

# The Knowledge Incubator online platform

**ICT-AGRI-FOOD**

Knowledge Incubator



Siham Kourdi & Marijke Hunninck

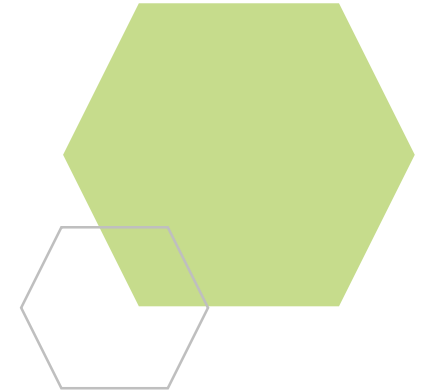
24 May 2022

# Innovations

The webpage of the Knowledge Incubator can be found at:

<https://ictagrifood.eu/node/44646>

Here you can create an innovation and find an overview of the submitted innovations.



## WHAT IS A INNOVATION OFFER?

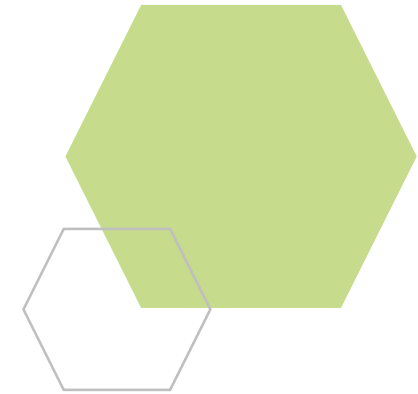
An innovation offer is a digital technology or solution that the entity wishes to make available to other organizations that can contribute to solve a specific problem in the agri-food-system.

[CREATE YOUR OFFER](#)

## INNOVATIVE DIGITAL SOLUTIONS?

Innovative digital solutions are the result of transforming a problem or a need into a digital technology.

[View list](#)



# Create innovation

On this page create your innovation: <https://ictagrifood.eu/node/add/innovations>  
Based on the criteria to add an innovation, we created some filters to easily filter on:

## CREATE INNOVATION

Title of your Innovation \*

▼ Your data

Institution

Call \* 2017 - ICT-AGRI call on Farm Management Systems for Precision Farming

Project name

Project acronym

Funders - None -

▼ Project duration

Date  
24 May 2022  
E.g., 24 Jun 2022

Date to:  
24 May 2022  
E.g., 24 Jun 2022

- **Title of your innovation**
- **Institution** (with list if you start typing)
- **Call** (drop down menu)
- **Project name**
- **Project acronym**
- **Funders** (drop down menu)
- **Project duration** (start date and end date)

# Create innovation

- **Role in the project** (e.g., project coordinator, WP leader, project partner)
- **Members of the research groups**
- **Contact emails**

Role in the project

(e.g., project coordinator, WP leader, project partner)

Members of the research groups

Hide row weights

Order

0 ▾

ADD ANOTHER ITEM

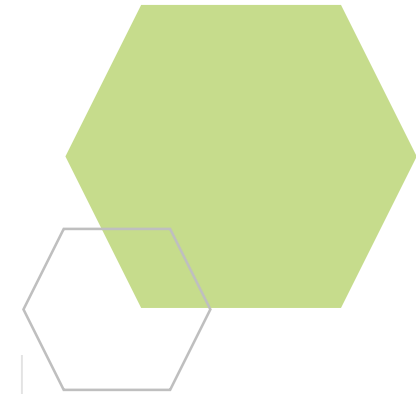
Contact e-mails

Hide row weights

Order

0 ▾

ADD ANOTHER ITEM



# Create innovation

- **Teaser** (make people interested in reading your innovation using a sentence).

