NUTRI•KNOW

WEBINAR Nº1

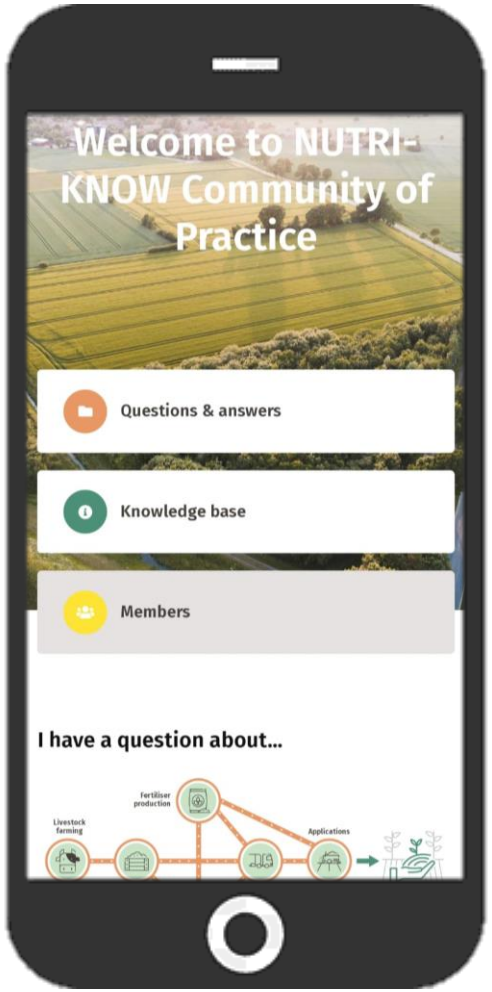
Introductory webinar

Coordination team

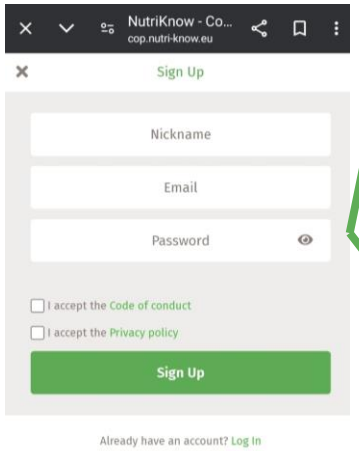
Victor Carbajal Perelló (BETA TC, UVIC/UCC)

