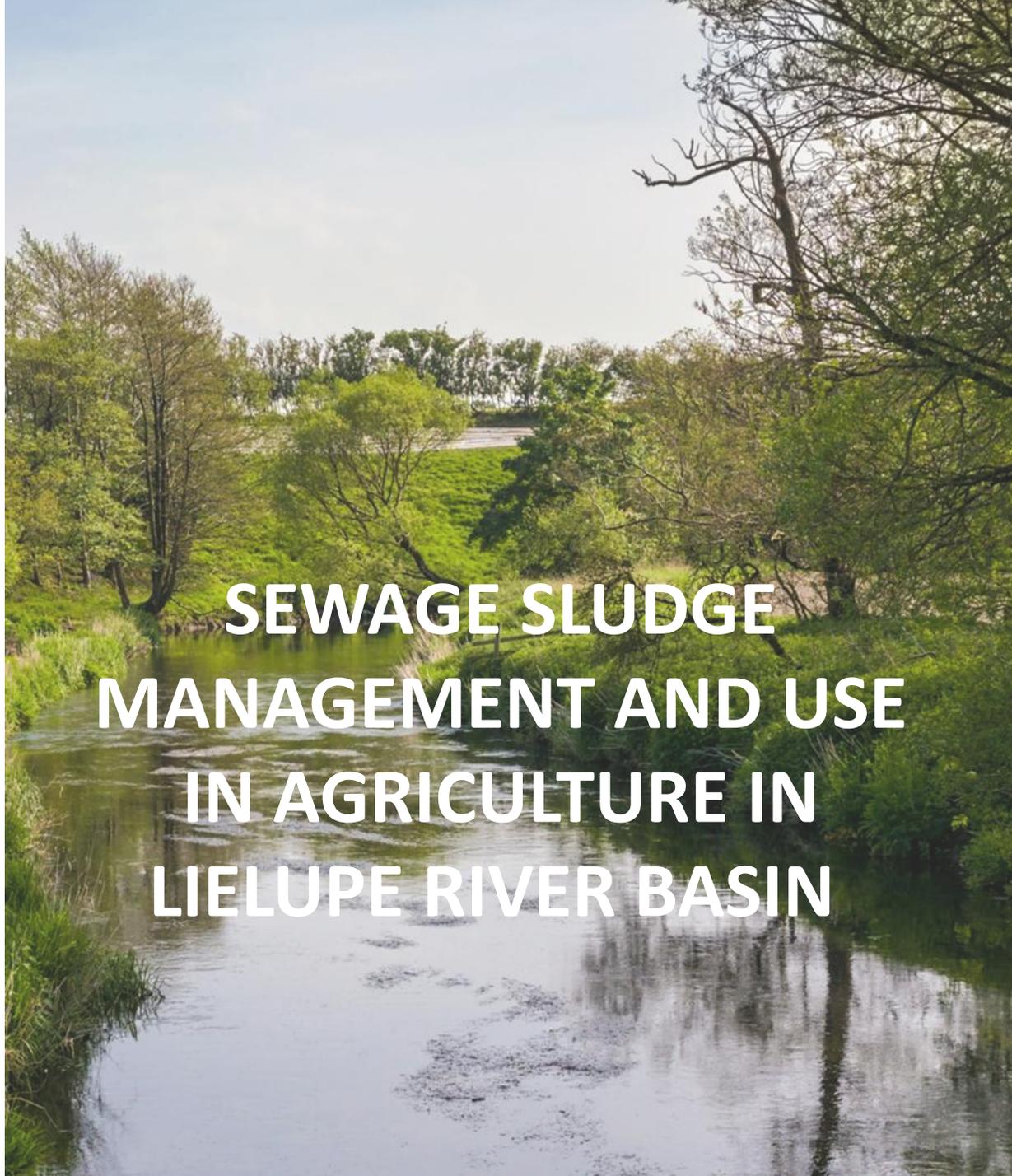




Nutrients recycling and
pollution handling

**NENUPHAR: New governance models
to enhance nutrient pollution
handling and nutrients recycling**



**SEWAGE SLUDGE
MANAGEMENT AND USE
IN AGRICULTURE IN
LIELUPE RIVER BASIN**

NENUPHAR in Short

NENUPHAR: New governance models to enhance nutrient pollution handling and nutrients recycling

