

AF4EU PRESENTATION

M. Rosa Mosquera-Losada, Nuria Ferreiro-Domínguez, J. Javier Santiago-Freijanes, F. Javier Rguez Rigueiro Coordination Team <u>af4eu@usc.es; mrosa.mosquera.losada@usc.es; fj.rodriguez.rigueiro@usc.es</u>



AGROFORESTRY FOR EUROPE (AF4EU)

Promote European agroforestry value chains and extension services through the development of a multi-actor interactive and innovation-driven expanded agroforestry network



Horizon Europe – 3 million Euros 12 Partners from 10 countries and 5 Associated partners



AFINET TOWARDS AF4EU

AGROECOSYSTEMS

AGROFORESTRY INNOVATION NETWORKS

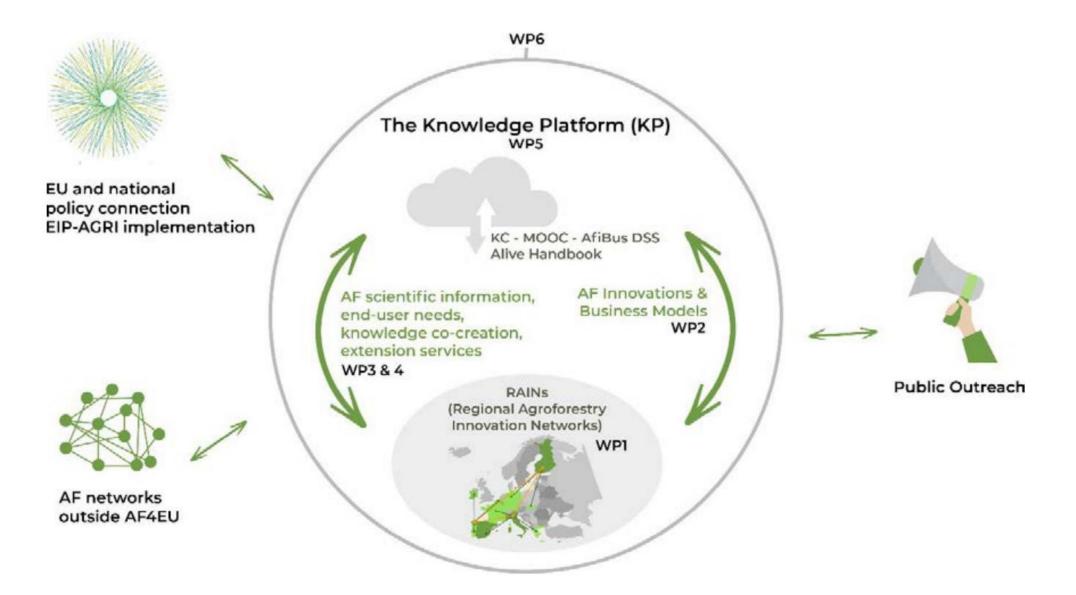
VALUE CHAINS AND EXTENSION SERVICIES



	IN	NOVATION TOPICS			
Continuous learnin	ng(13)	Design (9)	Farming systems (7)	Marketing (7)	Alternatives of woody (7)
Understory manag	ge (4)	Tree management (3)	Climate change (3)	Pruning (5)	Recreation (3)
Hedgerows (3)		Woody varieties (2)	Soil management (2)	Tree fodder (2)	Farmers cooperation (2)
Consumer educati	on (2)	Medicinal plants (2)	Economic analyses (2)	Mushrooms (2)	Biodiversity (1)
Forest manageme	nt (1)	Fertilization (1)	Lower story quality (1)	Forestry (1)	Regular education (1)
Lower story variet	ies (1)	Restoration (1)	Animal welfare (1)	Fire risk (1)	Understory adaptation (1)
Protectors (1)		Animal feeding (1)	Digitization (1)	Irrigation (1)	