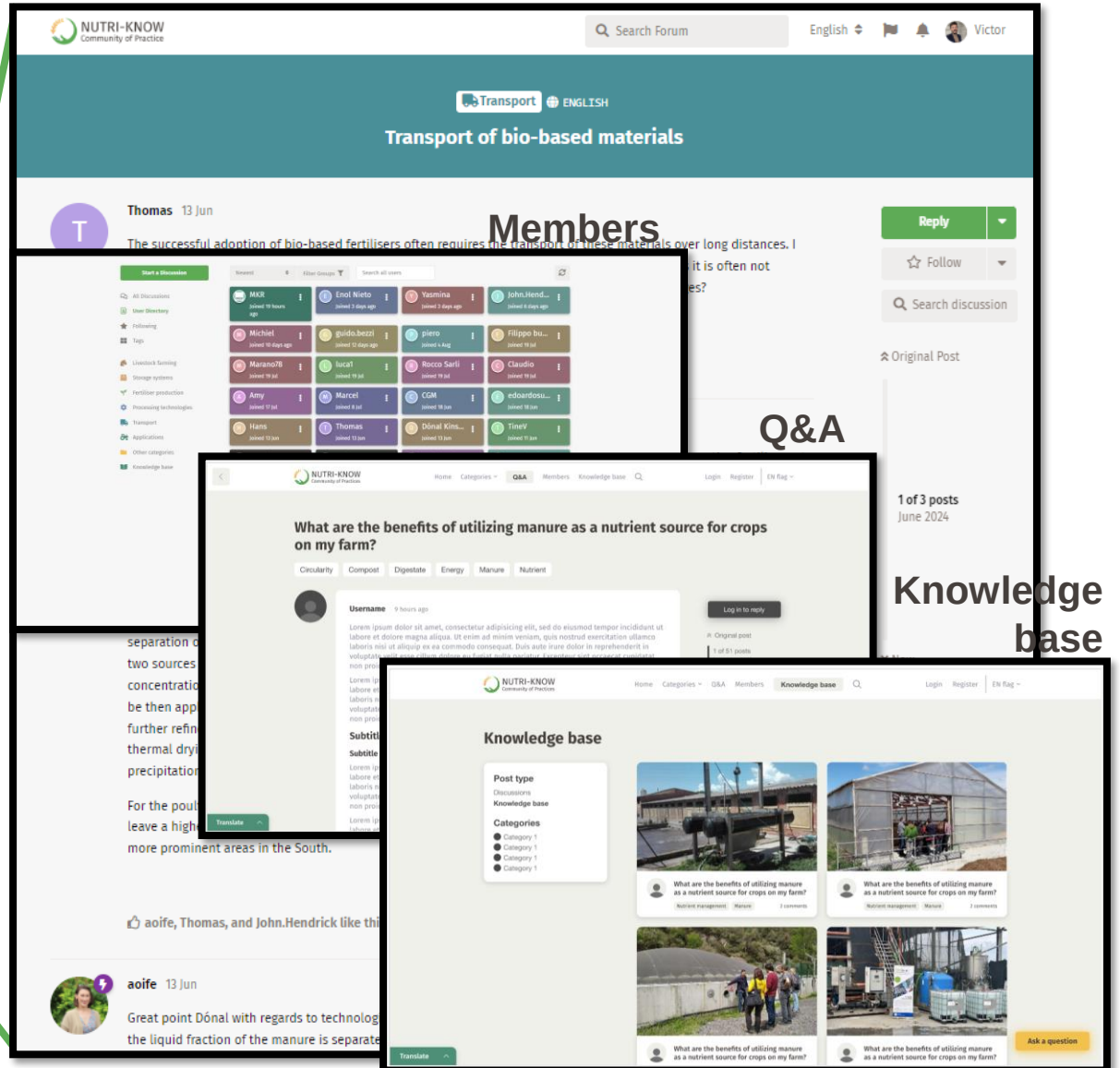
8th October 2024

Join our **Community Of Practice**!



Sign up and explore!





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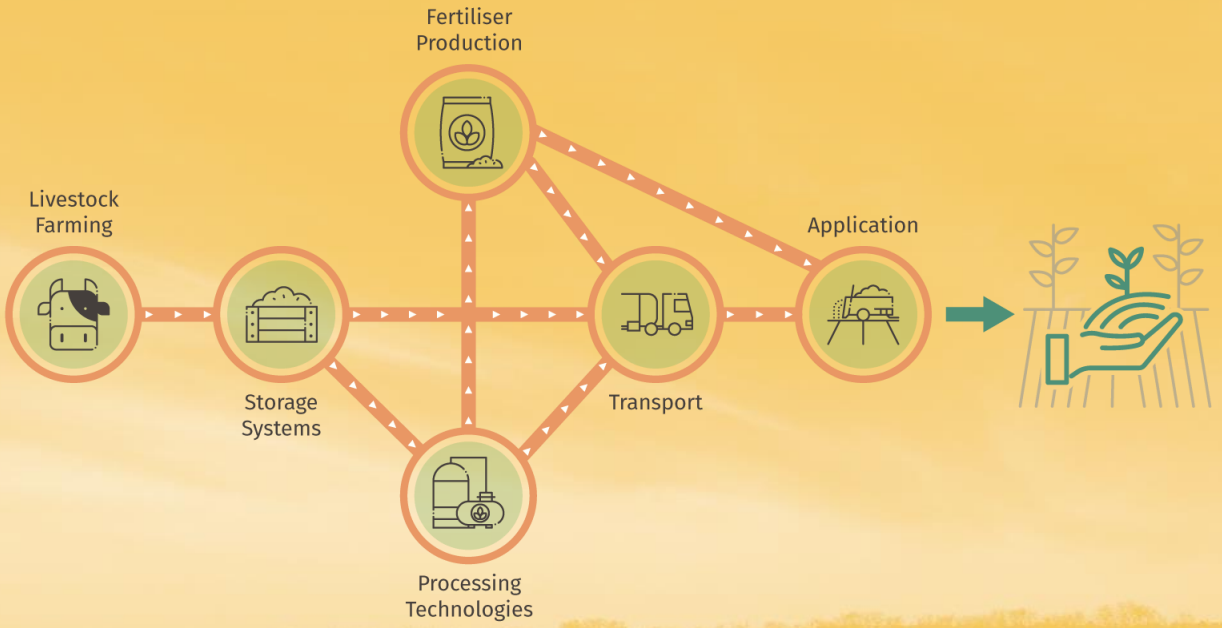

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List of webinars

1- Introductory webinar (08/10/24)

2- Livestock Farming (15/10/24)

3- Application (22/10/24)

4- Processing Technologies (29/10/24)

5- Fertiliser Production (05/11/24)

6- Transport (12/11/24)

7- Storage Systems (19/11/24)

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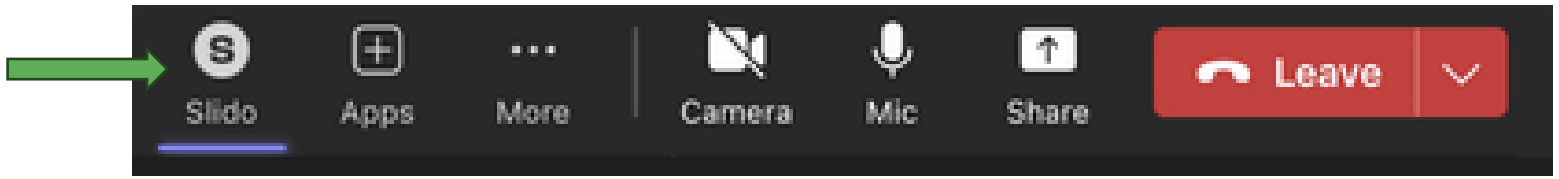

What do you expect from these webinars?

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Contextual Challenge: NUTRIENT MANAGEMENT


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


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.


