



# NUTRI•KNOW



## FINAL EVENT

Learn more about us at [www.nutri-know.eu](http://www.nutri-know.eu)





# The Nutrient Management Challenge

- EU still dependent on imported fertilisers
- System vulnerable to external factors
- Increasing costs (e.g. energy, inputs)
- Pressure to use nutrients more efficiently
- Need to reduce losses and environmental impact

MEPs want to bring down their prices

## "EU should be less dependent on imported fertilizers"

The European Parliament urges the Commission to ensure the supply of fertilisers, take action to bring down prices, and increase the EU's strategic autonomy in fertilisers.

Home / News / Agrifood / CAP reform / EU is too dependent on animal feed and fertiliser imports, warns Parliament study

## EU is too dependent on animal feed and fertiliser imports, warns Parliament study

By Sofia Sanchez Manzanaro | Euractiv | Est. 3min

7 mar 2024

## Recovering Nutrients To Save The Planet: The Fertilizer Challenge

July 31, 2023 | 0 Comments

By Eurasia Review

02 February 2024 by Diego Giuliani

## Reuse or let die. Crucial for life but threatening if in excess: the nutrient challenge



A A

Essential for life but threatening for the environment if in excess. The nutrient challenge and the circular response: turning them from waste into biofertilizers to tackle pollution and feed the world's growing population

## Europe's fertilizer demand struggling amid high gas costs, cheaper imports



★ Favorites | Print | Forward | Share | LinkedIn | X | Facebook

Oct. 9, 2023

By Deepika Thapliyal (Deputy Managing Editor, Fertilizers), Sylvia Tranganida (Senior Ammonia Editor) and Aura Sabadus (Senior Journalist), ICIS



# Knowledge Challenge

## KNOWLEDGE

*What we know*



Recommendations Products  
Innovative Technologies Tools



## NUTRI-KNOW



collecting, translating, and sharing  
**easy-to-understand** and **practice-oriented** knowledge

## PRACTICE

*What we practice*



knowledge-to-application

# GAP



## NUTRIENT MANAGEMENT

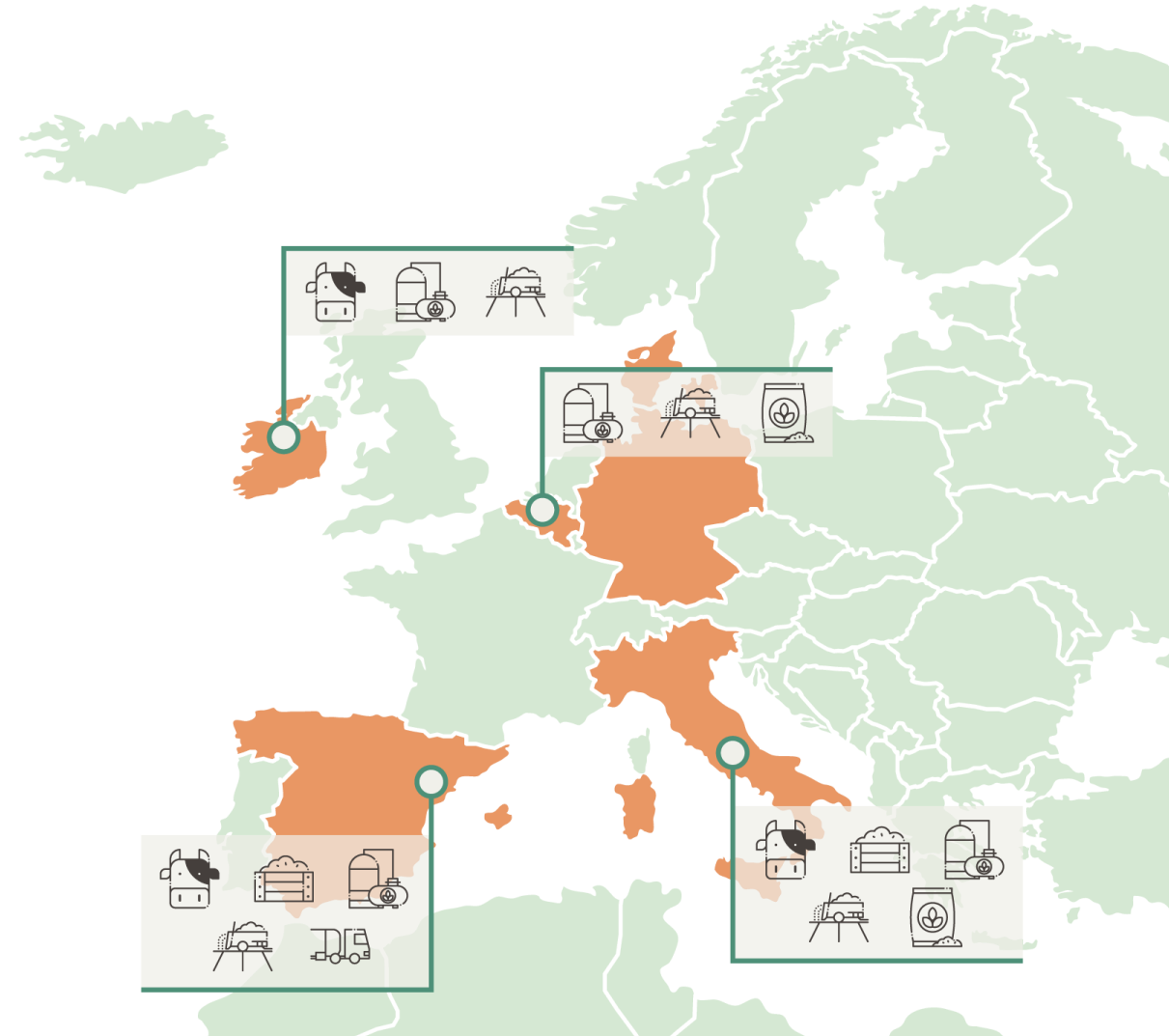
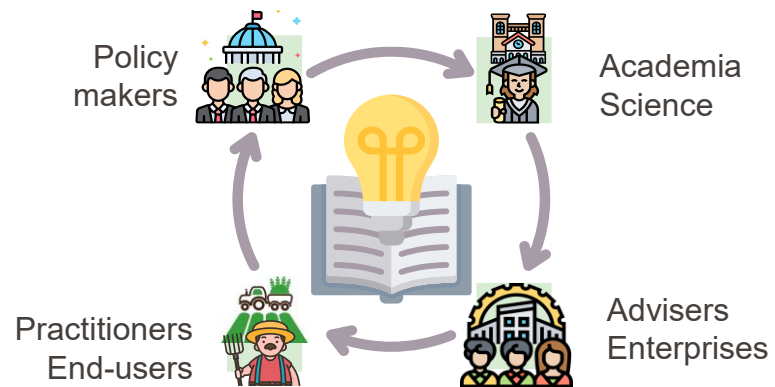


# NUTRI-KNOW APPROACH

## Project partners



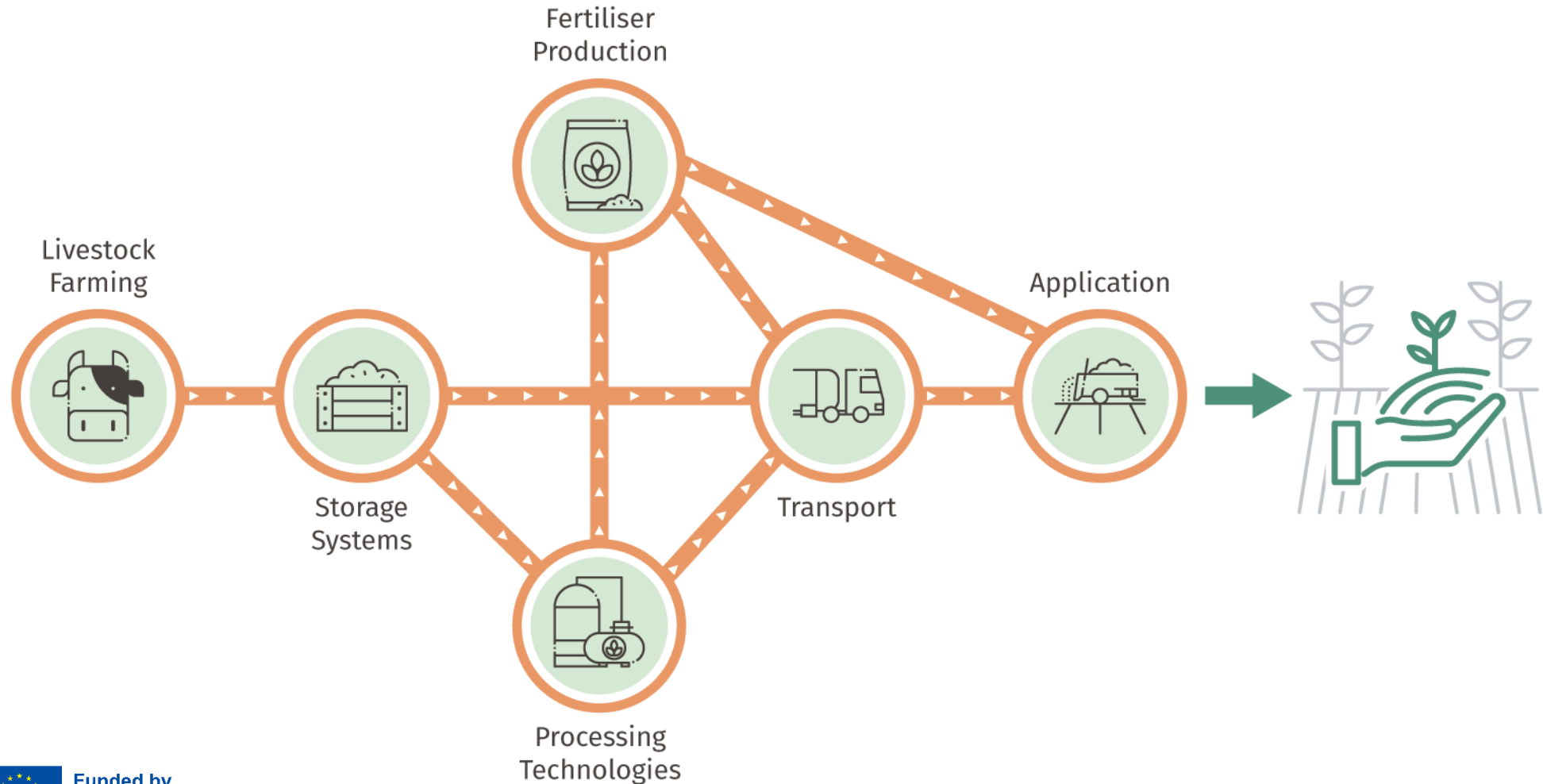
## MULTI-ACTOR APPROACH (MAA)





# NUTRI-KNOW APPROACH

## NUTRIENT MANAGEMENT VALUE CHAIN





# NUTRI-KNOW Outcomes

## 1. Meta-Database on nutrient management

*containing the outcomes from 12 OGs and their alignment with farmers' needs, current policy framework and cost benefit analysis compared with current scenario*

## 2. Inventory of current nutrient management practices

*to broaden the screening of practices beyond the 12 engaged OGs*

## 3. Kit of practice-oriented material

*targeting farmers and practitioners (booklets, audio-visual material, infographics, leaflets, factsheets).*

## 4. Practice Abstracts

*common EIP-AGRI format*

## 5. Massive Open Online Course (MOOC)

*together with farming and agricultural schools including educational material targeting farmers and practitioners*

## 6. Community of Practice (CoP) on nutrient management

*platform to bring together practitioners sharing common concerns and working collectively to reach individual and group goals*