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AF4EU OVERALL CONCEPT



AF4EU OUTCOMES



<u>.</u>	
How to protect young trees against grazing livestock or game? - Hungarian farmers' experiences www.exsbayetersty.eu/almet/	regulation is well. There are several seniar damage that includes patient control damage that includes patient cylinders with some holes that facilitat aerators. This system is good for some areas but not for others. If the micro- environment is a dry or humid these conditions can limit the prope- problems, both, fercing against with animals and therry spectra glaced around animals and therry spectra glaced around
trotection of young trees is one of the key questions to establish and maintain agroforestry yeters. There are many possibilities for artificial and natural protection methods. Bissid en amers's knowledge and research experiments, in sungerion ancient wood systems with ook and will prever trees grazed by there and cattle, the	the tree have proven to be the best option to reduce tree damages. Readmone shout the experisons of Marganian Terment Area Yarge S1017, Nontreatment of admentioned woot pattere https://www.agenerand.ex/Index.pbg/en/Innovation- tearfeet.html
set option for oak tree ingeneration was proved a be protection of young trees with fence and honry shrubs around the stoms or just plant loung trees in small shrub plots, Note that isongets by game and moving can decrease ignificantly the number of young trees in a asturieland. herefore, discussions with all related	-
takeholders - eg. owners of neighboring lands and the driver of the hay-cutting machine - is of high importance. Landscape historical data and ocal people knowledge can help the farmer by highlighting the main constraint to tree	Figure 1. Notestics of young trees is material for regressioning high restore are calculated usine veidel partners with another trees. France kry/treps.fl.
egeneration (eg. trees are suffering from tryness due to changing to drier area from a ormerly filocodplain). It means that the egeneration and sustainability of the groforestry system requires an understanding of he historical landscape and soil and water	Anna Varga & Andrea Vityi University of Sopron, Co-operational Research Centre Norprofit Ltd, Sopron







MOOC Multilingual Massive Open Online Course





AFINET - Knowledge Cloud website





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DSS

AFi-Bus DSS

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AF4EU OUTCOMES





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Knowledge Cloud

AFINET - Knowledge Cloud website





Under Grant Agreement 101086563

MATERIALS TO BE PRODUCED

> A set of end-user oriented, visual and accessible dissemination materials in 11 languages:

- 1. 110 Practice abstracts
- 2. 33 Infographics
- 3. 33 Factsheets
- 4. 33 Technical articles
- 5. 26 Innovation tutorials
- 6. 12 Policy briefs



marketing campaigns

Relevant results will be published in Q1 (JCR) journals under open-science. Relevant material will be translated to all AF4EU languages.

Agroforest Syst https://doi.org/10.1007/s10457-018-0215-9

Global and European policies to foster agricultural sustainability: agroforestry

J. J. Santiago-Freijanes · M. R. Mosquera-Losada () · M. Rois-Díaz · N. Ferreiro-Domínguez · A. Pantera · J. A. Aldrey · A. Rigueiro-Rodríguez

Received: 1 September 2017/Accepted: 27 February 2018 © Springer Science+Business Media B.V., part of Springer Nature 2018

Abstract Agroforestry is a sustainable land management system recognized worldwide but not implemented in a extensive form in temperate and developed countries. Agroforestry has been promoted in the last decades at global level as it provides more efficient and sustainable farming systems. This review aims at summarizing the main research findings explaining why agroforestry is a sustainable land management that fulfils and is affected by different Global, Pan-European and European policies as well as how innovation is currently fostered in Europe, therefore linking research, policy and innovation. This review specially targets researchers and policy makers working in integrated land systems. There is a global and European recognition of the role that agroforestry can play to provide products but

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also to deliver highly important ecosystem services. However, the promotion of agroforestry practices at European level is still not well addressed by the Common Agricultural Policy. The clear identification of agroforestry practices, the link of management plans to establish agroforestry pursuing a final eligible tree density for the Pillar I payments should be addressed as initial steps to foster agroforestry in Europe. There is a lack of knowledge transfer that promotes agroforestry at field level, which should be approached by using stakeholder integration within the policy development as it is currently done by the EIP-Agri.

