

# Water Stewardship and Multifunctional Measures: More than Water alone



# Going one step further...

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**Water Stewardship goes further:**

Volume  Impact  **RESPONSE**

**RESPONSE through:**

- Guidance
- Positive Incentives
- Fines / Penalties (regulations / pricing / law)



**Together in the same direction**

# ... with the right tools!

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A **standard** to change behavior  
towards Sustainable Water Management (SWM)

- Support legal processes
- Initiate private actions
- Minimize the impacts on watershed level

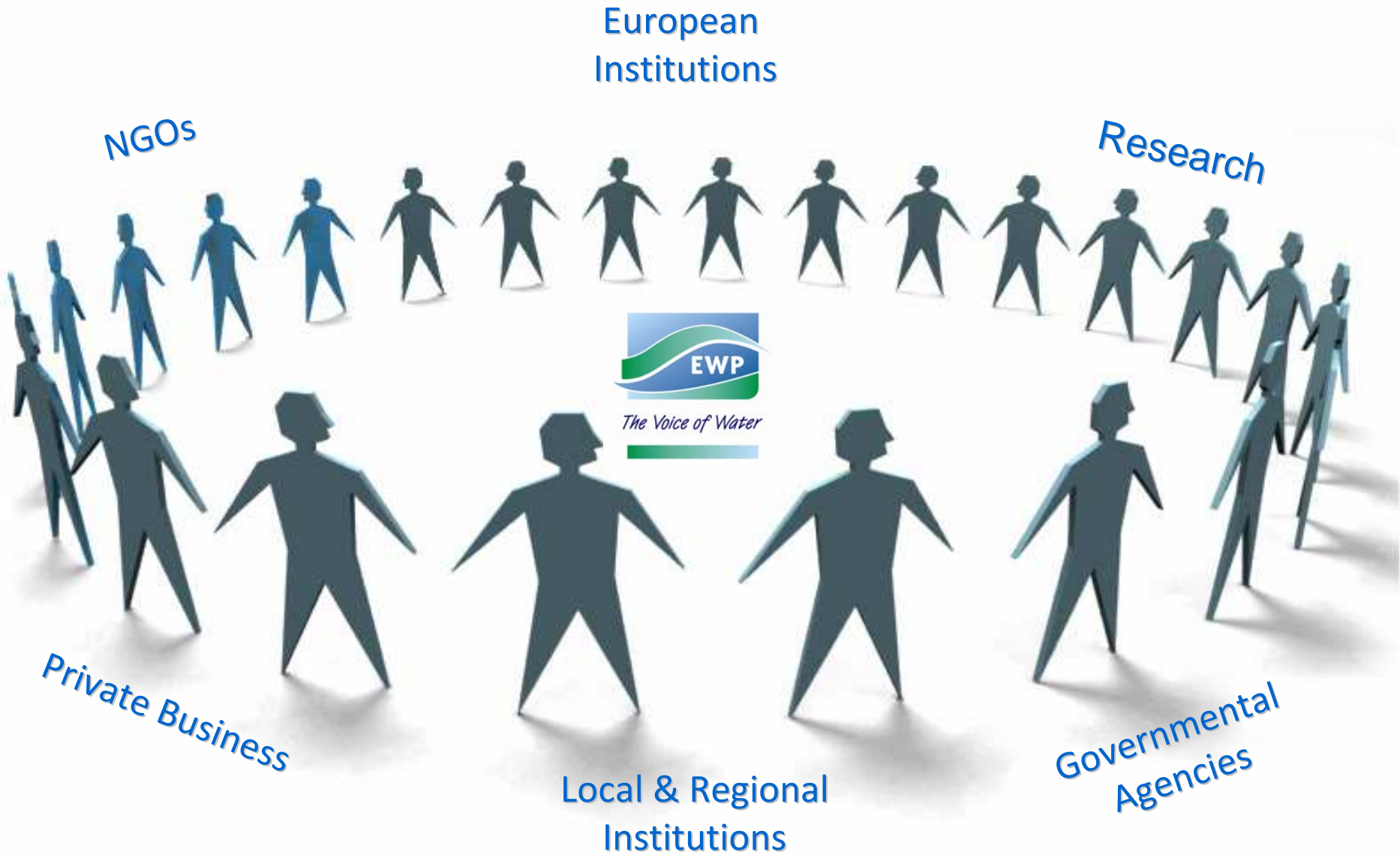
A **voluntary scheme** for and from water users