## 7. 3 Policy briefs

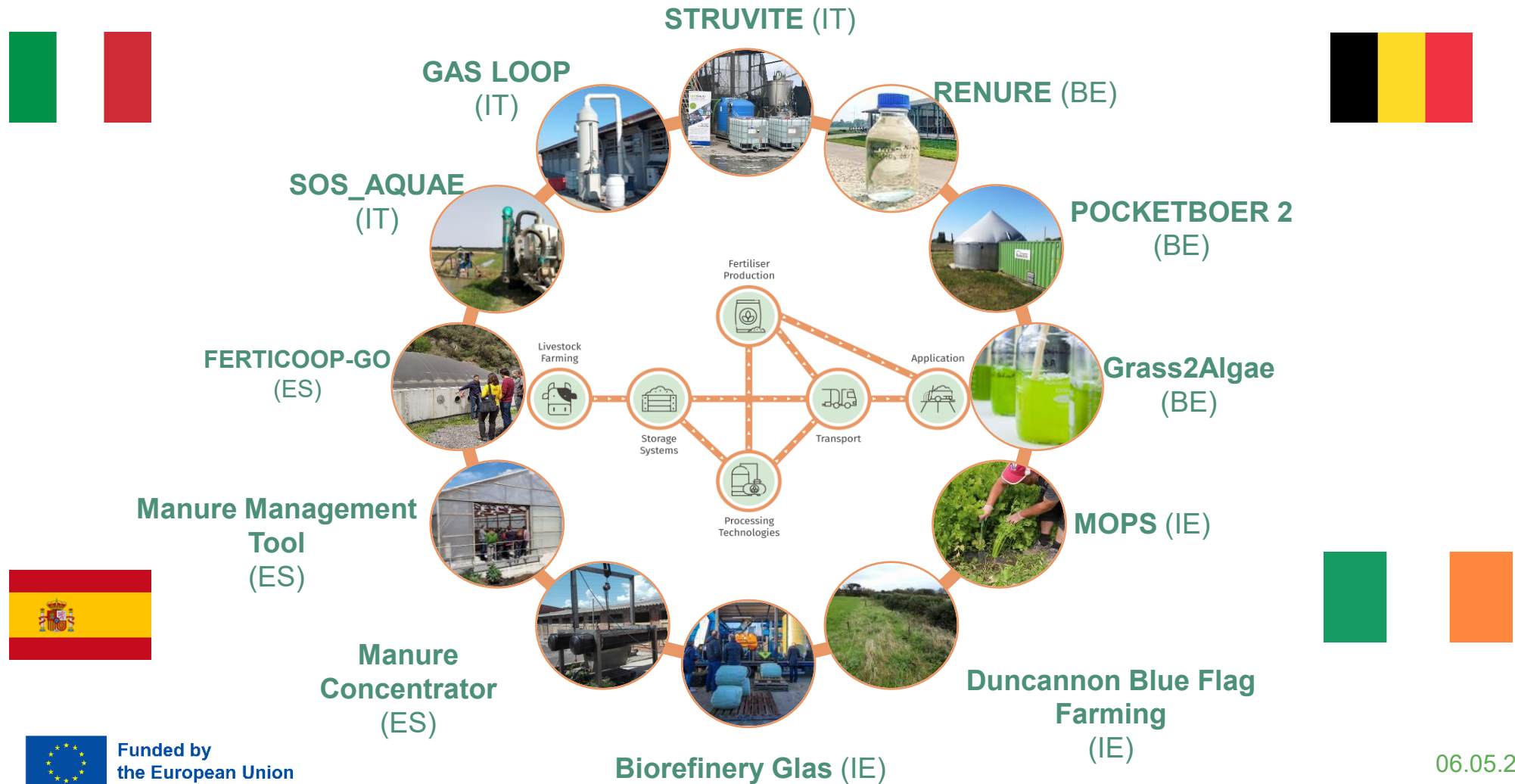
*to strengthen the EU's sustainable nutrient management.*

## 8. Results Amplification Methodology (RAM)

*to accelerate a broader replication of the knowledge and experience obtained*



# 1. Collection & Homogenisation: EIP-AGRI OG knowledge of innovative nutrient management practices





# 1. NUTRI-KNOW metadatabases



- ▾ Practice-oriented material
- ▾ Policy briefs
- ▾ Media materials
- ▾ Communication materials
- ▾ Public deliverables

## Public deliverables



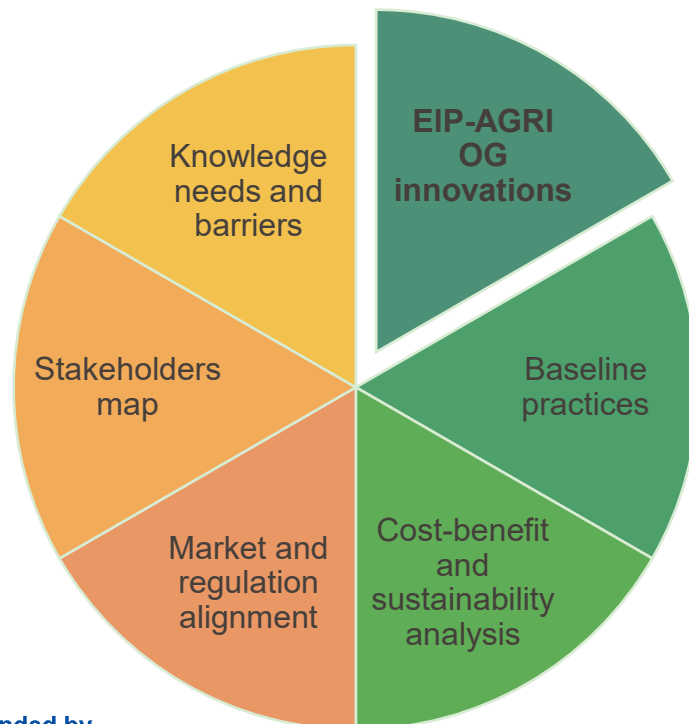
Practical Metadatabase

Excel



Executive Metadatabase

Excel



- D1.1** • 12 OG including **26** innovations along 6 value chain steps
- D1.2** • Current farming practices related to the innovations in 12 OGs.
- D1.3** • Holistic evaluation over **19** risk levels and **5** impact dimensions
- D2.1** • **49** questionnaires and **9** interviews on challenges and needs
- D2.2** • Social Network Analysis over **340** identified stakeholders
- D2.3** • **5** Fuzzy Cognitive Mapping workshops in 4 partner countries



# 1. NUTRI-KNOW metadatabases



Project ▼ Community E-Learning OGS News & Events      



- Practice-oriented material
- Policy briefs
- Media materials
- Communication materials
- Public deliverables

## Public deliverables



**Practical Metadatabase**

Excel



**Executive Metadatabase**

Excel

## EU-FarmBook

Growing, harvesting and sharing knowledge for rural futures

NUTRI-KNOW

Search

### CONTRIBUTIONS

NUTRI-KNOW: consolidating and exchanging OG knowledge about sustainable nutrient management



The European Nutri-Know project and the new PR-FESR STRUVITE project



Slurry Concentrator: reducing transport costs through smart nutrient management



[See all results](#)

## NUTRI-KNOW

Project info ▼

Contributors

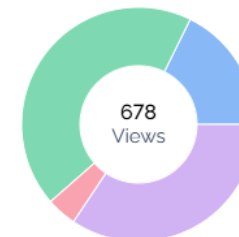
**Statistics**

### Project statistics

Show statistics for period 02/10/2023 - 04/09/2026

### Project page

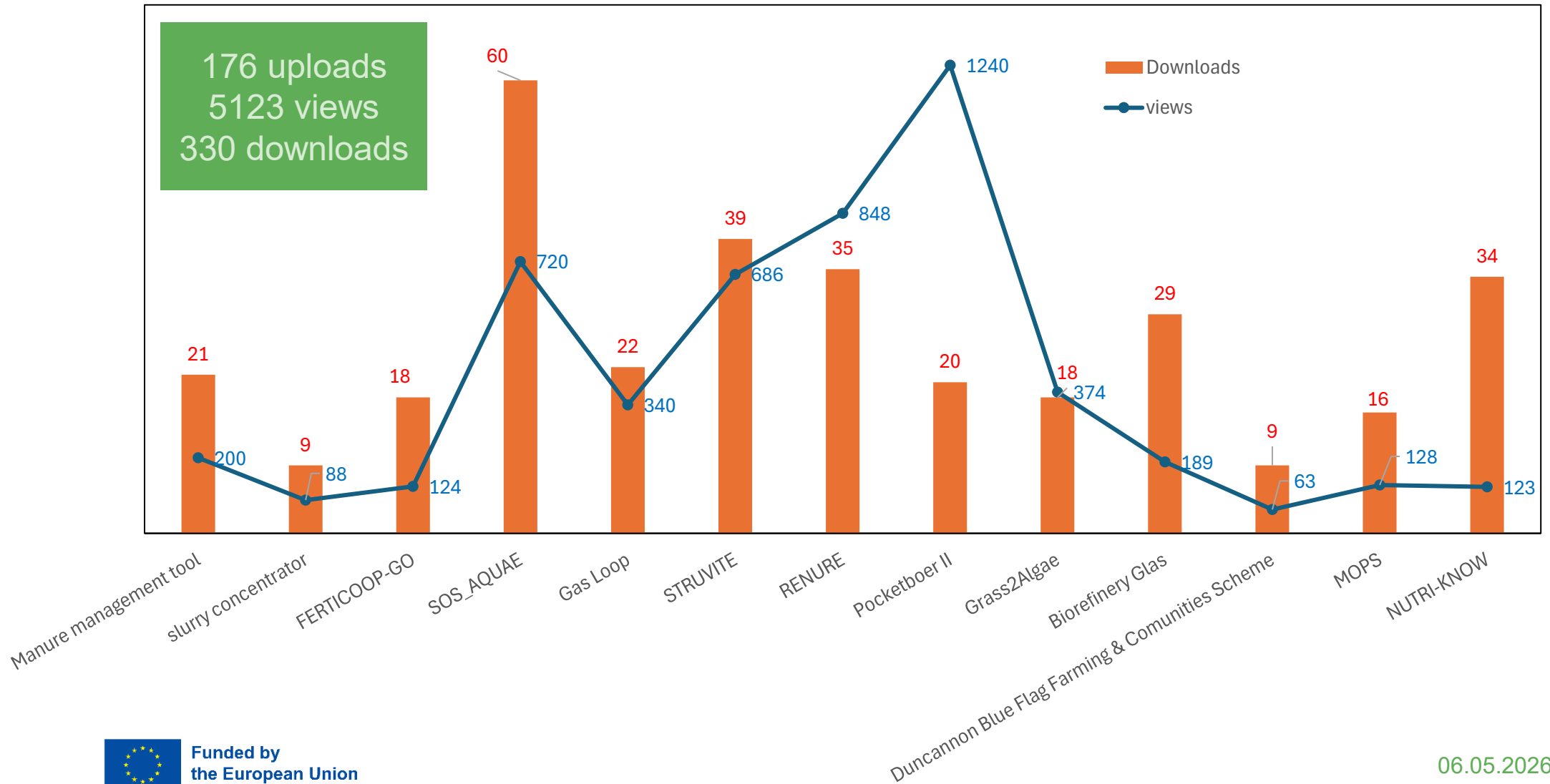
Where users are coming from to reach the project page.



Search	17%
Homepage	42%
Social share	4%
Direct visit	33%



# 1. NUTRI-KNOW metadatabases





# 1. NUTRI-KNOW practice-oriented material



Project  Community E-Learning OGs News & Events      



- ✓ Practice-oriented material
- ✓ Policy briefs
- ✓ Media materials
- ✓ Communication materials
- ✓ Public deliverables

## Practice-oriented material

### Booklets

English

Spanish

Catalan

Danish

Italian

Dutch

French

06.05.2026



# 2. Who are the Stakeholders and what do they need?

- ▾ Practice-oriented material
- ▾ Policy briefs
- ▾ Media materials
- ▾ Communication materials
- ▾ Public deliverables