CrossMark

Keywords CAP · Innovation · United Nations · Biodiversity · Ecointensification

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R. Romero-Franco · P. J. Burgess

Agroforestry in the European common agricultural policy

M. R. Mosquera-Losada 0 · J. J. Santiago-Freijanes · A. Pisanelli ·

J. A. Aldrey · M. P. González-Hernández · J. L. Fernández-Lorenzo ·

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Abstract Agroforestry is a sustainable land man-

agement system that should be more strongly pro-

moted in Europe to ensure adequate ecosystem service

provision in the old continent (Decision 529/2013)

through the common agricultural policy (CAP). The

promotion of the woody component in Europe can be

appreciated in different sections of the CAP linked to

Pillar I (direct payments and Greening) and Pillar II

(rural development programs). However, agroforestry

is not recognised as such in the CAP, with the

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exception of the Measure 8.2 of Pillar II. The lack of recognition of agroforestry practices within the different sections of the CAP reduces the impact of CAP activities by overlooking the optimum combinations that would maximise the productivity of land where agroforestry could be promoted, considering both the spatial and temporal scales.

Keywords Pillar I · Pillar II · Greening · Rural development programs - Cross-compliance

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Land Her Policy 76 (2018) 144-155

journal homepage: www.elsevier.com/locate/land/segod



Statute.

Agroforestry development in Europe: Policy issues

J.J. Santiago Preijanes^{a,b}, A. Pisanelli^a, M. Rois-Díaz^{a,d}, J.A. Aldrey-Vázquez^b, A. Rigueiro-Rodríguez", A. Pantera", A. Vityi¹, B. Loika¹⁵, N. Ferreiro Domínguez", ** M.R. Mosquera-Losada"."

The Inschriter and Referring Propert Dynamics, High Referring School, University of Samingrade Composide, 27802 Lago Spain ¹ Despendsy Department, Analasi An Deparkine Marine, Human dis Determinine of 1, 1920, Berlinger & Despender, Span Industry of Agen Representational Party Rading, Halmard Research Classed, Research Dily. "Revenue Person Person Personal Village School & Solido Domesia, Phyland 173 Sense Wales, Dpr. of Survey & Vennel Sentemone, 38180 Europeins, Gross Descents of Second Co Operational Descents Course New Frank Ltd. Managery One in Dermany of Alle Sources Proget, Bearly of Topold Apple Inter, Apple and a film Research of Apple resp. Source 139, Peder Careb Ryndon Neural Research Careb, Scienti of Apple dam, Generacy of Solars, Topola de Apple of a 199 317 Johns, Heringel

ABTICLE INFO ABSTRACT

> Approferentry is candidored a associately form of land management that optimizes the use of meaned researces instricts, reducto, water). Apprintently is defined as the defiberate integration of woody separation with apricultural activities in the lower story. It provides a higher biomax production per unit of land, while preeiding many comptom nervices than wordy-loss agricultural lands, such as the reduction of noil motion and mitragen incluing, and increase carbon secondariation and hardscars: hied/versity. The objective of this paper is to evaluate the past and current Baropean Union Common Agricultural policies atming at promoting the alterestation or referentiation of lands, on the introduction of investors for services a first step to survy and oppointestry practices in former agricultural or local lands. Agroforcatry was a traditional had use system in threas: before insident times, However, federe the status land intervitientian and consolidation desirowed millions of irees all over things. On the contrary, some good examples of agarbanstee promotion are found in Eastern Dampson countries in order to reduce the effect of extreme events such as winds. Reading as the beginning and mid of the had remark. In Western European countries, the introduction of trees in the land has been avanuated by agreforestry, afforestation and reforestation at the end of the lost century. Afforestation of agricultural lands have here the most successful QVP measure tower 1 million hectures) while agroferosity measures were not eninvolved a single of which may be regulated in the lands associated to others at an associate which concentrational for lower of increase than 20 years in afforested lands. Agrodinestry was priorip adopted in the CAP 2007, 2002, having a better surrous in the GM 2014-2020 due to the rorogation of woody regention and the comperiordors of lower new he maintenant and amineria is stablished flowers, only one marine Eller Law. next when appointed y measure is adopted such as a management plans ensuring that maximum here density (100 inter per heriane) in not reached, should be pursued.