- Definition of requirements for SWM
- Objective scheme to assess the sustainability
- Communicate and award sustainable performance

A **global framework**

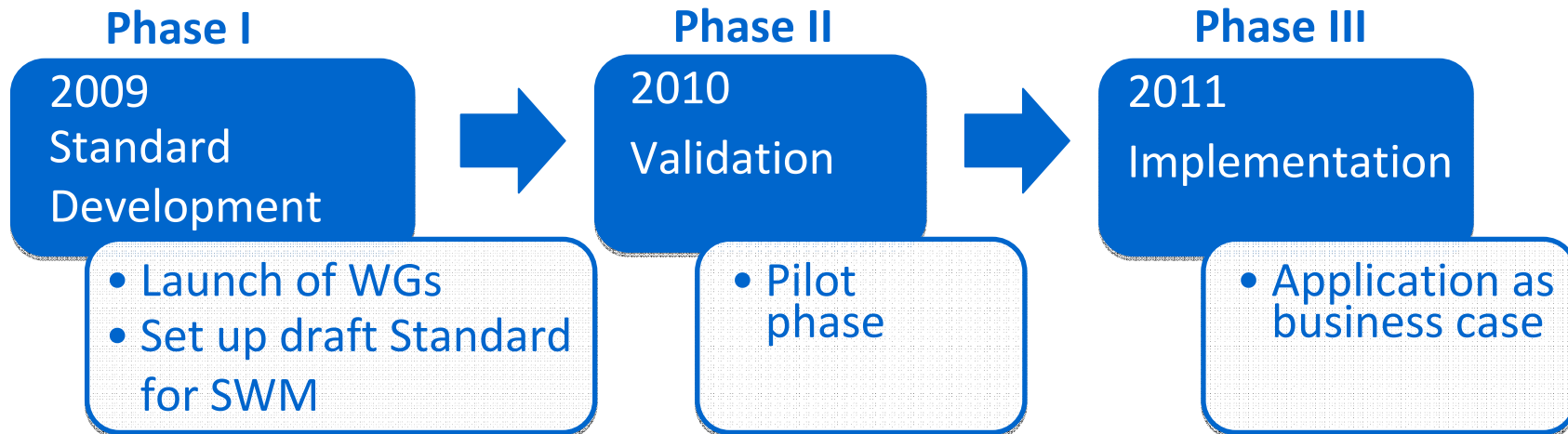
- Connect and relate European and global processes
- Avoid the “carbon situation”

