



Project funded by the European Union

SWIM (Sustainable Water Integrated Management) - Demonstration Project



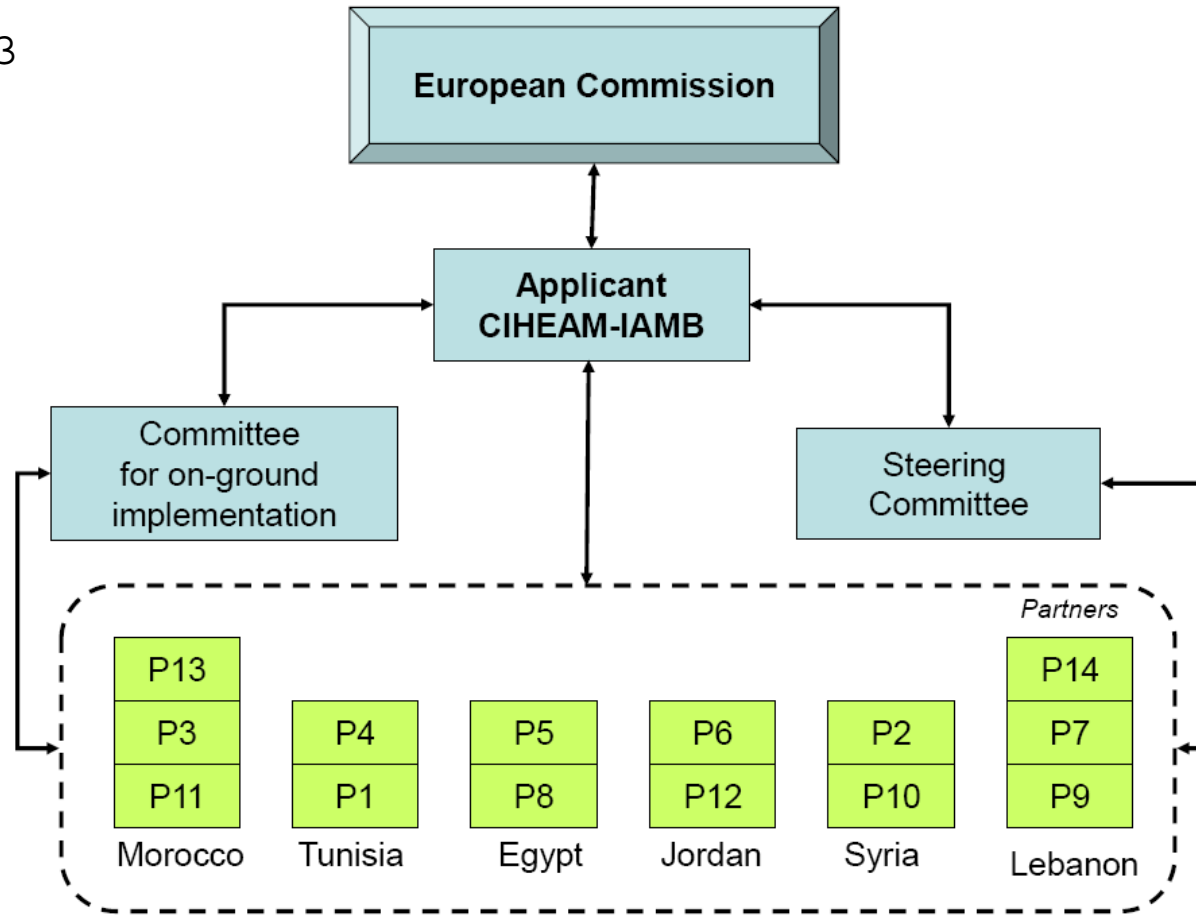
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Lebanese Agricultural Research Institute - LARI

Association of The Friends of Ibrahim Abd El Al - AFIAL

SWIM-SM Media Session, Lebanon, 14st May 2012

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P7 Lebanese Agricultural Research Institute (LARI), Lebanon