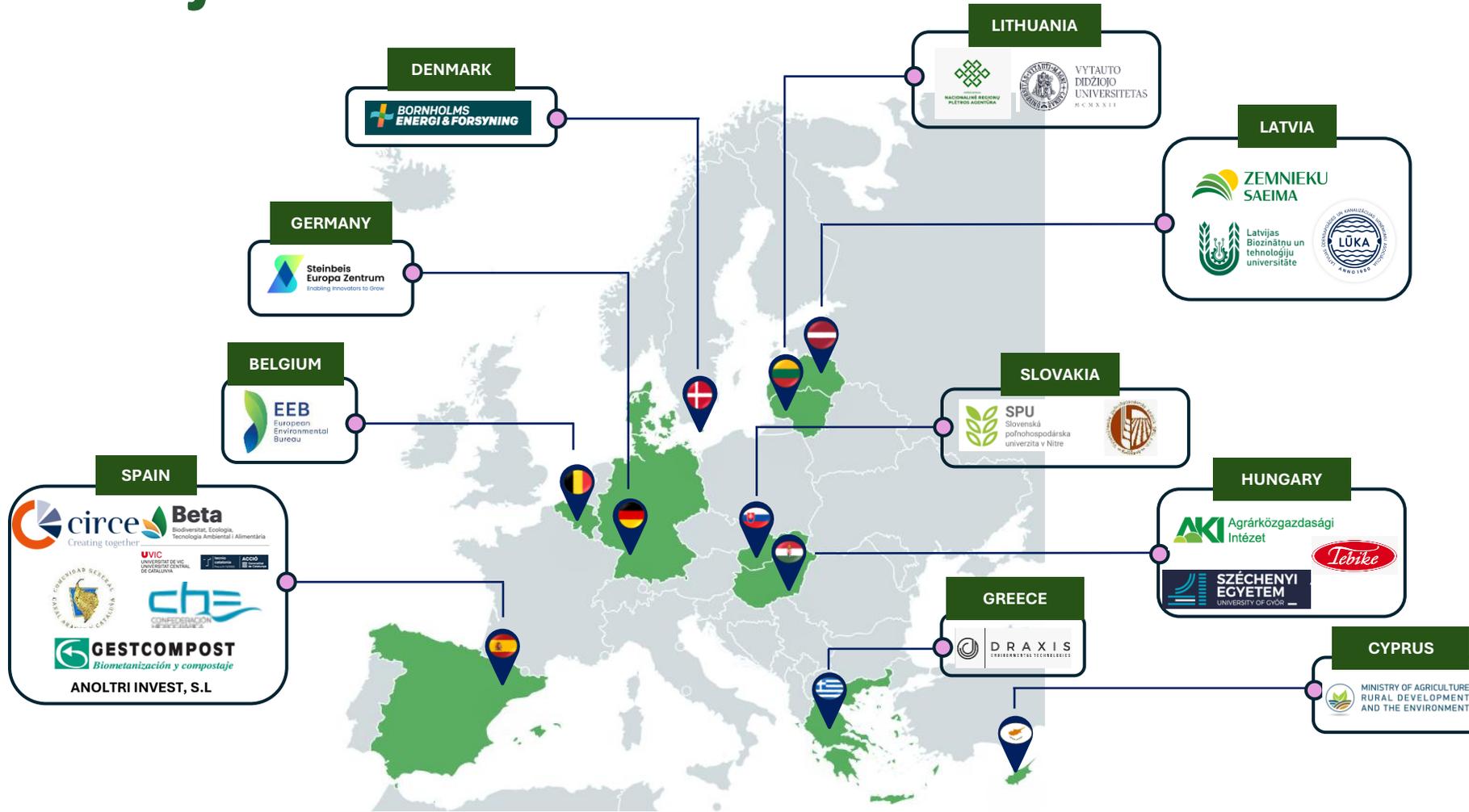
Financing: European Commission, Horizon Europe (HORIZON-CL6-2022-ZEROPOLLUTION-01-02)

Overall budget (all partners): 5.7 mil EUR

Timeframe: **01/11/2023 – 30/04/2027**

Project partners: **21 organisation**, representatives of scientific, technology, business and non-governmental community from Belgium, Cyprus, Denmark, Germany, Greece, Hungary, Latvia, Lithuania, Slovakia, Spain

