeration which is located in the south-west of France is already experienced in finding novel solutions and setting-up innovative schemes and models for furnishing sufficient quantities of food to the citizens on a local scale.

In 2014 the agglomeration received the appellation "food governance" pilot city at national level. In this framework it led a diagnosis (a SWOT) on the food system of the territory and mapped the actors involved in this policy.

In 2017, in May, the City Council voted the deliberation for the creation of a Food Policy Council which is composed of 5 groups of actors:

1. Public actors

2. Food and agricultural production
3. Food processing
4. Food distribution
5. Actors involved in campaigns' awareness, defending interest and changing the practices of eaters

In response to the Horizon 2020 call CE-SFS-24-2019 "Innovative and citizen-driven food system approaches in cities", the urban agglomeration has been setting up a consortium (regional and European operators) and is looking for a coordinator and other partners for its completion in order to construct altogether a sustainable, inclusive, innovative model for an urban food system.

The consortium in construction will be composed of SME and other private structures as well as of public structures (R&D centres or institutional organisms).

The common solution, which shall be the project's outcome, shall be universally implementable. That is why the project shall be notably based on the exchange of good practices, the experimentation of existing research and its devolution to other systems and the inclusion of the citizens for detecting global urban food-management approaches.

Therefor the urban agglomeration is able to mobilise the precedent actors in order to have a various and rich background serving as a base and test-ground for the project.

The agglomeration is looking for partners (cities, inter-municipal institutions, administrations, private companies, associations, etc.) that are willing to tackle the challenge of constructing a citizen-driven and innovative model of food systems in an urban environment. To realise this challenge the partners shall be capable to assure the approaches':

- coordination
- prototyping
- large-scale testing
- demonstration & piloting in a peri-urban and urban environment
- experimental production

The partners sought shall be experienced in the management of urban affairs (recycling, food provision, etc.) and shall also be capable to contribute to the consortium by integrating their best practices and habits, such as already existing food-chains, digital and smart solutions, information actions, cooperation concepts with local partners, etc.

The call's deadline is the 23rd January 2019. The institution is expecting partner offers until 30th September 2018. The project's activities are planned for approximately three years.

## Advantages and Innovations

The project's outcome shall be a model of a sustainable, inclusive, innovative, citizen-driven and viable food system which can easily find a replication and application in other cities.

Furthermore the project is ought to create profound links between the participant parties.

## IPR Status

Other

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## Keywords

### Technology

08002004	Traceability of food
10002006	Ecology
10002015	Life Cycle Assessment
11001	Socio-economic models, economic aspects

11004 Technology, Society and Employment

## Market

07003002 Health food

## NACE

O.84.1.1 General public administration activities

O.84.1.2 Regulation of the activities of providing health care, education, cultural services and other social services, except social security

O.84.1.3 Regulation of and contribution to more efficient operation of businesses

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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

### Phone Number

+48 91 449 43 64

### Email

pzebrowski@zut.edu.pl

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**Open for EOI :** **Yes**

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## Client

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### Type and Size of Organisation Behind the Profile

Other

### Year Established

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### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English

Ref: RDFR20180307001

French  
Spanish

## Client Country

France

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## Partner Sought

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### Type and Role of Partner Sought

The institution is looking for innovative, curious and trustful partners (cities, inter-municipal institutions, administrations, private companies, associations, etc.) that are willing to tackle the challenge of constructing a citizen-driven and novel solution for sustainable and inclusive food systems in an urban environment. To realise this challenge the partners shall be capable to assure the approaches':

- coordination
- prototyping
- large-scale testing
- demonstration & piloting in a peri-urban and urban environment
- experimental production

The partners sought shall be experienced in the management of urban affairs (recycling, food provision, etc.) and shall also be capable to contribute to the consortium by integrating their best practices and habits, such as already existing food-chains, digital and smart solutions, information actions, cooperation concepts with local partners, etc.

### Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

H2020

### Call title and identifier

CE-SFS-24-2019 Innovative and citizen-driven food system approaches in cities

### Submission and evaluation scheme

Single-Stage

### Coordinator Required

Yes

### Deadline for EOI

30 Sep 2018

### Deadline for Call

23 Jan 2019

### Project Duration

156 week(s)

## Weblink to the Call

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ce-sfs-24-2019.html>

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## Attachments

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## Research & Development Request

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### **H2020 / MSCA / Individual Fellowships: researcher (MD or PHD) in biomedicine / biotechnology with technical skills for the development of a mini mobile laboratory to perform toxicological testing of substances, chemicals, ingredients, etc. on site**

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#### Summary

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*A small German precision engineering company seeks a researcher to be funded by HORIZON 2020 – MSCA / "Society and Enterprise Panel". The objective of the innovation project is to develop a mobile mini-laboratory for toxicology testing of biological substances, chemicals as well as ingredients of cosmetics and pharmaceuticals on human samples. Applicants must hold a MD or PhD in biomedicine / biotechnology and have technical skills related to device development and tool building.*

<b>Creation Date</b>	23 February 2018
<b>Last Update</b>	05 April 2018
<b>Expiration Date</b>	30 June 2018
<b>Reference</b>	RDDE20180220001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/a4413c24-2cc5-447f-bd0b-b2456806ed26">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/a4413c24-2cc5-447f-bd0b-b2456806ed26</a>

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#### Details

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##### Description

The REACH Regulation requires all chemicals and substances to be tested with regard to their hazard potential to humans, animals and the environment. Many industrial sectors are affected by this regulation e.g. cosmetics, nutritional supplements, functional food, medicine, detergents, cleaning agents, etc..

