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Basics and good practices of collaborative governance in nutrient pollution handling and nutrients recycling

1st Capacity Building Session
28 July 2026

In collaboration with:



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NENUPHAR- Ebro basin case study

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Beta

Biodiversitat, Ecologia,
Tecnologia Ambiental i Alimentària

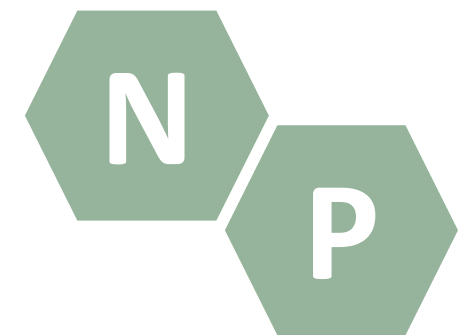


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**Nutrients recycling and
pollution handling**



Contents

- 1. NENUPHAR- governance activities**
- 2. Spanish governance context**
- 3. Stakeholder mapping**
- 4. Community of Members (CoM)**
- 5. Diagnosis**





Nutrients recycling and
pollution handling

01.

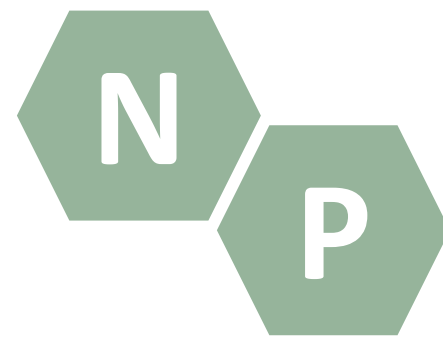
NENUPHAR-governance activities



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NENUPHAR-Governance activities



Network governance approach → design and test **novel governance models** to decrease emissions of N/P and improve their recovery.



Current governance solutions



Stakeholder mapping



Monitoring framework

Key stakeholders



Community of Members (CoM)

Governance context

Governance KPIs

Successful solutions

CoM outcomes



Best practices



Community of Members (CoM)



Foundation for the discussion and consolidation of a novel governance structure to mitigate nutrient pollution in Spain



Spain:
“Mesa de concertación”



02.

Nutrients recycling and
pollution handling

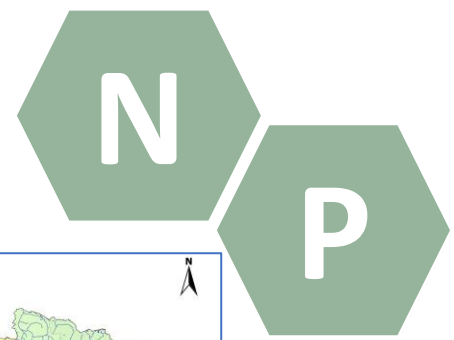
Spanish governance context



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Ebro river basin demonstration site



- **Ebro River basin:** Northeastern Spain
- **Demo-site divided in two regions (Aragon and Catalonia):** with similar nitrate pollution pressure
- **High agricultural sector** → high production of **manure and slurry** → **nutrient pollution** if not properly managed