1. Introduction

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Global policies are currently aware of environment problems caused by agricultural intensize systems (PAD, 2004). The Millennian Szosystem Assessment highlights that human society benefits not only fram products delivered by acceptions, but also from regulating and cultural services (MEA, 2005). Examples of regulating services provided by agriduentry provides include soil enrichment (Mithy and Provid 2007)

Young, 1997; Bach et al., 1998; Schroth and Sinchar, 2003), air and water quality (Udawatta et al., 2002; Lee et al., 2003; López-Dias et al., 2006; Anderson et al., 2009], carbon segmentration (Sharrow and inneil, 2004; Kirly and Porvin, 2007; Mospaera Locada et al., 2012). and biodiversity conservation Obsequera Invada et al., 2012; Herney, 1998; Riesero-Rodriguez et al., 2009; Bernander et al., 2010; Role et al., 3506). Cultural services include maintenance of bindecape beauty. cultural beritage, and represtion (MrAdam et al., 2009; Populations)

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https://doi.org/10.1016/j.instanpol.2016.00.014 Bacebool 10 August 2017; Rentrod Io revised Ross & March 2016; Avergant & March 2016 Available and March 2013 (3)4 8877/ -Q 2018 Elseviet Int. All rights reserved.

Global needs they have: International agreements Policy analysis:

Pillar I:

AF definition and categories **Tree** limits

Policy analysis: Pilar II. AF not supported: Yes it is supported

A. Pantera

Department of Forestry and Natural Environment, TEI Stereas Elladas, 36100 Karpenissi, Greece





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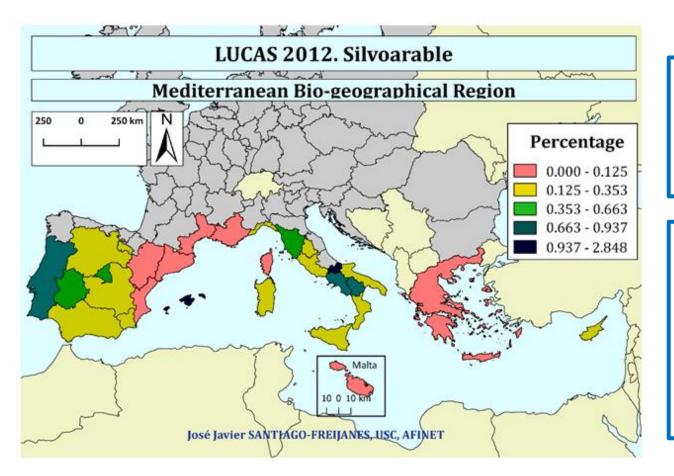
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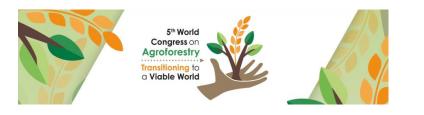


RESULTS AND DISCUSSION

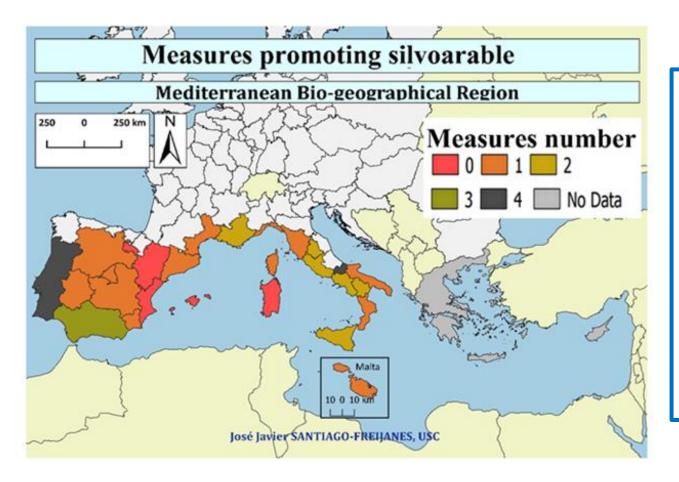


Silvoarable practices linked to arable lands ranged from 0 to 2.85% of the total surface

