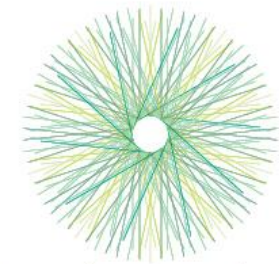


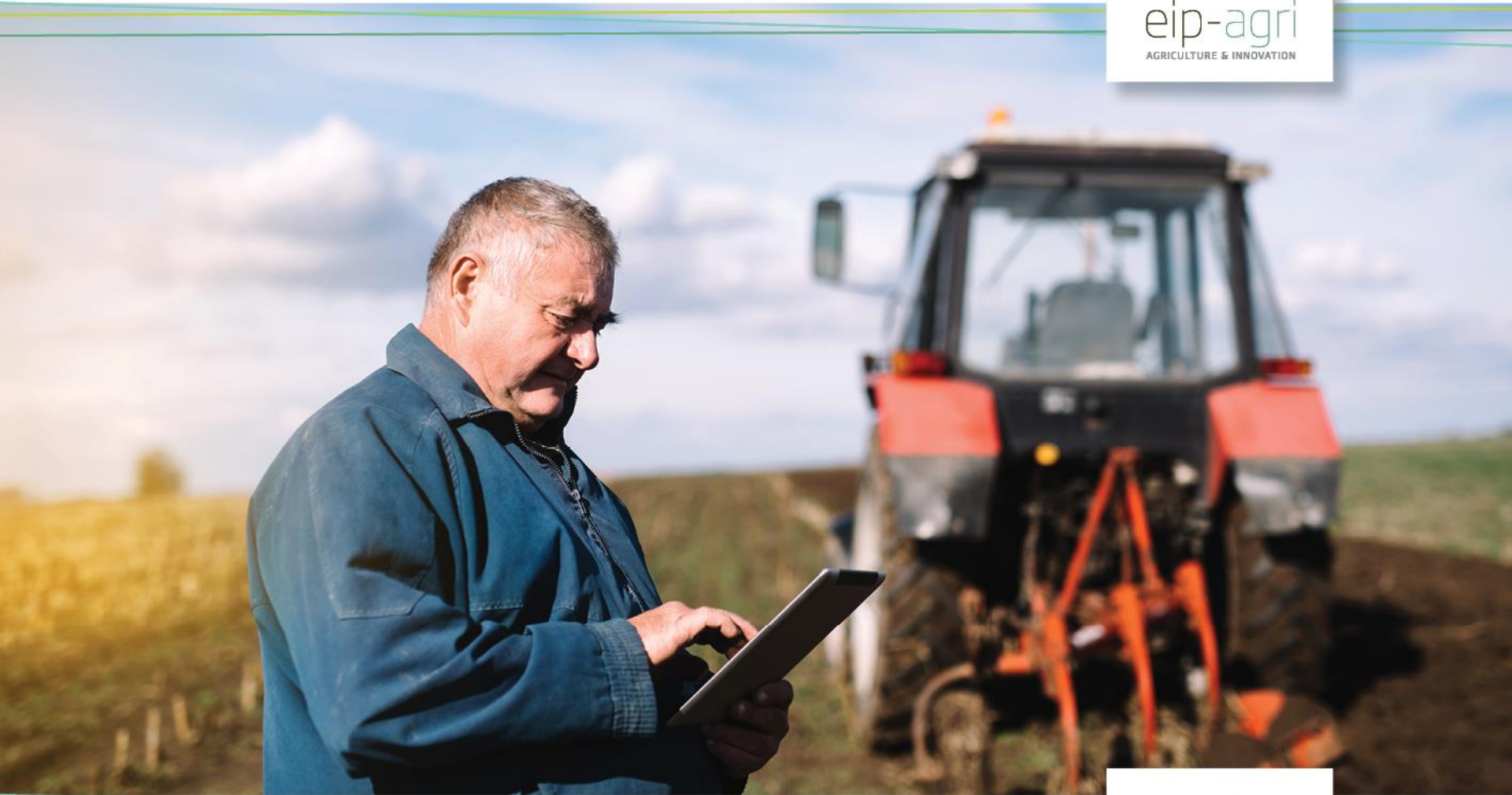
# EIP-AGRI Seminar

## New skills for digital farming

5-6 February 2020 – Aranjuez, Spain



eip-agri  
AGRICULTURE & INNOVATION



funded by  European Commission



# Programme

## THURSDAY 6 FEBRUARY 2020

08:15 – 08:45 Registration for day 2

08:45 – 09:10 Introduction to the day

### Session 2: How do we move forward?

#### **09:10 – 10:45 Developing skills for digitalisation: An inspirational journey**

Presentations by: *George Beers (NL), Miguel Cordero (ES), Beatrice Dingli (FR), Thomas Engel (DE), Hubert Gerhardy (DE), Lotte Ipsen (DK), Tom Kelly (IE), Gintare Kucinskiene (Lt), Hercules Panoutsopoulos (GR), Tetiana Pavlenko (DE), Jürgen Vangeyte (BE)*

10:45 – 11:15 Coffee break



# Programme

## THURSDAY 6 FEBRUARY 2020

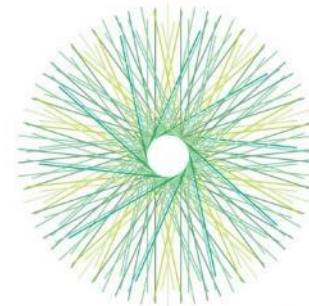
11:15 – 12:30 Tools and approaches for skills development in the farming sector: Breakout session

12:30 – 12:50 Feedback from the discussion

12:50 – 13:00 Closing of the seminar

*Kerstin Rosenow, European Commission, DG AGRI*

# Developing skills for digital farming: An inspirational journey



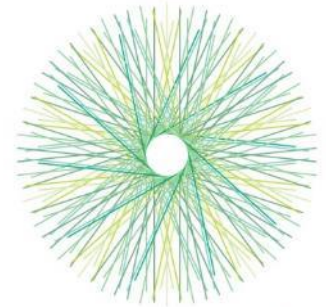
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Seminar: 'New skills for digital farming'  
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## 4. Learning about and with digital tools