# EWP as a platform



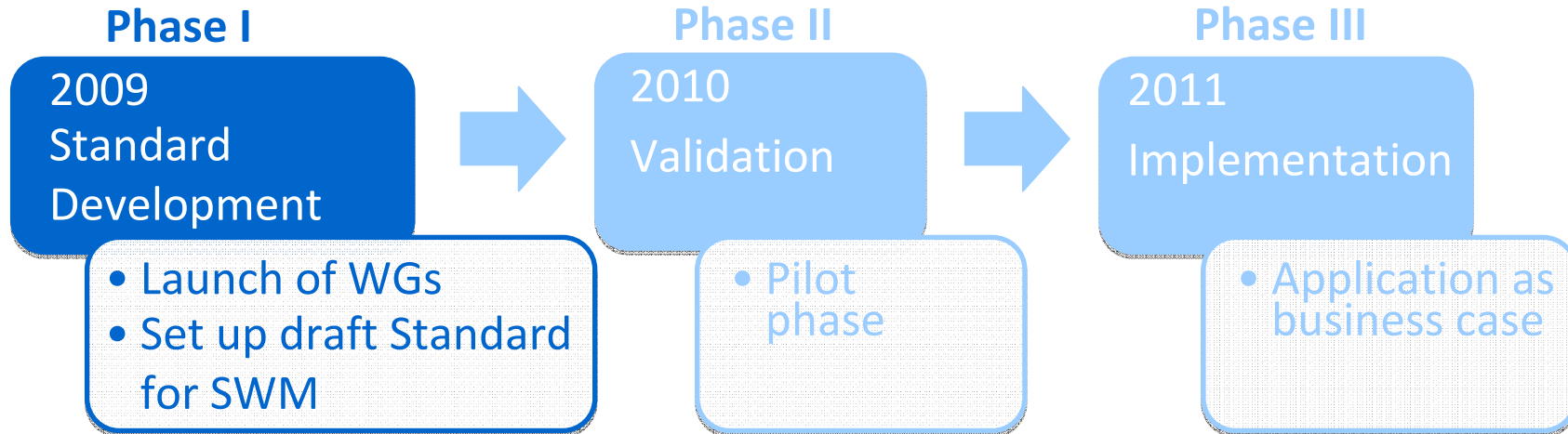
# Water Stewardship Program

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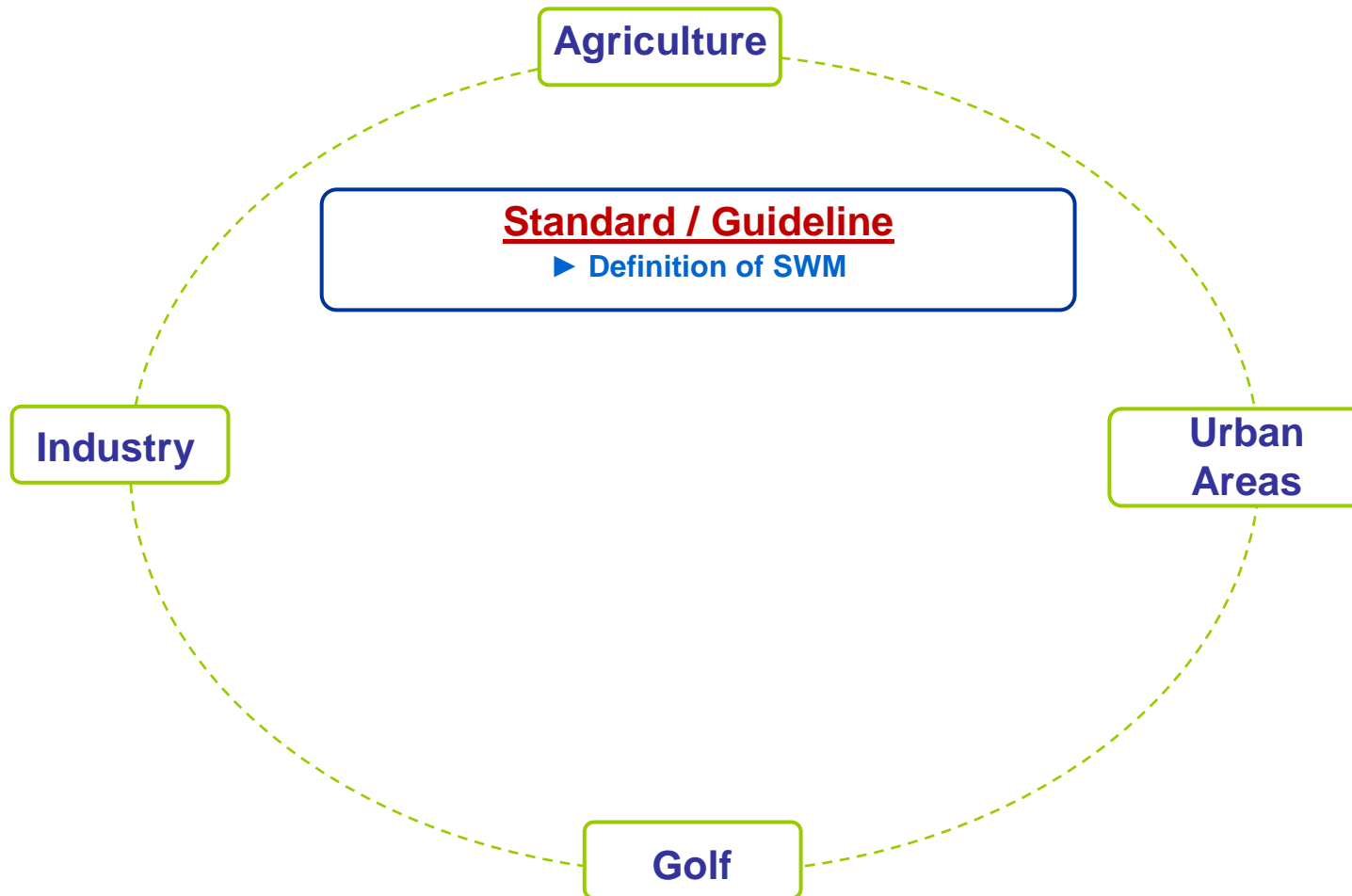
# Water Stewardship Program

