EIP-AGRI Workshop 'Connecting innovative projects: Water & Agriculture'

30 – 31 May 2018
Almeria, Spain

All information of the workshop available on www.eip-agri.eu at the event webpage

https://ec.europa.eu/eip/agriculture/event/eip-agri-workshop-connecting-innovative-projects

EIP-AGRI Workshop 'Connecting innovative projects: Water & Agriculture'

DAY 1 – WEDNESDAY, 30 MAY 2018

9:00 – 9:30 Welcome and introduction

- Concepcion Cobos, General Secretary of European Agrarian Funds, *Andalusia Regional Ministry of Agriculture*
- Anikó Seregélyi, *European Commission, DG Agriculture and Rural Development*

9:30 – 10:45 Setting the scene

Part 1: The Framework
Policy background and European Innovation Partnerships

- Gerard Shortle, *European Commission DG Environment*
- Anikó Seregélyi, *European Commission, DG Agriculture and Rural Development*
- Carlos Mario Gomez, representative of *EIP Water*

Part 2: The Projects
Interviews with EIP-AGRI Operational Groups, H2020 research, EIP-Water Action Group, LIFE and INTERREG project representatives

Part 3: The Discussions
Main outcomes of Focus Groups at European and National level

- **Helena Gomez Macpherson, coordinating expert of *EIP-AGRI Focus Group: Water & agriculture: adaptive strategies at farm level***
- Raquel Bravo Rubio, coordinator of *Spanish Focus Group on Water management, energy and environment*

10:45 – 11:15 Coffee break

11:15 – 13:00 Interactive exhibition of projects
Meet and learn about Operational Groups, H2020 research, EIP-Water, LIFE and INTERREG innovative projects

13:00-14:00 Lunch

14:00 Departure for field visits

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Overview of EIP-AGRI Focus Group "Water & Agriculture: adaptive strategies at farm level"

Helena Gómez-Macpherson
Coordinating Expert
Institute for Sustainable Agriculture
IAS, CSIC, Córdoba, Spain

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Focus Group "Water & Agriculture: adaptive strategies at farm level"

EIP-AGRI FGs: tackling agricultural challenges

Climate change ➔ water scarcity becomes a global European problem

Q: What <u>farm level</u> adaptation strategies exist or can be developed to deal with water scarcity?

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AGRICULTURE & INNOVATION

19 members

Researchers, Farmers, Advisors

Germany	1A
Belgium	1A/F
Spain	2R; 1A
Greece	1R/F; 1R/A
The Netherlands	1R
Hungary	1R/F
Italy	2R; 1R/A
Lithuania	1A
Poland	1A
Portugal	1A; 1R
United Kingdom	2A
Sweden	1A

June 2015 – September 2016

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INVENTORY what is available?

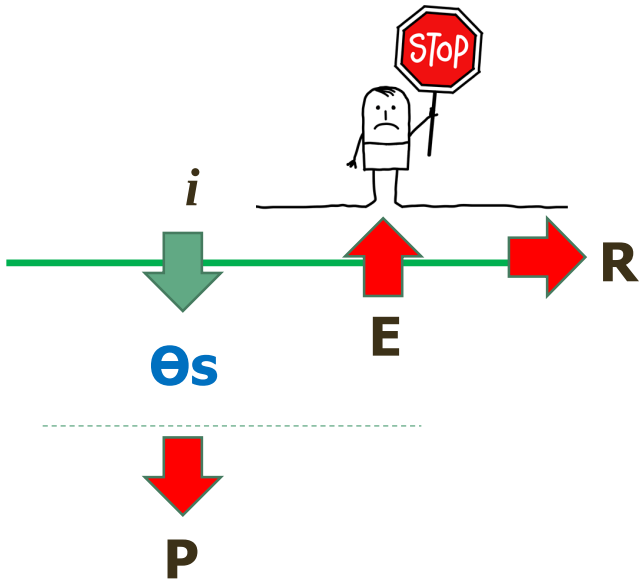
Farming management practices and strategies to **increase**...

1. available water for crops and livestock
   (🡻 losses; 🡹 stored water in soil and farm)
2. the efficient use of water, including irrigation efficiency
3. farm resilience under water scarcity

Name of practice/strategy	Agronomic aspects	Economic aspects	Environmental aspects	Success factors	Fail factors	Applied in:

1) Which strategies at farm level increase water availability ?

How to reduce water losses?



- Conservation Agriculture
- Mulch
- Early ground cover

  ↑ *i* (P) ↓E,R
- Subsoiling if hardpan

  ↑ *i* (P) ↓R
- Effective weed control

  ↑θs

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1) Which strategies at farm level increase water availability ?

How to increase water supply ?

- Renovation of systems
- Use of waste-water
- New water sources
  - rainwater harvest
  - drainage harvest
- Controlled drainage

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2) Which strategies at farm level increase the efficient use of water?

Which management options will increase irrigation efficiency?

IRRIGATION SCHEDULING

- **Water balance**
  e.g. soil/crop sensors
- **Supplemental irrigation**
- **Regulated deficit irrigation**
- **DSS**

Water on demand
Cost *vs* water savings?
Complexity / autonomy?
Risks?

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General factors & barriers limiting adoption of (57/16) identified strategies

- Lack of
  - costs-benefits analysis for the adoption of strategies
  - clear evaluation of the impact of strategies on water conservation
  - local water productivity benchmarks for comparison
  - knowledge on long-term results and environmental effects of strategies in local conditions
- Weak or missing
  - institutional and policy support when significant training, technical advice or fine-tune research are required
  - Farmers' trust in knowledge providers
- Most public agricultural research focused in frontier knowledge rather than in practical issues

How to facilitate adoption?

- **PROVIDING BENEFITS TRANSPARENTLY**
  - water conservation, economic - environmental terms, short & long term
- **THINKING AND ACTING TOGETHER**
  - knowledge exchange among all actors
  - fine-tuning options, considering farmers' needs
  - training on complex technologies
- **"SEEING IS BELIEVING"**
  - representative demonstrations of field conditions
  - soil improvement long-term demonstrations
- **INVOLVING STAKEHOLDERS**
- **USING FRIENDLY TOOLS**
  - clear guides to facilitate use of complex strategies
- **PRODUCING/EVALUATING EFFECTIVE POLICIES**
- **THINKING OUTSIDE THE BOX!**

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MORE INFO IN:
EC.EUROPA.EU/EIP/AGRICULTURE

FINAL REPORT ALSO INCLUDES:

- **IDEAS FOR OPERATIONAL GROUPS**
- **RESEARCH NEEDS FROM PRACTICE**
- **NEW DEVELOPMENTS**
- **MINIPAPERS**

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THANK YOU!

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