agROBOfood OpenCall

Industrial Challenges

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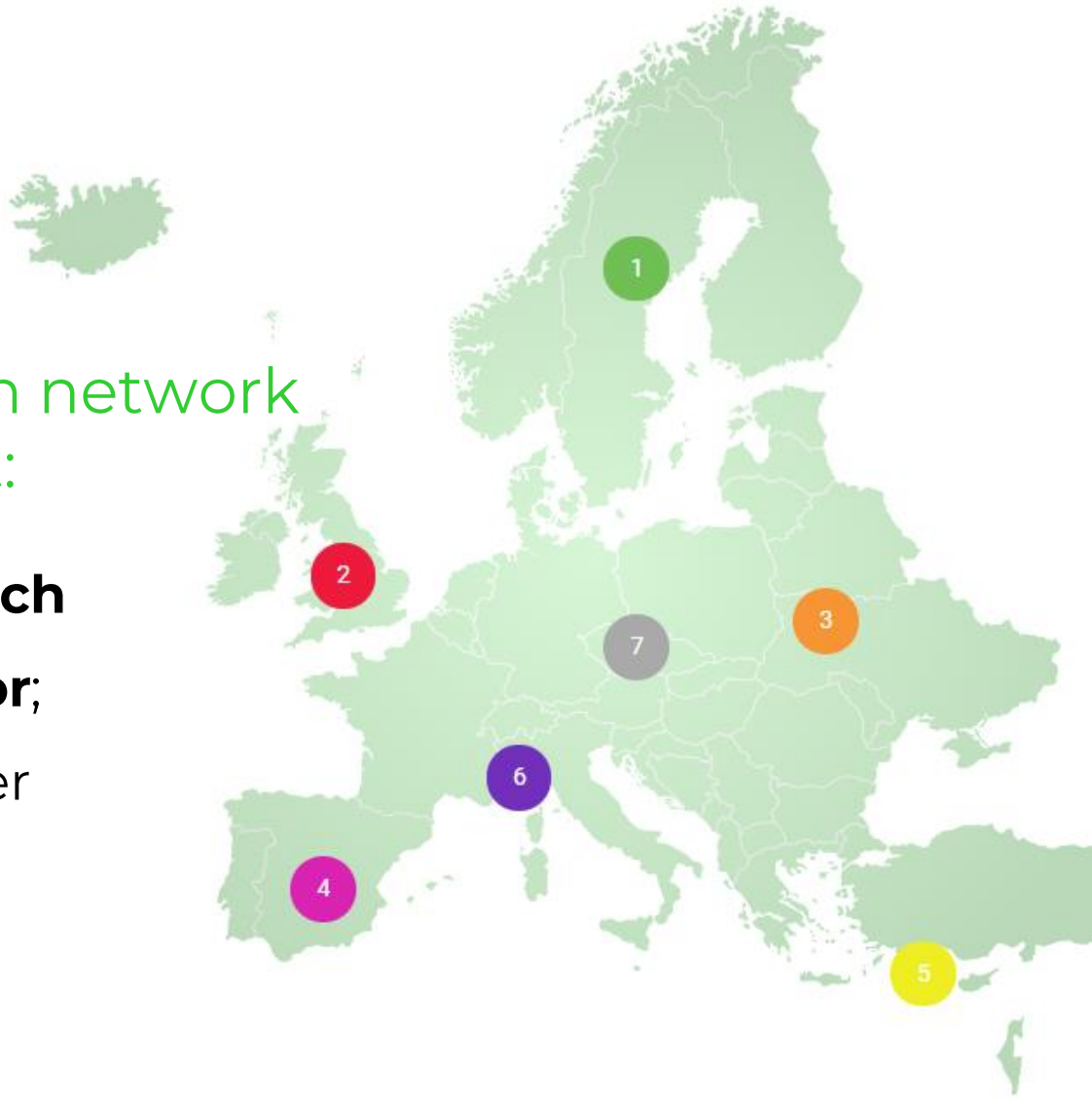
agROBOfood Vision

Establish and expand a pan-European network of Digital Innovation Hubs (DIHs) that:

- will stimulate implementation of **high-tech robotic concepts** for the **agri-food sector**;
- will demonstrate their **applicability** under practical circumstances.