## Public deliverables



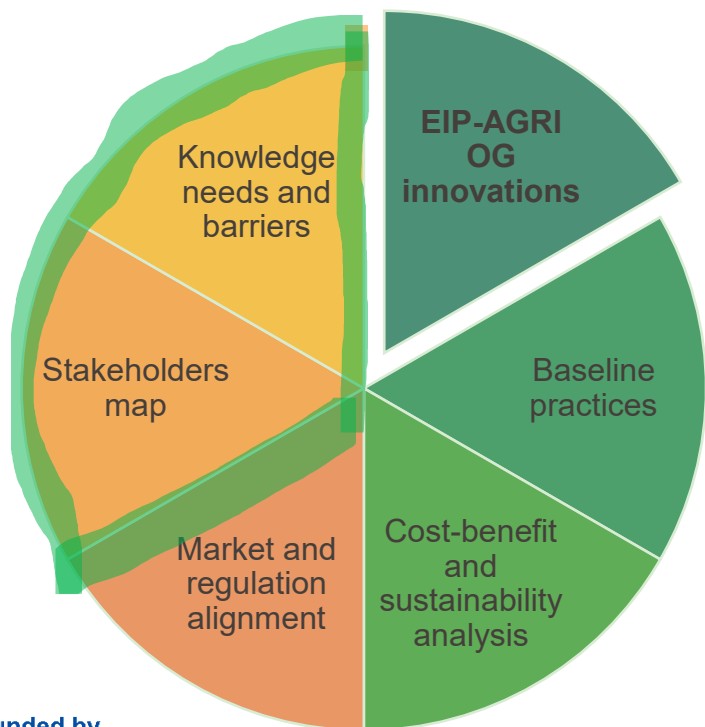
Practical Metadatabase

Excel



Executive Metadatabase

Excel



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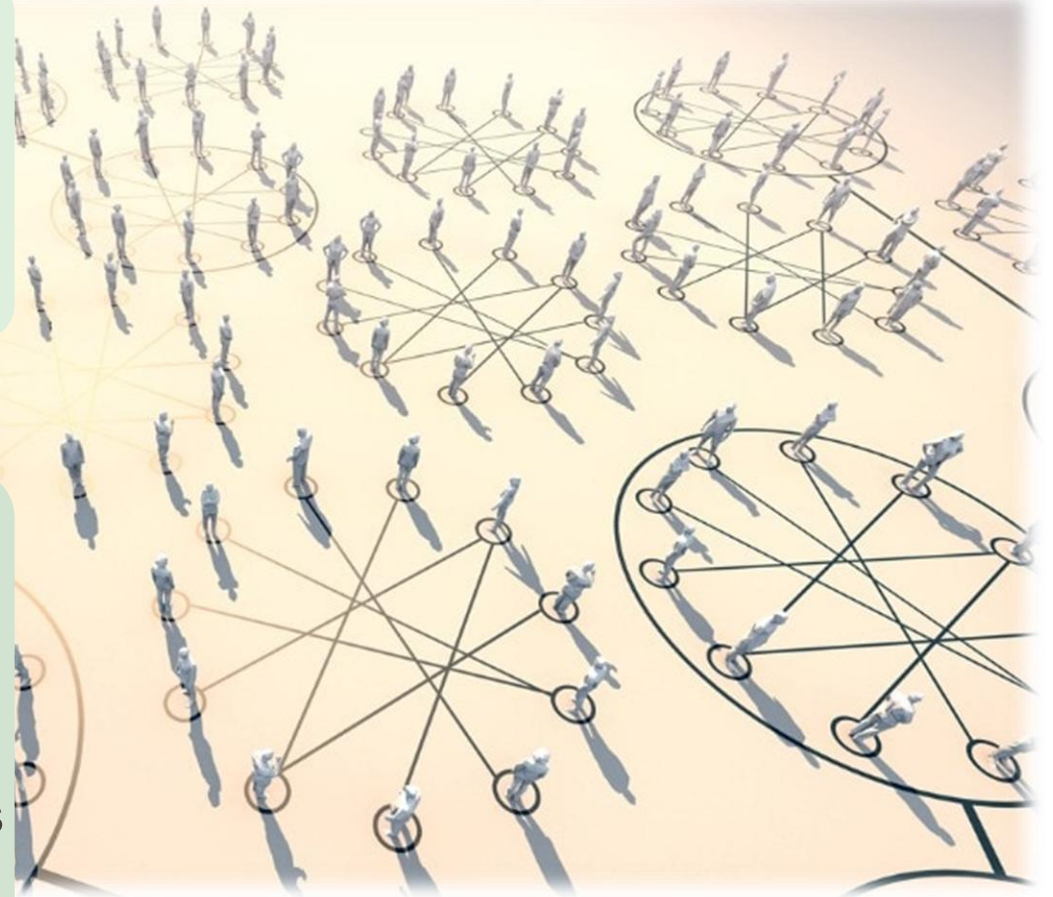
## 2. Stakeholder Analysis in Nutri-Know

To explore how the Nutri-Know engaged Operational Groups (OGs) relevant SHs are **connected** and are aligned with current EU policies and the **challenges and needs** of the farmers in the agri-food sector.

### GOAL:

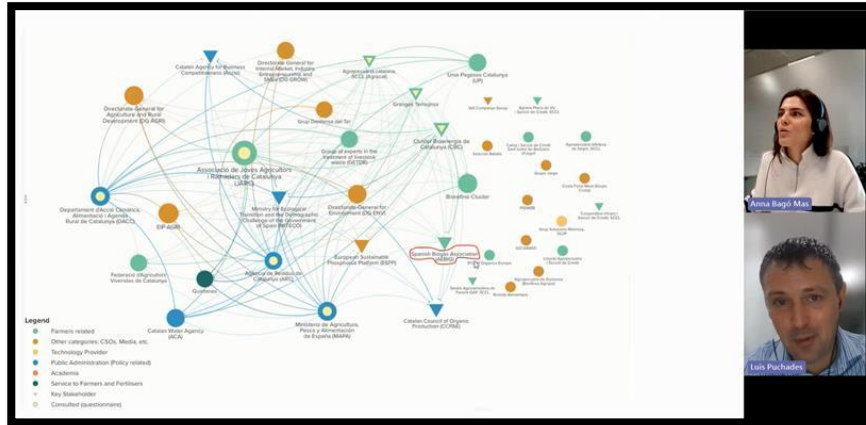


The stakeholder data generated used to take decisions for targeted communication strategies and practice-oriented material.

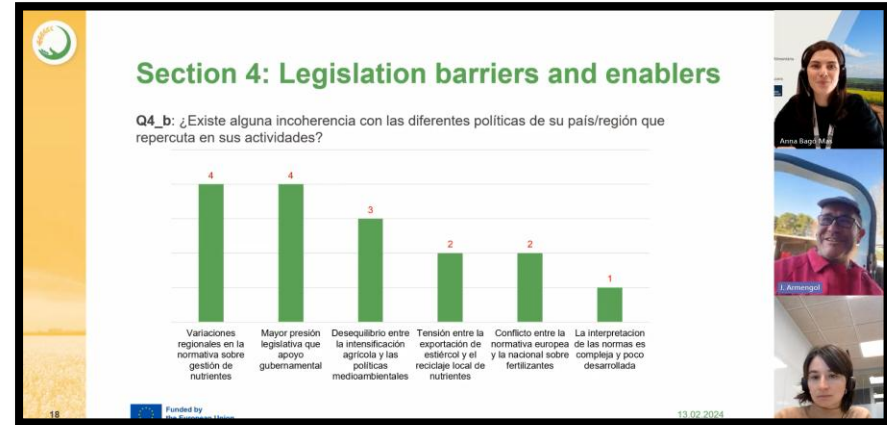




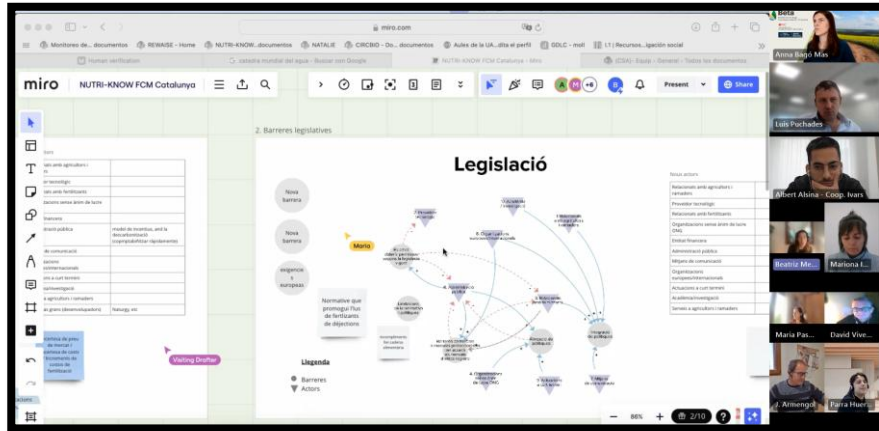
# 2. Multi-actor Analysis: Stakeholder Engagement



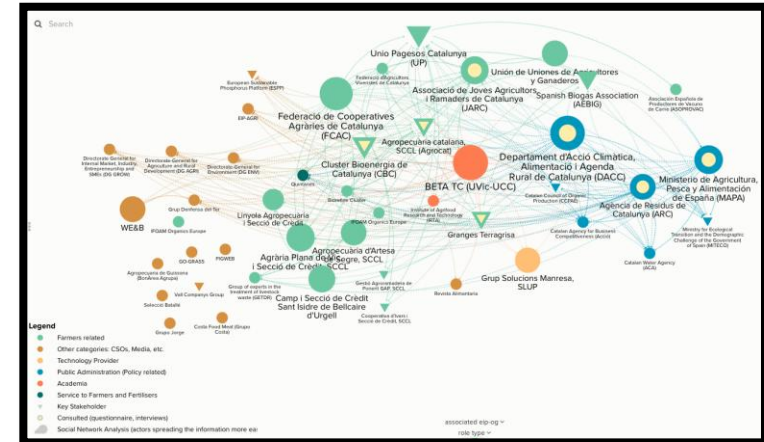
Interview with the Director of the Spanish Biogas Association



Interview with a Farmer from a Farmer Association



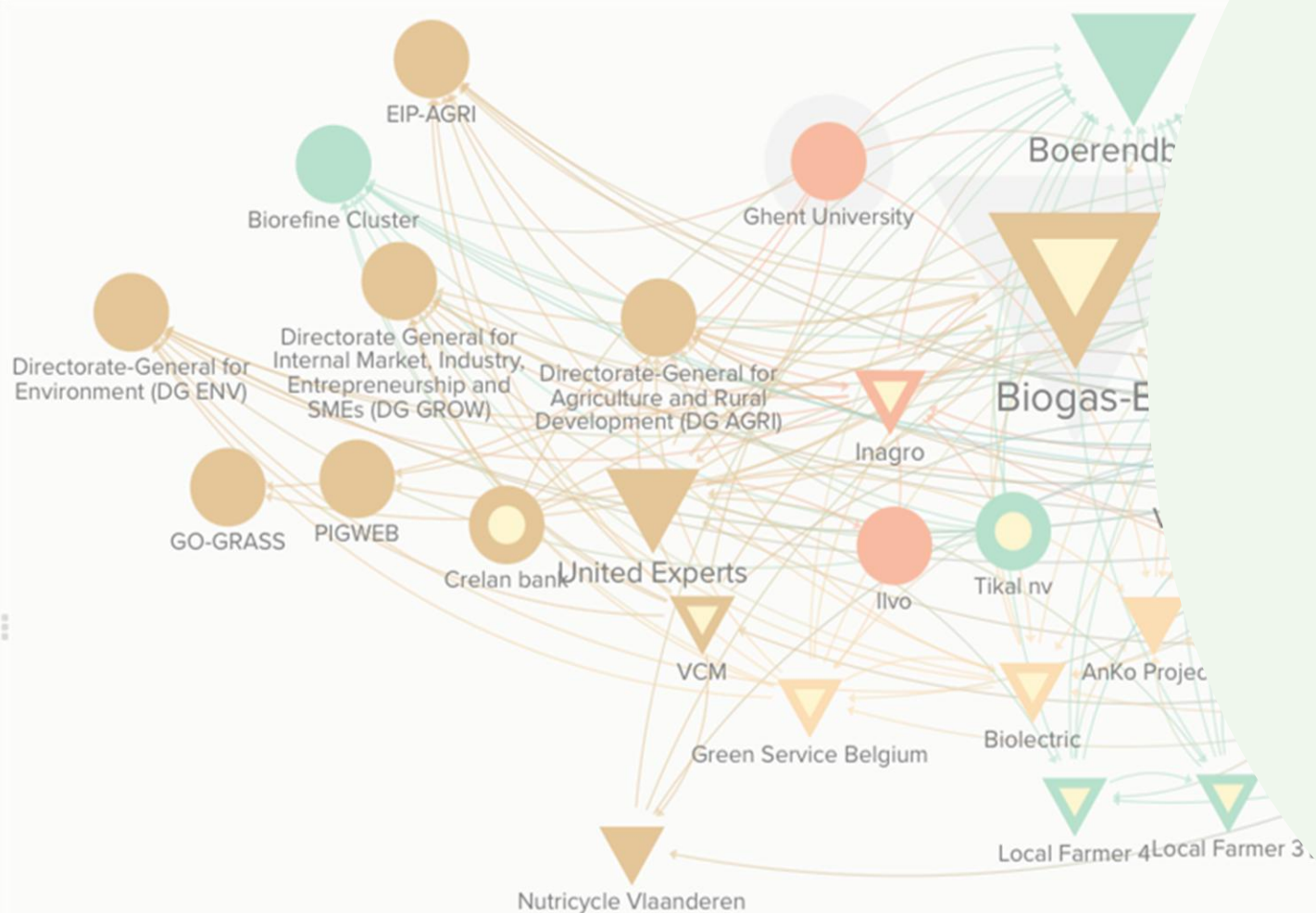
Interview/workshop with different 4-helix stakeholders: farmers, industry, public administration



Regional stakeholder map



## 2. Achievements & Results



Stakeholder Database available [online](#) – continuous updates according to project needs

