

# EU Partnership Instrument Rural Water and Food Security (PI RURAL)

FUNDING ALIGNMENT ROUND TABLE

LARS SKOV ANDERSEN  
CHINA RESOURCES MANAGEMENT



Rural Water and Food Security  
An Action supported by the European Union



# Status

- **RE-THINK**
- **RE-ANCHOR**
- **RE-NEW**



# Potential projects

1. **Water saving and food security under climate change**
2. **Sustainable manure management**
3. **PPP on grey-green solutions for nutrient retention in rural areas**
4. **Digital Rural Water Platform**
5. **Digital River Basins**



# P1: WATER SAVING AND FOOD SECURITY UNDER CLIMATE CHANGE (WASAFOSEC)

## OBJECTIVE

- Resolve contrasting approaches to water saving under climate change

## OUTCOMES

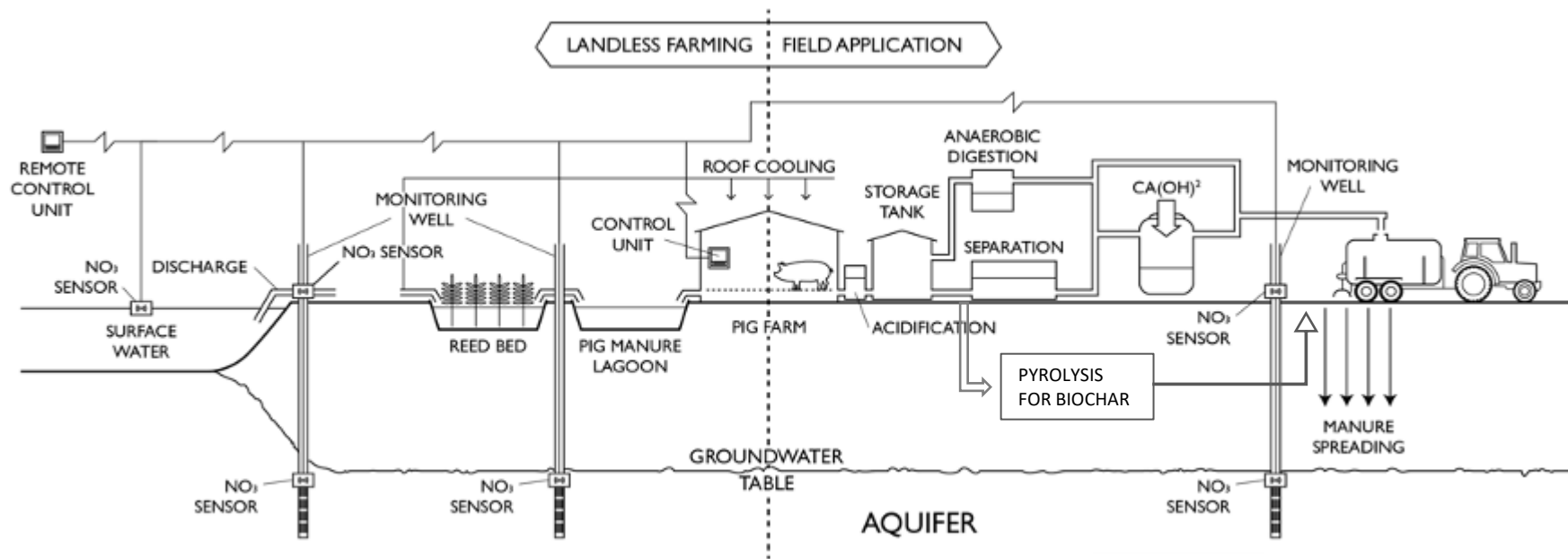
- Clear policies distinguishing urban water saving and SDG6 in rural areas
- Clear policies on water saving in agriculture versus increased food security
- Climate impacts of irrigation and virtual water export

## CEWP

- In line with the Chinese priorities for a CEWP Flagship project:  
*Drought risk assessment and management of key drought prone food production regions under climate change*



# P2: Nutrient Management in Pig Slurry NUMAPS



# P2: Nutrient Management in Pig Slurry

## NUMAPS

### OBJECTIVE

- Sustainable pig manure management reducing water pollution, mitigating climate change and improving farm economy