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

Favorites Print Forward Share Oct. 9, 2023

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


02 February 2024 by Diego Giuliani

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

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


Recovering Nutrients To Save The Planet: The Fertilizer Challenge

July 31, 2023 0 Comments

By Eurasia Review


Home / News / Agrifood / Sustainable food systems / EU stalls on strategy to curb nutrient losses

EU stalls on strategy to curb nutrient losses

By Julia Dahm | Euractiv.com Est. 4min 8 nov 2023 (updated: 13 nov 2023)

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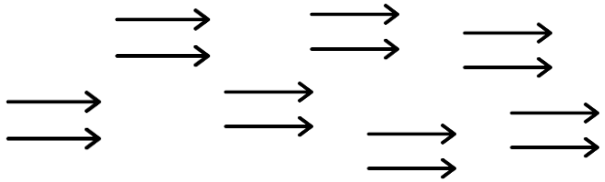
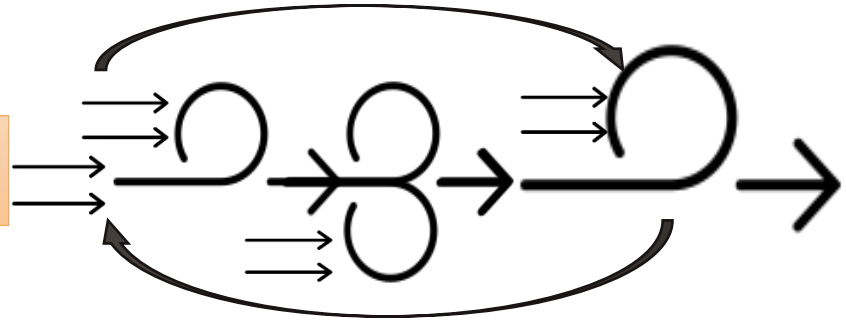
Knowledge Paradigm

Knowledge Linearity Approach



Knowledge Circularity Approach



ADDED VALUE

- ❑ Considering Experience
- ❑ Aggregating Knowledge
- ❑ Identifying New Challenges
- ❑ Increasing Lifespan of Innovations

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Capitalisation

Process Overview
Combines research outcomes to broaden impact
Involves knowledge sharing and raising awareness
Maximises impact through new knowledge generation
Supports policy development and circularity
Promotes re-use, knowledge transfer, and improved performance

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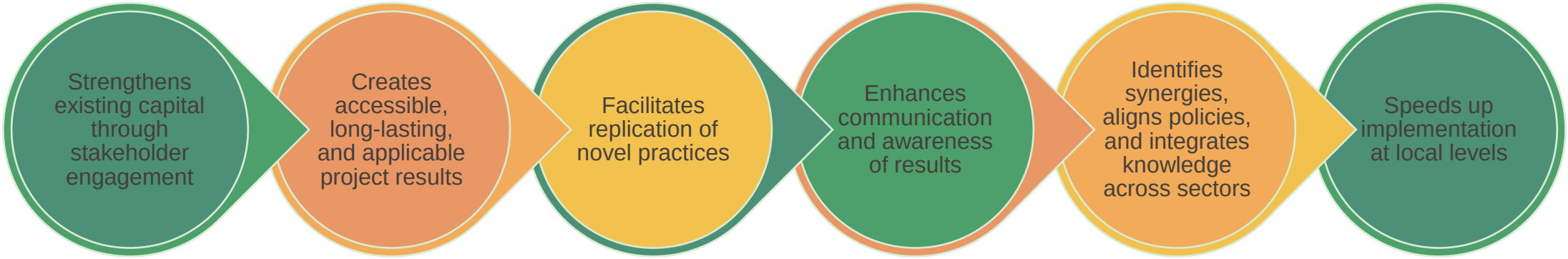
Capitalisation



Capitalisation, eventually, becomes a complementary procedure to the information, communication, monitoring and evaluation processes.