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The Concept

One stop shops

DIHs which offer a complete service portfolio to companies at close distance

Value demonstration

Highly-innovative cross-border experiments

Services

Support industry's digitization and robotization

Growth of ecosystem

Foster new DIHs/CCs in the network & engage end users across the value chain

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agROBOfood OpenCalls

Industrial Challenges
2.7 M €

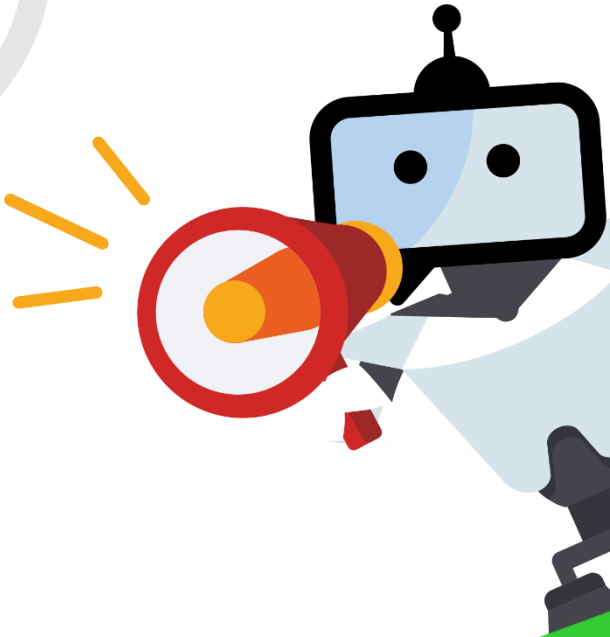
3 Open Calls

Innovation Experiments
5.3 M €

Open Call
October 2020
January 2021

Open Call 1
March 2020
September ‘20

Open Call 2
February 2021
May 2021



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Open Call for Industrial Challenges

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Industrial Challenges | Funding Schema

Total amount to be granted **2.7M EUR**

Total amount per project **up to 300K EUR**

Eligible applicants **European SMEs in agrifood & robotics**

Individual applicants **1 SME per proposal**

Projects to be approved **8-10**

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Industrial Challenges | Open Call Timeline

Open Call begins
20 October 2020

Open Call Ends
20 January 2021

Selection
April 2021

Contracting
April 2021

Implementation
May 2021 to September 2022

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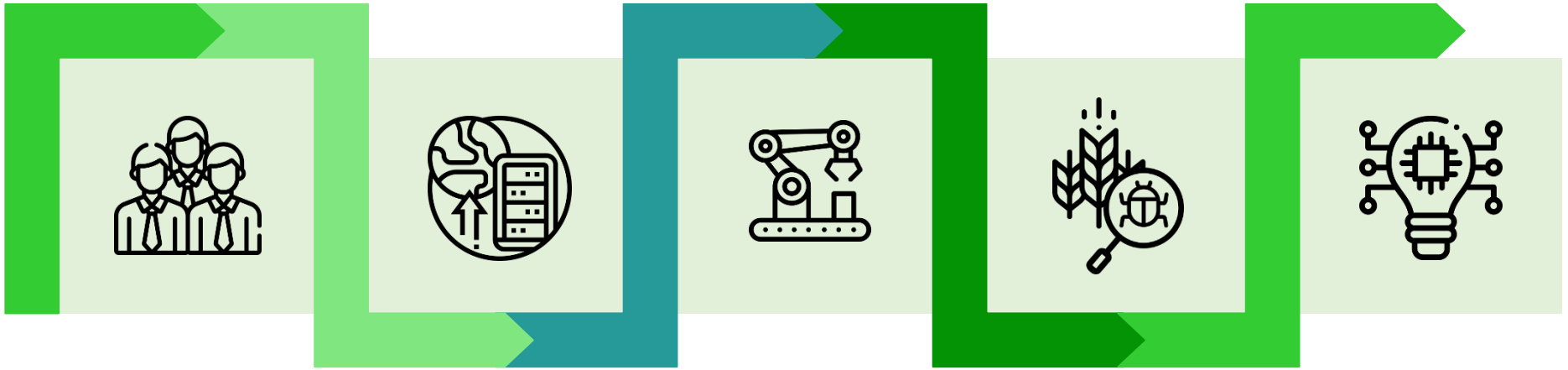
Who are we looking for?