≠ admin structure and
agricultural policies

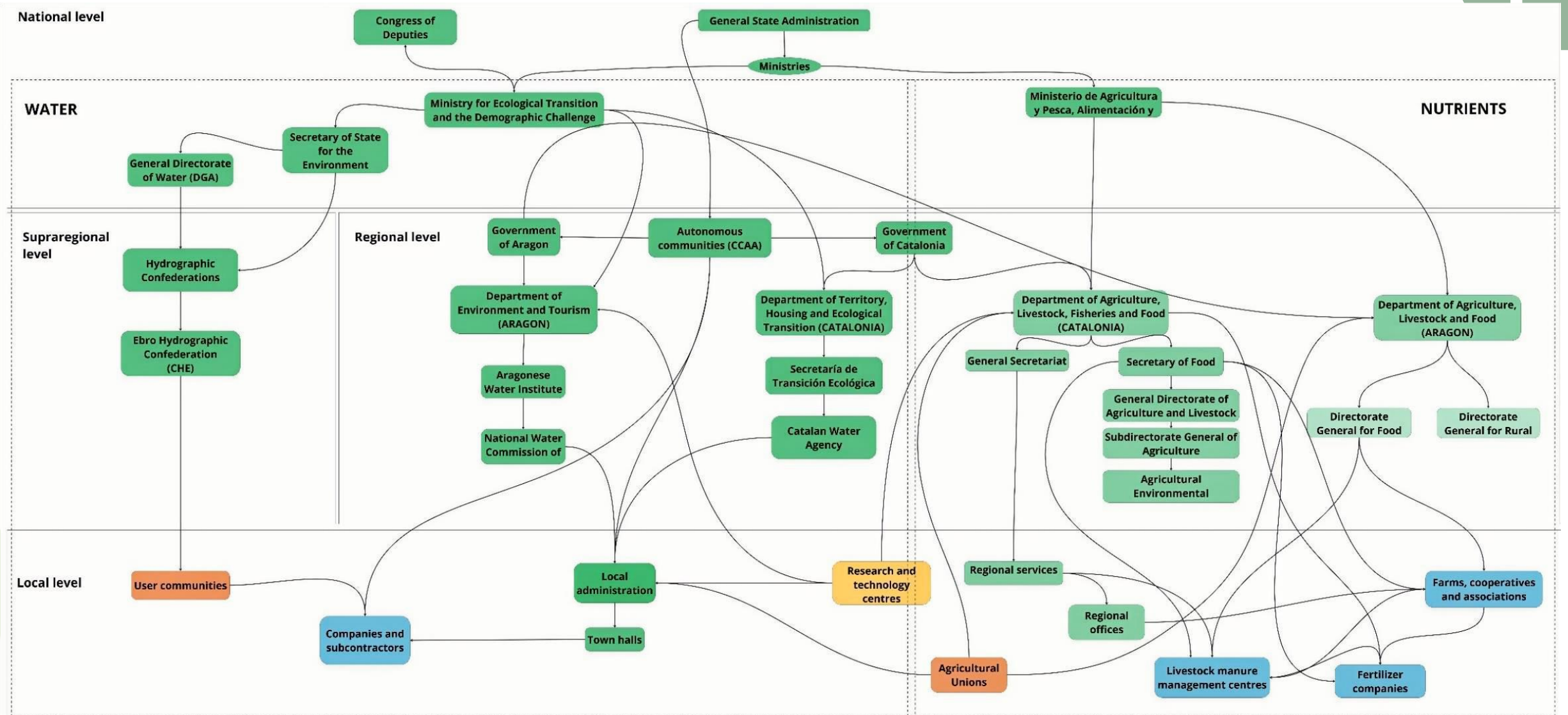


**Develop and implement
nutrient management strategies**



**Governance and
stakeholder analysis**

Spanish water and nutrients governance



28th July 2026



03.

**Nutrients recycling and
pollution handling**

Stakeholder mapping



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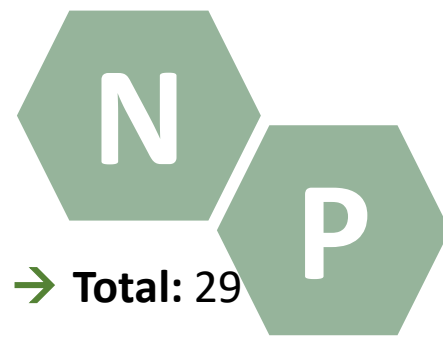
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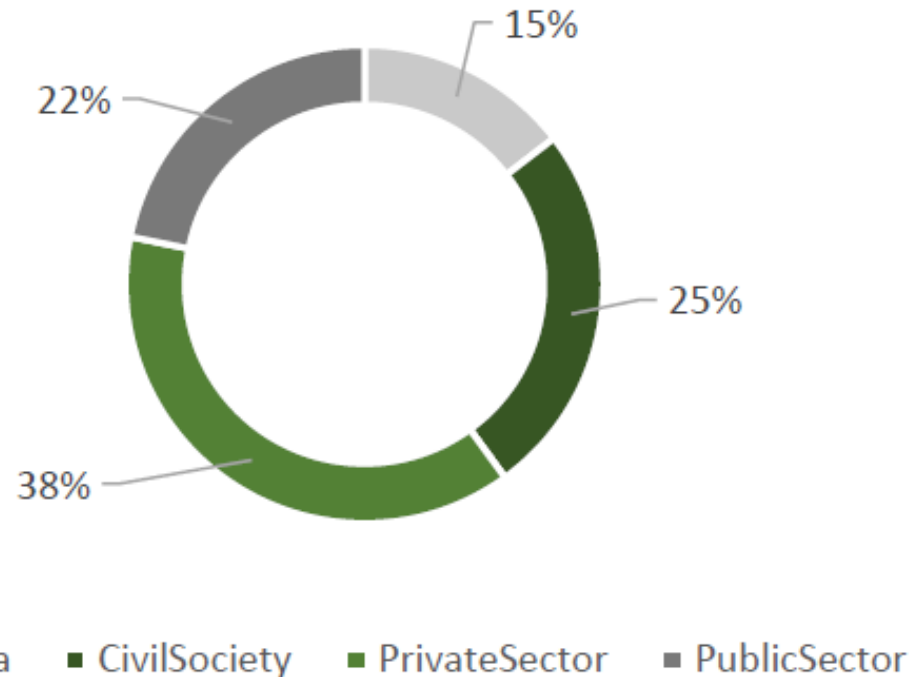