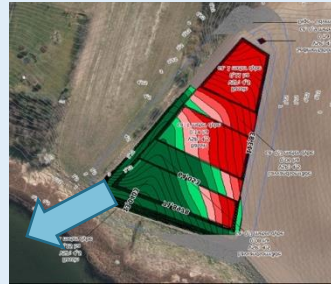
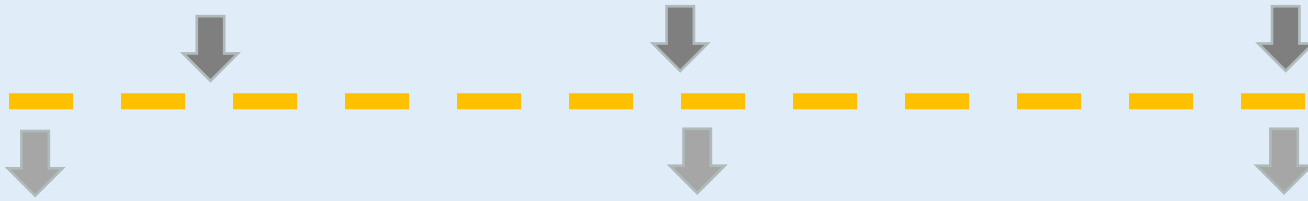
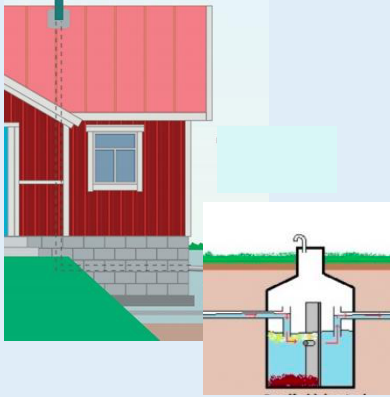
### OUTCOMES

- Increased energy efficiency of manure processing
- Reduced risk of spreading of pathogens to crops and water bodies
- Reduced chemical and nutrient pollution of water bodies
- HEU CALLS
- CL6-2021-ZERO POLLUTION-01-03: EU China Int. Coop. on NBS for nutrient management
- CL6-2021-ZERO POLLUTION-01-10: Improved bioremediation and revitalisation strategies for soil, sediments and water



# P3: Public Private Partnership for Grey-Green Solutions for Nutrient Retention in Rural Areas (PANURA)

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# P3: Public Private Partnership for Grey-Green Solutions for Nutrient Retention in Rural Areas (PANURA) - 1

## OBJECTIVE

- Promote and test WFD legislation that enables Public Private Partnerships for integrated catchment-based grey-green solutions retaining nutrient run-off from agricultural land and domestic wastewater in rural areas

## OUTCOMES

- Legislation legalising nature- and catchment-based solutions for retention of nutrients in run-off and drainage water in rural areas
- Valuing and harvesting the benefits of ecosystem services
- Reduced climate impacts
- Lower societal costs of construction, operation and maintenance