Stakeholder Maps per country available online

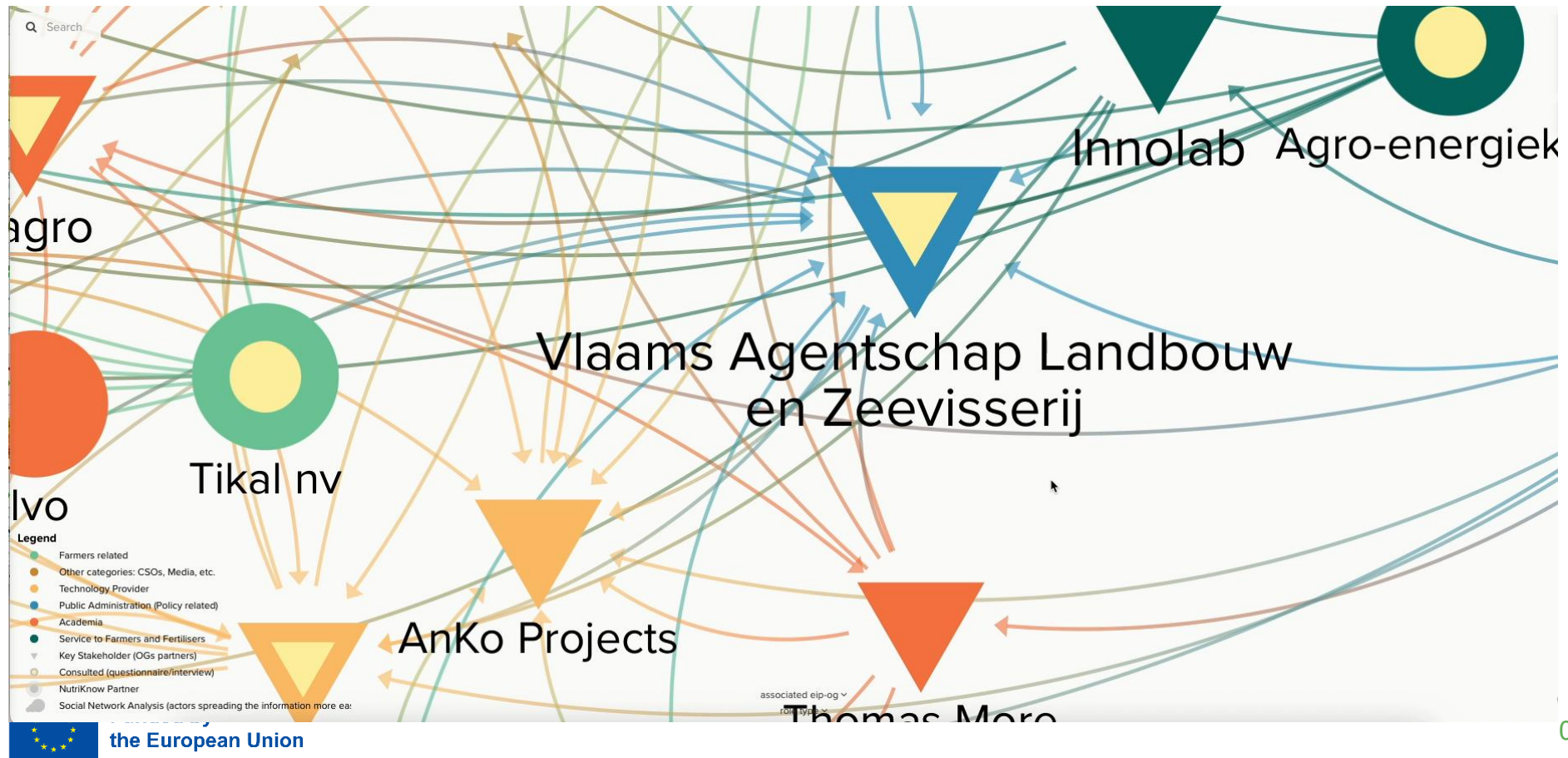
Communication preferences of stakeholders

Barriers/Opportunities maps and cross-country analysis of barriers



## 2. Dynamic Stakeholder Map

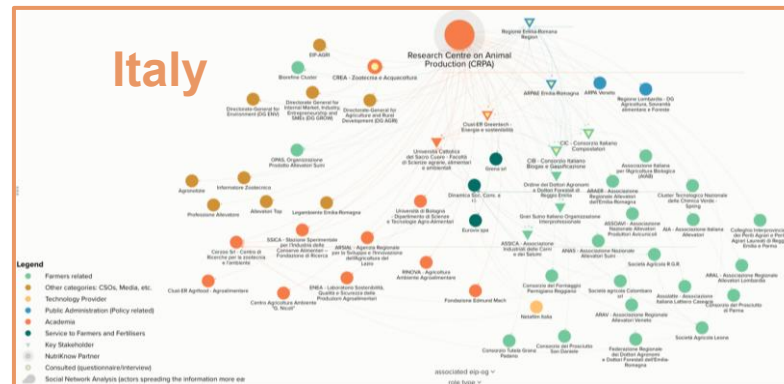
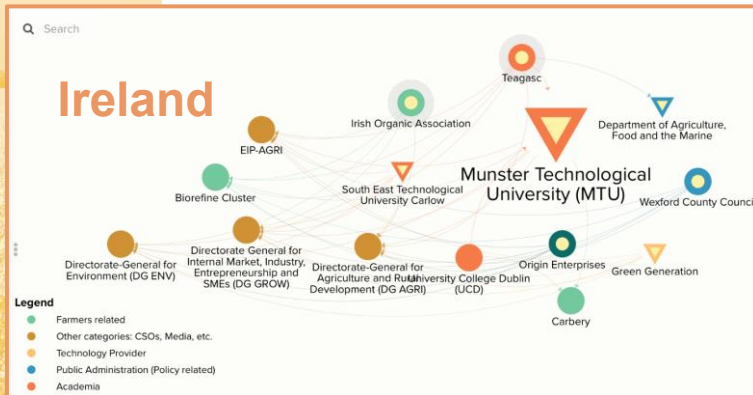
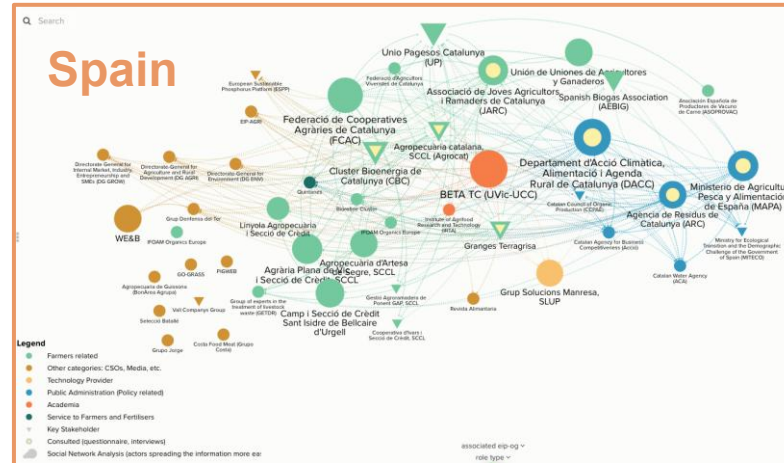
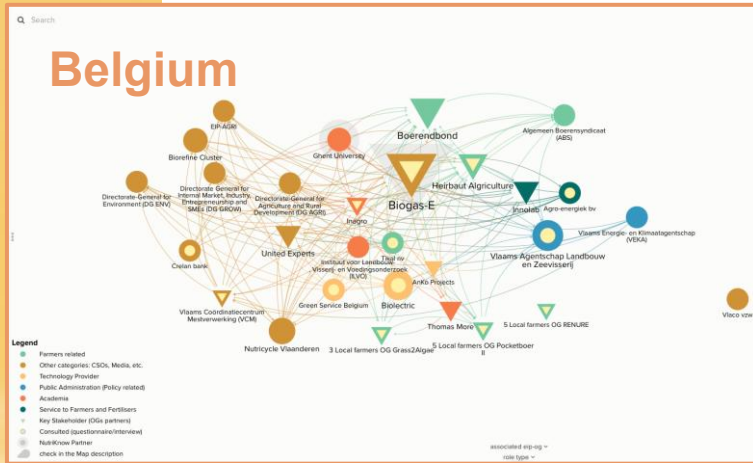
The Stakeholder Map visualises partner collaboration, mapping stakeholders by OG relations, roles, and attributes for future actions





# 2. Key Actors

SHs maps per country to visualize key connections and discuss roles



Farmers groups are relevant - that can act as a hook and multiply the communicative

Consumer associations, normally not included

Financial and policy sectors more actively involved in the co-design.



## 2. Stakeholder's Communication preferences

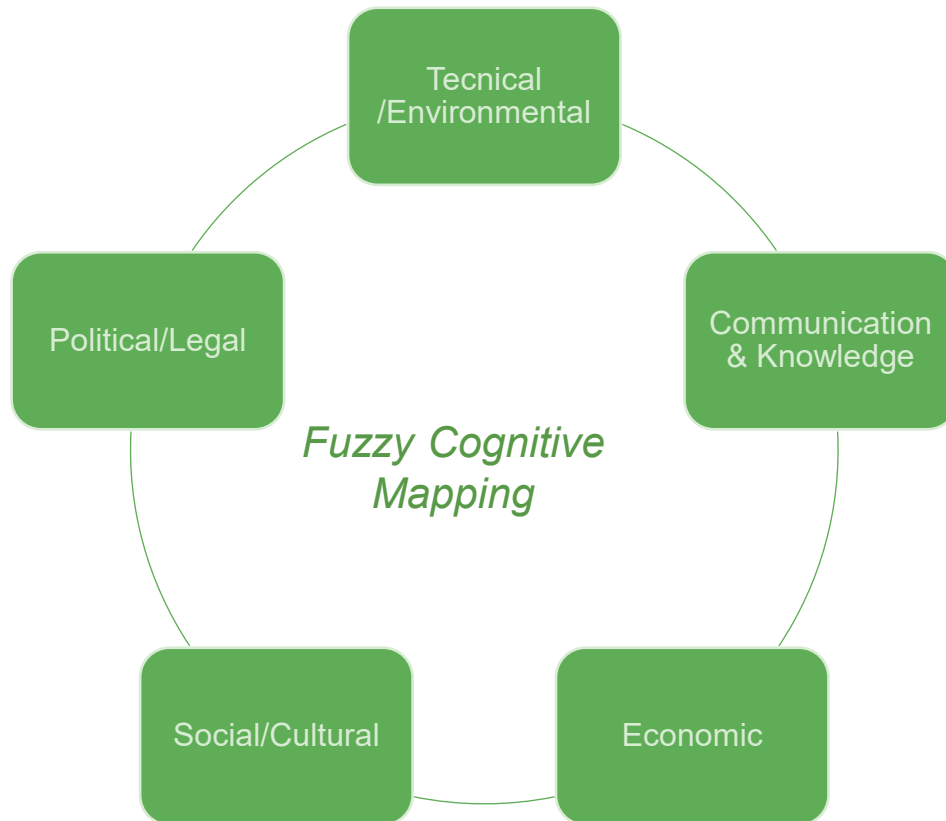


- ✓ No single communication strategy fits all stakeholders in nutrient management;
- ✓ Use a two-step approach—first capture attention via preferred channels (LinkedIn for practitioners/key actors, Knowledge Groups/conferences for farmers), then offer detailed materials
- ✓ Consider demographics like age



# 2. System Mapping: SHs Barriers and Needs

System Mapping for connecting **Target Groups** with **Needs**, **Barriers** and **Enablers** in Innovation of the nutrient management sector