- ✓ Dehesa
- ✓ Riparian buffer strips
- ✓ Most silvoarable practices are cropped with the legume Lucerne (17.86%), floriculture and ornamental plants (14.29%), vegetables (10.71%) and maize, potatoes, and sunflowers, reaching a share around 7% each of them.
- ✓ Silvoarable practices are mainly carried out under olive trees (42.86%), oak lands (21.43%), apple trees (10.1%), other fruit trees (10.7%) and nut and nurseries with a share of 7.14%.



RESULTS AND DISCUSSION



Twenty-two RDP are promoting silvoarable practices

- ✓ PORTUGAL: four measures
- SPAIN: one measure in Castilla y León, Castilla La Mancha, Extremadura, Madrid, Murcia, and Cataluña
- ✓ FRANCE: two measures in the Provence-Alpes-Côte d'Azur and one in Languedoc-Roussillon and Corsica
- ITALY: from one to four measures with a higher number in Molise (four measures) than in Sicilia, Basilicata, Campania, Lazio, and Umbria all (two measures)

AF4EU OUTCOMES

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Alive Handbook





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Knowledge Cloud

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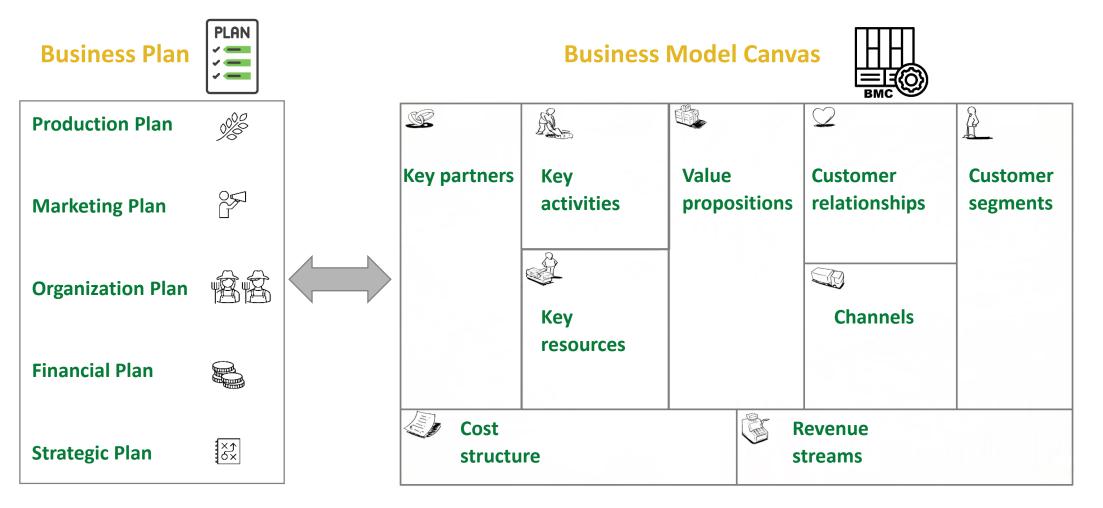




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AFi-Bus DSS

Business Plan & Business Model:



Business Model Development Session

Part 1: Business Plan and Business Model Canvas

Part 2: Collecting Farm Data

Part 3: Evaluation of Internal and External Factors for Strategic Planning

Part 4: Develop and validate models

AF4EU OUTCOMES

Materials

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How to protect young trees against grazing livestock or game? - Hungarian farmers' experiences www.extgradentry.eu/dat/	regulation as well. There are several modern from to protect trees against annual damage that includes platta cylinders with some holds that facilitate aeration. This system is good for some aeras but not for others. If the micro- environment is so dry or hundi these lightlications of the young tree causing problems. Both, fencing against will annual and therry species placed around
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AFi-Bus DSS