## HEU calls – Next slide





## **P3: Public Private Partnership for Grey-Green Solutions for Nutrient Retention in Rural Areas (PANURA) -2**

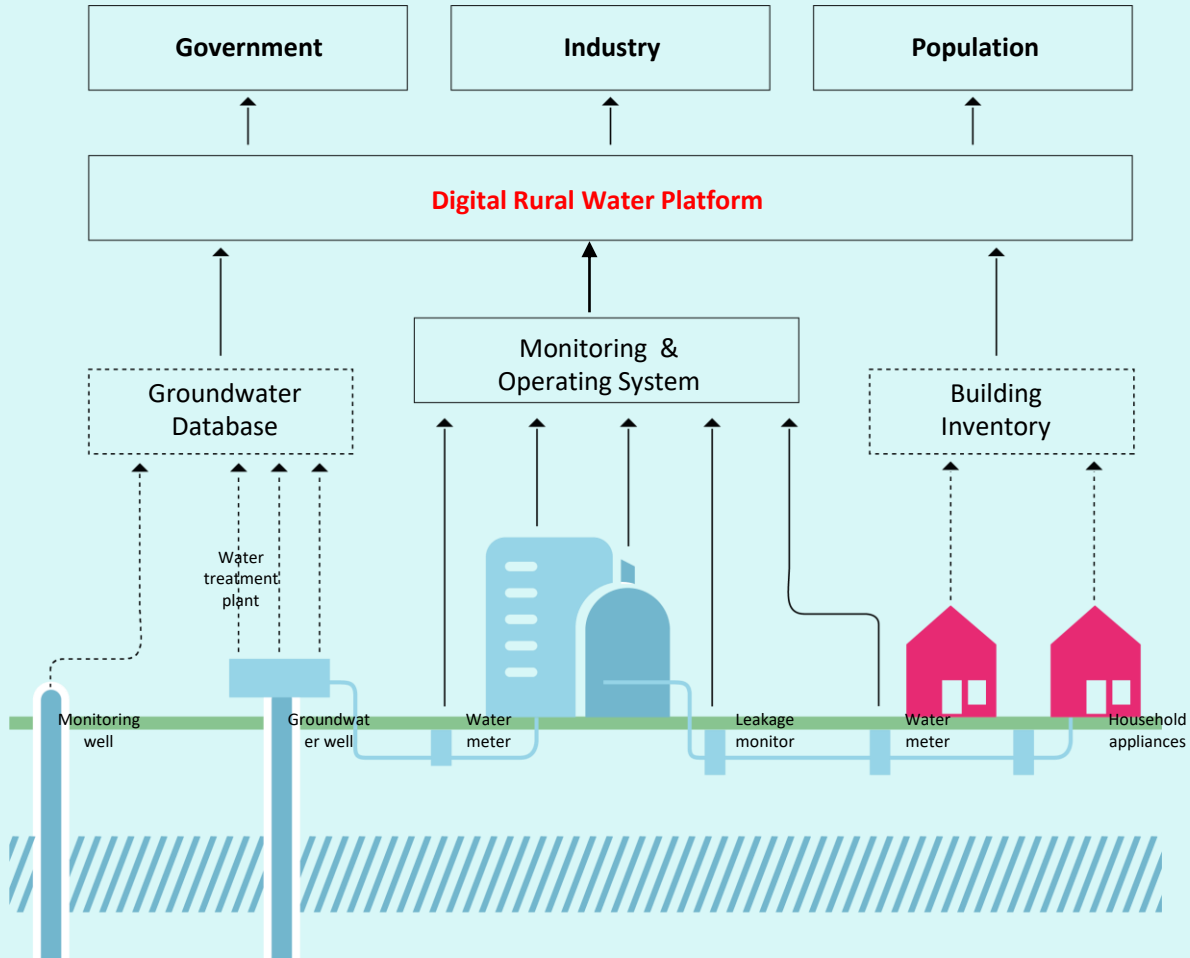
### HEU CALLS

- **CL5-2021-D1-01-08: Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits**
- **CL6-2021-CIRCBIO-01-07: Mainstreaming inclusive small-scale bio-based solutions in European rural areas**
- **CL6-2021-ZEROPOLLUTION-01-01: Regional nitrogen and phosphorous load reduction approach within safe ecological boundaries**
- **CL6-2021-GOV-01-08: Innovative governance models to achieve better informed decision-making processes, social engagement and innovation**



# P4: Digital Rural Water Platform (DRUWAPP)

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# P4: Digital Rural Water Platform (DRUWAPP)

## OBJECTIVE

- Digitisation(IoT) of the groundwater value chain enabling sustainable use of groundwater water resources and safe water supply

## OUTCOME

- Real-time information from aquifer to household available as decision support to government, agriculture, industry and households

## HEU CALL

- CL5-2021-D1-01-08 Restore natural wetlands, peatlands and flood plains ...
- CL6-CLIM-2021-01-01 Land, oceans and water for climate: Improved understanding, observation and monitoring of water resources availability



# P5 - Digital River Basins (DRIBAS)

## Objective

- Develop and test robust IoT sensors
  - River flow
  - Dissolved oxygen
  - Nutrients
  - Pesticides
- Enable on-line and real-time data collection, transmission and storage

HEU:

CL5-2021-D1-01-08 Restore natural wetlands, peatlands and flood plains ..





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**Thank You**

**谢谢**



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