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Stakeholder analysis: Ebro Dome-site

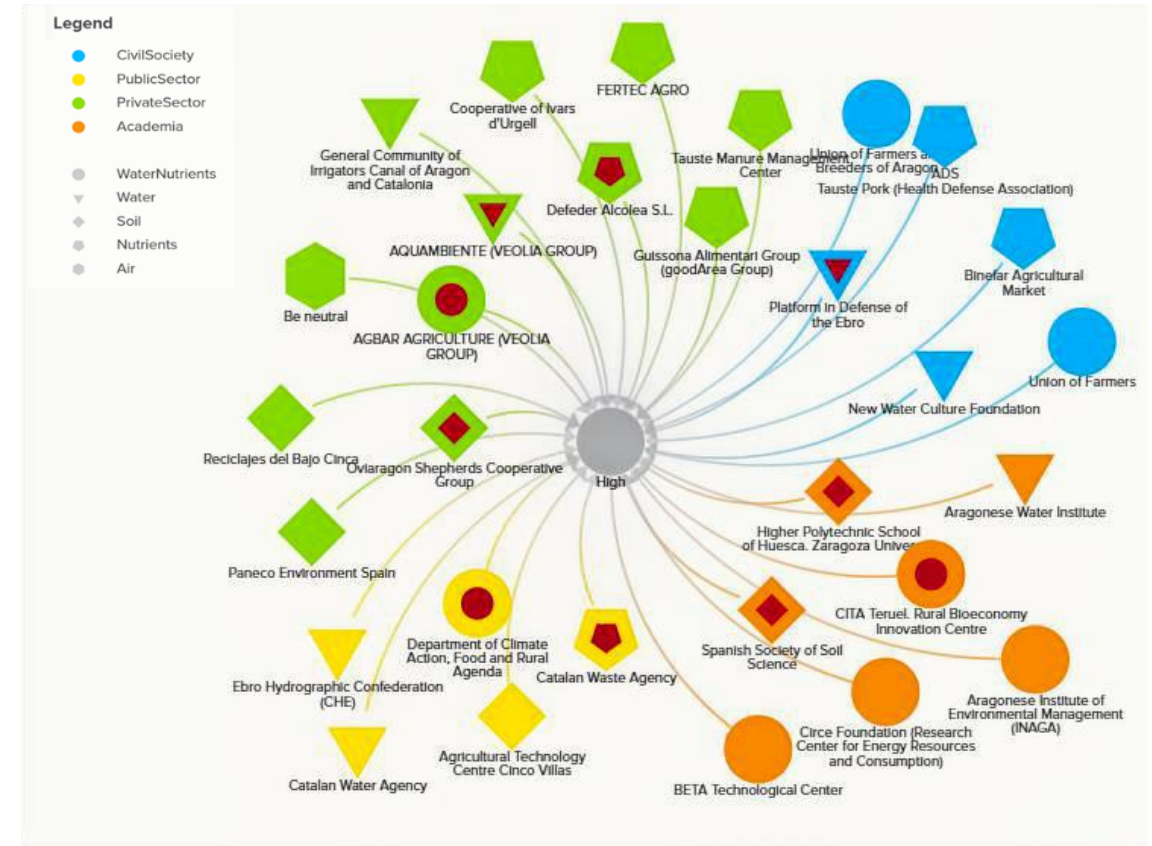


General stakeholder analysis → Total: 55



Community of Members stakeholders → Total: 29

Stakeholders with **high level of interest**



high influencing actors marked with a red dot



Nutrients recycling and
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04.