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Knowledge Cloud

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CECRA Modules- compulsory & elective

Module status	Module description
Compulsory Module 1	My Profile as a Consultant
Compulsory Module 2	Communication and Relationship Building in Advisory Work
Elective Module 3	Teamwork and Team Leadership
Elective Module 4	Rhetoric / Presentation
Elective Module 5	Self-Management and Time Management
Elective Module 6	Project Management
Elective Module 7	Shaping Advisory Processes
Elective Module 8	Handling Changes / Change Management
Elective Module 9	Moderation Training
Elective Module 10	Marketing of Advisory Services
Elective Module 11	Designing and Implementing Events
Elective Module 12	Advising and Supporting Groups and Teams
Elective Module 13	Essentials of Mediation
Elective Module 14	Advising and Supporting Businesses in Strategic Issues
Elective Module 15	Introduction to Coaching
Elective Module 16	Shaping Innovation Processes – Supporting networks
Elective Module 17	Essentials of Participation

Each module consists of at least 12 hours (approx. 2 days) as well as additional self-study (literature review, own in-depth studies) and a minimum 18 hours application of the relevant topic in day-to-day advisory work

AFINET AND AF4EU MATERIALS

> A set of end-user oriented, visual and accessible dissemination materials in 11 languages:

- 1. 110 Practice abstracts
- 2. 33 Infographics
- 3. 33 Factsheets
- 4. 33 Technical articles
- 5. 26 Innovation tutorials
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marketing campaigns

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Materials

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How to protect young trees against grazing livestock or game? - Hungarian farmers' experiences www.autoputerety.au/diret/	regulation is well. There are species remains from the protect trees against semand damage that includes pation optimates with some holds that facilitats aerators. This system is good for some areas but not for others, if the micro- environment is so dry or humid these conditions (an limit the prope- pretilens, both, fercing against will minimalian differing against will be and a second the second transmission of the second second transmission of the second second second transmission of the second second second transmission of the second second second second second second second second second second second second second second second second second second second seco
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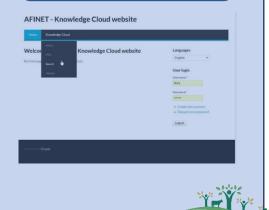


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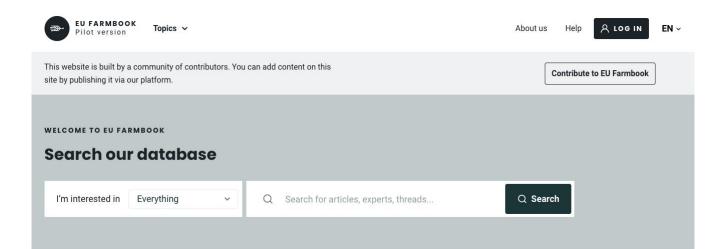
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AgroForestryNet.eu



2.6 Past and disease control

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The EU-FarmBook Project Database 1/4





EU FarmBook is a collection of vetted best practices for farmers & foresters. All content in the library is provided by Horizon research projects. Learn more about this project on <u>our website</u>

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EU FarmBook has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No's 817863 and 862790.

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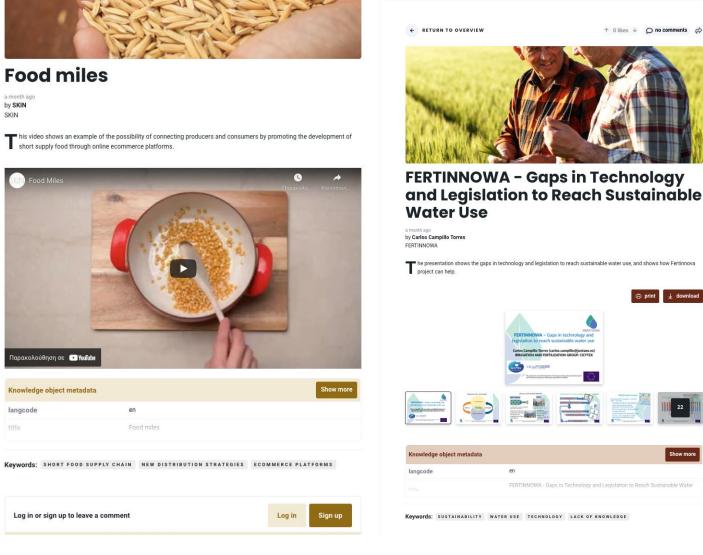
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FERTINNOWA - Gaps in Technology and Legislation to Reach Sustainable