Single Applicants

Robotic Technology

Business Oriented



Address the Challenge

Socio-Economic Aspect

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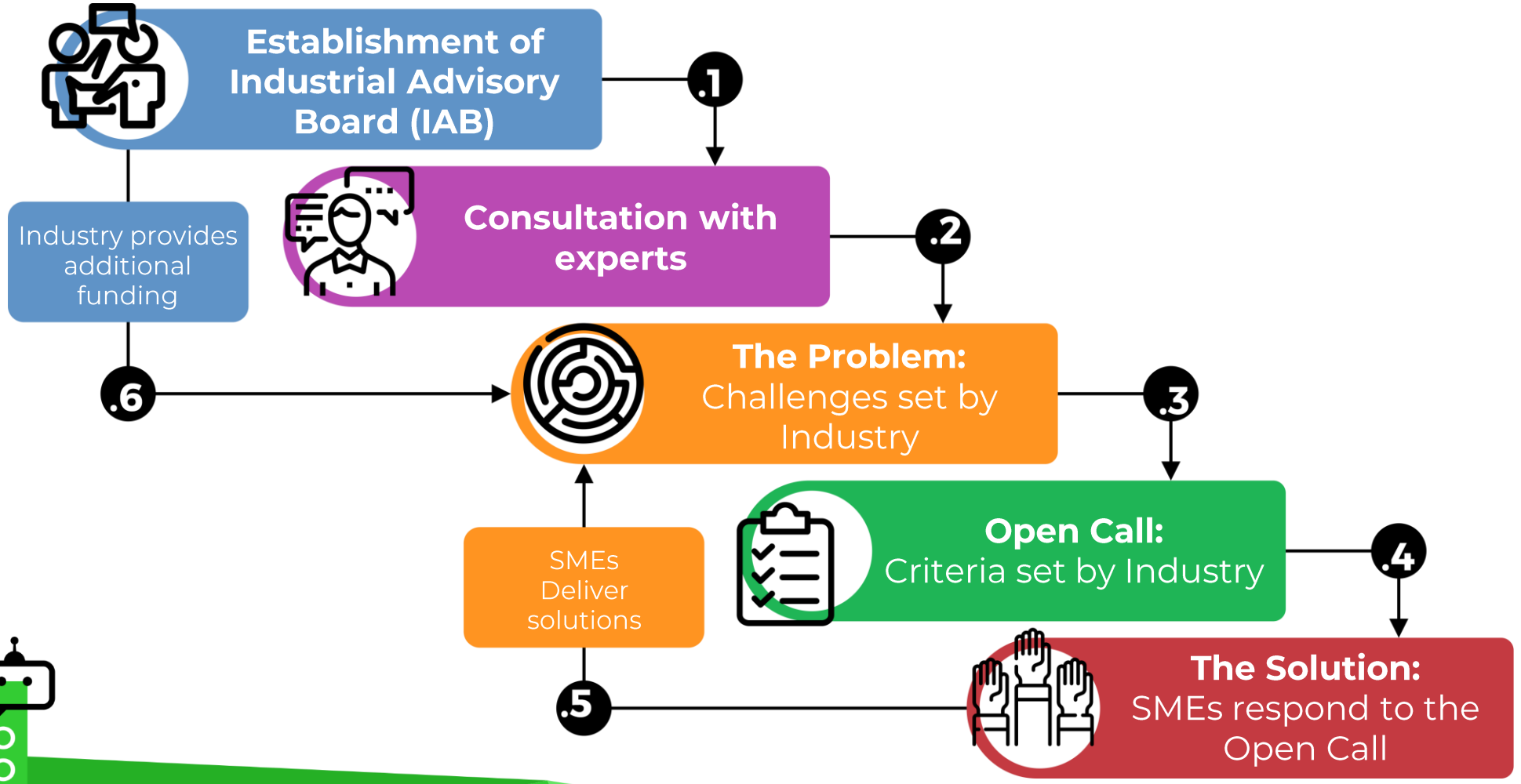
SMEs - Definition

