Transforming landscapes



AGROFORESTRY AND MIXED FARMING:
PARTICIPATORY RESEARCH TO DRIVE THE TRANSITION TO
A RESILIENT AND EFFICIENT LAND USE IN EUROPE



5th European Agroforestry Conference 17th – 19th May Nuoro, Sardinia, Italy (online) 17th May 2.2 POLICY – Room B

AGROMIX - AGROforestry and MIXed farming

Participatory research to drive the transition to a resilient

and efficient land use in Europe

'AGORMIX – Introducing Policy Co-Development for

Agroforestry and Mixed Farming'

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28 Partners: 10 universities, 7 research institutes, 11 multi-actor partners

14 countries represented

Research Centre Agroecology, Water and Resilience









Zurich University of Applied Sciences



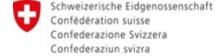
















IfaS







Flanders
is agriculture and fisheries

Federal Department of Economic Affairs, Education and Research EAER Agroscope























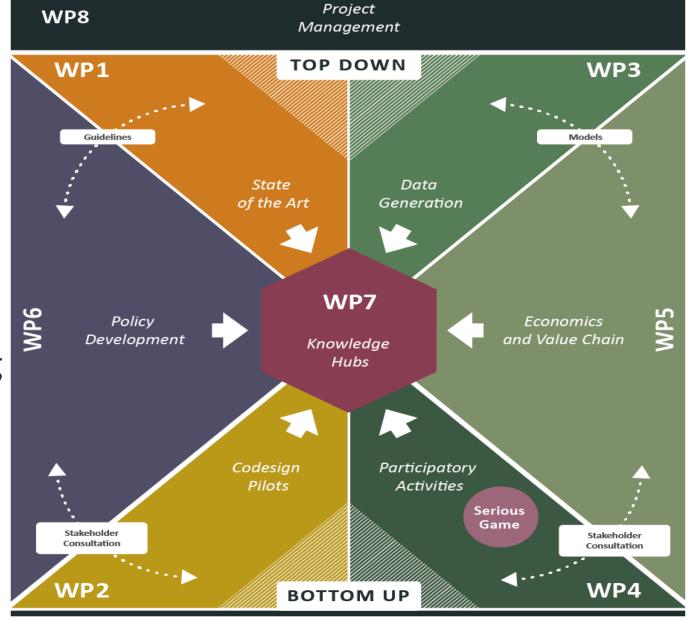






Approaches

- Interlinked WPs
- Long-term field sites
- Mix-APP, Serious games
- Economic value chain modelling
- Policy Co-development
- Knowledge Hubs



AGROMIX main aims

- deliver participatory research to drive the transition to resilient and efficient land use in Europe
- provide practical agroecological solutions for farm & land management –
 and related value chains
- explore the potential for **novel approaches**, **technological**, **social**, **policy** to promote innovation in highly complex, diverse contexts

4-years: 1 November 2020 – 31 October 2024, 7 million Euro, RIA (Research and Innovation Action, Horizon 2020)

More info:

Poster page 22 P1.1 5 73 AGROMIX,

Website <u>www.AGROMIXproject.eu</u>



WP 6 Policy Co-Development (new staff joined)

Paola Migliorini, President of Agroecology Europe, <u>p.migliorini@unisg.it</u>

Jessica Dunham, Agroecology Europe, <u>jessica.donham@agroecology-europe.org</u>

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Ulrich Schmutz, Coventry University, <u>ulrich.schmutz@coventry.ac.uk</u>

Rationale

- ✓ European Commission is innovative: Green Deal: 25% certified organic Land Use by 2030 combined with Biodiversity strategy (GAP-1991 = EU organic regulation 1991 becomes minimum standard for good agricultural practice GAP) but 'watered down in parliament and political process but also counter pressure'
- √ 'Agrar-Wende' = 'revolutionary' change/transition to agroecology in Europe
- ✓ Phase-out of ALL intensive industrial livestock in Europe = 100% GAP-1991 for animals, akin to 'Abolition of slavery in agriculture' as it also includes moral change
- ✓ Agroforestry and mixed farming (AGROMIX) could plays <u>major</u> role in this transition?

Tasks

- Task 6.1: Inventory of current policy contexts, instruments and operational means for the support of MF and AF systems and the assessment and evaluation of ecosystem services from MF and AF systems.
- Task 6.2: In-depth analysis of policy scenarios and sector mechanisms within the EU and four national states.
- Task 6.3: Ten multi-stakeholder policy workshops for the co-design of MF/AF policies within the EU and four national states.
- Task 6.4: EU-level policy development, MF/AF white paper and 'AGROMIX summit'.