Fuzzy Cognitive Map Workshops



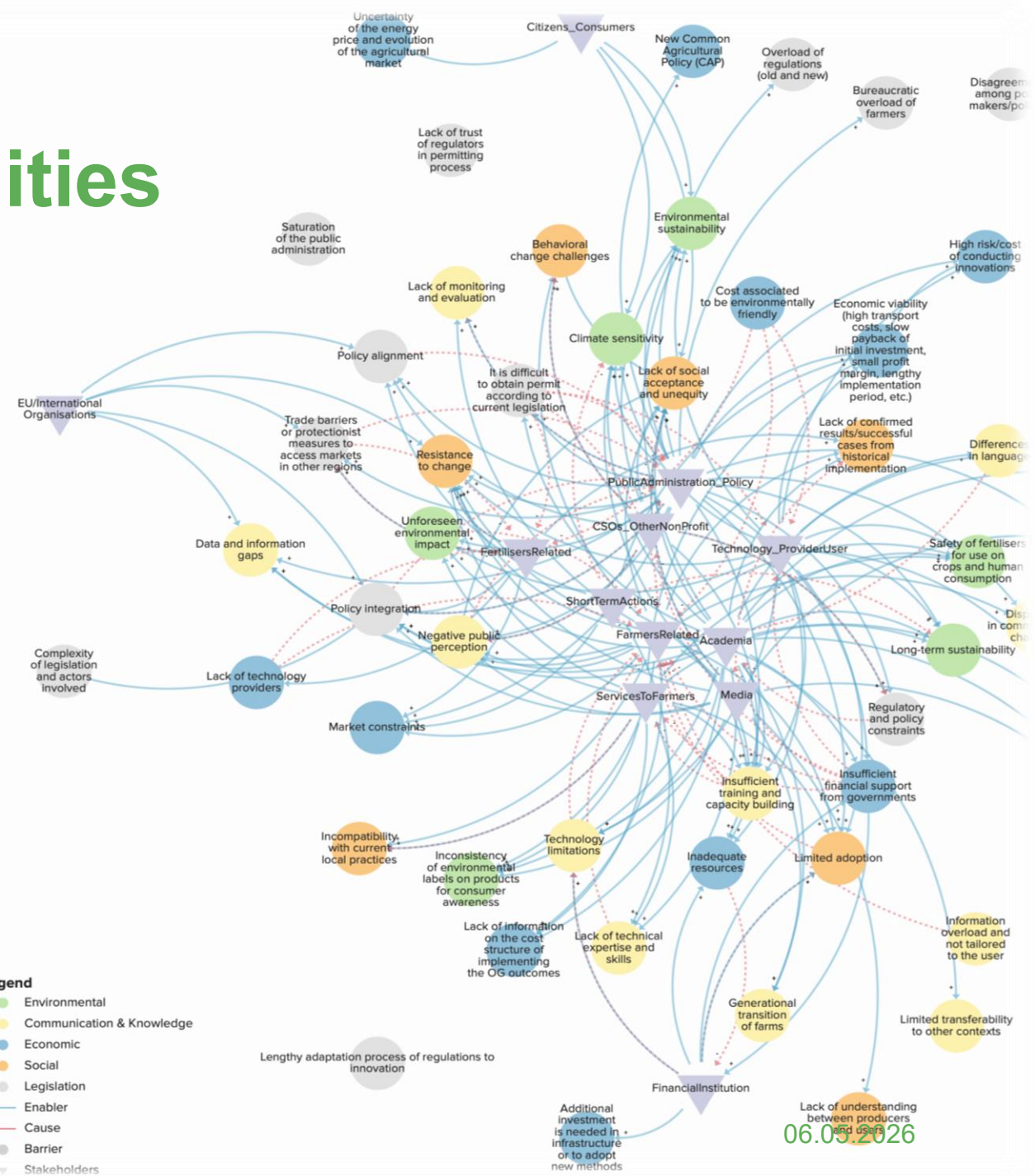
# 2. System Mapping: Barriers and Opportunities

## Main Barriers -

Communication/knowledge gaps (data overload, age/digital skills) · Economic hurdles (funding shortages, infrastructure costs) · Legislative overload · Social resistance to change.

## Target Group Roles –

Farmers drive adoption (need simpler bureaucracy/resources) · Tech Providers/Academia enable innovation/training · Public Admin/Financial Institutions address policy/funding · Media/CSOs boost acceptance via quadruple helix collaboration





# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Factsheets

**Struvite**  
Livestock manure and digestates treatment to reduce emissions and produce Struvite

**Activities**

- Laboratory analysis and testing for optimal struvite management
- Development and implementation of the prototype treatment system (Struvite)
- Monitoring of the efficiency of the process by reducing the nitrogen and phosphorus content in digestate/slurry
- Monitoring of emissions (ammonia, CO2 and CO2e) from storage and spreading
- Evaluation of the economic and environmental sustainability of the treatment
- Dissemination of the results achieved and learning courses

**Further details**

- Total budget € 185,222
- Total funding € 171,775
- Main funding source: Rural Development 2014-2020 for Operational Groups
- Rural Development Programme (Regional) (under Interreg 2014-2020)041004000003 - Italy
- Email: 09/10/2023 - 01/02/2025
- Italy, Emilia-Romagna Region
- Centro Ricerche Produzioni Animali project coordinator - Research Institute - Regione Emilia (Italy) info@crpa.it

**Objectives**

The goal of the Struvite Operational Group (OG) was to decrease the nitrogen (N) and phosphorus (P) content in livestock effluent and digestates in order to reduce atmospheric emissions of ammonia, methane and nitrous oxide from both the storage and spreading phases connected to untreated manure or digestate. The nitrogen and phosphorus treatment process is a renewable, slow-release fertilizer (Struvite) that can replace chemical fertiliser in nutrient deficient crops.

To achieve this goal the OG designed and implemented a prototype farm-scale system capable of producing and extracting Struvite.

**Results**

The recovery of phosphorus and nitrogen from agricultural digestate and manure produced technically feasible; the prototype extracting struvite must be further refined/optimized, in order to efficiently reduce phosphorus emissions and ammonia recovered from the digestate in accordance with the new European fertilizer regulation.

In terms with specification, distribution and identification, the nitrogen and phosphorus for this reason the prototype treatment of digestate was effective in reducing emissions of ammonia and greenhouse gases from the management of digestate. The reduced nitrogen content has allowed ammonia emissions to be reduced by 42% from storage and 18% from spreading, while the limited organic matter content has led to a reduction of methane emissions from the storage phase by 80%.

The high concentration of solids and organic matter in the digestate is still a critical issue; the prototype treatment system used and must be made more efficient.

**Context**

Animal manure is an excellent fertilizer matrix for crops and soils as it is rich in both macro and micro nutrients and organic matter, which are useful for the productivity of agricultural soils. The downside is the ammonia and greenhouse gases emission from slurry during storage and spreading.

The objectives of the Struvite project are covered on the following for the results:

In fact, the Italian agricultural sector generates about 76% of national GHG emissions, and of this share 58% comes from manure management. As for ammonia emissions, the agricultural sector accounts for 54% of national ammonia with 42.2% of that share coming from manure management (SARA, reports 2002/2020 and 2021/2023).

In Italy there are areas with a high presence of livestock farms where optimal management of animal effluents and digestates could result in reduced emissions, but only if a manure treatment also aimed at recovering the nutrients contained could promote the reduction of nitrogen and phosphorus surplus from high livestock areas to reduce nitrous oxide by a critical fertilizer demand, in conjunction with the principles of nutrient management and those of the farm-to-fork targets. The farm to fork strategy promotes a sustainable food system, the heart of the European Green Deal, one of the main goals of which is to reduce industrial fertilizer use by 20% and nutrient loss by 50% by 2035.

## Leaflets

**Gas Loop**  
Emissions capture for a virtuous nitrogen cycle in pig livestock

**GOI Gas Loop**

Gas Loop has developed and monitored an air washing system that removes ammonia from the air of pig housing and recovers it in an ammonium sulphate solution. This increases animal welfare and productivity due to better air quality inside the pig house.

**Biorefinery Glás**  
Small-Scale Farmer-led Green Biorefineries

Biorefinery Glás focuses on the demonstration of a small-scale gas biorefinery with farmers in South West Ireland to diversify farmer produce while resolving significant challenges in traditional agriculture.

**Pocketboer II**  
More performant operation of pocket digesters

Pocketboer 2 aimed to find solutions for persistent problems with pocket digesters. It encouraged the implementation of those solutions at farms existing and future plants to improve.

**Slurry Concentrator**  
to enhance the efficiency of soil nutrient application

**Challenge**

Manure management is a significant challenge for farmers, particularly those operating small to medium sized farms. Solutions are needed to improve their use of fertilizer and potentially to be transported and applied to distant fields where nutrients are not available and a liquid phase with a nutrient concentration to be applied in a nearby field.

**Results**

**Increased Efficiency:** The innovative system yields two liquid fractions: a semi-digested phase (concentrating the organic matter and nutrients) to be transported and applied to distant fields where nutrients are not available and a liquid phase with a nutrient concentration to be applied in a nearby field.

**Cost Savings:** Using the same equipment for both fractions reduces both investment and operating costs, while also decreasing the time required for management.

**Enhanced Monitoring and Precision:** The system enables exact monitoring of applied nutrients to the soil, an online device can track the nutrient content of the liquid fraction. This facilitates precision fertilization, minimises nutrient losses and reduces emissions, thereby optimising soil health and productivity.

The equipment used to manage the two fractions is the same tractor with a pump and a heavy trailer which reduces transport costs, but also operating costs.

## Short-videos

NUTRI-KNOW gathers EXISTING KNOWLEDGE on nutrient management

NUTRI-KNOW facilitates KNOWLEDGE EXCHANGE with farmers

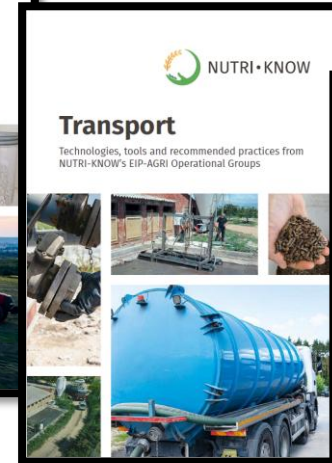
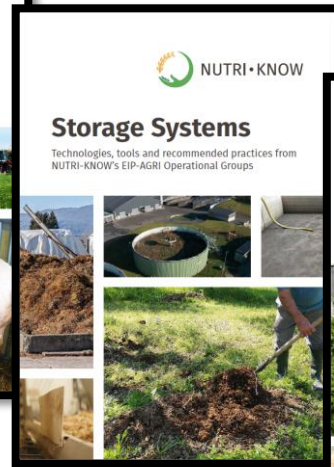
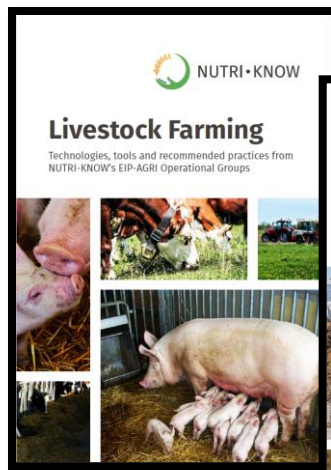
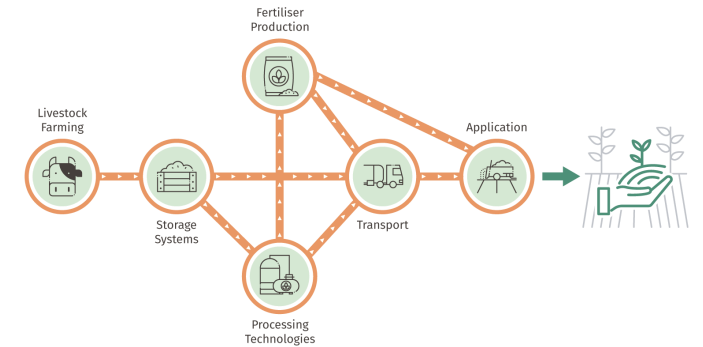




# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Booklets

1 per each step of the nutrient management value chain (available in 7 languages)





# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material



## Nutrient Management in Organic Farming

### 20+ page Information Booklet for Farmers & Advisors

- ❖ Clear information on nutrient cycling and nutrient budgeting in organic systems
- ❖ Practical approaches to assessing soil health, structure, and biological activity
- ❖ Overview of managing manures, composting, and approved organic inputs
- ❖ Strategies for fertility-building crop rotations and legume integration
- ❖ Insights on cover crops and green manures to support long-term soil health