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# Program Phase I: Standard for SWM

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# Program Phase I: Standard Development

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**Technical assessment** is basis but **Water is more!**

⇒ **Impact-based approach** is required

## **1 Standard** for all sectors: 4 Principles

**Principle 1:** Sustainable water abstraction

**Principle 2:** Good water status (chemical and biological)

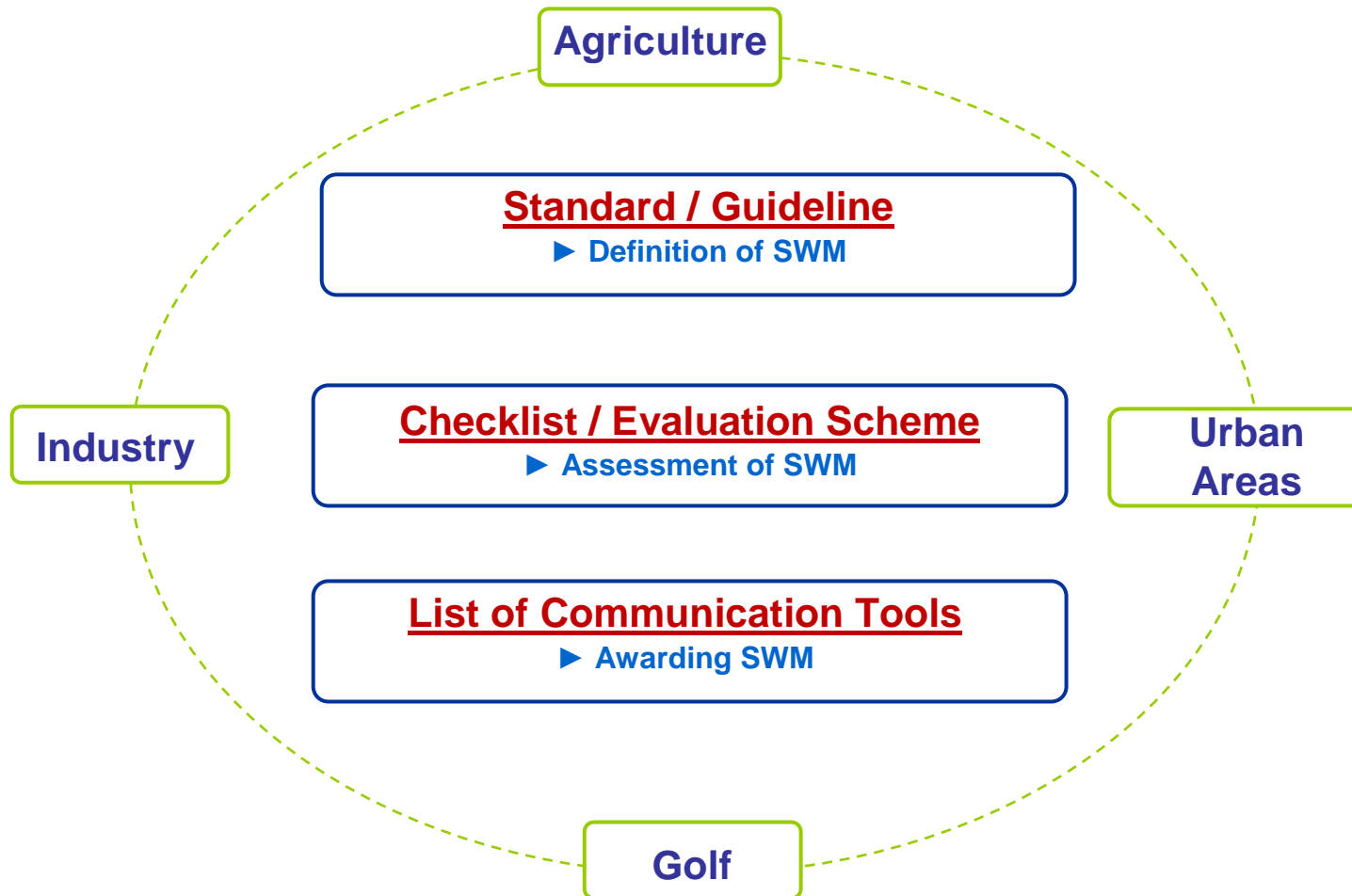
**Principle 3:** Water-cycle related high conservation values (HCV)