- Independent, partner or linked enterprises, with financial and staff figures calculated in accordance with instructions given by Recommendation 2003/361/EC3
- It is a legal entity established and based in one of the EU Member States or an H2020 Associated country as defined in H2020 rules for participation 4 (see section 3.2.2)
- Headcount in Annual Work Unit (AWU) less than 500
- Annular turnover less or equal to €100 million

Industrial Challenges



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Industrial Challenges - Topics

- Each challenge is composed of:

1. **Technical Component** > Development or improvement of (existing) robotic technology solutions

2. **Complementary Component** > Socio-economic analysis or assessments of complementary social, economic, environmental, or ethical aspect of the solution

- All interested applicants must address the full challenge as defined

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Industrial Challenges

1. Robots for Spot Spraying
2. Robots for logistics picking, packing and palletizing
3. Robots for livestock feeding
4. Robots for selective harvesting
5. Robots for cleaning

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Industrial Challenges

1. Can optimized spraying lead to improved environmental conditions?

Robots for Spot Spraying

Analysis of environmental benefits of spot spraying solutions compared to existing options as well as alternative growing possibilities

2. Can robots improve working conditions in the labour force in the fresh and processed food industry?

Robots for logistics picking, packing and palletizing

Analysis of the impact of robotics in the field of food logistics on the reduction of labour force or generation of new job opportunities

3. Are robots in the livestock industry posing ethical challenges by replacing human labour with machines?

Robots for livestock feeding

Analysis of the ethical challenges and their perception when human labour is replaced by machines

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Industrial Challenges

4. What added value can harvesting robots bring compared to existing machinery solutions?

Robots for selective harvesting

Analysis and assessment of the exact benefits of robotic technologies compared to already existing agricultural machinery

5. What new business opportunities do robots for cleaning livestock farms bring?

Robots for cleaning

Analysis and projections of new business models including service-based business models

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Your idea

- **Addresses** the topic
- **Shows** technical excellence
- **Uses** a viable business model
- **Proves** sustainability impact
- **Is implemented** by competent partner

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Application process step by step

Register at the agROBOfood Website

Carefully read all the documents

Contact Digital Innovation Hub representative

Define your project proposal

Submit all necessary documents

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Important Documents

- Call Fiche
- agROBOfood Guide for Applicants
- Proposal Template
- SME declaration
- Declaration of Honour
- Data Privacy Policy
- Bank Account Information