Community of Members



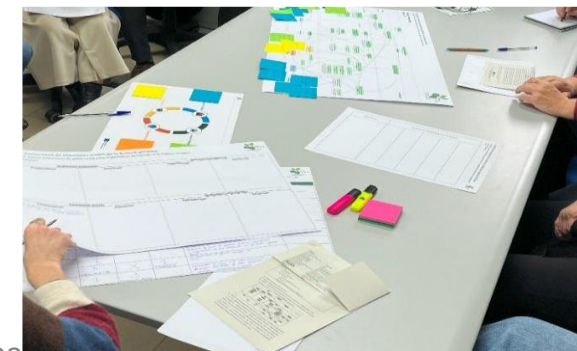
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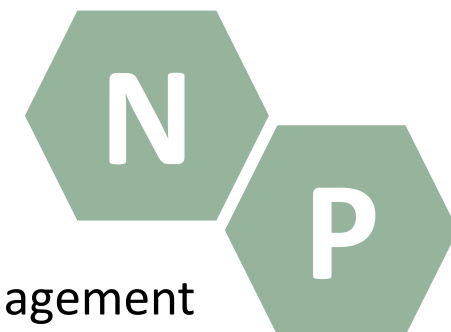
CoM- Ebro demo site

N

CoM	Session	Date	Participants	Participants type	Objective
1st CoM	Participatory session + field visit	04-Feb-25	69	Academia (17%), private sector (21%), Public sector (21%) and civil society (41%)	Lay the foundation for the consultation table by defining its structure, priorities, and key challenges .
2nd CoM (joint event)	Participatory session + field visit	11- Mar-26	58	---	Build on initial CoM outcomes by fostering collaboration, reviewing governance developments, exploring circular business models, and addressing key challenges and opportunities.
3rd CoM (NENUPHAR + GREENHOOD)	TBC	Oct-Nov 26	---	---	Consolidate regional CoMs and transfer knowledge to GREENHOOD



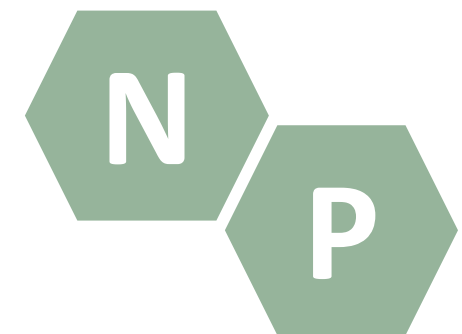
1st CoM results



Participatory activity 1: Identification of challenges in current governance and nutrient management

General	Stakeholder engagement			
	Public administration	Private sector	Academia	Civil society
• Lack of representation of ≠ stakeholders within governance • Need of effective knowledge transfer and strong collaboration between stakeholders	• Necessary but difficult relationship • Excessive bureaucracy • Limited consultation with stakeholders • Poor inter-regional coordination • Rigid and sanction-driven approach	• Limit access to public administration • Lack of structured forums • Fragmentation in value chain	• Gap between researchers and practitioners • Lack of knowledge transfer • Need of real-world innovation/application	• Low engagement • Urban-rural disconnection

1st CoM results



Participatory activity 2: identify strategic lines and challenges to be discussed



- **Better regulation**
- **Adapting regulations**
- **Promote sustainable practices**
- **Protection** of water resources and biodiversity



- **Economic incentives**
- Ensure **economic viability** of farms
- **Promote circular economy**
- **Reduction external inputs**

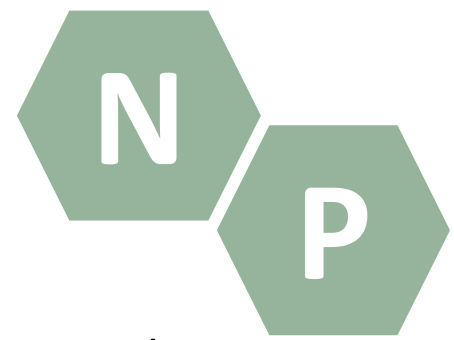


- **Better communication** farmers & society
- **Education** about sustainable agriculture
- **Promote collaboration**
- Empowerment of farmers