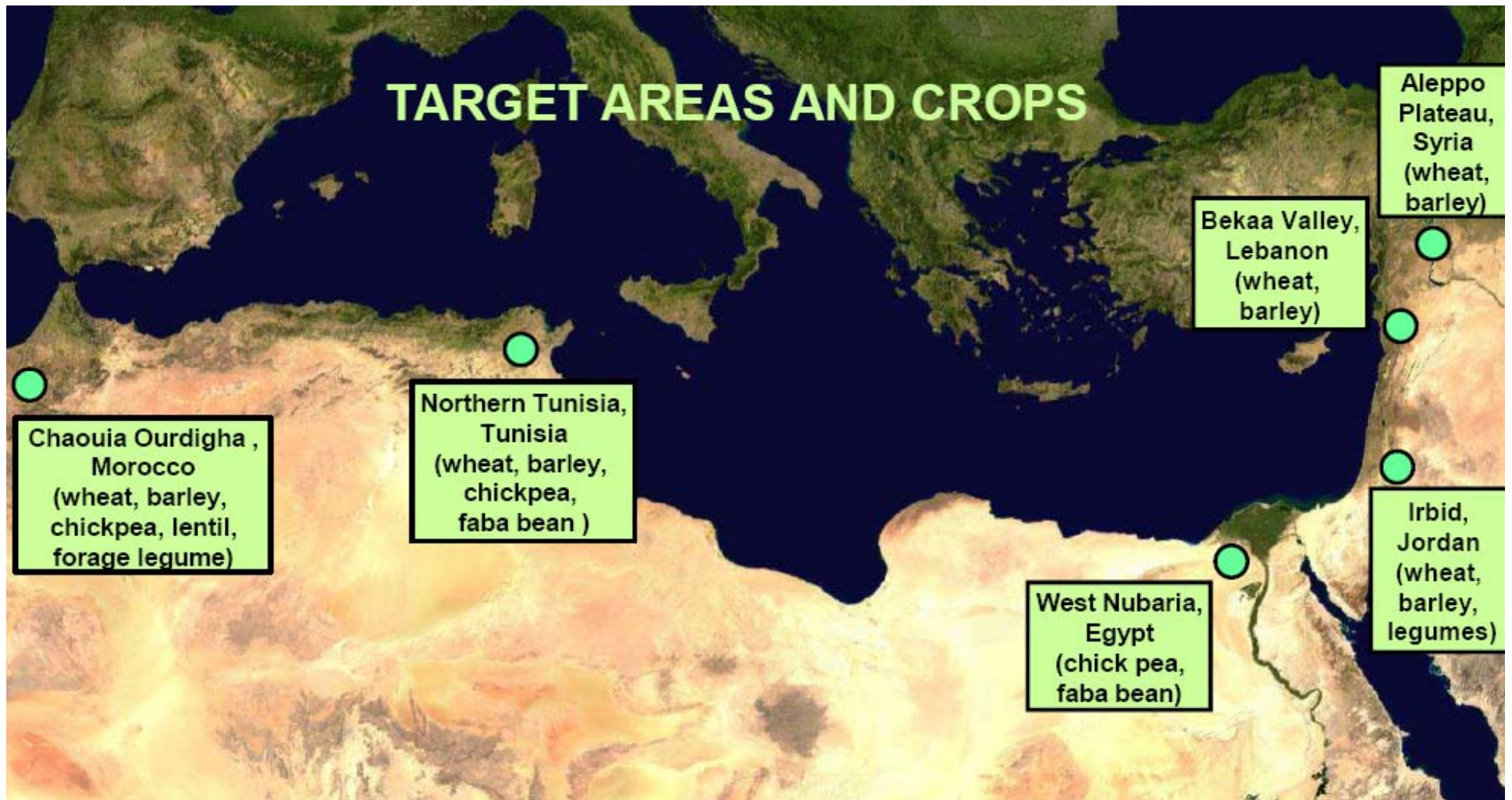
P9 Consiglio Nazionale delle Ricerche - Istituto per i Sistemi Agricoli e Forestali del Mediterraneo (CNR-ISAFOM), Italy

P14 Association of the Friends of Ibrahim AbdeI Al (AFIAL), NGO, Lebanon



## OVERALL OBJECTIVE

To bring a **durable improvement** in the agricultural water management and a broader **socio-economic development in target areas** in the context of **adaptation to climate change**, increasing water scarcity, and desertification risk.