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*Focus on e-learning, e-resources, e-platforms...*

Not only learning to use digital tools but using digital tools for learning.

Digital technologies can **enhance opportunities** for skills development in schools, higher education and throughout life.

Digital **platforms, portals...** provide online **learning resources** and help connect people who produce and use knowledge.

Examples:

- France, VIVEA blended digital training (**Beatrice Dingli**)
- Finland, JAMK University of applied sciences – Digital e-learning resources (*Anne-Mari Malvisto*)
- Erasmus+, [Biocontrol E-Training](#) (Laurent Dedieu)
- Lithuania, EIP Operational Group '[Gate of innovations](#)' (**Gintare Kucinskiene**)
- H2020 EURAKNOS / EUREKA (Hercules Panoutsopoulos)

# LEARNING ABOUT AND WITH DIGITAL TOOLS



**Hercules PANOUTSOPOULOS**  
**H2020 EURAKNOS / EUREKA**





# EURAKNOS

**Connecting Thematic Networks as Knowledge Reservoirs  
towards a European Agricultural Knowledge Innovation Open Source  
System**

New Skills for Digital Farming EIP-AGRI Seminar  
February 6, 2020 - Aranjuez, Spain

**Hercules Panoutsopoulos** email: [hpanoutsopoulos@aua.gr](mailto:hpanoutsopoulos@aua.gr)  
Agricultural University of Athens  
Department of Natural Resources Management & Agricultural Engineering



*EURAKNOS & EUREKA are projects that have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 817863 and No 862790.*

