

Presentation of European initiatives on climate change adaptation and risk mitigation by EFI and input of the EIP-AGRI via focus group

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This intervention aims to present current initiatives at European level related to the consequences of climate change on forests. Firstly, the role of the AGRI point service and the first conclusions of the focus group on forest adaptation to climate change, which brought together 20 experts to structure and produce recommendations for the creation of operational groups, as well as research topics that appear useful to develop. This roadmap will be the basis for calls for projects in the next framework program for European research.

In the second phase, European projects directly related to climate change adaptation and induced risk management will be introduced. An overview of the project in preparation for a pre-ACT thematic network aimed at facilitating exchanges of experts and good practices will be discussed, as well as the PLURIFOR project for the creation and improvement of cross-border forest risk management plans. This project has made it possible, particularly in France, to develop storm risk vulnerability mapping tools, to adjust pine nematode risk management strategies, and to set up a plan for emerging biotic risks. A quick demonstration of the SYLVALERT smartphone application for reporting risks in the forest will be made. An overview of the multi-criteria analyses as conceived within the framework of the FORRISK project will be an opportunity to discuss the different components of the notion of risk.

Finally, the first results obtained on the 6-year-old trees of the REINFFORCE arboretum network arranged along a climatic gradient from northern England to Portugal will be presented. An overview of the models obtained using this gradient to categorize species according to their behavior in the face of drought or temperature increase will be presented and the application of these models to estimate the risk induced in the future climates of the ocean area will be explained.

initiatives européennes sur l'adaptation au changement climatique et la gestion des risques impliquant l'EFI et des apports des travaux du PEI- AGRI via les Focus group



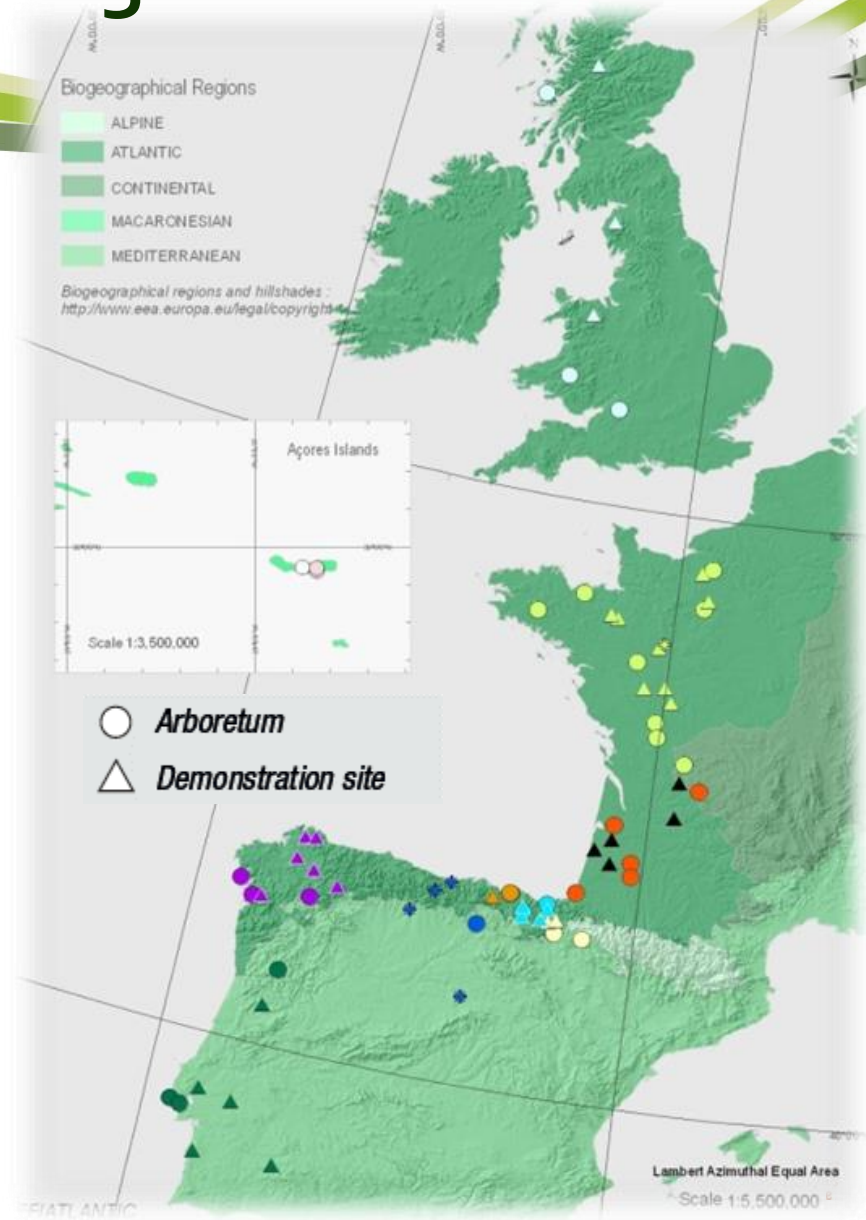
EFI planted forest facility

- Une organisation internationale établie par traité entre 29 états et avec 120 institut de R&D comme membres associés
- Présence en France d'une équipe de 8 personnes
 - Dédiée aux forêts plantées
 - Qui facilite la coopération scientifique et technique
 - Qui facilite le partage de connaissances et leur accès aux acteurs et décideurs
 - Qui contribue à informer la société sur les forêts plantées
 - Qui sert de point d'échange européen sur la thématique