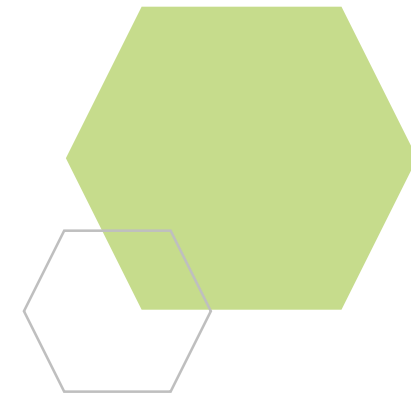
Teaser \*

- **Categories** (Please, choose at least 5 categories in order to make easier to find your innovation within the knowledge incubator).
  1. ICT Domein (selecting list with 8 catergories)
  2. AGRI Domein (selecting list with 17 catergories)
  3. FOOD Domein (selecting list with 12 catergories)

|                    |              |
|--------------------|--------------|
| Hide row weights   |              |
| <b>ICT domain</b>  | <b>Order</b> |
| - None -           | 0            |
| ADD ANOTHER ITEM   |              |
| Hide row weights   |              |
| <b>AGRI domain</b> | <b>Order</b> |
| - None -           | 0            |
| ADD ANOTHER ITEM   |              |
| Hide row weights   |              |
| <b>FOOD domain</b> | <b>Order</b> |
| - None -           | 0            |
| ADD ANOTHER ITEM   |              |

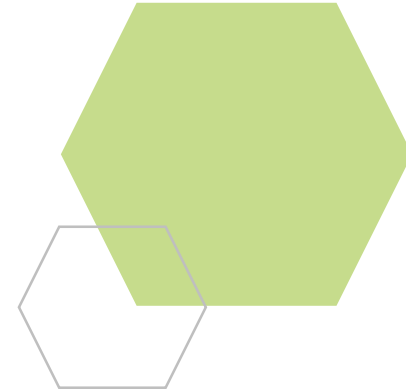
# Create innovation

- **Abstract** (Max 1500 characters, including spaces)
- **Problem addressed** (Max 2000 characters, including spaces)
- **Solution offered** (Max 2000 characters, including spaces)
- **Innovation description** (Describe your innovation to potential users and researchers that want to collaborate with you. In your description feel free to use wording and categories that may be missing in the list of categories. (Max 2000 characters, including spaces)).
- **Innovation stage** (Describe what is needed to improve your innovation in term of research needs, SMEs to further develop it, Marketing analysis, interaction with end users etc. (Max 2000 characters, including spaces)).



# Create innovation

- **Technological Readiness Level (TRL)** (Define the Technology Readiness Level of your innovation  
[https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/annexes/h2020-wp1415-annex-g-trl\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-g-trl_en.pdf))
- **Contribution to UN SDGs** (Which UN Sustainable Development Goals is your innovation contributing to? (UN SDGs guide to identify goals, subgoals, targets and actions: <https://sdgs.un.org/goals>)



**Technological Readiness Level (TRL) \***

Define the Technology Readiness Level of your innovation ([https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/annexes/h2020-wp1415-annex-g-trl\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-g-trl_en.pdf))

**Contribution to UN SDGs \***

Which UN Sustainable Development Goals is your innovation contributing to? (UN SDGs guide to identify goals, subgoals, targets and actions: <https://sdgs.un.org/goals>)

# Create innovation

- **References** (Add up to 10 relevant references (journal articles, web links, patents etc.)
- **Multimedia files** (Here you can upload images (e.g., a picture or technical drawing of the proposed technology), videos and/or audio files. (max 10 MB /file).
- **Save your innovation!**

Hide row weights

**References** **Order**

0 ▾

Add up to 10 relevant references (journal articles, web links, patents etc.)

ADD ANOTHER ITEM

---

Hide row weights

**Multimedia files** **Order**

Select media

0 ▾

Here you can upload images (e.g., a picture or technical drawing of the proposed technology), videos and/or audio files. (max 10 MB /file)

ADD ANOTHER ITEM

**Image**

Choose file No file chosen UPLOAD

Files must be less than **8 MB**.  
Allowed file types: **jpg jpeg png**.

SAVE

PREVIEW



# Innovations

The webpage of the Knowledge Incubator can be found at:

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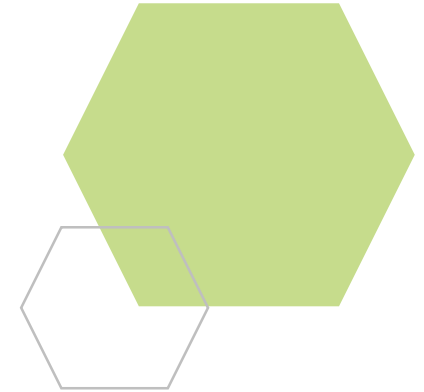
An innovation offer is a digital technology or solution that the entity wishes to make available to other organizations that can contribute to solve a specific problem in the agri-food-system.