## Target area : Bekaa valley

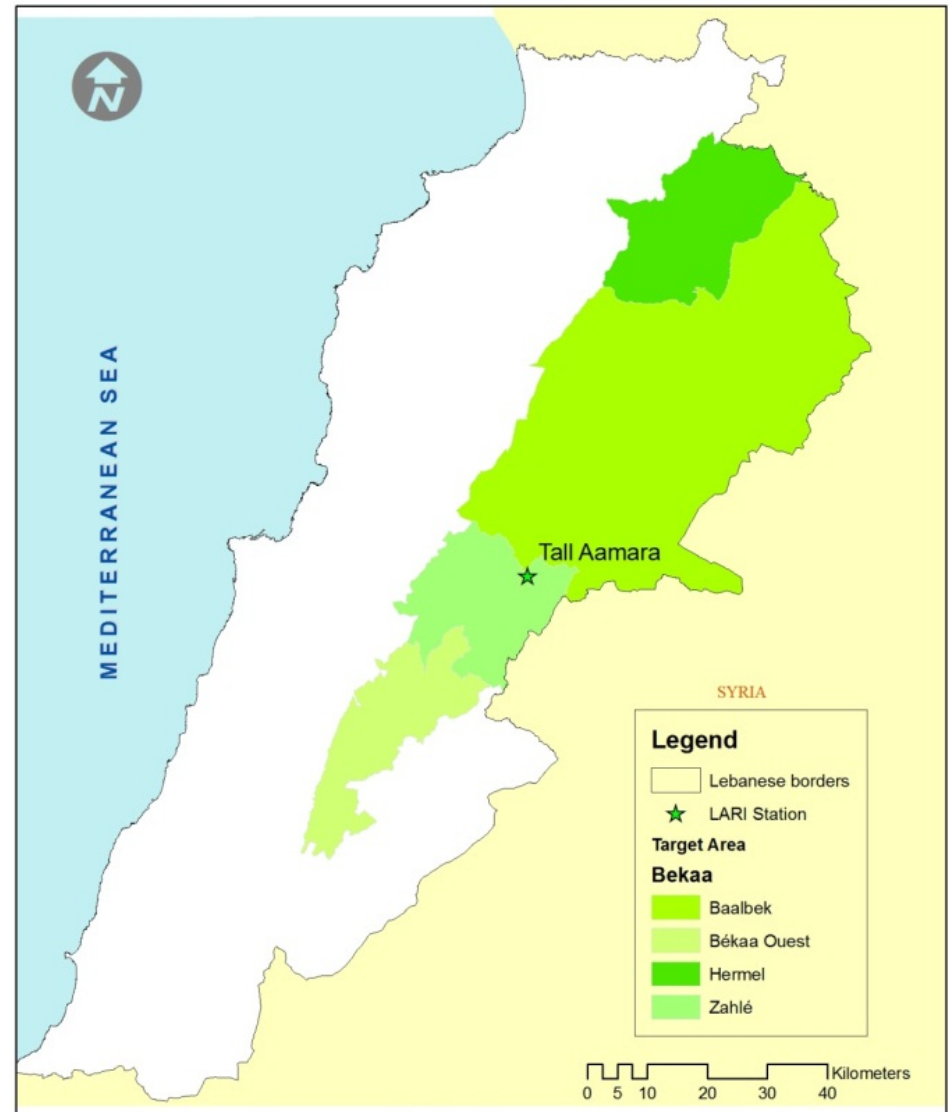
- Northern plains  
scarce rainfall  
less fertile soils
- Central and Western plains  
adequate rainfall  
more fertile soils
- Constraints to cereal growth  
and yield

