

**Interreg  
Europe**



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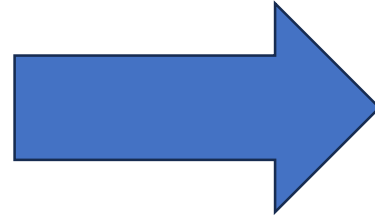
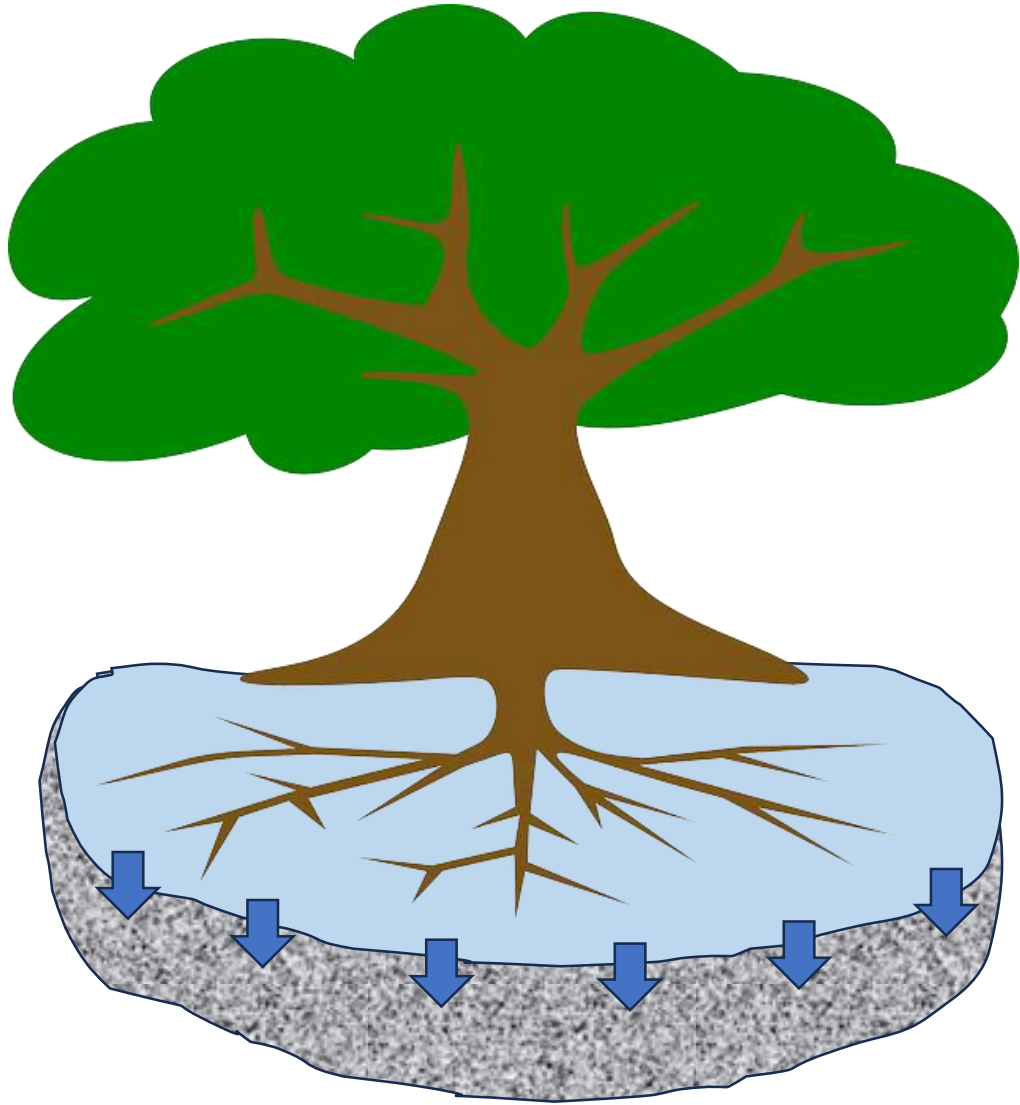
**GEMS**

# **GEMS PROJECT**

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April 23<sup>rd</sup> – 24<sup>th</sup>, 2024

# IRRIGATION WITH SALTY WATER



# SITUATION IN THE REST OF EUROPE

- Europe exceeds the nitrogen leakage limit by >3 times (European Environment Agency)
- Some EU countries report poor-water-quality in their territory due to agriculture.
- A high level of nitrate makes water unsuitable as drinking water.
- Eutrophication in rivers and sea waters is the more and more frequent.
- The Nitrates Directive requires EU Member to monitor the quality of waters and to identify areas that drain into polluted waters or at risk of pollution.