[CREATE YOUR OFFER](#)

## INNOVATIVE DIGITAL SOLUTIONS?

Innovative digital solutions are the result of transforming a problem or a need into a digital technology.

[View list](#)



# List of innovations and technology

On this page you find an overview of all submitted innovations:

<https://ictagrifood.eu/list-of-innovations-and-technology>

Based on the criteria to add an innovation, we created some filters to easily filter on:

- Domain; ICT / AGRI / FOOD
- Innovation developer
- Funding institution
- Project name

## LIST OF INNOVATIONS AND TECHNOLOGY

Search your innovation

ICT domain

- Any -

AGRI domain

- Any -

FOOD domain


- Any -

Innovation developer

Funding institution

Project name

APPLY

|   |  |  |
|---|--|--|
|  | <p>Resilience of cropping systems</p>  |  |
|   | <p>Near-surface applied geophysics and advanced modeling techniques for soil compaction characterization</p> | <p>Assessing soil compaction with applied geophysics methods</p> |
|   | <p>Near-surface applied geophysics and advanced modeling techniques for soil compaction characterization</p> |  |

Or select an innovation out the list



# Innovation

## Overview of innovation:

- Title
- Summary of the innovation
- Innovation description
- Problem addressed
- Solution offered
- Domain categories
- Technological Readiness Level
- Call year

We encourage you to like the innovations that you find valuable



## RESILIENCE OF CROPPING SYSTEMS

The Department of Veterinary Science, University of Messina, Italy, has a long-term involvement in different research programs both at national and international level in the field of medicine, animal and crop science. The Agronomy and Crop Science unit, provides worldwide research leadership in the subjects of food, feed, fodder and fuel value chains, including crops for alternative uses for the transition to healthy and sustainable dietary behavior for the Mediterranean area. The mission is to foster the adoption of profitable, environmentally sound, and socially responsive agricultural systems through tailored agronomic practices and resilient strategies to reduce agriculture impact

### Innovation description:

Tailored experimental design to overcome bottlenecks on-farm and improve the productivity and the climate-resilience of the cropping systems in the Mediterranean area. Identify, address and remove barriers for adoption of ICT technologies at the farm level. Adoption of on-farm measures for strengthening ecosystem services (including carbon sequestration, biodiversity protection, soil fertility maintenance, protection of water bodies, avoidance of antibiotics, promotion of pollinators etc.).

### Problem addressed:

Cropping system productivity, soil management, energy and nutrient use, resource use, agrobiodiversity, climate change mitigation, bioeconomy valorization, ecosystem service provisions

### Solution offered:

The unit of Agronomy and Crop Science at the Department of Veterinary Science of the University of Messina can provide expertise to a consortium to contribute to the Topic (1, 2 and 3) on sustainable and resilient cropping systems in the Mediterranean environment (southern Italy). Specifically we can contribute designing field experiments for improved and environmental sounds practices and products quality from Mediterranean genetic resources and alternative crops suitable to increasing drought conditions foreseen by climate change. Improve resource use efficiency, crop physiology and tailor low-input agronomic practices as adaptive strategies to mitigate climate change effects, reduce environmental pollution/impact and provide strategies for ecosystems services provisions. Involve farmers and other actors in the agri-food value chains.

### AGRI domain:

- 1.Increase system productivity/competitiveness
- 4.Soil management
- 6.Energy and nutrient use management
- 11.Agroecology
- 12.Climate change mitigation and adaptation
- 13.Valorisation of ecosystem services
- 15.Bioeconomy and circularity
- 17.Production quality at the farm level

### FOOD domain:

- 2.Reduction of food waste and losses

### Technological Readiness Level (TRL):

Discovery phase (TRL 1,2 & 3)



### Call year:

2022

### Project name :

Implementation of soil compaction risk assessment system – end-user's evaluation of potentials