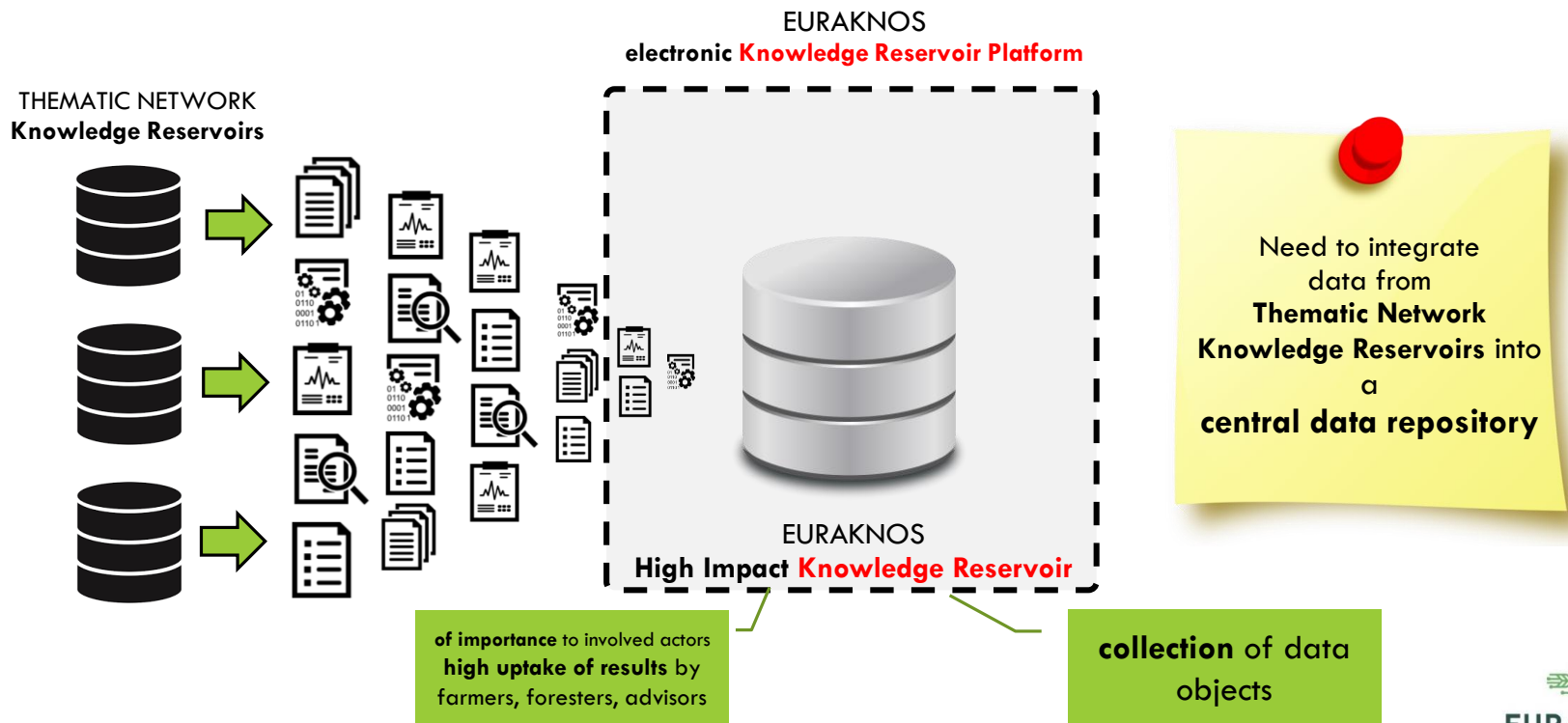
# PRESENTATION OUTLINE

- Context
- e-KRP architecture
- Storing data into a HIKR
- An ontology of Thematic Networks
- EURAKNOS database model
- User interaction & user experience
- Added value





# CONTEXT



# ARCHITECTURE



**three tier** architecture

**presentation tier** .....

**application tier** .....

**data persistence tier** .....



what the user sees



search engine



where data is stored

# STORING DATA



- Flexibility
- Data redundancy tolerant
- High performance
- Horizontal scalability
- Rich query language