**Principle 4:** Equitable and transparent water governance.



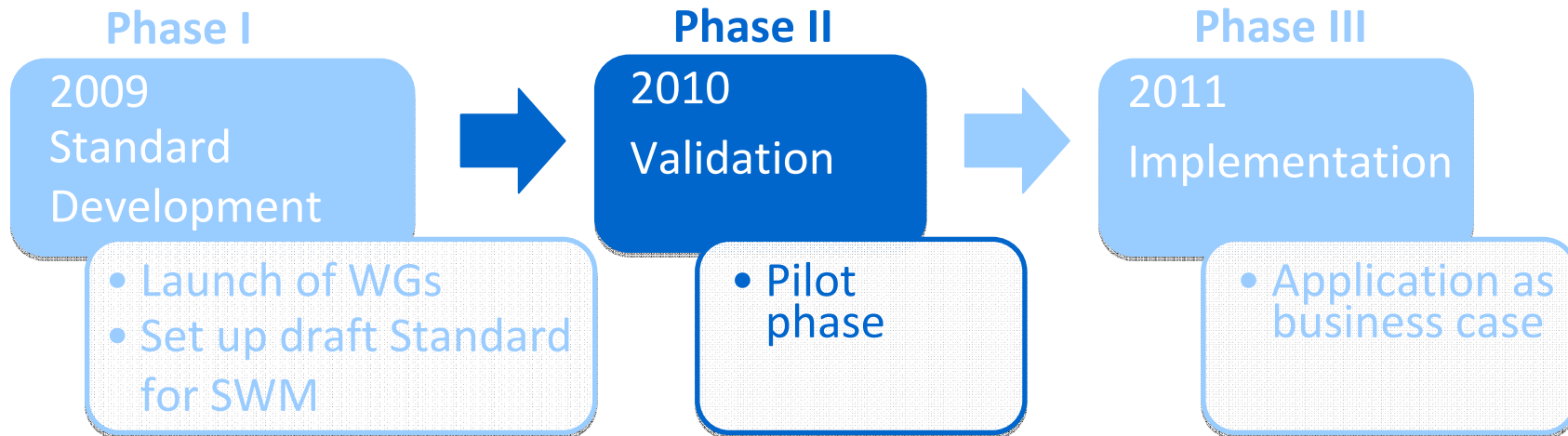
# Program Phase I: Water Stewardship scheme

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# Water Stewardship Program

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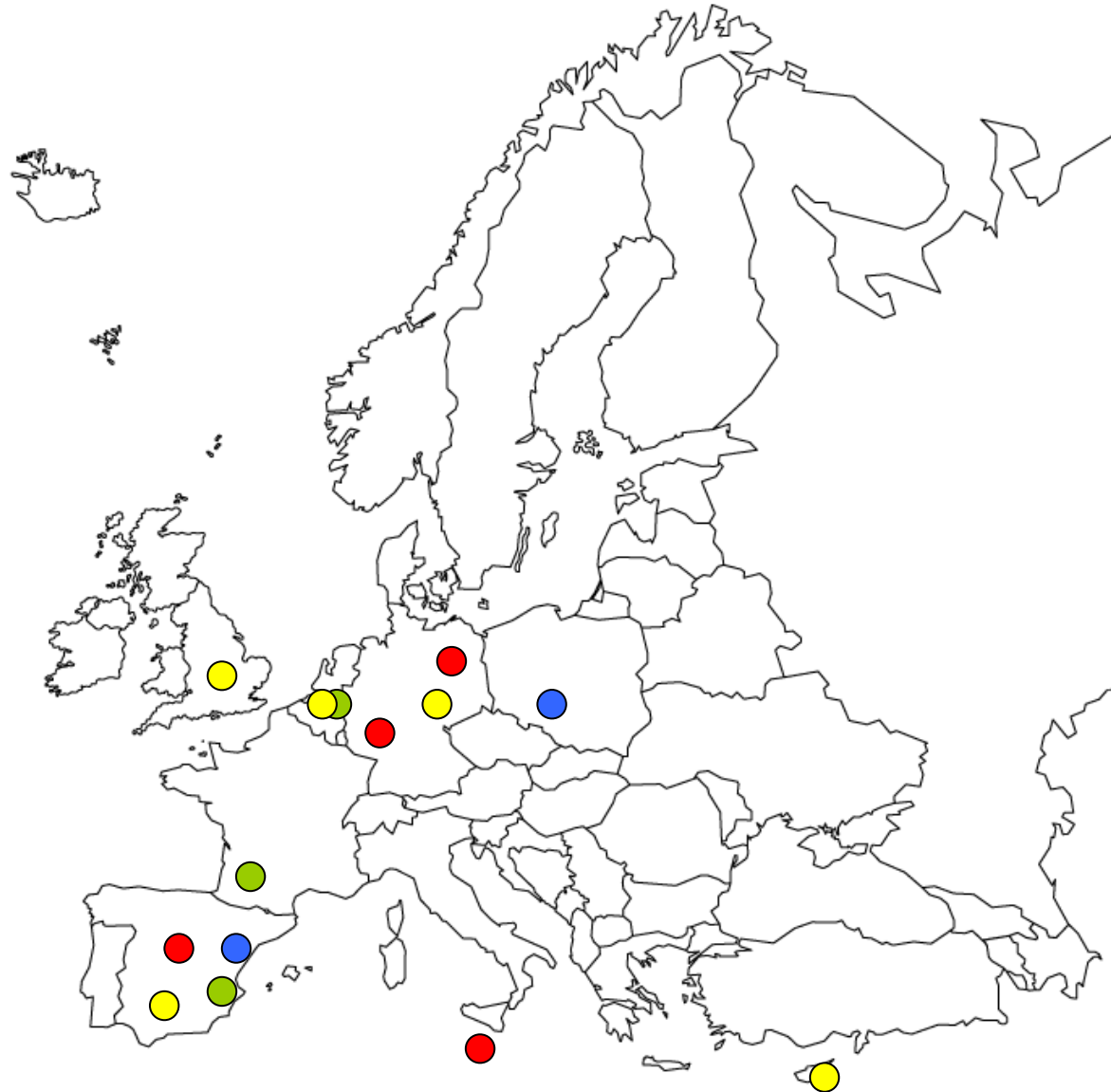