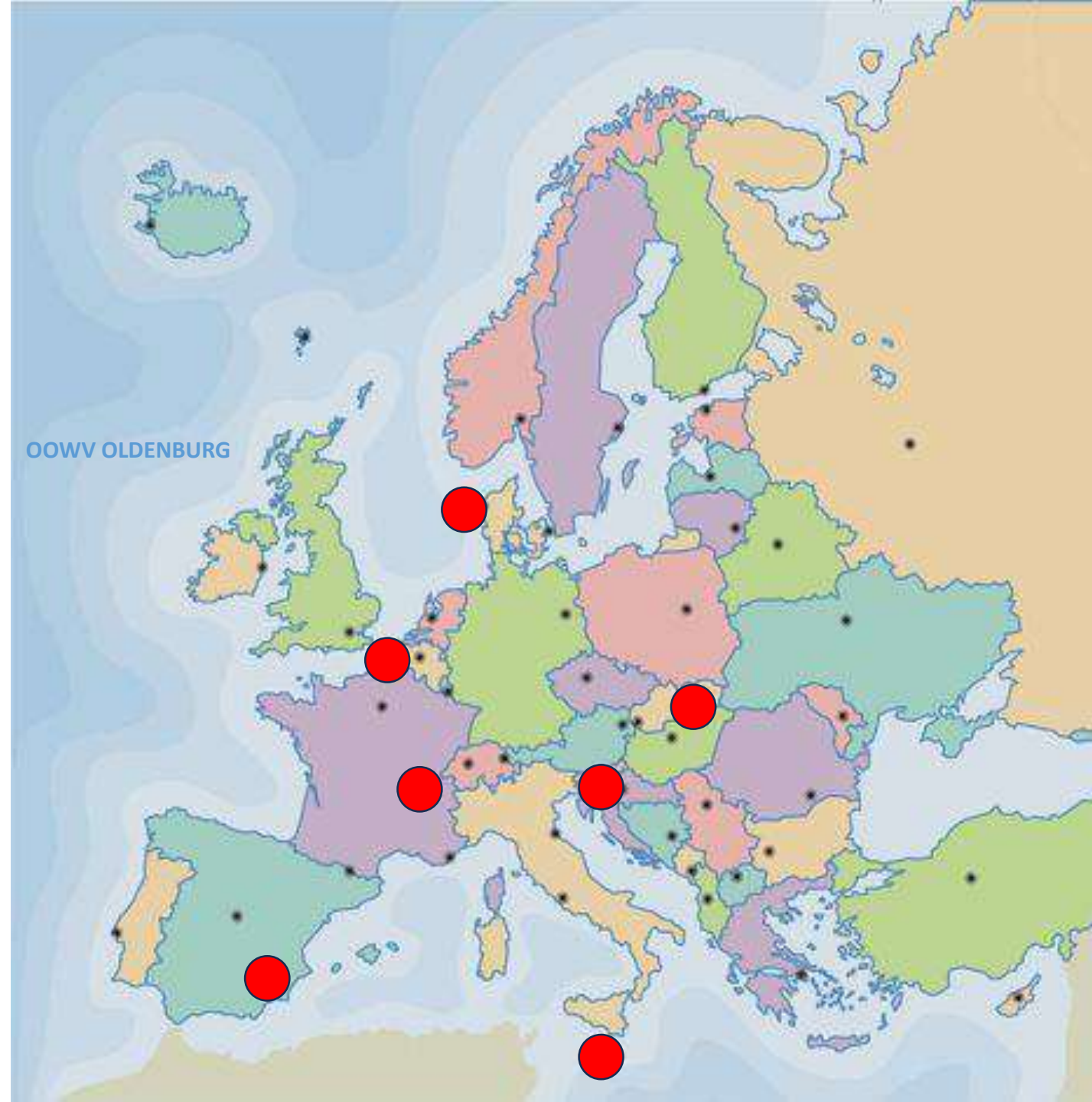
# GEMS – INTERREG EUROPE PROGRAM

## GOALS:

- Improve Policies regarding sustainable groundwater management polluted by high level of nitrates from agricultural sources.
- Implementation of more effective nitrate detection systems that allow the polluter to be predicted and identified.
- Study decontamination methods, possible barriers...

# PARTNERSHIP

- LP1 –Murcia (DG Water) (SPAIN)
- AP2 – IGME (SPAIN)
- PP3 – EWA (MALTA)
- PP4 - the Danis Environmental Protection Agency (DK)
- PP5 - Water Research Institute (SLOVAKIA)
- PP6 - Ministry for Agriculture, Forestry, Regions and Water Management. Federal Agency for Water Management (AUSTRIA)
- PP7 - Grand Est Regional Council (FRANCE)
- PP8 - Flemish Land Agency (BELGIUM).



# GEMS PROGRAM

## STATE OF ART

- Identify the scratch point in every region

## BEST PRACTICES

- Identify the Best Practices (BPs) in every region supported their Regional Stakeholders

## MATCHING

- The partners study the foreign BPs
- Consultation about BPs with the Regional Stakeholders

## ACTIONS

- Carry out resulting actions in every región.

# EXPECTED RESULTS OF GEMS

1. Improve policies to reduce the nitrate agricultural pollution
2. Set a transparent System to prevent and monitoring the pollution
3. Invest in:
  1. Systems nitrates detection
  2. Agriculture of precision.
  3. Possible barriers
  4. Methods for decontaminating affected water bodies

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**Thank you!**