Scan Me



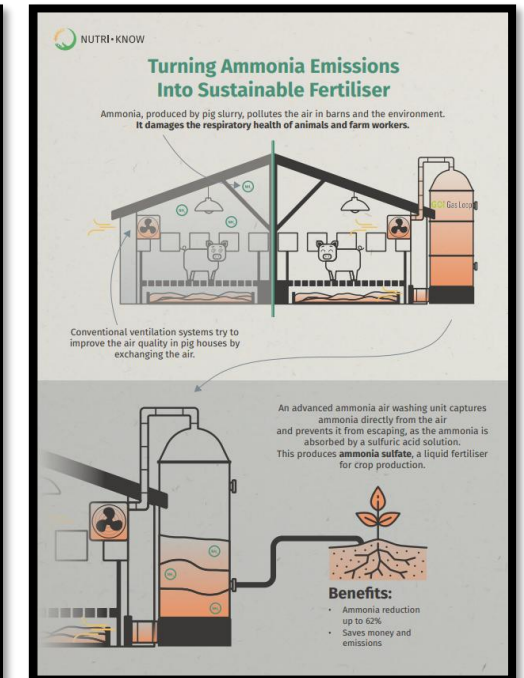
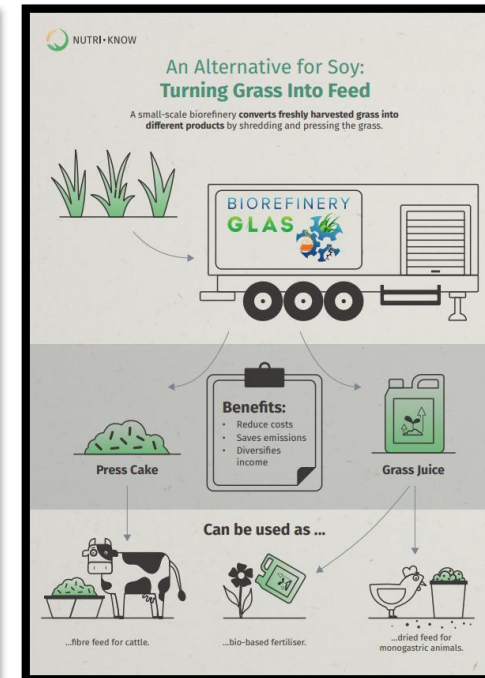
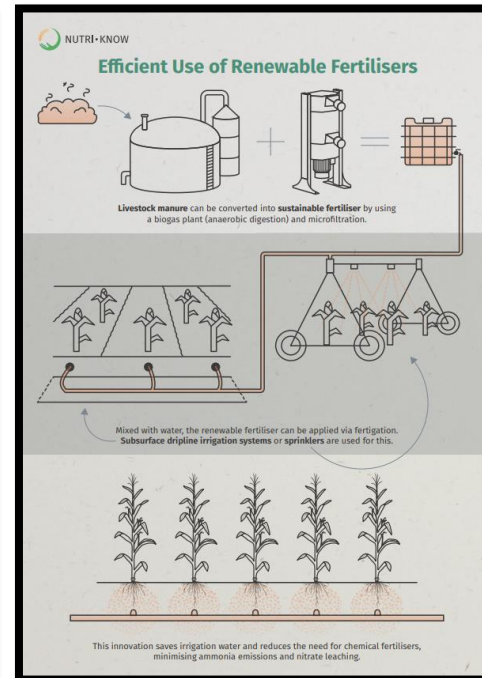
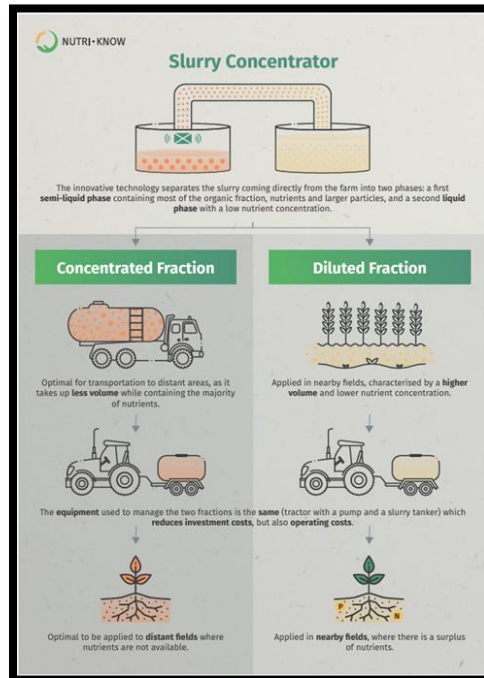
Funded by  
the European Union

29/04/2025



# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Infographics





# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Short animated videos



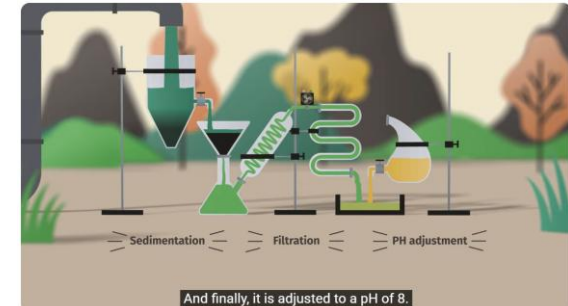
How to Transform Manure Into Energy & Fertiliser



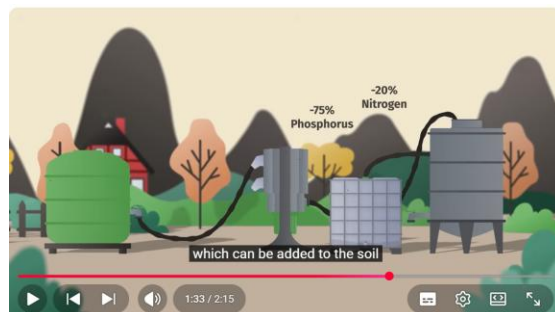
Turning Ammonia Emissions Into Sustainable Fertiliser



A Grass-Based Alternative to Soy



How Grass Waste Becomes the Ultimate Algae Nutrient Source



Smart Nutrient Recycling With a Slow-Release Fertiliser



Separating Slurry Differently: How This System Creates Two Improved Fertiliser Products



Too Much Manure? Try Smart Nutrient Management With the Stripping-Scrubbing Process



Cleaner Water Through Better Farming - The Duncannon Approach



# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Massive Open Online Course



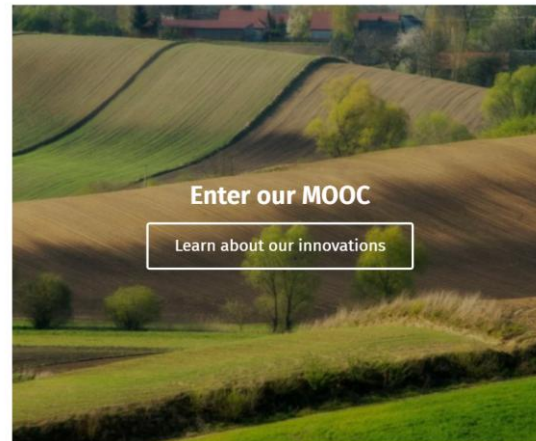
Project ▾ Community E-Learning OGS News & Events [Twitter](#) [LinkedIn](#) [Instagram](#) [Facebook](#) [YouTube](#) [WhatsApp](#)



E-Learning

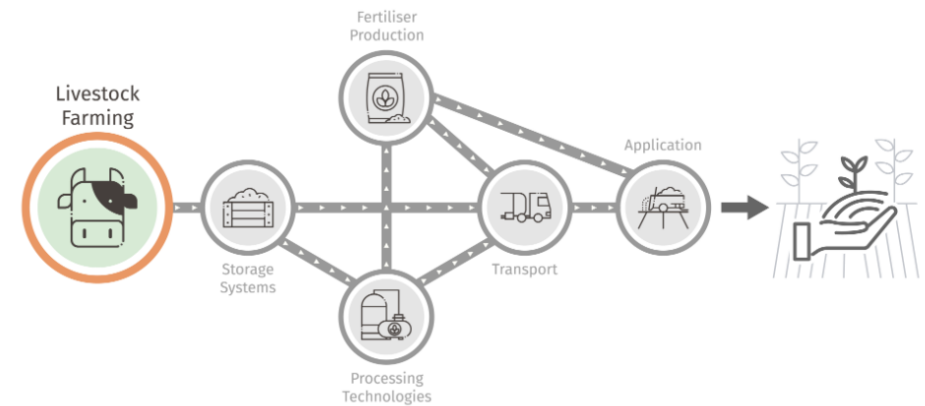
### What is our MOOC?

In the NUTRI-KNOW massive open online course (MOOC), you can learn about sustainable nutrient management. You can browse six modules based on our nutrient management value chain. You can complete a quiz for each module – the questions are based on the subtopics of each module. Happy learning!



Enter our MOOC

Learn about our innovations



## LIVESTOCK FARMING

Complete the questions to gain a certificate for this module.

Start



# 3. Consolidation and Translation: Easy-to-Understand and Ready-to-Practice Material

## Practice Abstracts following EIP AGRI format

The screenshot shows the EIP-AGRI website interface. At the top, there is a search bar and a language selector set to 'English'. Below the navigation menu, the breadcrumb trail reads: Home > About EIP-AGRI projects > NUTRI-KNOW: Exchanging easy-to-understand nutrient management knowledge with farmers. The main content area features a large banner for the 'NUTRI-KNOW' project, described as 'PROJECT - RESEARCH AND INNOVATION'. The banner includes the title 'NUTRI-KNOW: Exchanging easy-to-understand nutrient management knowledge with farmers', a tagline 'Innovation, knowledge exchange & EIP-AGRI', and a completion status 'COMPLETED | 2023 - 2025'. It also lists participating countries: 'Spain, Belgium, Italy, Ireland, Denmark, Germany'. Below the banner are buttons for 'Discover website' and 'Contacts'. A secondary navigation bar includes 'Overview', 'Practice Abstracts', and 'Contacts'. Under the 'Practice Abstracts' section, there is a list of abstracts, with the first one titled 'Adaptation of the treatment to the nitrogen surplus to be managed and agronomic valorisation of the resulting liquid effluents' marked with a green checkmark.

## Materials available to EU open repositories such as EU-Farmbook

The screenshot displays the EU-FarmBook website. The top navigation bar includes 'EU-FarmBook', 'About', 'Support', and 'Topics'. A search bar at the top right contains the text 'NUTRI-KNOW'. On the left side, there is a 'Filters' panel with categories like 'RESOURCE TYPE', 'TOPIC', 'SUBTOPIC', 'CONTRIBUTION LANGUAGE', 'LOCATION', and 'PROJECT'. The main content area shows search results for 'NUTRI-KNOW'. The first result is 'OG RENURE: Agronomic performance of manure-derived ammonium salts as RENURE fertilisers', dated 18/03/2024. The second result is 'OG\_Pocketboer II: Tips & tricks van en voor pocketboeren', dated 19/03/2024. The third result is 'OG\_Pocketboer II: Nieuwsartikels', dated 25/03/2024. Each result includes a brief description and relevant tags.



# 4. Deployment & Transfer: Activities & Trainings

## Trainings targeting practitioners

In-person + Online

>1,400 people trained



Recording

You are viewing Patrick Forrester's screen

View Options

### Also significant losses of ammonia-N during animal housing and storage

NUTRI-KNOW

Funded by the European Union

Patrick Forrester

Audio Settings

Chat Raise Hand Q&A Show Captions

Leave

> 24 in-person trainings to facilitate knowledge acquisition of innovative practices and tools

4 Study visits to see in the field the different OGs solutions

5 Train-the-Trainers course to train professors and teachers of farming and agricultural schools

7 webinars based on the steps of the nutrient management value chain and the solutions brought by the OGs



# 4. Deployment & Transfer: Activities & Trainings

## International Positioning



EU CAP Network cross-visit 'Use of agricultural and forestry residues for creating alternative resources of income for farmers and foresters'



Standing Committee on Agricultural Research (SCAR) AKIS Strategic working group Meeting



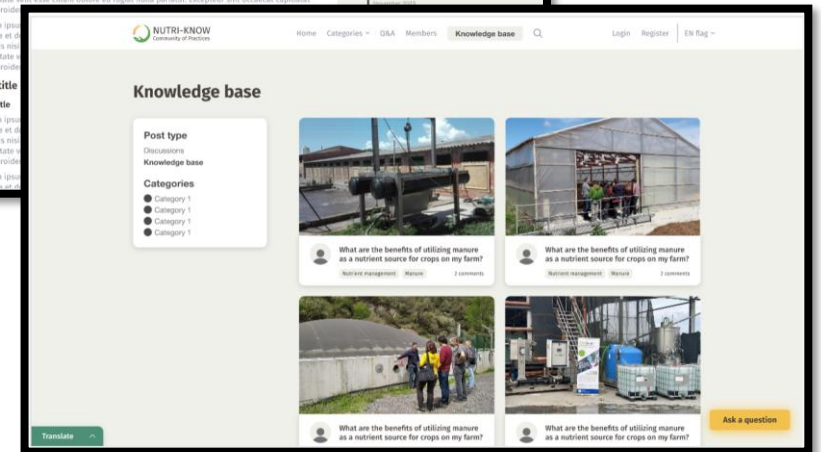
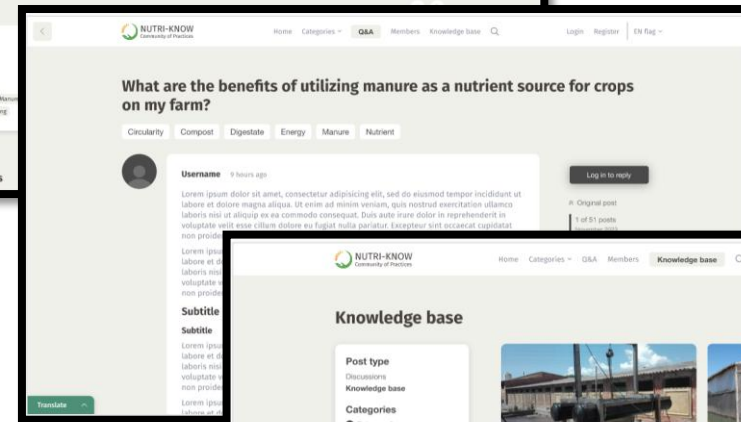
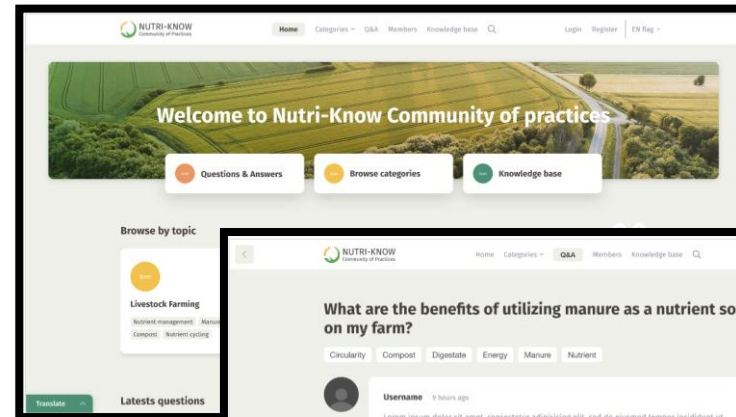
EU CAP Network Seminar 'On-farm demonstrations for peer-to-peer learning & innovation' Panel discussion