Nested Approach

- The AGROMIX policy workshops will contribute to a better scientific understanding of policy co-development from a bottom-up citizen perspective
- A set of comparative policy workshops at different policy levels: EU level, member states in Eastern and Western Europe but also non-EU states within Europe, like Switzerland and UK.
- In addition, devolved federal state levels are studied, e.g. in Eastern and Western Germany.

T6.1 Questions used in each country

- 1. What are the keywords or commonly used terms to refer to Agroforestry and Mixed Farming systems in your country?
- 2. Does your country make provisions for Agroforestry under the CAP?
- 3. Are there any national policies (separate from the CAP) that support Mixed Farming or Agroforestry systems in your country?
- 4. What are the national regulations (separate from the CAP) for trees on farms?
- 5. How popular are Agroforestry and Mixed Farming Systems in traditional farming/knowledge in your country?
- 6. Going back 100 years, what was the historical context of trees in the farmed landscape in your country?
- 7. Is forest farming legal in your country (specifically forest pastoralism where livestock can forage through wooded/forest land)?
- 8. Has the CAP played a role in de-mixing the landscape? If so, how (specifics)?
- 9. What are 2-3 good examples of Mixed Farming/Agroforestry farms in your country?
- 10. What are the key challenges and barriers to full development of Agroforestry and Mixed Farming Systems?
- 11. Has your country released its Strategic Plan for the new CAP?
- 12. What are the rules for crop rotations? Do they include livestock? What are the rules for on-farm feed production?

First findings

- old CAP (Rural Development Plan) was ineffective and up-take was limited (e.g. Ireland, Hungary and Italy)
- New CAP (Eco-schemes) are not fully implemented and watered down, so could also be in-effective, need to study
- Mixed farming is not existing in the old and new CAP
- 'CAP control treatments' (Switzerland and UK) are difficult compare yet. Need policy and implementation data on on farmer uptake (as we have with organic farming statistics).
- "CAP has too many contradictions, it feels like the people who write the CAP do not understand farming"
- Why is the CAP uptake so low?
 Is it because we are not re-designing the system with agroecology thinking, just giving one option?
- Is the 'C (common)' in 'CAP' too ambitious? Should more agriculture policy be devolved to EU member states = 'cAP'?
- International perspective: difficult to compare as nobody has a CAP, however agroforestry is more the obvious choice in small scale agriculture worldwide, and also it is used as part of sustainable intensification

First findings

- Mixed farming not directly regulated and supported. The word and concept is old but like
 Agroforestry 10-20 years ago, it does not feature much directly in policy documents, however
 indirectly -> further research to find proxies
- One proxy identified is ecological/biological/organic farming to EU regulation 1991 ff. (and following updates until today). Mixed farming is in the general principles of the EU-Reg-1991 ff., but it is not mandatory. However, it is difficult to close nutrient cycles and manage fertility without livestock and therefore many organic farms are mixed (livestock free organic farms also exist: stockless arable, vineyards, bio-greenhouses and vegan organic farms).
- Similar is agroforestry, it fits the the general principles of EU-Reg. 1991, but it is not mandatory. Unlike mixed farming, it can be made mandatory in the next EU-Reg. update. The question is how much per farm and when is it introduced?

Agroforestry mandatory in ecological/organic?

- Ecological/biological/organic farming is already a certification scheme (1991 ff.) with a high level of consumer trust and value added to farmers.
- Mandatory Agroforestry would 'force' every organic farm (430,742* in 2019) in Europe (including intensive organic horticulture, viticulture) to introduce agroforestry.
- Independent annual and spot-check certification gives credibility. Higher level of agroforestry can be promoted using the same certification scheme (but higher standards).
- How much agroforestry depends on the farm type. A simple rule could be 'percentage(%) land' on farm e.g. 1-5%. Having no agroforestry would become a major non-compliance.
- Fits to EU commission's aims for 25% certified organic land by 2030
 => agroforestry will legally exist on all this land
 (non-EU Europe, e.g. Switzerland, Norway, England, Scotland, Wales, NI, Serbia, can have similar aims)

*Source: Willer, Helga, Jan Trávníček, Claudia Meier and Bernhard Schlatter (Eds.) (2021): The World of Organic Agriculture. Statistics and Emerging Trends 2021. IFOAM Bonn