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Knowledge Challenge

EIP-AGRI Operational Groups

KNOWLEDGE

What we know

EU CAP NETWORK

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

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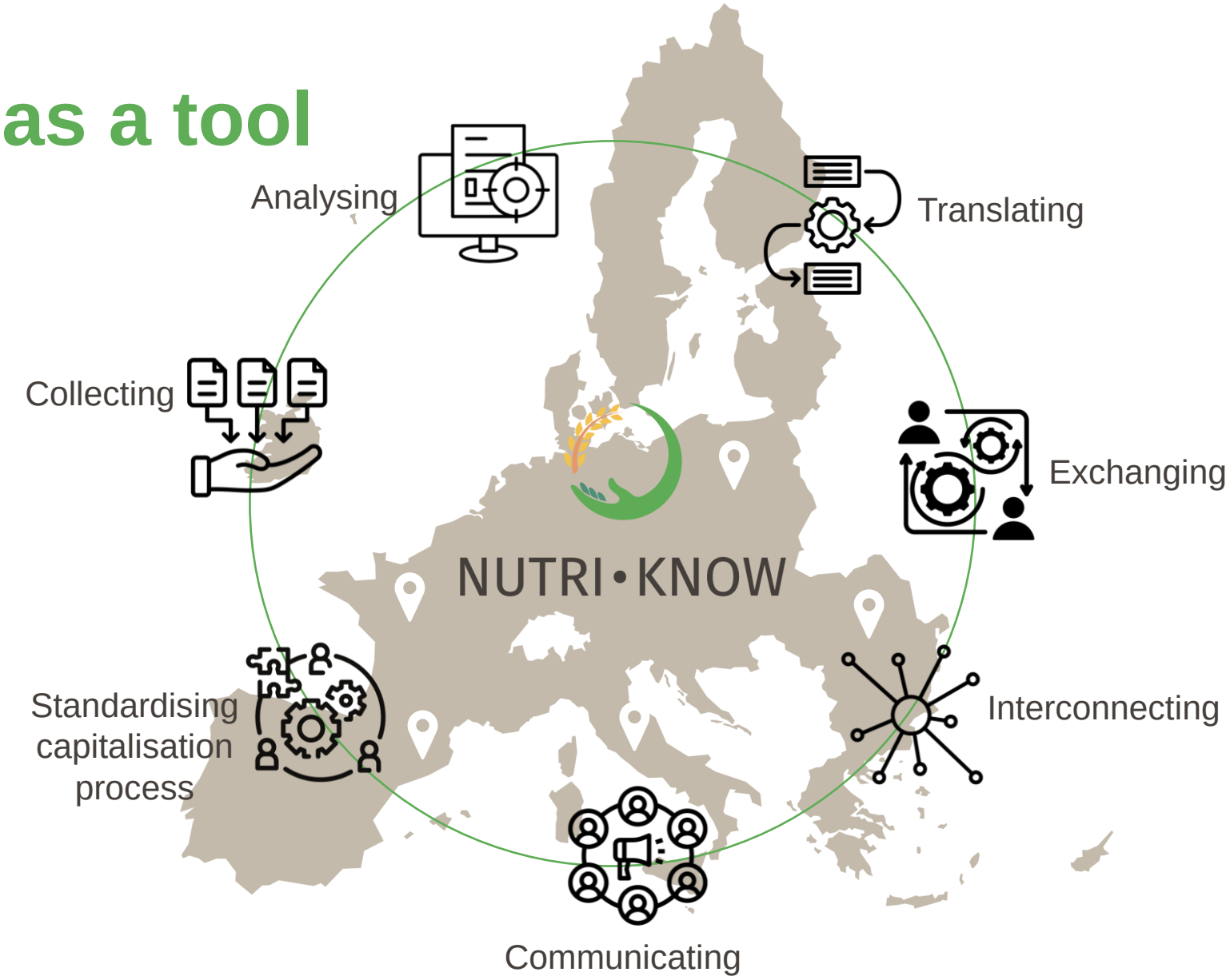
NUTRI-KNOW as a tool

Increase the **impact** of research and innovation on nutrient management

IMPACT



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NUTRI-KNOW Project

Call: HORIZON-CL6-2022-GOVERNANCE-01 (Innovative governance, environmental observations and digital solutions in support of the Green Deal)

Topic: HORIZON-CL6-2022-GOVERNANCE-01-13

Type of Action: HORIZON-CSA

Proposal number: 101086524

Duration: 3 years (36 months)