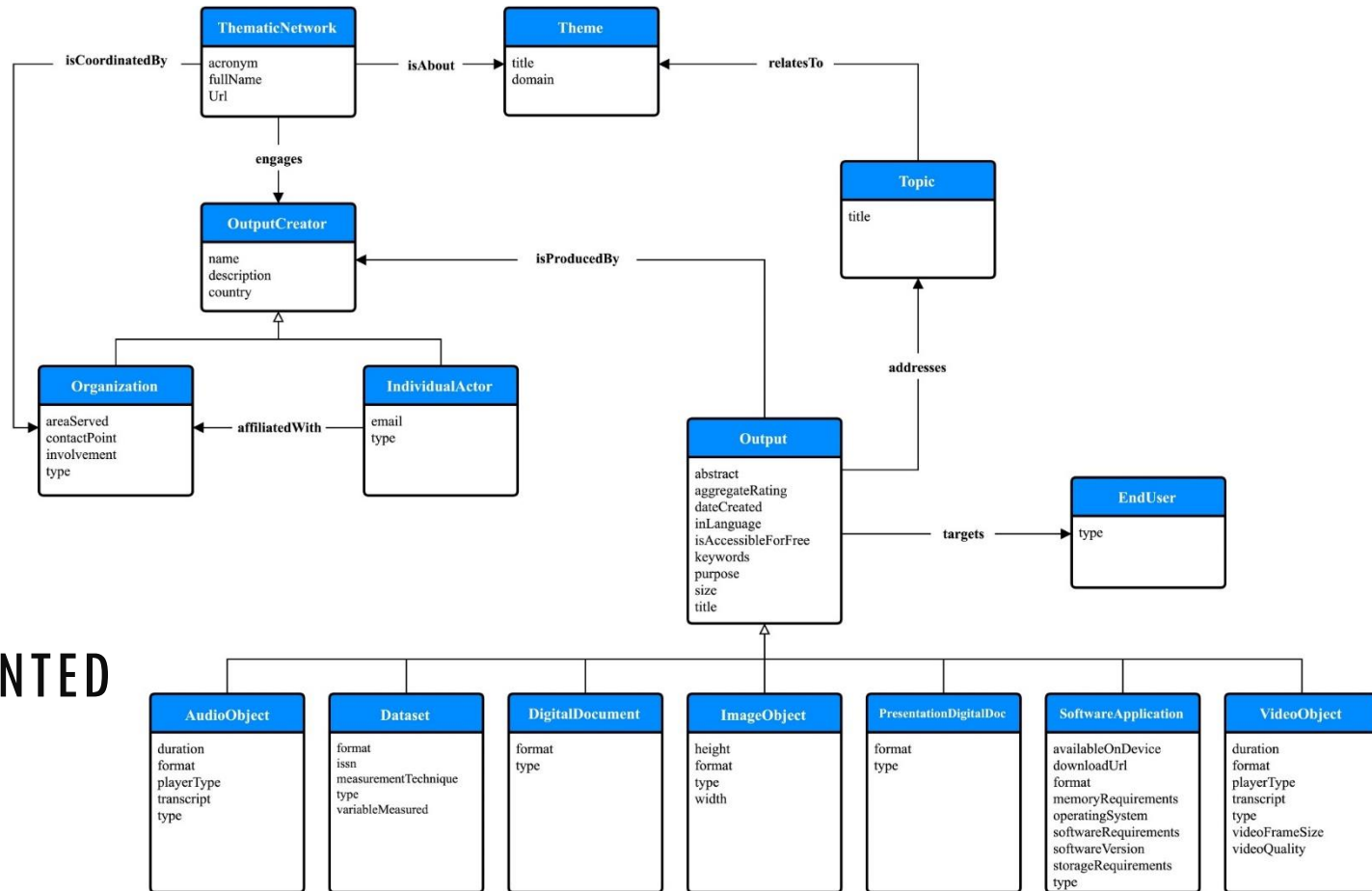


- Need to integrate data from different sources
- Wide range of data object types, formats and sizes of information material
- Each source database makes use of a different model
- Lack of sufficient metadata
- Compliance with FAIR data principles

