Agroforestry: opportunities under the Common Agricultural Policy and the Research & Innovation frameworks

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Credit: Jakub R - age 8 - Poland – winner of the drawing competition 2013
Common Agricultural Policy

EIP-AGRI

Horizon 2020
Common Agricultural Policy
1st and 2nd pillars

EIP-AGRI

Horizon 2020
Common Agricultural Policy 2014-2020: objectives

- Viable food production
- Sustainable management of natural resources and climate action
- Balanced territorial development
The new greening architecture of the CAP

Agricultural area (eligible for direct payments)

Cross compliance

Greening

Rural development

EIP

FAS

Implementation mechanism

Voluntary (with compensation for cost incurred and income forgone)

Mandatory (with financial Support)

Regulatory (Statutory Management Requirements and Good Agricultural Environmental Conditions)

Cumulative environmental benefits

Research

Implementation mechanism
Greening practices

- **Three basic practices** to be complied with (obligations for the farmer)
  - Crop diversification on arable land
    - *To make soil & ecosystems more resilient*
  - Maintenance of the existing permanent grassland
    - *To conserve soil carbon & grassland habitats*
  - Having ecological focus areas (EFA) on arable land
    - *To safeguard and improve biodiversity (protection of habitats)*

- MS can decide to offer **equivalent practices** instead via:
  - Certification schemes OR Agri-Environment-Climate measures from Rural Development Programs
Greening farms covers most part of the agricultural area

| Total agricultural area under at least one greening obligation | 107 million ha |
| % total agricultural area (compared to Eurostat FSS 2013)     | 73%            |

Number of hectares of total agricultural area (compared to Eurostat FSS 2013)

Lower percentages due to exempted farms:
- **Small Farmers Scheme** (41% of farms, 5% of agricultural area)
- **Organic farms** (1% of farms, 4% of agricultural area)
- **Farms with less than 10 ha of arable land**

Influence of permanent crops in some MS
Ecological Focus Areas - EFA

- MS to decide before 1 Aug 2014 (and 1 Aug following years) what can be considered as EFA → List provided in the legislation
  - Land Lying Fallow
  - Terraces
  - Landscape features including adjacent elements (Hedges – wooded strips, isolated trees, trees in line, trees in group – field copses, Field margins, Ponds, Ditches, Traditional stone walls)
  - Buffer strips along water courses – Other buffer strips
  - Agro-forestry granted under RDP and qualified as arable land
  - Strips of eligible hectares along forest edges
  - Short rotation coppice
  - Afforested areas under Rural Development
  - Catch crops – green cover
  - Nitrogen fixing crops

- 68 % of arable land concerned by ecological focus area obligation
Land Lying Fallow: 26 MS

Landscape features: 24 MS at least one

Field margins

Buffer strips: 17 MS
Surface d’intérêt écologique cultivées

**Nitrogen Fixing crops:** 27 MS

**Catch crops/Green covers:** 19 MS

**Agroforestry:** 11 MS

**Under-sowing:** 2 MS
Composition of EFA obligation per EFA type – EU level

**Before WF**

- Main three EFA: 93% on total EFA after WF
  - Land lying fallow: 41%
  - Nitrogen fixing crops: 37%
  - Catch crops: 15%

**Area EFA / Area arable land under EFA obligation**

- Area EFA BEFORE WF: EU average 14%
- Area EFA AFTER WF: EU average 9%

**After WF**

- EFA types
  - Main three EFA: 93% on total EFA after WF
    - Land lying fallow: 41%
    - Nitrogen fixing crops: 37%
    - Catch crops: 15%
Review after 1 year of application

- Review after 1st year of greening implementation following the Commission’s commitment on EFA in April 2014 as regards impact on the level playing field; impact on production potential; possible ways to simplify the greening framework
  - including use of data collection, outcome of the online public consultation, market analysis...
  - a staff working document which covers the issues announced in the Commission declaration. This working document will present an analysis of data and also the results of the public consultation and it will identify priority area or issues to be dealt with on simplification purpose.
  - Proposals for amending the Delegated Regulation (639/2014) to be discussed from July 2016.
  - Scheduled by mid-2016, Council planned at the end of June, text to be adopted for application in claim year 2017
Minimum spending requirement for environment and climate