The presentation shows the gaps in technology and legislation to reach sustainable water use, and shows how Fertinnova project can help.



Keywords: SUSTAINABILITY WATER USE TECHNOLOGY LACK OF KNOWLEDGE



All content Community Experts

A TOTAL OF 13 RESULTS



Biodiversity in Agroforestry Systems ♣ FORESTRY = PRESENTATION A presentation on biodiversity and its economic benefits

in agroforestry systems

KEYWORDS BIODIVERSITY AGROFORESTRY

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AGROFORESTRY SYSTEMS



On va reconstruire

A FORESTRY VIDEO

a series of interviews talking about agroforestry in France, challenges and opportunities for french farmers and for the whole french Agriof ...



EU Rural Development Regulation No 1698/2005 and i **Forestry Relevant Measures**

This presentation is about the EU rural development regulation, policy agenda and its forestry relevant measures

KEYWORDS: RURAL DEVELOPMENT POLICY RURAL DEVELOPMENT REGULATION FORESTRY



Managing understory in cork oak Montado

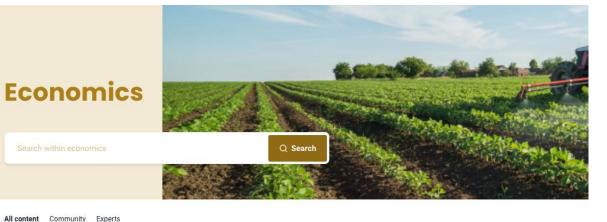


Short supply food chains experts : eyes on logistics SECONOMICS VIDEO

Discover the relevance of logistic aspects for a succesful implementation of the short food supply chain model from the words of our expert

KEYWORDS: LOGISTIC COST-EFFECTIVE

QUALITY GOODS



A TOTAL OF 3 RESULTS





Food miles

CONOMICS VIDEO

This video shows an example of the possibility of connecting producers and consumers by promoting the development of short supply food throu...

KEYWORDS:

SHORT FOOD SUPPLY CHAIN

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AFS Connect - PLM Connect

SECONOMICS DOCUMENT

PLMConnect / AFS Connect enables the farmer or his fleet manager to connect to his machines from the comfort of his office through the utili ...

KEYWORDS: AGRICULTURAL PRODUCTION SYSTEMS FARMING EQUIPMENT AND MACHINERY

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Biodiversity in Agroforestry Systems

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A presentation on biodiversity and its economic benefits in agroforestry systems

KEYWORDS:

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Biodiversity in Agroforestry Systems

a year ago by Agroforestry Innovation Networks AFINET

A presentation on biodiversity and its economic benefits in agroforestry systems

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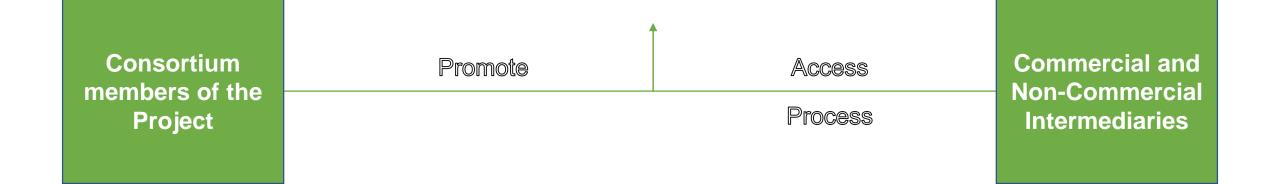
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How will AF4EU synergise with the EU-Farmbook?

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