Budget: € 1 999 962,50

Project Information

NUTRI-KNOW
Grant agreement ID: 101086524

DOI
10.3030/101086524

EC signature date
17 October 2022

Start date
1 January 2023

End date
31 December 2025

Funded under
Food, Bioeconomy Natural Resources, Agriculture and Environment

Total cost
€ 1 999 962,50

EU contribution
€ 1 999 962,50

Coordinated by
FUNDACIO UNIVERSITARIA BALMES
Spain

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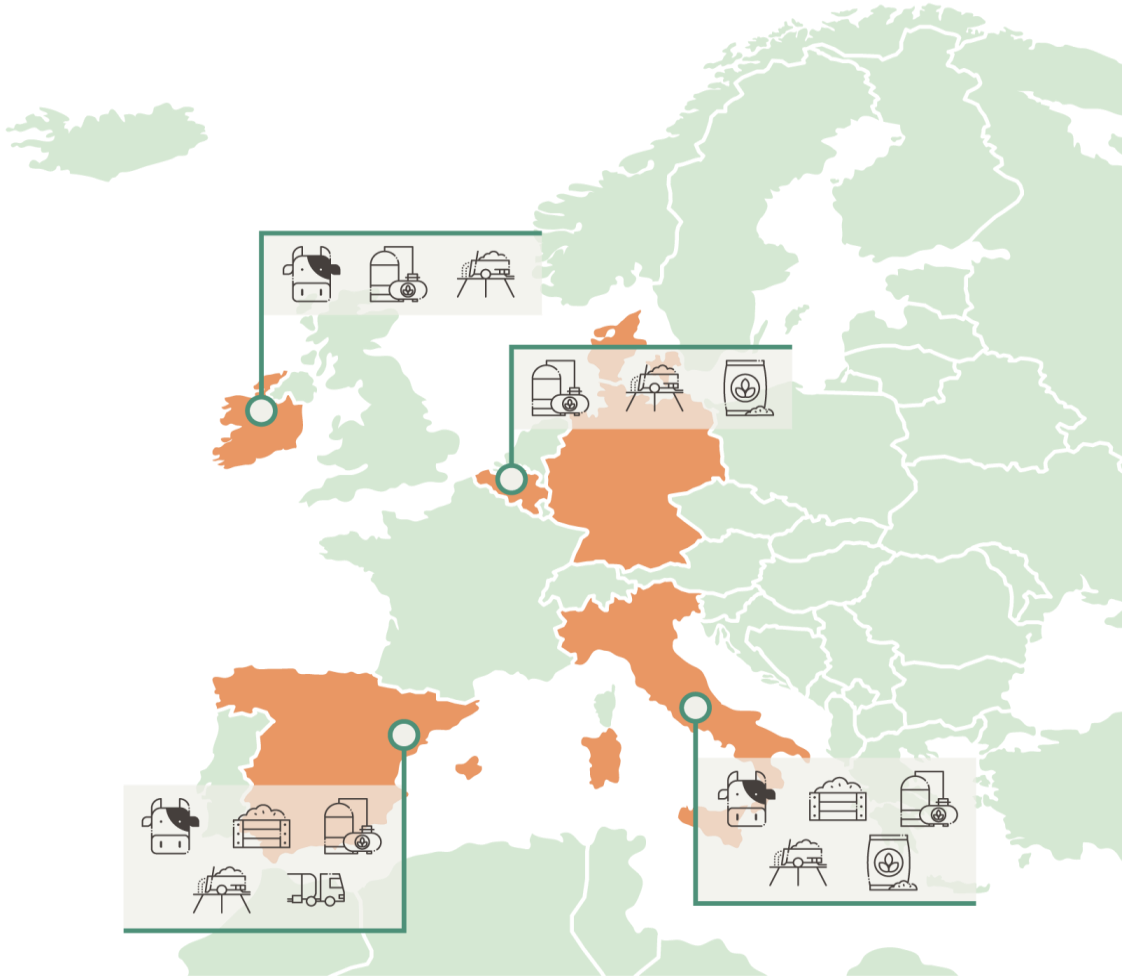
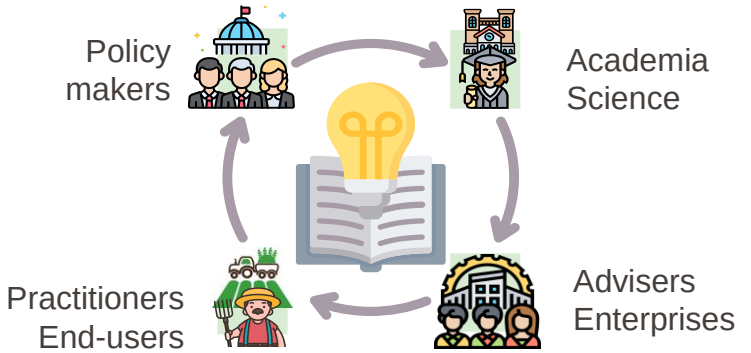
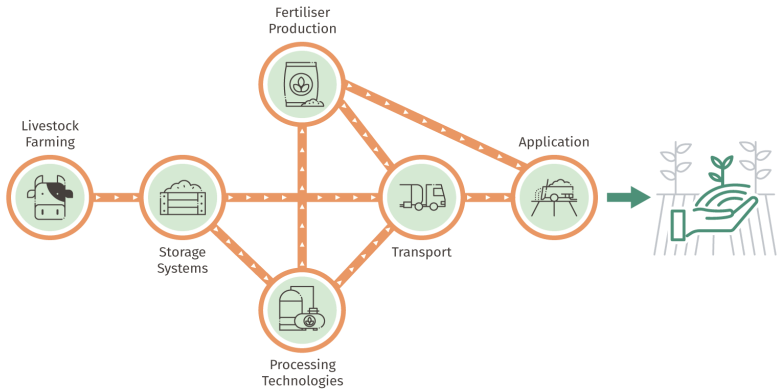
NUTRI-KNOW APPROACH



MULTI-ACTOR APPROACH



CONCEPTUAL APPROACH



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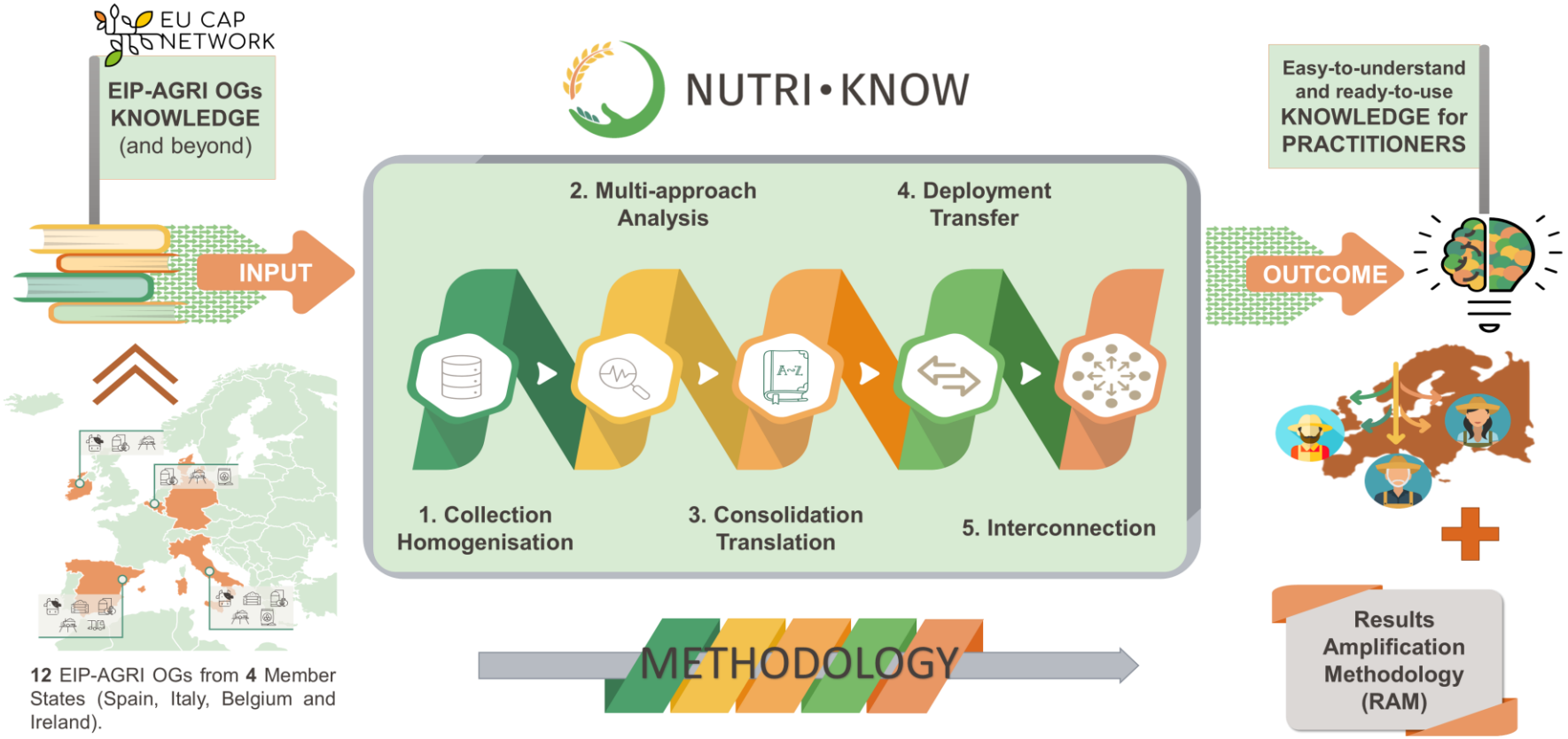
General Project Overview



