GOOD-Agroecology for weeds: Building an Agroecological Weed Management Network

... FOR THE PROMOTION OF THE ADOPTION OF SUSTAINABLE WEED MANAGEMENT STRATEGIES

ALEXANDROS TATARIDAS & HELENA FREITAS
UNIVERSITY OF COIMBRA PORTUGAL

Agroecology for weeds - GOOD

SESSION 7: First steps into the agroecological transition

#AEEUForum2023
Let's talk about synthetic herbicides...

Farming systems are in need of alternatives to chemical inputs.

Glyphosate ban
Over-reliance
Harmful to biodiversity
Health effects
Degradation
Herbicide resistance
Air, water, soil pollution
OVERVIEW

- 20 partners
- 11 countries
- 9 annual crops
- 6 permanent crops
- Conventional, organic, mixed farming systems
- 32 combinations of AWM strategies
- 1 AWM repository for current weed management practices & herbicide use
- 1 training module on agroecology
- 1 AWM Toolbox
- Business models
- Policy recommendations
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**METHODOLOGY**

**Co-creation**
- Living Labs in annual & perennial crops, and in organic, mixed and conventional farming systems
- Repository of current weed management practices and herbicide use in EU and associated country agro-ecosystems

**Identification of needs**
- Barriers & challenges
- Perceptions & biases of farmers
- Weed biology & major weeds
- Current practices

**R&I activities**
- Agroecological weed management strategies
- Digital weed detection and removal tools
- Soil health indicators
- Use of microbes to increase cover crop performance and competitive ability against weeds
- Combinations of holistic alternative weeding techniques based on agroecological approaches

**Digitalization of AWM strategies**
- Innovation toolbox for AWM solutions
- Forum and site for AWMN
- AWM Toolbox

**Assessments & Evaluations**
- Weed Management & crop productivity
- Agroecological Performance Evaluation
- Societal, economic and environmental impact assessment

**Scaling-up & dissemination of GOOD solutions**
- Business models
- Policy recommendations white papers
- Videos & E-learning
- Practice abstracts
- Best Practices & Fact sheets

![Agroecological Weed Management Network](image)
Encourage a long-term and large-scale transition to sustainable biodiversity-based agri-food systems through the development of the first Agroecological Weed Management Network.
CALL FOR ACTION

PROJECTS / NETWORKS
ORGANIZATIONS
INDIVIDUALS

Weed out the problem: embrace agroecology

Agroecology as science
Agroecology as practice
Agroecology as a social movement

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How many agroecological EU projects exist?

Total: 200

Horizon Europe projects (2021-2027): 37


FP7 projects and back (from 1990 to 2013): 27

Trans-disciplinary approaches for systemic economic, ecological and climate change transitions

Agro-ecological approaches in African agriculture systems (2022-2026) 4 projects

Digitalisation for Agroecology

Integrated SERvices supporting a sustainable AGROecological transition

The European Agroecology Living Lab and Research Infrastructure Network: Preparation phase

Understanding and improving the sustainability of agro-ecological farming systems in the EU
How many weed management EU projects exist?

Total 143

Horizon Europe projects (2021-2027)
5

AGROECOLOGY FOR WEEDS
AGR-Oecology for weeds

AGRI-THINK ROBOT: A Disruptively New Approach to Weed Management Shaping the Future of Sustainable Agriculture

Conserva
Agroecological strategies for sustainable weed management in key European crops

Evidence-based support for transition to agroecological weed management in diverse farming systems and European regions

Horizon 2020 projects (2014-2020)
90

ADPT IPM
EU-China collaboration in integrated pest management

FP7 projects and back (from 1990 to 2013)
48

IWM-PRAISE Integrated Weed Management: PRActical Implementation and Solutions for Europe
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www.goodhorizon.eu