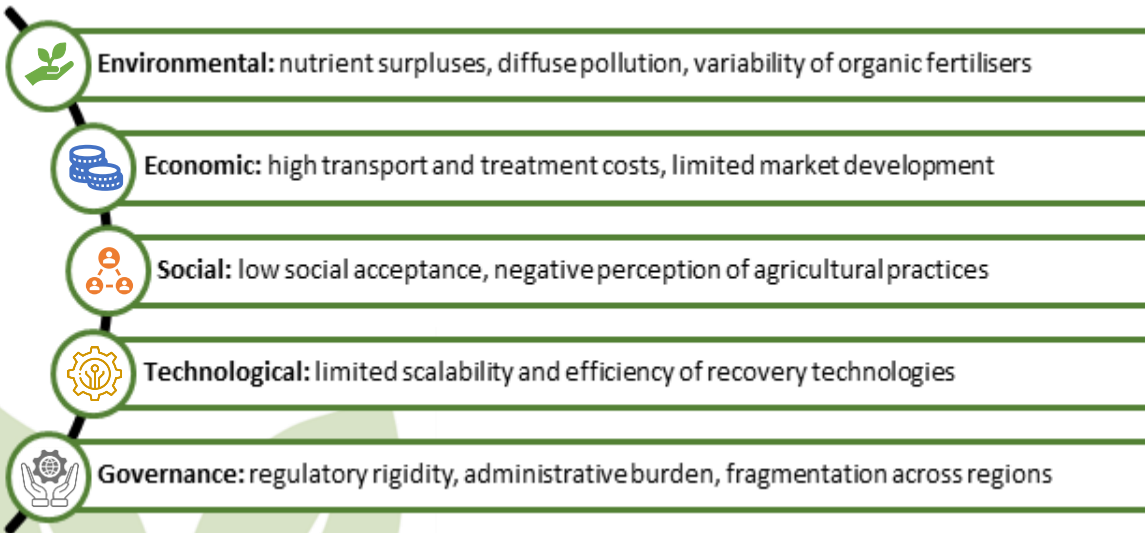
- **More investment**
- **Promotion adoption** existing technologies
- **Use of technology** to improve Agri practices
- **Development of decision-support tools**

2nd CoM results



Participatory activity: identify challenges and opportunities associated with nutrient management practices in the Ebro Basin