With this approach, NUTRI-KNOW aims to bridge the knowledge-to-application gap, fostering a sustainable and dynamic agricultural sector.

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Collection & Homogenisation: Knowledge

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OG highlights for nutrient management

Manure Concentrator (ES)

Technology to separate pig slurry into two distinct liquid fractions at a low cost, without additional emissions, and with minimal energy consumption. Both fractions can be applied as fertilisers using the same machine.

Manure Management Tool (ES)

Use of conductivity meters for optimized fertilization with in-situ determination of NPK content of slurry, and a computer application to quickly and accurately generate the livestock management book and fertilisation plans.

FERTICOOP-GO (ES)

Rapid testing systems and IT platforms to facilitate fast and reliable recommendations for farmers to implement Best Available Techniques (BATs) to reduce environmental impacts of livestock farm, manure management and agricultural fertilisation.

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OG highlights for nutrient management

SOS_AQUAE (IT)

Innovative application of 'renewable' fertilizers derived from livestock slurries and digestate by drip lines in sub-irrigation, to optimize the efficiency use of the local-available nutrients.

Gas Loop (IT)

Ammonia Washing Machine to reduce ammonia emission and improve the air quality inside the pig housing, meanwhile producing ammonium sulphate as alternative for synthetic N fertilizers

STRUVITE (IT)

The STRUVITE prototype treatment system to reduce greenhouse gas emissions from livestock manure and digestates. The application of recovered struvite promotes the N and P relocation in areas characterized by nutrient deficiencies.

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OG highlights for nutrient management

RENURE (BE)

Technology to recover ammonium salts from livestock manure through stripping and scrubbing process, facilitating the legislative uptake of RENURE with knowledge and experiences at field application.

POCKETBOER 2 (BE)

Elaboration of recommendations based on the experiences dairy farmers who are already using pocket digesters, to find solutions for common problems and improve performance.

Grass2Algae (BE)

Technology to process the excess farm-edge grass into grass juice and assess its agronomic value for cultivation of microalgae biomass as alternative protein source.

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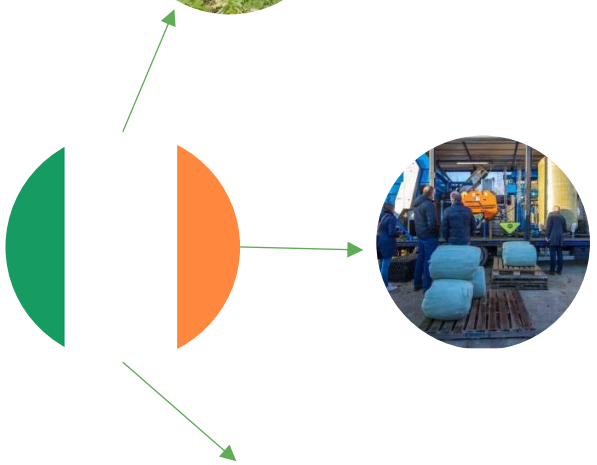
OG highlights for nutrient management



MOPS (IE)

Optimisation of organic horticulture production through crop planning and effective use of green manures and other organic manures and fertilisers to improve continuity of supply and reduce reliance on imported inputs

Biorefinery Glas (IE)

Simultaneous production of multiple products from a small-scale mobile grass biorefinery, including press-cake fiber, protein concentrate feed for monogastrics, high value prebiotic sugars and recovery of nutrients for use as fertilizer.

Duncannon Blue Flag Farming (IE)

A template for the development of farm-specific pollution potential zone ‘PPZ’ maps, with the aim to develop a results-based, reward scheme to improve water-quality in particularly sensitive catchments.