WATER

TEMPERATURE

Unfavorable distribution

Year-to-year fluctuations of rain



ADMINISTRATIVE DISTRIBUTION OF THE TARGET AREA

## ACTIVITIES

### 1. To demonstrate the applicability of selected **combinations of wheat/barley varieties and water management practices** at demonstration fields

- Two years of demonstration work on cereals at LARI
- at least 48 combinations of varieties and water management practices (supplemental irrigation, sowing time, conservation tillage) will be tested
- Sorting of the best genotypes–water management combination prone to climate change



## ACTIVITIES

**2. To adapt/stabilize agricultural production** through large scale **on-ground implementation** of the best performing genotypes and water management practices;

- In collaboration with local communities/farmers
- Implementation area: **Central, Northern** and **Western Bekaa** (20 ha for the first year)
- Farmers fields: existing practices versus suggested practices

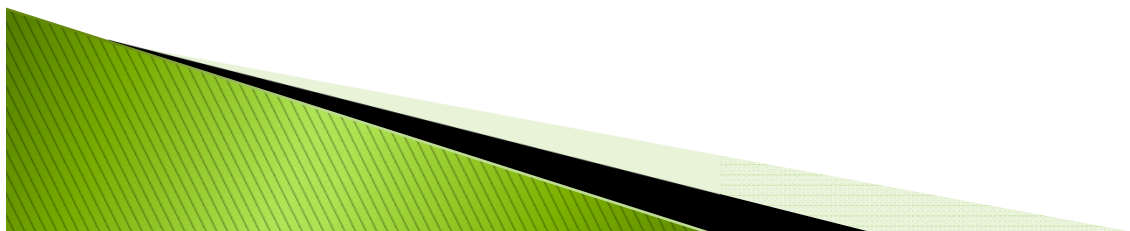


## ACTIVITIES

**3. To evaluate the on-ground sustainability of the economic, social and environmental farm level**

- **Identify the key indicators of sustainability**
- **Collect data on the indicators**
- **Analyze the data and report the results**

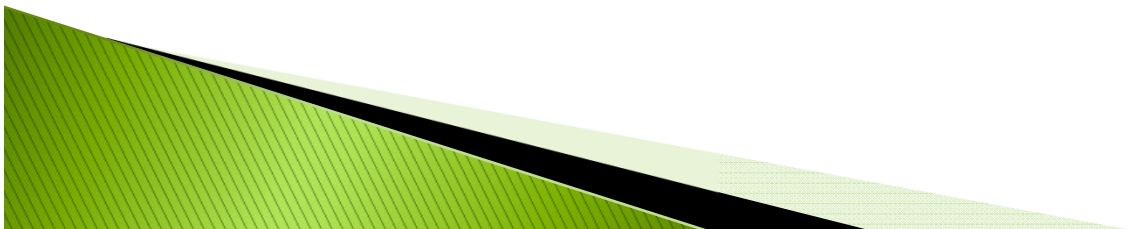
Before and after implementing the action



## ACTIVITIES

### 4. To disseminate the results of the action

- ❑ 4 training courses
- ❑ 100 farmers trained
- ❑ 10 field (demonstration) days
- ❑ 30 minutes of video material made during the demonstration/implementation work
- ❑ 4 thematic brochures distributed for local communities
- ❑ 2 guideline documents on Cereals growing in arid and semi-arid Mediterranean areas
- ❑ 1 seminar
- ❑ a dedicated web-page: [www.aclimas.eu](http://www.aclimas.eu)





- **TARGET GROUPS**

Farmers, growers, breeders, policy makers, water/irrigation managers, local seed companies, agricultural advisers.