ESNI Conferences



# 5. Interconnection: Community of Practice

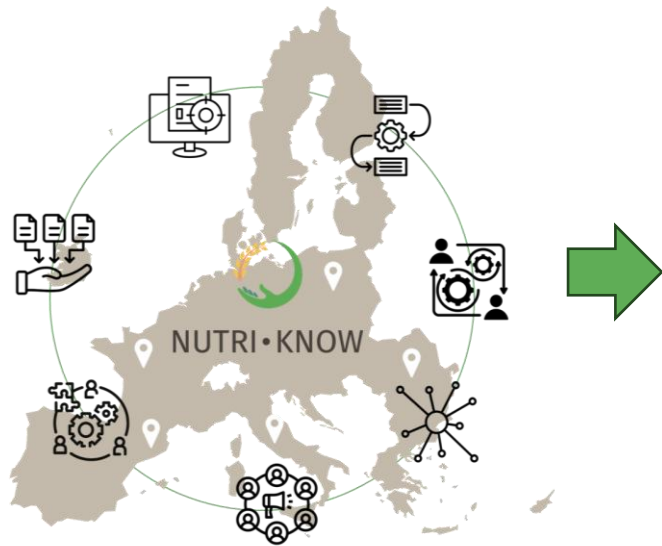


<https://cop.nutri-know.eu/>

> 100 members



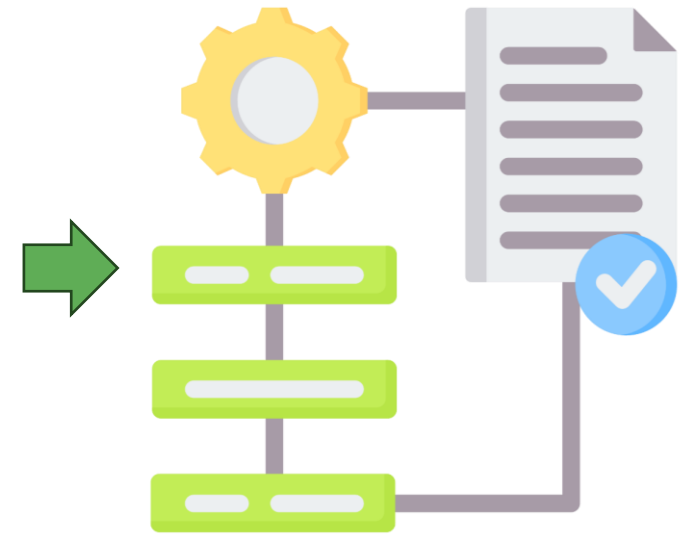
# Results Amplification Methodology



**NUTRI-KNOW** as a pilot test to validate the “knowledge capitalisation methodology”



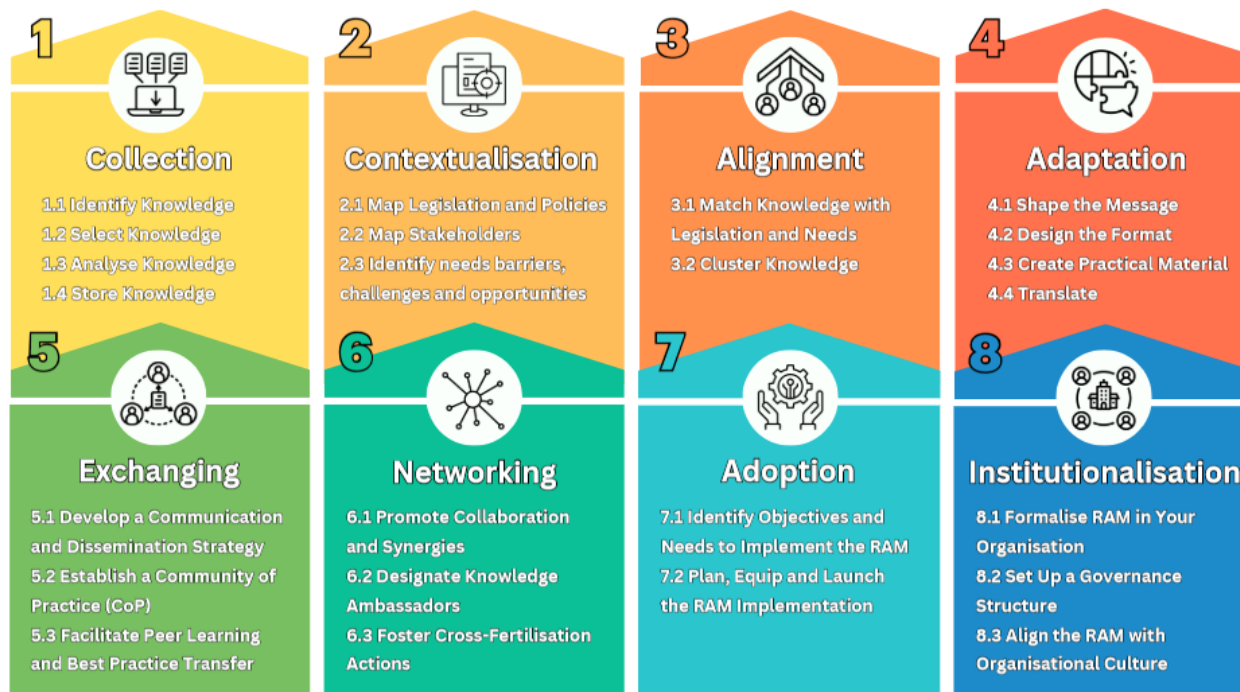
**Co-creation process + validation loops** with different stakeholders



**RAM** with clear modules and steps



# Results Amplification Methodology





# RAM in action

- Applied in **real AKIS contexts**
- 2 Practical cases (testimonials):



**Esther Artigas**  
Department of Agriculture, Livestock,  
Fisheries and Food (Catalonia)  
**Policy-maker**

*“RAM helps us give clear guidance so beneficiaries can understand capitalisation and focus their demos on results and impact”*



**Sergi Muñoz**  
BETA Technological Center  
**Researcher**

*“Using RAM in our demonstration activity made knowledge more actionable and relevant for end-users.”*

- Supporting **decision-making, knowledge adaptation and uptake**



# Adoption and adaptation of the RAM: Public administration in Catalonia

- As the Department of Agriculture, Livestock, Fisheries and Food, we manage a funding scheme for demonstration activities
- Within this scheme, one category focuses on **capitalisation projects**, where we identified the need to **clarify the concept** and define a **structured approach**
- To address this, we used **RAM as a guiding tool**



**Generalitat  
de Catalunya**

- Applied by public administration



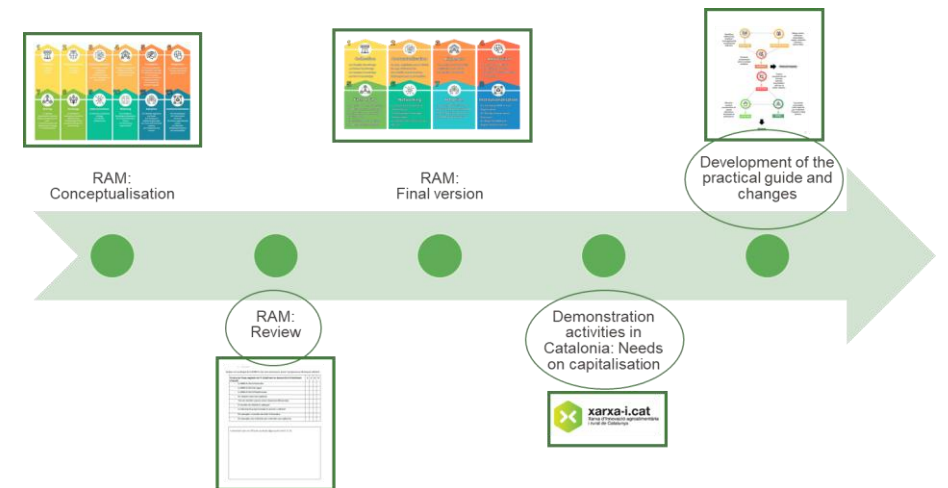
- Targeted at research centres or other actors





# Adoption and adaptation of the RAM: Public administration in Catalonia

- Active participation in the development of RAM
- Creation of a **practical capitalisation guide** and a shorter version (**leaflet**)
- **Objective:** to understand the concept of capitalisation and enhance the quality of our projects (e.g., demo activities).

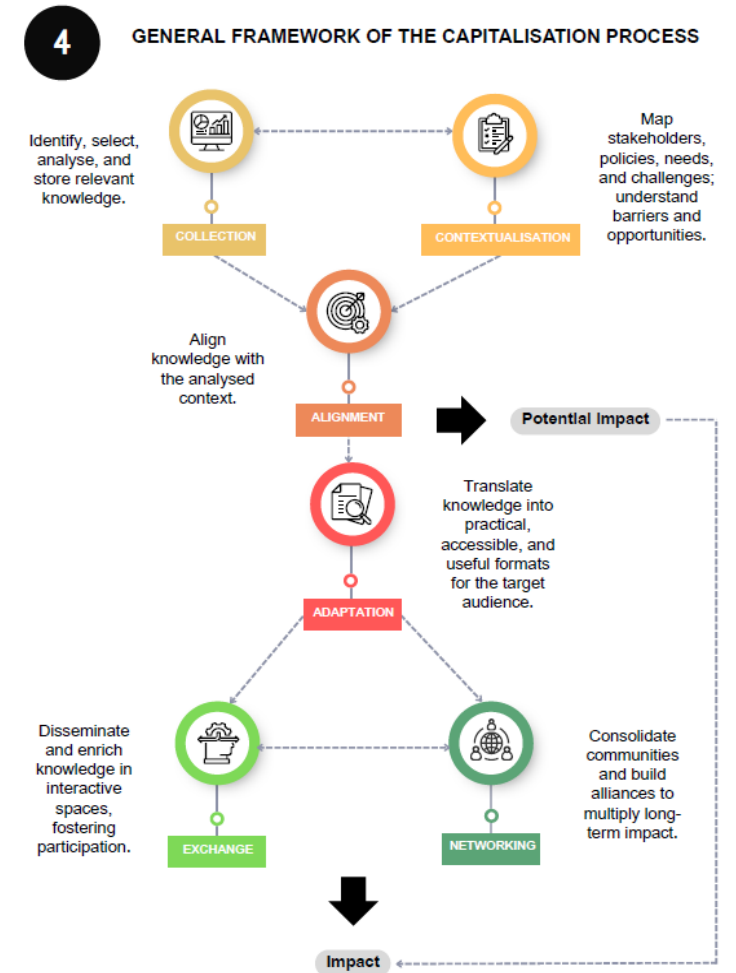




# Adoption and adaptation of the RAM: Public administration in Catalonia

## Contents

- Basic outline of the capitalisation process
- Key elements for understanding the guide and the process
- Recommendations in each module
- Document structure: Intro + 6 modules + post-project recommendations
- **Leaflets** with the information





# Adoption of the RAM in Practice: a Demonstrative Case Study

## Demonstrative Activity

- Focus on collecting, structuring, and transferring existing RDI results in the agriculture and agro-industrial sector to enhance technology uptake and sectoral competitiveness