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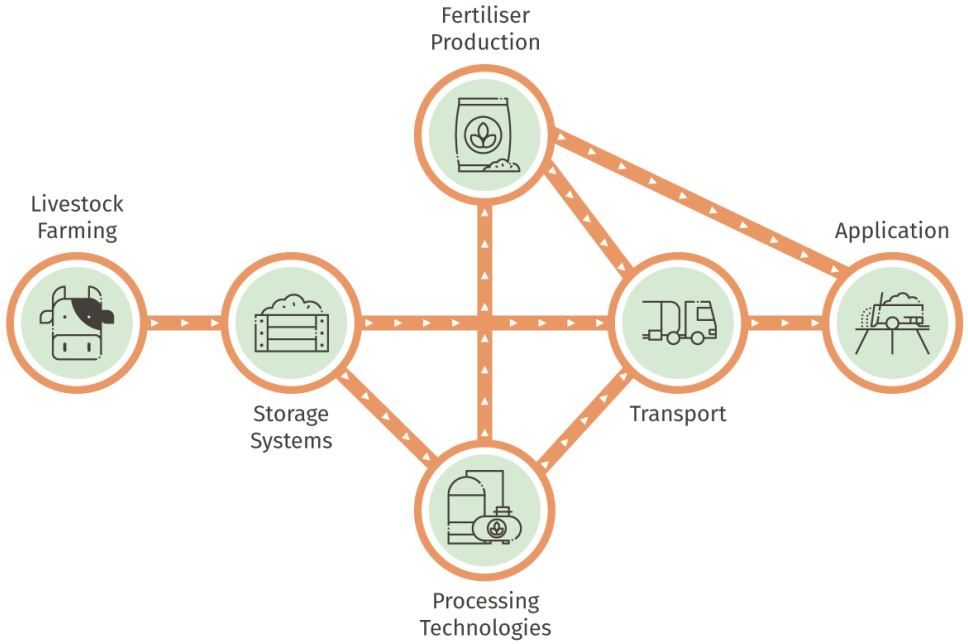
OG highlights for nutrient management



Value chain step	NUTRI-KNOW OGs
1. Livestock farming	OG. Biorefinery Glas OG. FERTICOOP OG. Gas Loop
2. Storage systems	OG. FERTICOOP OG. Struvite
3. Processing technologies	OG. Slurry Concentrator OG. Biorefinery Glas OG. Gas Loop OG. Grass2Algae OG. Pocketboer2 OG. RENURE OG. SOS AQUAE OG. Struvite
4. Fertiliser production	OG. Biorefinery Glas OG. Gas Loop OG. RENURE OG. Struvite
5. Transport	OG. Slurry Concentrator
6. Application	OG. Manure Management Tool OG. Duncannon Blue Flag OG. MOPS OG. RENURE OG. Slurry Concentrator OG. SOS AQUAE OG. Struvite

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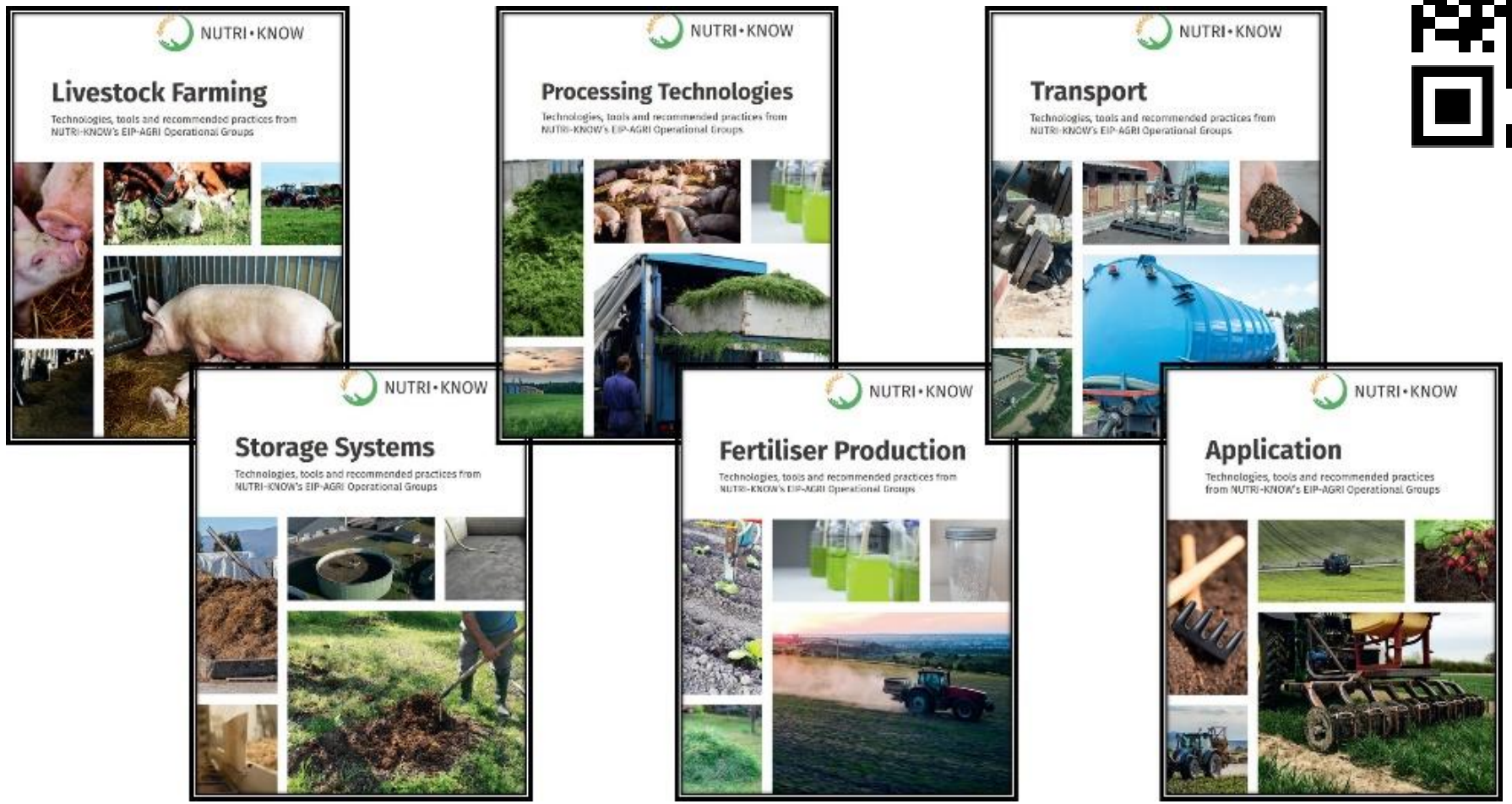
NUTRI-KNOW Booklets