- **FINAL BENEFICIARIES**

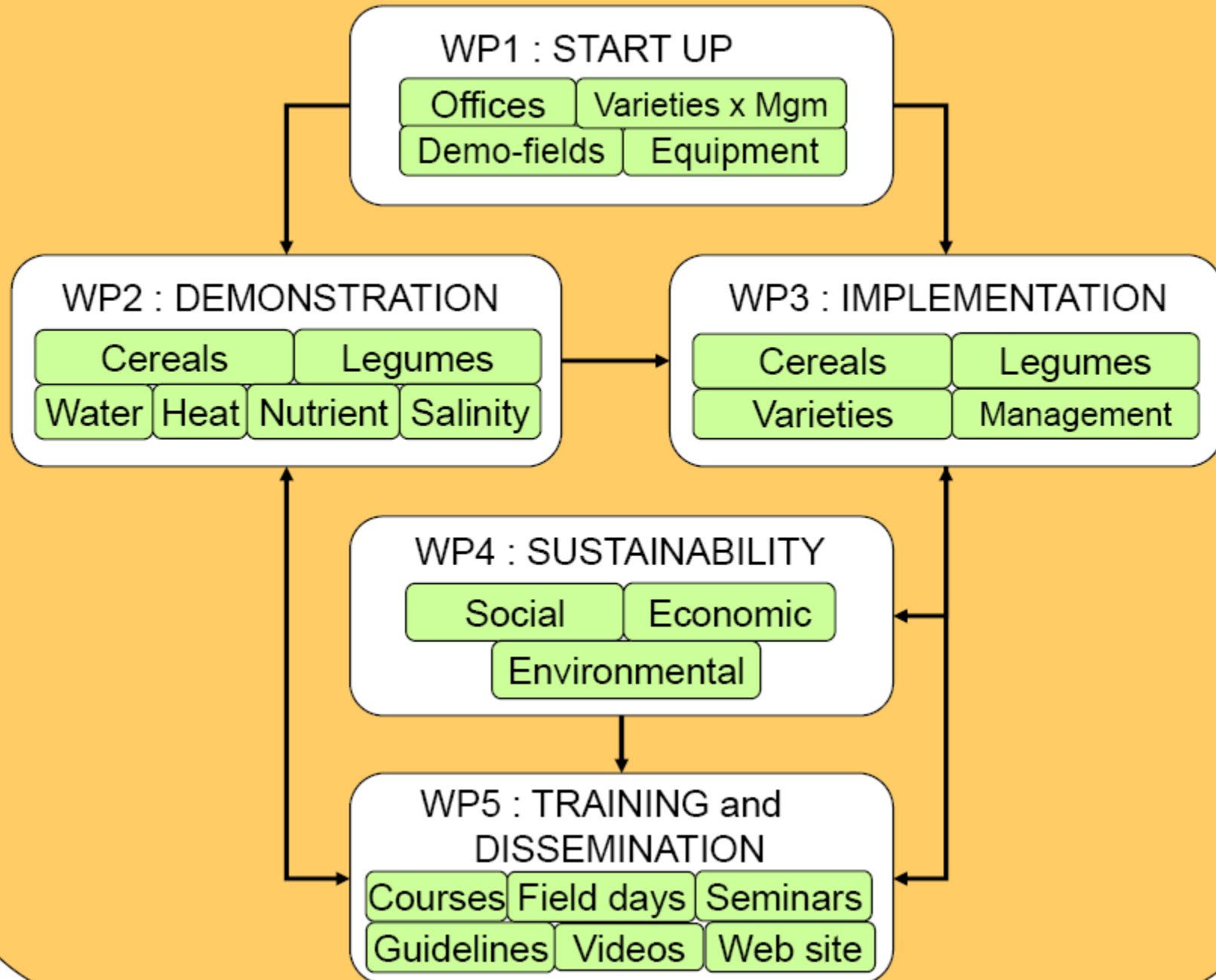
All rural society, local farmers communities and associations, water user's associations, governments, environment