Project Partners



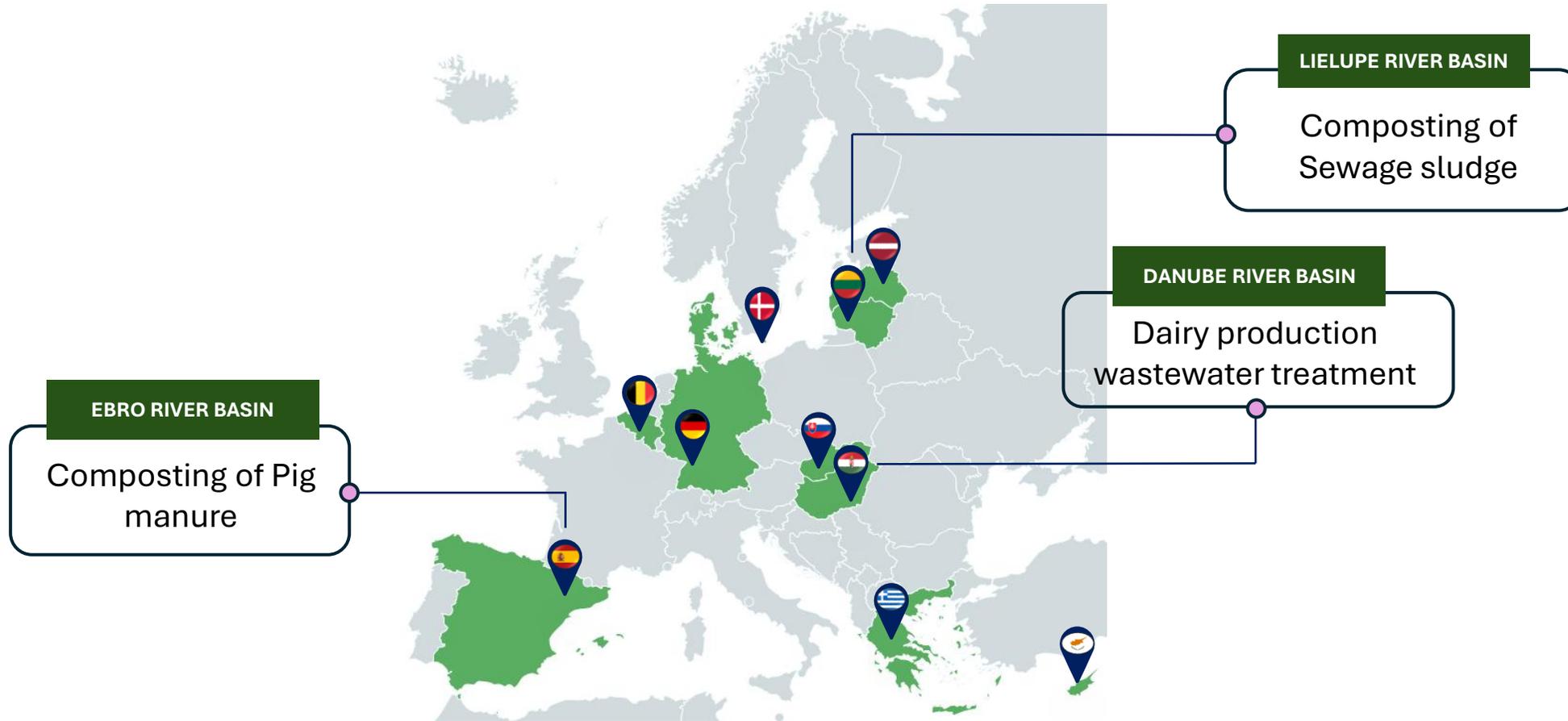
Objectives

The overall objective: to demonstrate new circular value chains addressing the **recovery of nitrogen (N) and phosphorous (P)** from three key waste streams at EU level: **animal waste, sewage sludge and dairy wastewater**

Specific Objectives:

1. To promote **stakeholder collaboration at different levels** and create long-term governance structures for a **more effective and circular management of nutrient flows**
2. To map the main flows of nitrogen and phosphorus pollution and develop solutions to **predict, monitor, control and recover these flows**
3. To characterize the regulatory, political and financial landscape involving nitrogen and phosphorus emissions management and **provide recommendations for more effective policies and funding schemes**
4. To **implement and demonstrate at real scale in** three different river basins the governance solutions and **treatment processes** enabling a circular use of N and P and their application in other environments
5. To establish an EU-wide community and **a roadmap for the implementation of NENUPHAR solutions in other regions** starting from three follower regional clusters in Denmark and Cyprus
6. To exchange knowledge with previous projects and initiatives while creating a critical mass of professionals (**Community of Interest**) ready to replicate NENUPHAR insights

Practical Demonstrations



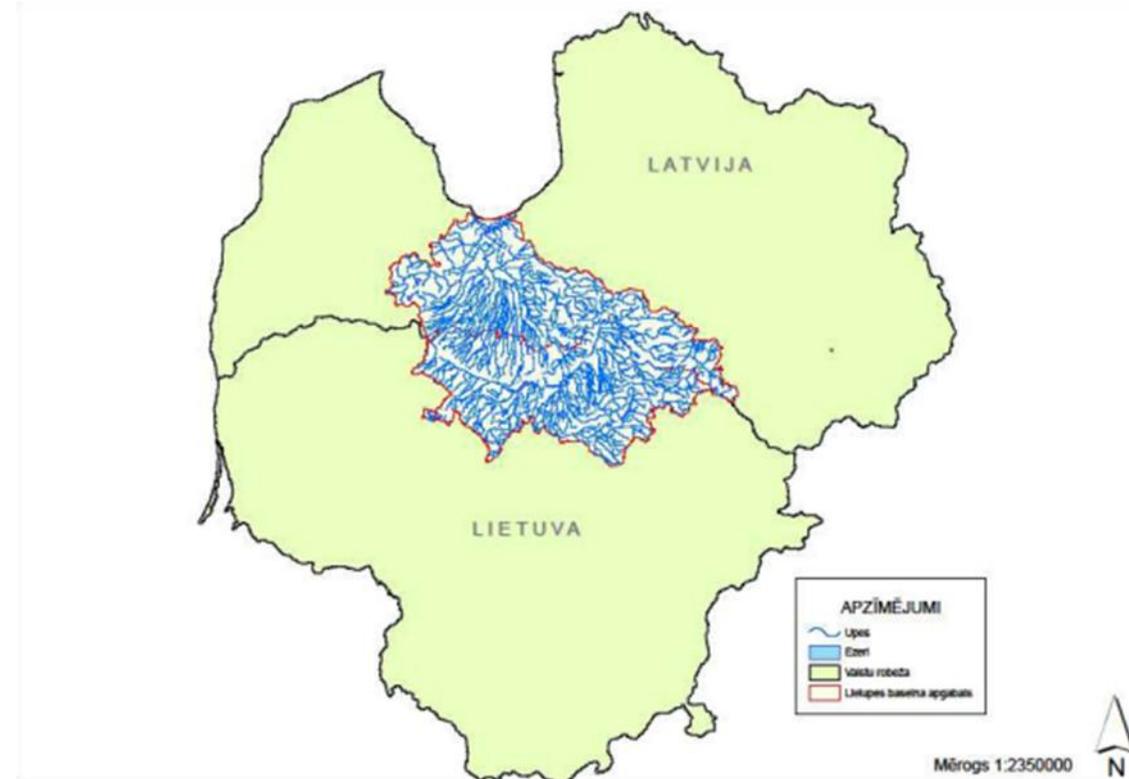
Main activities in Lielupe River Basin

Development of a **methodology** for composting sewage sludge

Demonstration: **applying and incorporating the compost into agricultural land**

Monitoring: **sampling, testing and analysing** various indicators in sewage sludge

Stakeholder involvement: **Community of Members**, workshops, discussions, recommendations for policy makers, educational activities, dissemination of results



Lielupe River Basin Partners



Research



Wastewater experts



Stakeholder cooperation



Farmers + coordination

Community of Members

WHO?

You – stakeholders with high interest in the topic and/or influence + experts with knowledge and experience (Academia, Civil Society, Public Sector and Private Sector)

WHY?

We want to bring together all relevant and knowledgeable parties to hold a conversation on what needs to change and how can we change it?
Recommendations!

WHAT?

2nd vision workshop at River-Basin level

WHAT DO YOU HAVE TO DO?

Participate and discuss – actively tell us what you think!

Our Farmers



Local Nutrients. Lower Costs. Higher Value!



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