### Project acronym:

SOCORISK

### Project duration :

2021 to 2024

### Members of the research groups:

Francesco Morari

Nicola Dal Ferro

Alberto Carrera

### Contact e-mails:

francesco.morari@unipd.it

alberto.carrera@phd.unipd.it

### Teaser:

Assessing soil compaction with applied geophysics methods

### Contribution to UN SDGs :

11,12,14

### Call title:

ICT AGRI FOOD Cofund

### Funders:




Ministry of agricultural, food and forestry policies (MIPAAF)
















# Share and/or save innovation

- Share innovation:

Here you can selected on which channel you would like to share this innovation

Share / Save   

 Facebook
  Twitter  
 WhatsApp
  Email  
 LinkedIn
  Pinterest  
 Telegram
  Messenger  
 Reddit
  Gmail  
 Pocket
  Tumblr  
 AddToAny

## SEND BY EMAIL

Your email \*

Your name

Send to \*

Enter multiple addresses separated by commas and/or different lines.

Subject \*

Page to be sent

Your message \*

SEND EMAIL

CANCEL

- Save innovation:

SAVE AS PDF

23/05/2022, 10:49 Resilience of cropping systems

ICT-AGRI-FOOD Meta Knowledge Base

**Resilience of cropping systems**

The Department of Veterinary Science, University of Messina, Italy, has a long-term involvement in different research programs both at national and international level in the field of medicine, animal and crop sciences. The Agronomy and Crop Science unit, provides worldwide research leadership in the subjects of food, feed, fodder and fuel value chains, including crops for alternative uses for the transition to healthy and sustainable dietary behavior for the Mediterranean area. The mission is to foster the adoption of profitable, environmentally sound, and socially responsive agricultural systems through tailored agronomic practices and resilient strategies to reduce agriculture impact

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17. Production quality at the farm level

**FOOD domain:**  
2. Reduction of food waste and losses

**Technological Readiness Level (TRL):**  
Discovery phase (TRL 1, 2 & 3)

**Call year:**  
2022

Print 1 page

Destination Save as PDF

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# Comments and reply to comment

**AGRONOMY AND CROP SCIENCE**

Permalink Submitted by Danilo Scordia on 18 May, 2022 - 13:05.

We offer our expertise

Like

←

Your name

Subject

Comment \*

Text format Filtered HTML

Web page addresses and e-mail addresses turn into links automatically.  
Replaces [VIDEO::http://www.youtube.com/watch?v=someVideoID::aVideoStyle] tags with embedded videos.  
Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <img> <h2> <h1> <h3> <div> <span> <section> <b> <ul> <ol> <li> <dl> <dt> <dd> <p> <table> <td> <tr>  
Lines and paragraphs break automatically.

CAPTCHA

This question is for testing whether or not you are a human visitor and to prevent automated spam submissions.

**Math question** \* 2 + 0 =

Solve this simple math problem and enter the result. E.g. for 1+3, enter 4.



# Add a comment

## ADD NEW COMMENT

Your name

Subject

Comment \*



Text format Filtered HTML

[More information about text formats](#)

Web page addresses and e-mail addresses turn into links automatically.

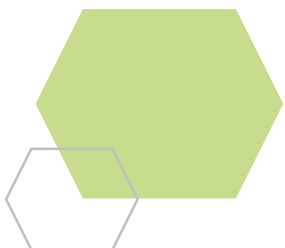
Replaces [VIDEO::http://www.youtube.com/watch?v=someVideoID::aVideoStyle] tags with embedded videos.

Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <img> <h2> <h1> <h3> <div> <span> <section> <b> <ul> <ol> <li> <dl> <dt> <dd> <p> <table> <td> <tr>

Lines and paragraphs break automatically.

SAVE

PREVIEW





# LET'S KEEP IN TOUCH

Please feel always free to reach out to us.

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## TWITTER - LINKEDIN

@ictagrifood - <https://www.linkedin.com/in/ict-agri-food-1225041b9/>

## WEBSITE

[www.ictagrifood.eu](http://www.ictagrifood.eu)

## EMAIL

Marijke Hunninck: [Marijke.Hunninck@ilvo.vlaanderen.be](mailto:Marijke.Hunninck@ilvo.vlaanderen.be)

# Thank you for your attention