- **Minimum spending requirement**: 30% of EAFRD required expenditure on environment and climate (1305/2013 art. 59(6)).
- **49% of EAFRD** spent on the relevant measure.
2007-13 New measure 222: First establishment of agroforestry systems on agricultural land

- Initially programmed in 19 Rural Development Programmes, than abandoned in 8 of them
- Reported EAFRD expenses* 1,1 million euro. (1,5 million euro total public expenditure)

* Based on preliminary data from 2015
Art. 23 of Regulation No 1305/2013: Establishment of agroforestry systems

Support available for:

- Costs of establishment 80% (maximum rate).
- Annual premium per hectare to cover the costs of maintenance for a maximum period of 5 years.
- **"Agroforestry systems"** means land use systems in which trees are grown in combination with agriculture on the same land.
- The minimum and maximum number of trees per hectare shall be determined by the Member States taking account of local pedo-climatic and environmental conditions, forestry species and the need to ensure sustainable agricultural use of the land.
M 8.2, Art.23 Establishment of agroforestry systems

- 36 RDPs from 8 MS programmed the establishment of
- 84 thousand hectares new agroforestry systems, using
- 130 € millions total public expenditure
Common Agricultural Policy

EIP-AGRI
European Innovation Partnership for Agricultural productivity and sustainability

Horizon 2020
The EIP-AGRI in a nutshell

Innovation Union Flagship Initiative: 5 EIPs link existing policies and instruments to speed up innovation
Commission Communication COM (2012) 79

Aim: Fostering a competitive and sustainable agriculture and forestry sector that ‘achieves more from less’

Approach: Closing the innovation gap between research and practice and forming partnerships by:

• Using the interactive innovation model
• Linking actors through the EIP-AGRI Network
European Innovation Partnership

Overarching concept – funding in:

Rural Development

• Setting up "operational groups" involving farmers, advisor, agribusiness, research, and NGOs to work on innovation projects

• Project funding for activities of operational groups, possibly combined with other measures (investment, knowledge transfer, advisory services)

• Supporting innovation support services

Horizon 2020

• Research projects, including on-farm experiments to provide the knowledge base for innovative actions

• Interactive innovation formats such as multi-actor projects and thematic networks genuinely involving farmers, advisors, entreprises,...."all along the project"
EIP-AGRI Service Point
SHARING KNOWLEDGE - CONNECTING PEOPLE - TACKLING CHALLENGES
SERVICES

HELDESK

FOCUS GROUPS

WORKSHOPS & SEMINARS
Connecting farmers, researchers, advisors, businesses, environmental groups, consumer interest groups and other NGOs

Online & Printed Publications

Database
Funding opportunities
Research needs from practice
Experts
Case Studies
Finding partners

Newsletter
Press
Social Media
Website
Events

Help agricultural innovations spread across Europe fast

Connecting
Research & Practice

Connecting
Scientists & Farmers

Connecting
Within & Across European Countries
EIP - Focus groups

- Open calls for interest of participation
- 20 participants, different types of actors (typically: scientist, farmers, foresters, advisors,...)
- Short duration, focused

Main tasks:

- Take stock of the state of the art of practice and research (problems, opportunities, solutions, best practices, projects,...)
- Identify needs from practice for further research
- Propose priorities for innovative actions (e.g. ideas for EIP Operational Groups)
## EIP-AGRI Focus Groups: Ideas for cooperation projects and Operational Groups

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<th>Topic</th>
<th>Status</th>
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<td>Landscape features for arable crop production (EFAs)</td>
<td>Final report</td>
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<tr>
<td>Sustainable High Nature Value farming</td>
<td>Final report - Factsheet</td>
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<td>Benchmarking farm performance</td>
<td>Ongoing</td>
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<td>Mixed farming systems: livestock/cash crops</td>
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<td>Reducing livestock emissions</td>
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<td>Sustainable mobilisation of forest biomass</td>
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<td>Agroforestry</td>
<td>Forthcoming</td>
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EIP-AGRI Focus Group on: Agroforestry - introducing woody vegetation into intensive crop and livestock systems

Preliminary draft call text under preparation

Proposed question: "How to develop agroforestry as a sustainable farming system which can boost agricultural productivity and sustainability?"