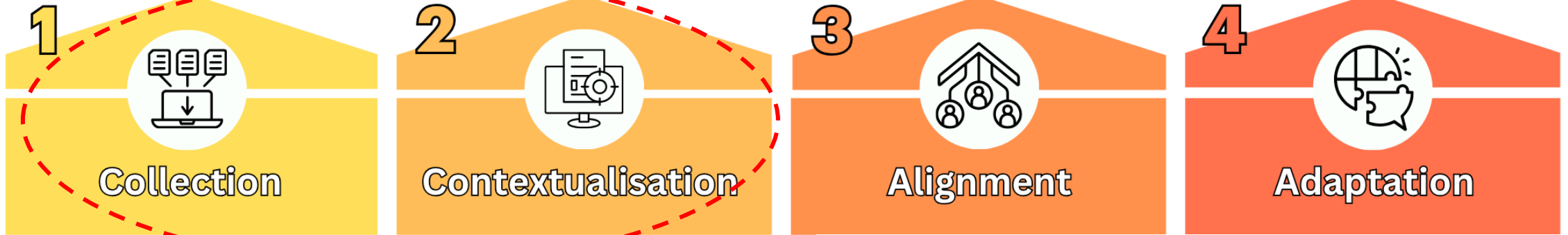
ReH2OCAP

## ReH2OCAP focus:

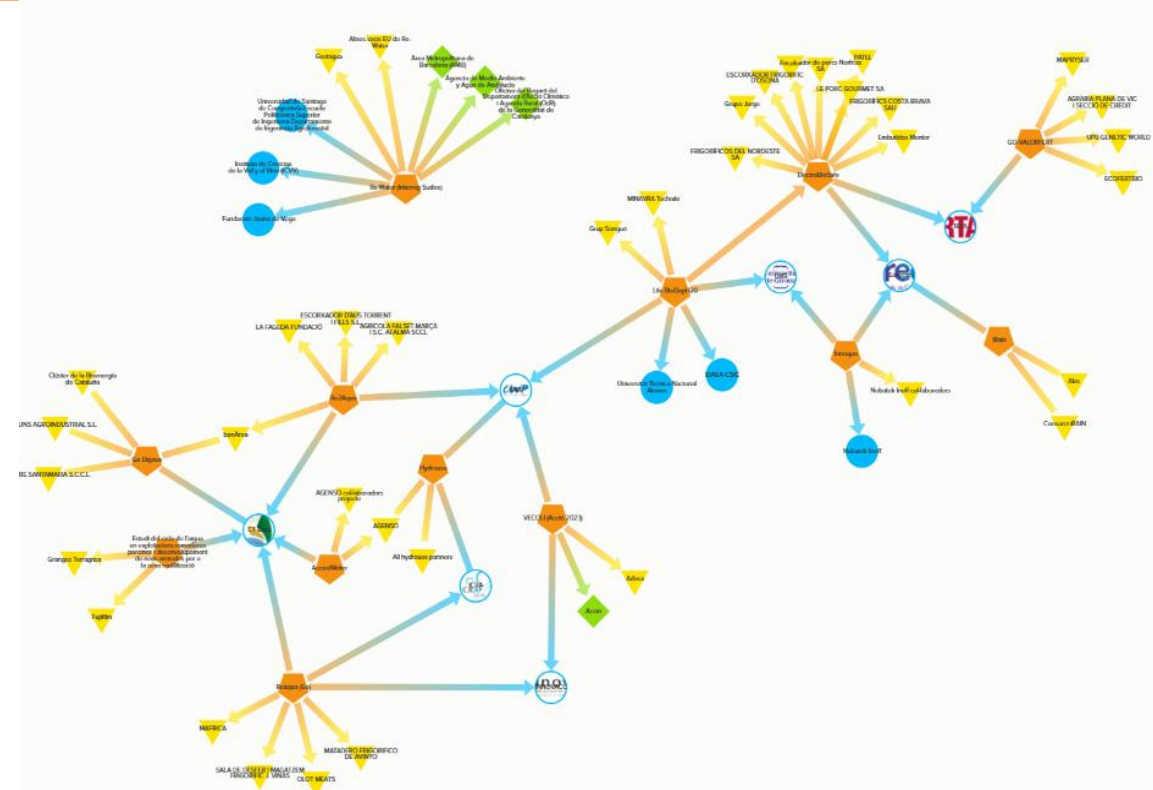
- Promotion of **water reuse** in agro-industrial processes to strengthen drought resilience, providing producers, industry, and policymakers with practical knowledge and decision-support tools to enable effective implementation.



# Adoption of the RAM in Practice: A Demonstrative Case Study

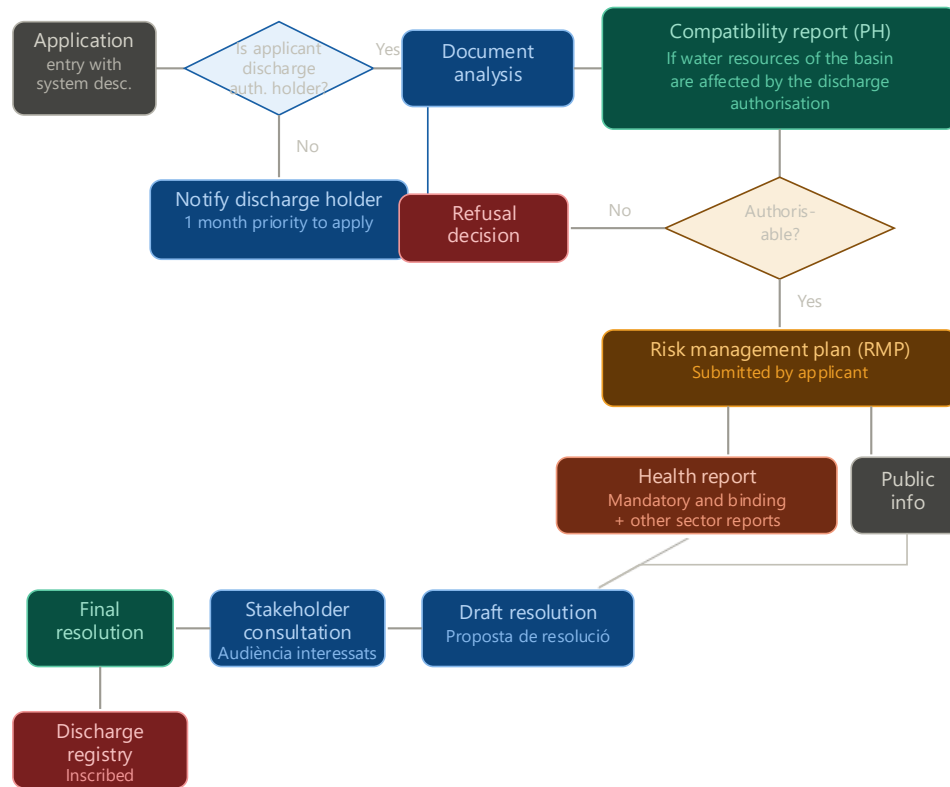
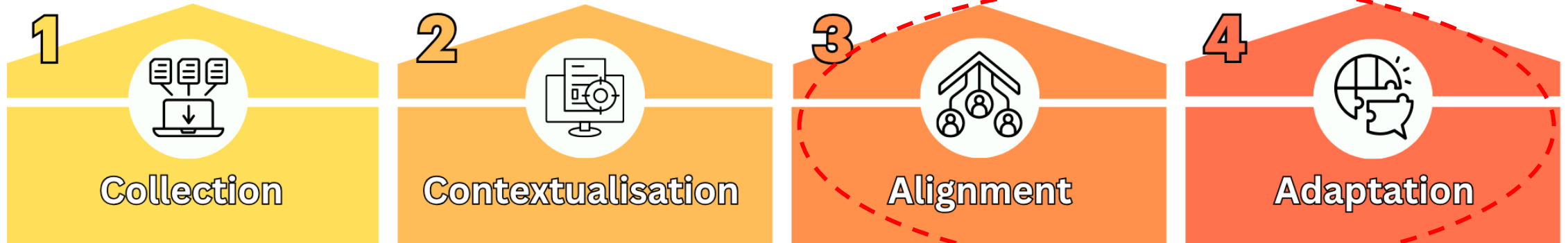


- **Mapped** 12 RDI projects and Operational Groups on water reuse in agro-industrial processes
- **Interviewed** policymakers, research centres, technology providers and end users
- **Key barriers:** ambiguous regulation and reduced drought urgency translated into limited end-user engagement





# Adoption of the RAM in Practice: A Demonstrative Case Study



- Anchored activities within **EU Regulation 2020/741** and its national transposition **RD 1085/2024**
- Engaged companies to **map adoption drivers & Shifted the narrative, from regulation to resilience and competitiveness**
- Knowledge translated into action:
  - Step-by-step permitting factsheets
  - Visual guides
  - Digital media



# Adoption of the RAM in Practice: A Demonstrative Case Study



- Workshops brought together **research, industry** and **public administration** in a genuine two-way exchange
- Key gap identified: Companies were interested in adopting water reuse technologies but lacked clarity on how to navigate permitting procedures under national regulation (RD 1085/2024).
  - Immediate response: online session co-organized with public administrations to offer a step-by-step permitting guidance tailored to the agro-food sector

5



Exchanging

6



Networking

7



Adoption

8



Institutionalisation



# Adoption of the RAM in Practice: A Demonstrative Case Study



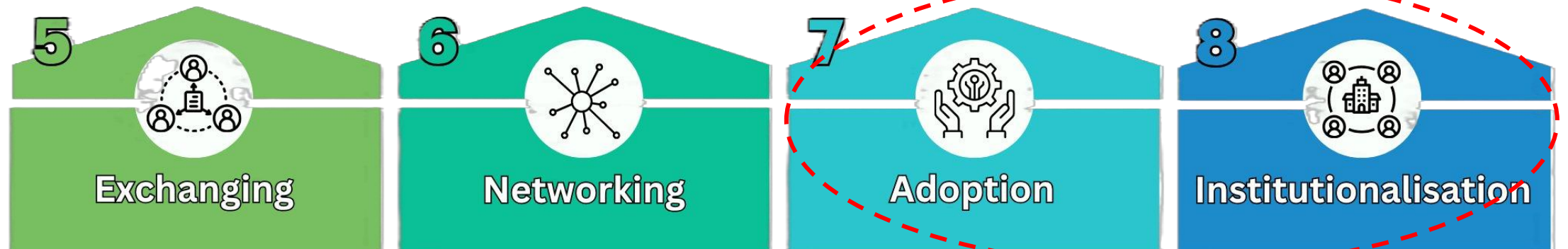
## REH20CAP

- **Key Takeaways:**

- RAM proved to be a highly adaptable methodology
- It enabled a structured and pragmatic approach aligned with project needs

- **Results Achieved**

- Strong **stakeholder engagement** throughout the process
- Effective **knowledge transfer** via targeted workshops
- Clear identification of **implementation barriers**
- Ongoing work on **policy recommendations**



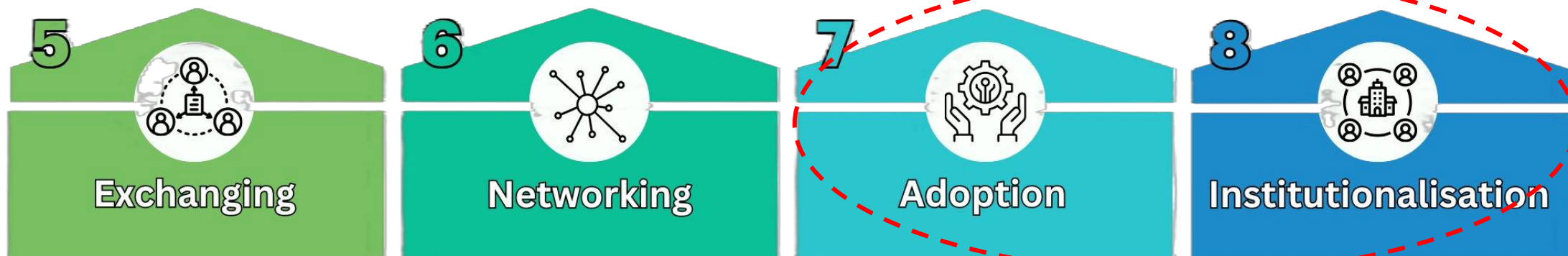


# Adoption of the RAM in Practice: A Demonstrative Case Study



The experience has led to a clear internal commitment:

**RAM will become the reference methodology for future knowledge capitalization and demonstration projects, ensuring a consistent, scalable, and impactful approach.**





NUTRI•KNOW

Thank you!

Learn more about us at [www.nutri-know.eu](http://www.nutri-know.eu)