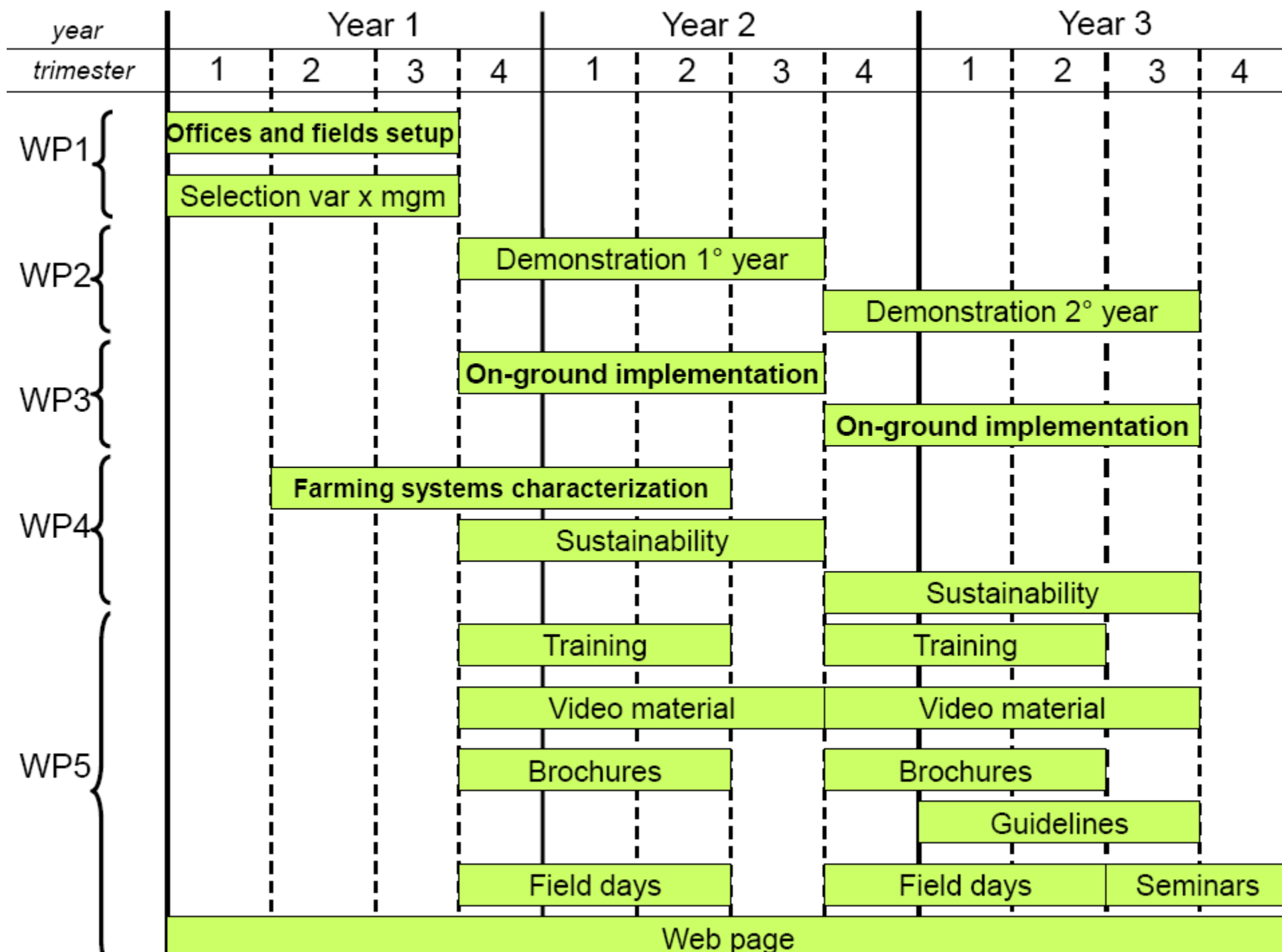
- **ESTIMATED RESULTS**

Improved water productivity in agriculture and more stable agricultural production



# PROJECT MANAGEMENT





*Thank you*



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