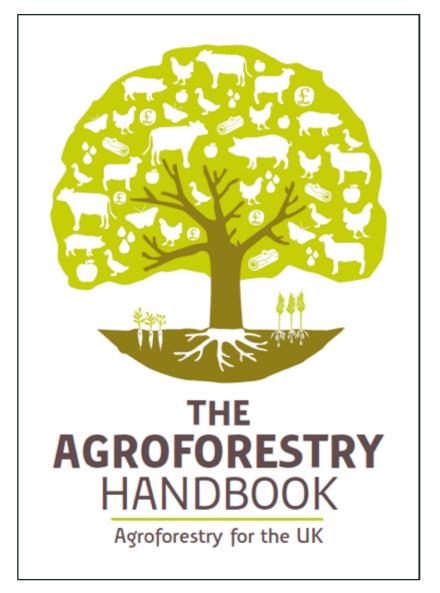


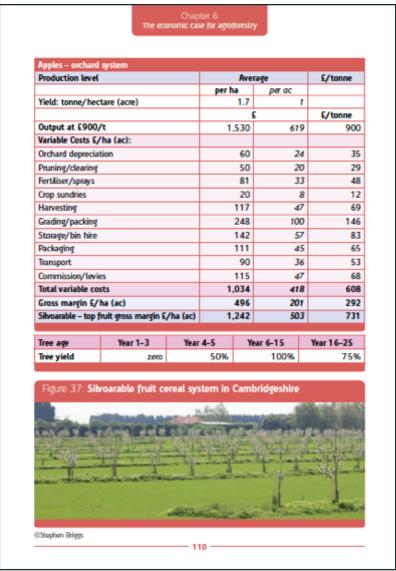
"Cherries, damsons, quince, dessert pears, apricots, almonds, raspberries, mixed berries and more."

Helen Browning

Source: www.helenbrowningsorganic.co.uk/agroforestry-orchards

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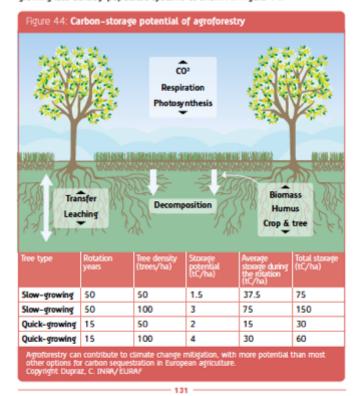




Chapter 6
The economic case for agroforestry

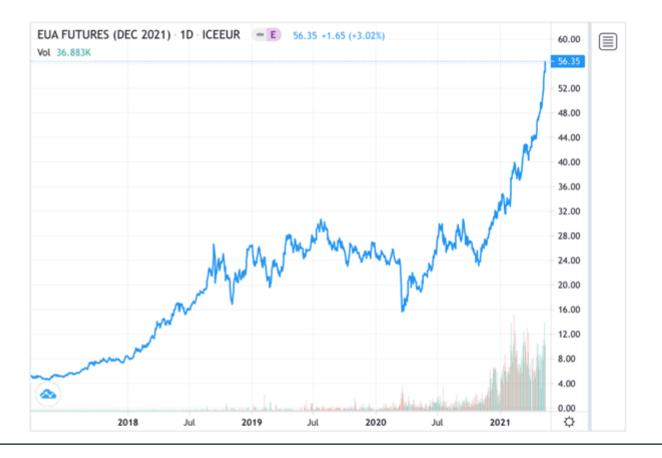
Agroforestry for carbon capture

There is significant potential for using agroforestry systems to build carbon in woody components and sequester carbon in the soil. Research has demonstrated carbon sequestration of between 1.0 to 4.0 tonnes of carbon per ha per year from agroforestry tree densities of between 50–100 trees per ha. Faster-growing trees with higher density sequester more than slower-growing less densely populated systems as shown in Figure 44.

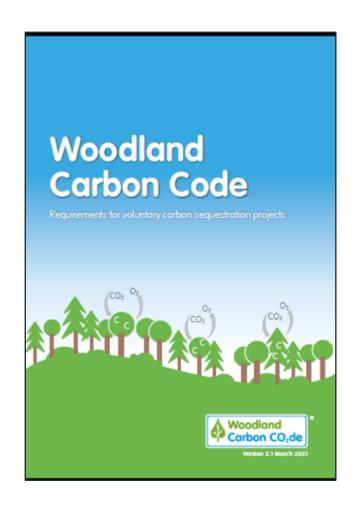


Source: The Agroforestry Handbook: Agroforestry for the UK 1st Edition (July 2019) Soil Association Limited, Bristol, England, ISBN: 978-1-904665-07-6