# Program Phase II: Current Status

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Pilot organizations:

- Industry
- Agriculture
- Golf
- Urban Areas



# Agriculture: Pilot Study 'Allerton Project'

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## **Operation**

- Research farm, Game & Wildlife Conservation Trust
- Investigate environmental stewardship schemes that:
  - Protect biodiversity
  - Improve water management

## **Multifunctional measures**

- Buffer strips
- Integrated pest management
- Retention areas at drainage outlets







# Golf: Pilot Study 'El Plantío'

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## Operation

- Golf course, Southeast Spain
- Highly water-scarce area (abandoned farmland, bare soils, etc.)
- Only use recycled municipal waste water, water harvesting
- Optimized and efficient irrigation system
- Pro-active cooperation with local universities (biodiversity monitoring)

## Multifunctional measures

- Irrigation ponds and buffer strips
- Cultivation of the soil
- Regional, drought-tolerant plant species

### → Observed **impact on biodiversity**:

1990: 42 animal species observed

2008: 114 animal species observed

} 72 new species



# Industry: Pilot Study 'BASF Ludwigshafen'

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## **Operation**

- Chemical production plant
- Rhine river basin (>1000 km)
- Biodiversity related measures less direct

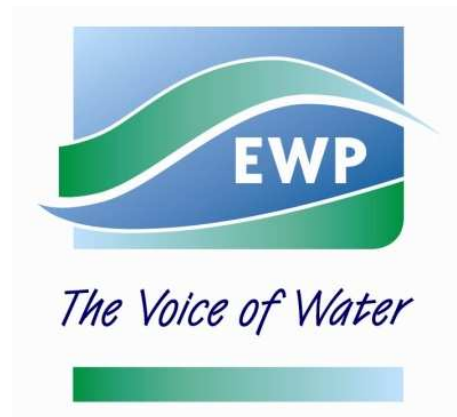
## **Principle 3: Protection of HCV areas in vicinity of the operation**

- Identify and map HCV areas
- Investigate possible impacts of the operation's water management
- Define protection and restoration goals

## **Potential multifunctional measures for industry**

- Constructed wetlands





Contact and information

[www.ewp.eu/activities/water-stewardship](http://www.ewp.eu/activities/water-stewardship)

and

**Dr Sabine von Wirén-Lehr**

Program Coordinator

European Water Partnership (EWP)

E-mail: [s.von-wiren-lehr@ewp.eu](mailto:s.von-wiren-lehr@ewp.eu)