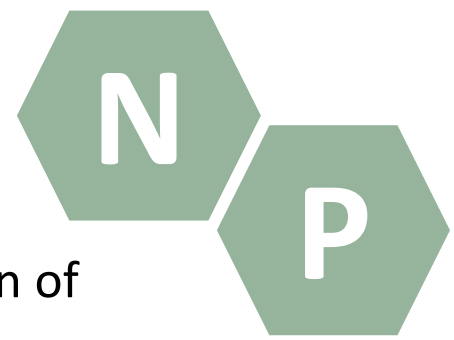
CHALLENGES



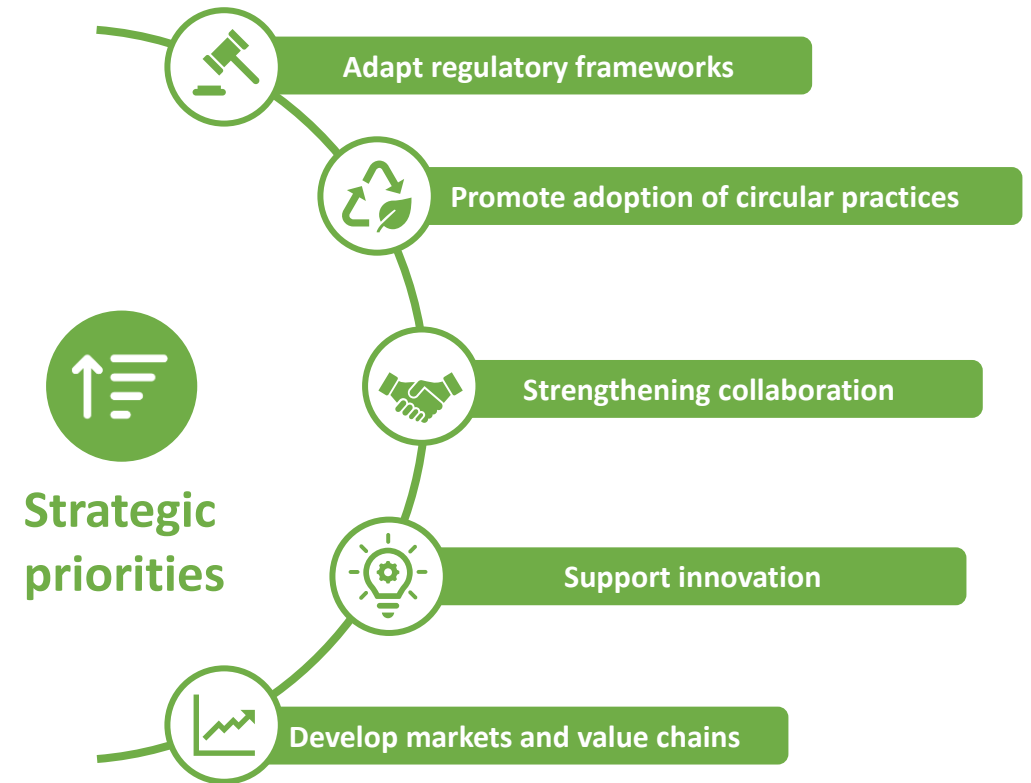
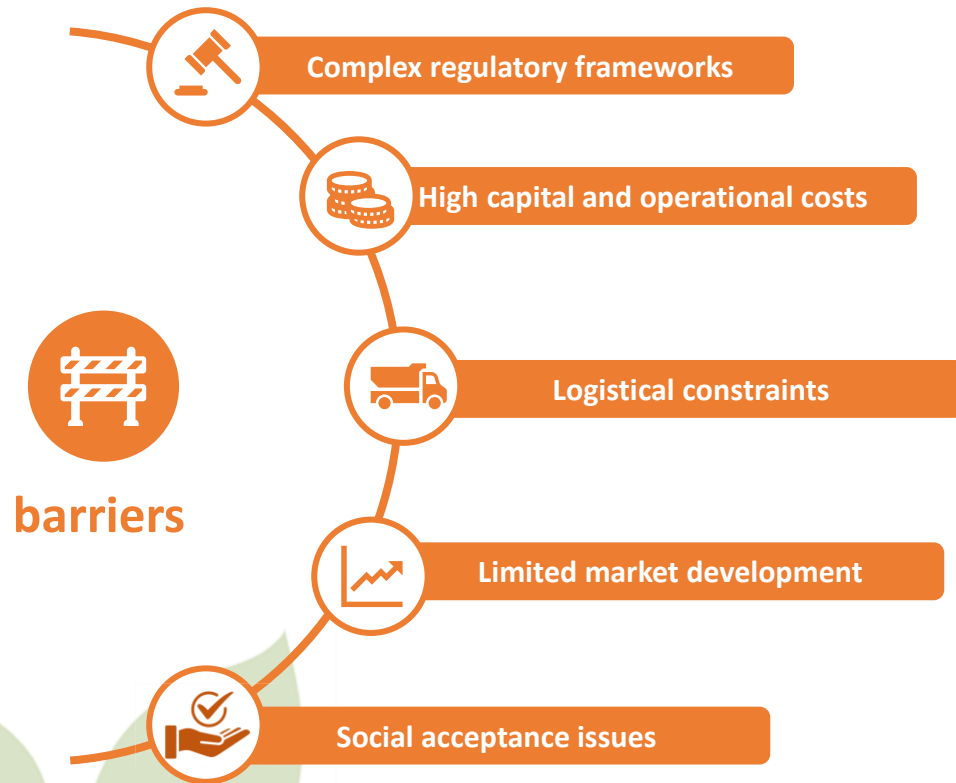
OPPORTUNITIES



2nd CoM results



Participatory activity: identify barriers and main strategic priorities for the implementation of nutrient management practices



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05.

**Nutrients recycling and
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Diagnosis



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Diagnosis CoM establishment



Opportunities	Challenges	Recommendations
CAYC (local actor): support in contact and bring key stakeholders to the CoM	Stakeholders are not used to work in dynamic activities	Importance of a facilitator role to extract key information
Proximity between regions: facilitates cooperation between stakeholders	Low representation from the private sector	Engage the private sector through conferences and events, highlighting the value of CoM sessions and their business benefits.
CoM has established the foundation to create future “Mesa de concertación”	Different needs & requirements among regions	Integrate policies and actions based on river basin not per region
	Difficult to find common objectives	Identify differences and similarities between stakeholders and how they interfere with their needs
	User communities tend to blame Public Authorities	Provide tools to facilitate interaction and cooperation between these stakeholders





Nutrients recycling and
pollution handling



GREENHOOD
Nutrient management strategies for regional ecosystems across Europe



seacure

Thank you for your attention

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