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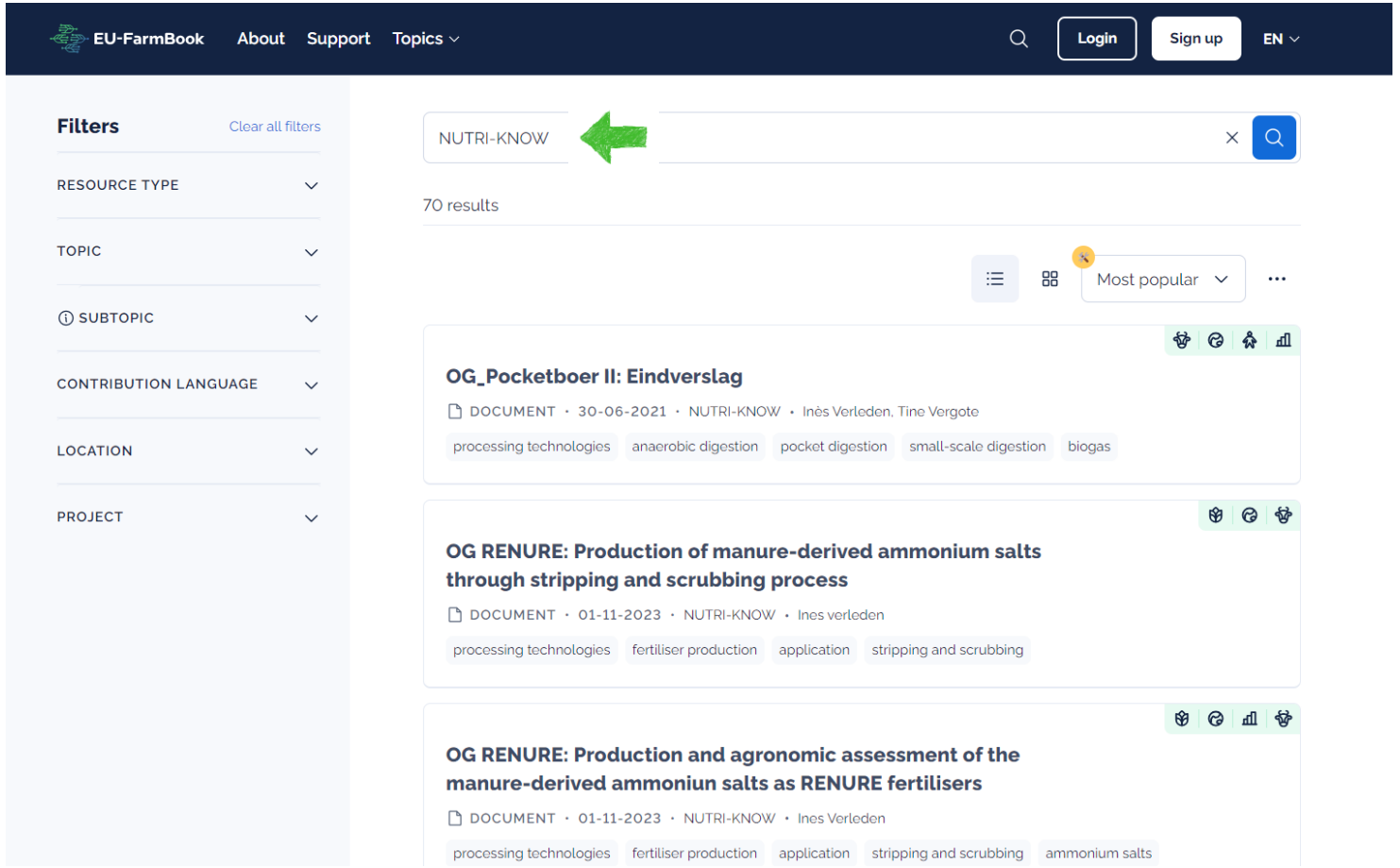
You can also find our knowledge objects in the EU-Farmbook!



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NUTRI•KNOW

Thank you!

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16/09/2024

Learn more about us at **www.nutri-know.eu**