Publication of call for experts expected by beginning of June 2016 in the EIP-AGRI newsletter.

Subscribe to the newsletter here.
Common Agricultural Policy

EIP-AGRI

Horizon 2020
Focus on Societal Challenge 2
A strategic approach to EU agricultural R&I
3 Pillars

- Industrial leadership
  - LET, Risk Finance, SME
- Excellent science
  - ERC, Marie Curie, FET, Infrastructures,
- Societal Challenges

Bottom up

**Total: About 70bn €**

**7 Societal challenges**

1. Health, demographic change and wellbeing

2. Food security, sustainable agriculture, marine and maritime research and the bioeconomy
   (about 3.5 bn€)

3. Secure, clean and efficient energy

4. Smart, green and integrated transport

5. Climate action, resource efficiency and raw materials

6. Inclusive, innovative and reflective societies

7. Secure societies

Agriculture and Rural Development
Research Activities under 'societal challenge 2'

AGRI budget for 7 years: 1,8 billion € mainly on 2.1. (All SC2: 3,8 bn €)

Co-management DG RTD - DG AGRI

DG AGRI mainly on 2.1 but also on 2.2 and 2.4

2.1. Agriculture and forestry
2.2. Agri-food sector for a safe and healthy diet
2.3. Aquatic living resources
2.4. Bio-based industries and bioeconomy
2.5. Marine and maritime research
2.1. Agriculture and forestry: main challenges

- Increasing production efficiency and coping with climate change, while ensuring sustainability and resilience
- Providing ecosystem services and public goods
- Empowerment of rural areas, support to policies and rural innovation
- Sustainable forestry
H2020 as compared to FP 7

- A stronger **challenge-based approach** giving applicants considerable freedom to come up with innovative solutions
- **Less prescriptive**, broader topics with emphasis on expected impact
- Increased emphasis on applied research: **innovation** component more prominent, **stakeholder and societal involvement** (multiactor approach in SC2)
- **Close-to-user activities** (e.g. on-site farm experiments, demonstrations, pilots, targeted dissemination)
- **Cross-cutting issues** mainstreamed (e.g. social sciences, gender, international...)
- **Research to support even stronger EU policies** in particular in the area of innovation, such as **European Innovation Partnerships** (e.g. EIP AGRI, EIP Water)
Horizon 2020 work programme 2016-2017

Societal Challenge 2 WP divided into *four calls*:

- Sustainable food security (SFS)
- Blue Growth
- Rural Renaissance (RUR)
- Bio-based innovation for sustainable goods and services (BB)
2017 topics
Links between agriculture and forestry

**SFS topics**
- SFS-28: Functional biodiversity – productivity gains through effective interplay of crop pollinators and pest predators (10M€)
- SFS-30: Closing loops at farm and regional levels - focus on C, N and P (2*7M€)
- SFS-10: Emerging diseases in plants and terrestrial livestock (3*5M€)

**RUR topics**
- RUR-03 Towards 2030 - policies and decision support tools for an integrated approach to land management (7M€)
- RUR-05 Novel public policies, business models & mechanisms for the sustainable supply of and payment for forest ecosystem services (2*4M€)
- RUR-13: Building a future science and education system fit to deliver to practice (7M€)

**BB topics**
- BB-03: Tree breeding strategies and tools for forest production resilience (6M€)

**RUR topics (csa)**
- RUR-10: Thematic Networks compiling knowledge ready for practice (5*2M€)
- RUR-12: Networking European farms to boost thematic knowledge exchanges and close the innovation gap (7M€)
CONCLUSION

Let's plant the forest, cause it offers lots of adventures.
Thank you for your attention!

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gaetan.dubois@ec.europa.eu - Horizon 2020

Useful links:

**DG AGRI – CAP funding:**
http://ec.europa.eu/agriculture/cap-funding/funding-opportunities/index_en.htm

**EIP-AGRI:** www.eip-agri.eu

**DG AGRI Research and Innovation**
http://ec.europa.eu/agriculture/research-innovation

**HORIZON 2020 – Work Programme 2016/2017 – societal challenge 2**

**A strategic approach to EU agricultural research and innovation:**