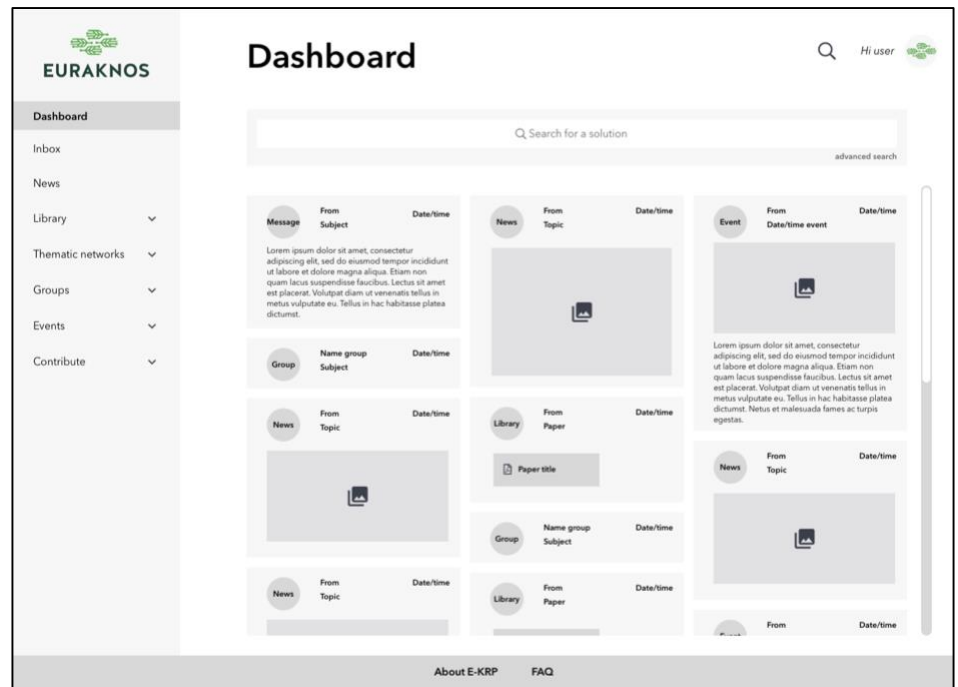
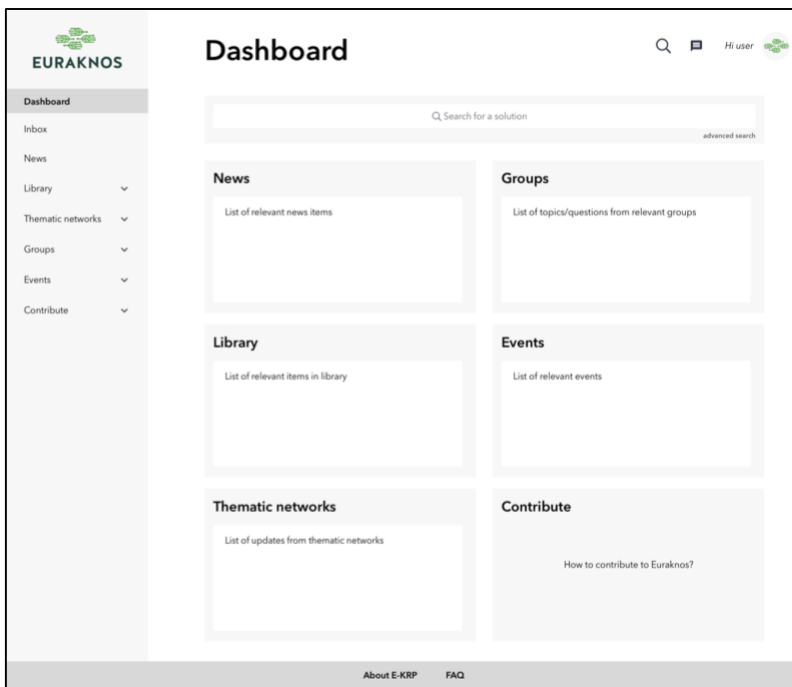


# AN ONTOLOGY OF THEMATIC NETWORKS

A PATHWAY TO ORGANISE PRACTICE-ORIENTED KNOWLEDGE



# USER INTERACTION & USER EXPERIENCE



# ADDED VALUE

- **Perspective of the end-user**
  - **A common dynamic EU repository** of Agriculture- and Forestry-related practice-oriented knowledge serving and connecting AKIS's in all member states and regions
  - Availability of Agriculture-related data objects in a variety of forms and formats capable of **covering a wide range of user needs**
- **Technical perspective**
  - A step towards the **establishment of standards** for Thematic Network – related (and Agriculture-related in general) data repositories
  - A step towards the **establishment of some commonly accepted patterns** for designing user interaction and experience