Currently test methods are predominantly based on comparative models of animal experiments with mice and rats implicating serious ethical issues these days. Nevertheless, recent research has generated a number of animal-free test methods. But costs and time effort are high because they still need to be performed in laboratories with the respective technical equipment and trained staff. This is a big disadvantage especially for smaller innovative companies with fast product development cycles.

A German company, specialised in optical instruments, precision mechanics, process engineering and OEM (Original Equipment Manufacturer) development is planning to recruit a researcher for respective R&D project in order to address the following main problems:

1st: ethical issues as well as limited explication and transferability of animal tests to human applications

2nd: time and cost intensive laboratory test procedures

The objective of this project is to develop an effective, autarkic, mobile mini-laboratory in order to perform toxicity test on site, without relying on animal experiments and the need for special permissions.

Based on three already existing technical components/solutions a mobile device will be developed, which allows toxicity testing of any substance on chicken embryos (embryo toxicity testing for pregnant women) or human tissue samples (e.g. skin).

The three components are:

1st: optical unit for visualization and recording of the toxicity test progress and results (cell/tissue reactions to specific substances varying in terms of concentration, time of exposure, apoptosis, morphology etc.)

2nd: small climatized sterile test room (box/container with dimensions of around 500x500x500 mm)

3rd: handling technique/optimal test procedure inside the climatized test room (object holder, reaction vessel, test samples/substances to be tested as well as a special positioning system for placing the optical system above the test objects inside the climatized room)

The following working steps and the respective involvement of the researcher are envisaged in the project:

1. Establishing the theoretical basis for the implementation of the proposed variants of the toxicological investigation methods on a technological platform
2. Determination of the starting point for toxicological investigations with regard to comparative studies in animal experiments
3. Comparison of the mouse model against the chicken embryo model and the model with human samples e.g. skin.
4. Research on legal issues regarding testing and testing methods
5. Investigating current application of legislation in different markets and application areas
6. Clarification of the application in terms of toxic impact, hazard potential, differences in risk potential and susceptibility
7. Referencing a chicken embryo model test procedure and a skin model procedure and establishing the required conditions with respect to: conditioning/climatizing; sterility; sample size
8. Referencing the optical properties with regard to the required evaluation (resolution, magnification, wavelengths etc.)
9. Assessment of model suitability
10. Conception of a basic technical system for further development work in this field
11. Creation of a marketing concept and definition of the target markets and their needs

SME seeks researcher with an academic degree in biology, biochemistry, biotechnology or bioprocess engineering for a MARIE SKŁODOWSKA-CURIE-Action (Call: H2020-MSCA-IF-2018-SE). Submission deadline is 12th September 2018. Placement is planned for a 24 months funding period with the goal of permanent employment.

Deadline for EOIs: 30th June 2018.

## Advantages and Innovations

The envisaged solution will allow safe and reliable toxicology evaluation which is a big advantage compared to the animal based model of probability and its limited explication and transferability to human conditions.

The final mini-lab solution will be mobile and thus offering a big competitive advantage to small innovative companies with fast product development cycles.

Toxicological tests with the new system can be performed by non-academic staff and without complex infrastructure facilities.

## Technical Specification or Expertise Sought

Ref: RDDE20180220001

MD or PhD in biomedicine / biotechnology with a technical affinity, as the project involves device development, functionalising and testing.

## Stage of Development

Under development/lab tested

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## Keywords

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### Technology

06002001	Biochemistry / Biophysics
06002010	Toxicology
08002001	Detection and Analysis methods
08002002	Food Microbiology / Toxicology / Quality Control
10001002	Assessment of Environmental Risk and Impact

### Market

03007003	Other analytical and scientific instrumentation
04012	Toxicology
05009001	Food & feed ingredients

### NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
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## Network Contact

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### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

### Contact Person

Pawel Zebrowski

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**Open for EOI :**    **Yes**

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## Dissemination

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### Send to Sector Group

Bio Chem Tech

### Restrict Dissemination to Specific Countries

Croatia, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland,  
Romania, Russia, Slovakia, Slovenia,

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME 11-49

### Year Established

0

### Already Engaged in Trans-National Cooperation

No.

### Languages Spoken

English  
German

### Client Country

Germany

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## Partner Sought

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### Type and Role of Partner Sought

Researcher with an academic degree / university graduate / MD or PHD in the field of biology, biochemistry, biotechnology, bioprocess engineering;  
Special technical expertise is not required, but interest in a new field of work coupled with a technical affinity is of great advantage. The interested researcher will apply her/his biotech expertise while working with technical equipment and devices, testing them and adjusting their properties and functions. Important is the ambition to build up a new business field with high potential for the researcher's professional future.

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

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### Framework Program

Marie Skłodowska-Curie Actions

Ref: RDDE20180220001

**Call title and identifier**

H2020-MSCA-IF-2018 (MSCA-IF-EF-SE Society and Enterprise panel)

**Coordinator Required**

No

**Deadline for EOI**

30 Jun 2018

**Deadline for Call**

12 Sep 2018

**Project Duration**

104 week(s)

**Weblink to the Call**

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/msca-if-2018.html>

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**Attachments**

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