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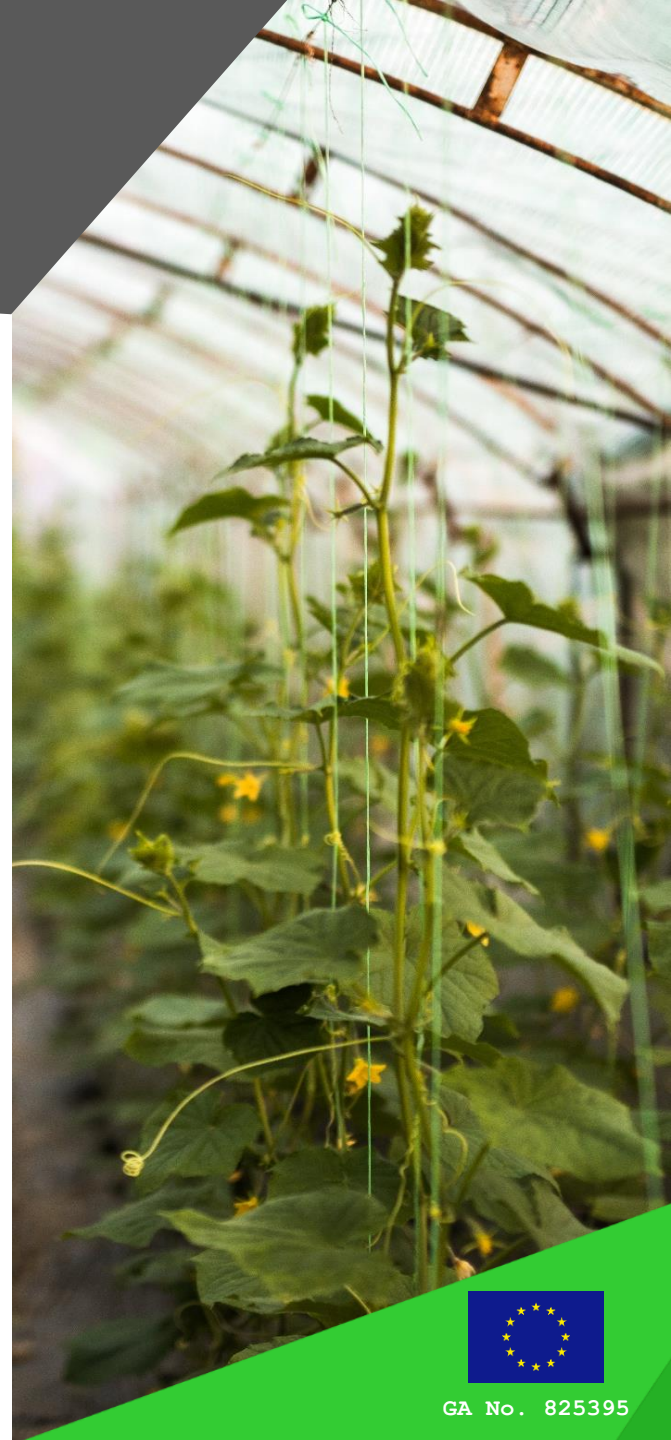
Selection Process

- 1st stage: Remote evaluation by independent evaluators with expertise in robotics, agriculture, business
- 16 top-rated applicants are shortlisted
- 2nd stage: Interviews with independent evaluators and Industry Advisory Board members
- Final list of selected projects start with contracting

Implementation of Industrial Challenges



Design

May 1st – Jul. 31st, 2021
(3 months)

Design a work plan of activities and resources jointly with DIH

Develop

Aug. 1st, 2021 – Mar. 31st, 2022
(8 months)

Perform technical development, socio-economic analysis / assessments and realize the work plan

Market

Apr.l 1st, 2022 – Sep. 30th 2022
(6 months)

Focus on exploitation of the results / achievements: demonstration, events, contact with investors and partners