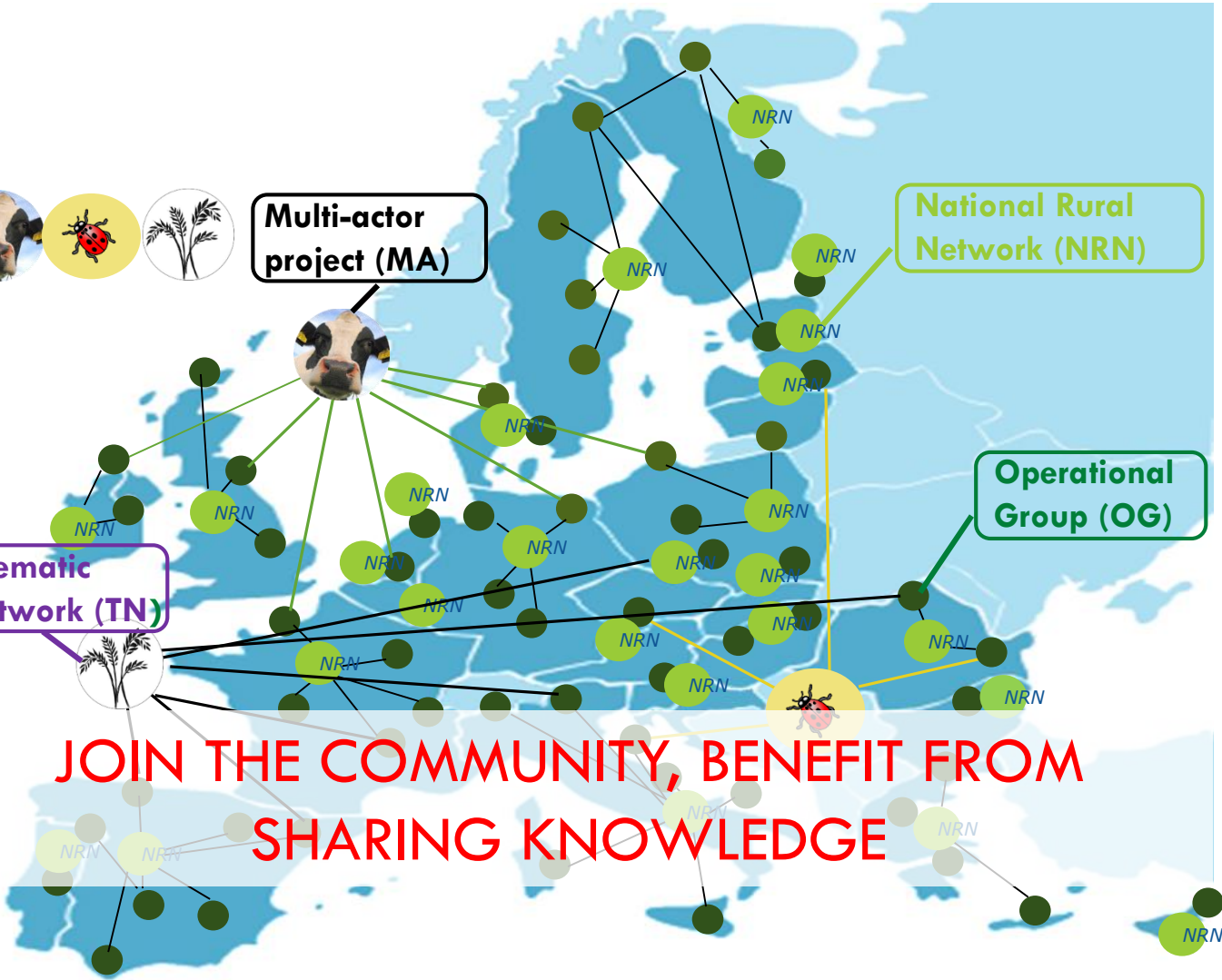
**Multi-actor project (MA)**

**National Rural Network (NRN)**

**Operational Group (OG)**

**Thematic Network (TN)**

**JOIN THE COMMUNITY, BENEFIT FROM SHARING KNOWLEDGE**



**THANK YOU  
VERY MUCH  
FOR YOUR  
ATTENTION!**