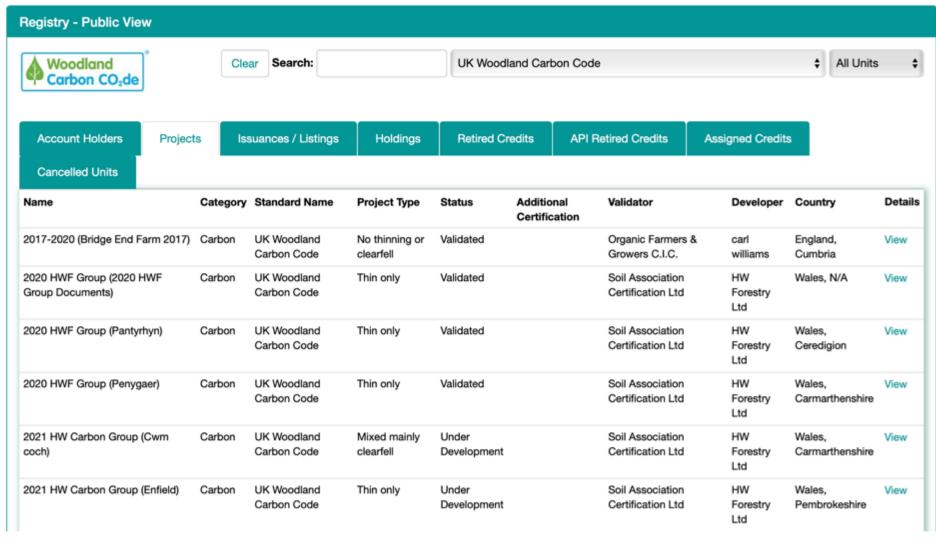
Daily EU ETS carbon market price (Euros)



Source: https://ember-climate.org/data/carbon-price-viewer







Woodland – Land under stands of trees with a canopy cover of at least 20% (25% in Northern Ireland), or having the potential to achieve this.







Group validation statement

Woodland creation	project-group details		
Group Name	2020 HWF GROUP		
Group ID	103000000017167		
Number of Projects	2	Group Area (ha)	12.01
Group manager name	Alison Wheeler	Group manager email	aw@hwforestry.co.uk

Group Net carbon sequestration details			
Group start date	01/04/2018	Project-Group duration (years)	100
Estmated claimable carbon sequestration over project- group duration (tCO ₂ e)	3113	Estimated contribution to risk buffer over project- group duration (tCO _{te})	779
Group dialmable carbon sequestration to date (tCOse)	To be confirmed at verification in 2023	Group buffer contribution to date (tCO _y e)	To be confirmed at verification in 2023

Site validation		
Site visitis) undertaken?	no - not needed at the validation stage	

Key principles validated			
1. Eligibility		3. Carbon Sequestration	
1.1–1.3 Eligible timescale, activities and land 1.4 No evidence of non-compilance with the law 1.5 Additionality	8	3.1–3.3 Baseline and Leakage 3.4 Project sequestration 3.5 Net sequestration	2 2 2
Project Governance and Documentation 1-2.2 Registration and Documentation 2.3-2.5 Group & Project Management, monitoring	(2) (3)	4. Environmental Quality	8
2.7 Carbon statements and reporting 2.8 Trademarks	8	5. Social Responsibility	8

Validation opinion	
Opinion validated	Soil Association Certification Ltd has conducted a validation of the compliance of the project-group 2020 HWF GROUP with the Woodland Carbon Code, including the greenhouse gas (GHG) data reported. On the basis of the assessment undertaken (see the annex) the project-group was found to be compliant. The GHG data (Net Carbon sequestration details' above) are materially correct, with a reasonable level of assurance.
Comments which qualify the opinion	n/a

Signed Actual	+
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Name of signatory	Andy Grundy	Position	Senior Certification Manager
Validating organisation	Soil Association Certification Ltd	Address of validating organisation	Spear House 51 Victoria Street - Bristol BS1 6AD
Certified from	20/11/2020	Certified until	31/03/2023

Registry - Project Details

2020 HWF Group (ID: 10300000017167)

Description

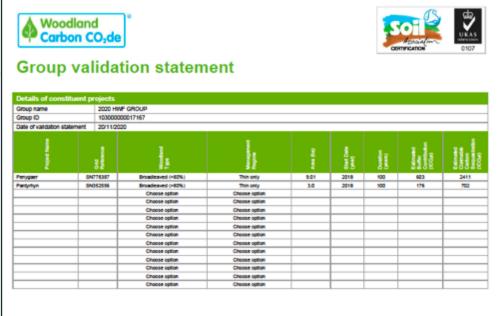
Group of GWC Carbon sites West Wales



Penygaer (ID: 10400000013201)

Project Documents

• (WCC) Carbon Calculations



Source: https://mer.markit.com/br-reg/public/index.jsp?entity=project&sort=project name&dir=ASC&start=0&acronym=WCC&limit=15&additionalCertificationId=&categoryId=1000000000001&name=&standardId=10000000000000042



Thank you!

Website www.AGROMIXproject.eu