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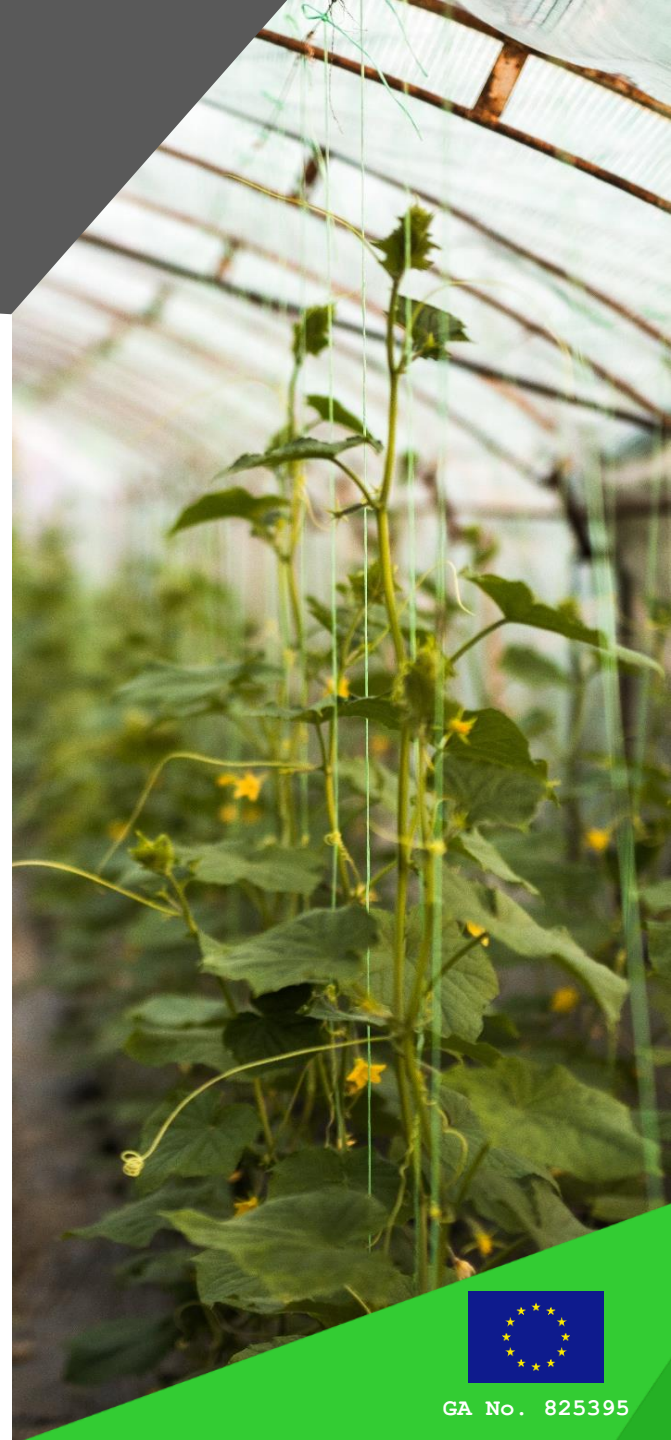
Implementation of Industrial Challenges



Design

May 1st – Jul. 31st, 2021
(3 months)

30%
of funding
released

Develop

Aug. 1st, 2021 – Mar. 31st, 2022
(8 months)

40%
of funding
released

Market

Apr.l 1st, 2022 – Sep. 30th 2022
(6 months)

30%
of funding
released

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Apply info

https://agrobofood.eu/industrial-call/

For more information please contact:

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Core partners

Coordinator

WAGENINGEN UNIVERSITY & RESEARCH

Partners

BioSense INSTITUTE
eurecat
DANISH TECHNOLOGICAL INSTITUTE
ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ AGRICULTURAL UNIVERSITY OF ATHENS
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irstea
Fraunhofer IPA
DRAXIS ENVIRONMENTAL TECHNOLOGIES
etam s.a. consulting services
Waterford Institute of Technology INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE
ILVO Flanders research institute for agriculture, fisheries and food
tecnova CENTRO TECNOLÓGICO
DigiTecH
High Tech NL
Startup Division
INAMOTER Istituto per le Macchine Agricole e Movimento Terra Consiglio Nazionale delle Ricerche
VTT
INESCTEC ASSOCIATE LABORATORY PORTUGAL
JOANNEUM RESEARCH
CEMA European Agricultural Machinery
LetsGrow.com YOU'RE IN CONTROL
AEF AGRICULTURAL INDUSTRY ELECTRONICS FOUNDATION
TU Delft
SAIA AGROBOTICS
bogaerts greenhouse logistics
AGENSO
Q Technologies innovative mass spectrometry systems
Robotnik
TECHNICON Technical Consulting
E-STRATOS
VITIROVER SOLUTIONS
INNOVI Clúster Vitivinícola Català
CAM Engineering
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ViticBot
SITIA APPLIED INNOVATION

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