Initiative achevée : REINFFORCE un réseau dédié à l'adaptation au changement climatique

- Un réseau unique au monde de recherche pour l'adaptation au changement climatique
 - 41 Sites de Démonstration des gestions adaptatives
 - 38 Arboreta pour aider au choix des essences et provenances dans un climat changeant



Initiative achevée : REINFFORCE un réseau dédié à l'adaptation au changement climatique

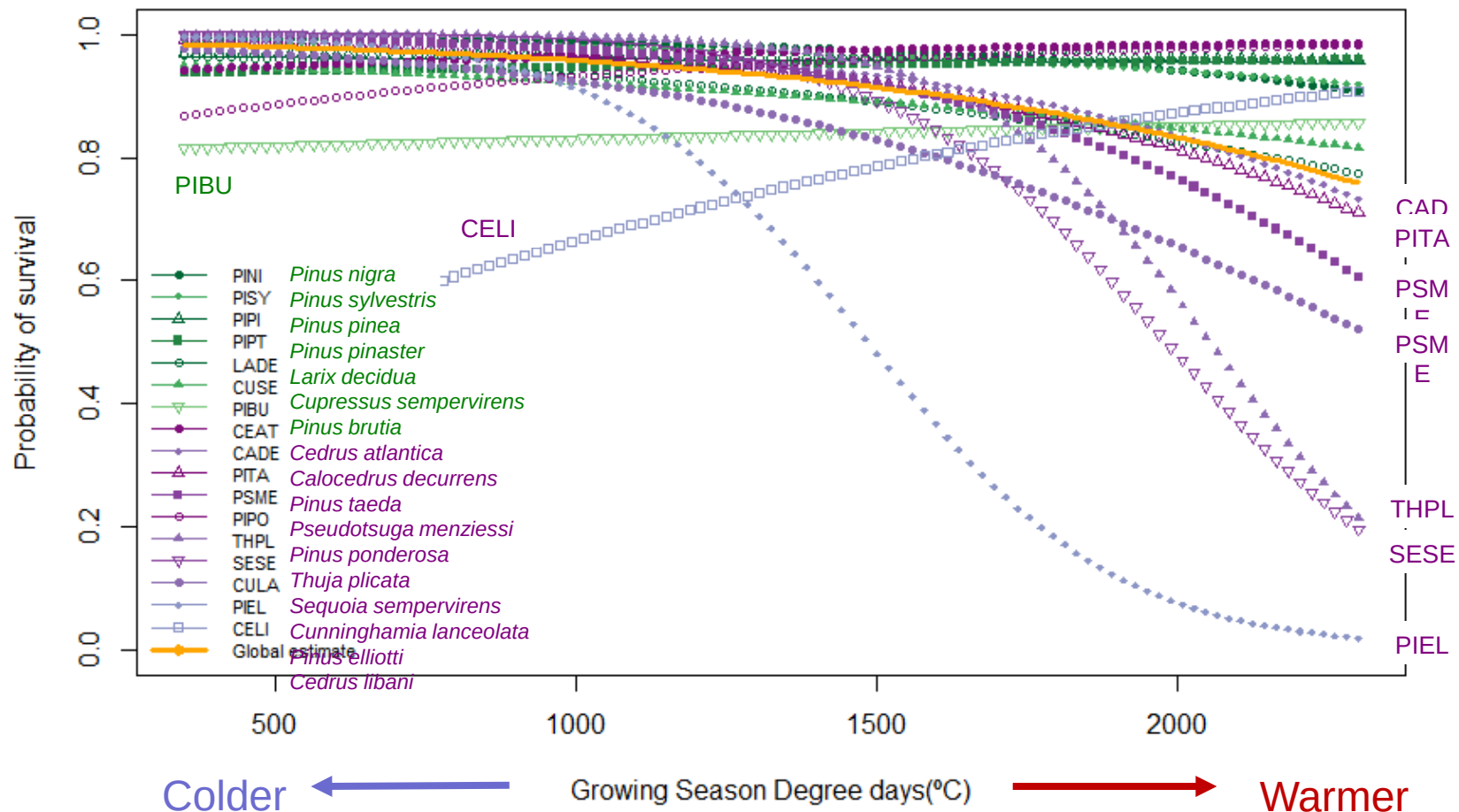


- *Acer pseudoplatanus*
- *Betula pendula*
- *Calocedrus decurrens*
- *Castanea sativa*
- *Cedrus atlantica*
- *Cedrus libani*
- *Ceratonia siliqua*
- *Cunninghamia lanceolata*
- *Cupressus sempervirens*
- *Eucalyptus nitens*
- *Eucalyptus globulus*
- *Eucalyptus gundal*
- *Fagus orientalis*
- *Fagus sylvatica*

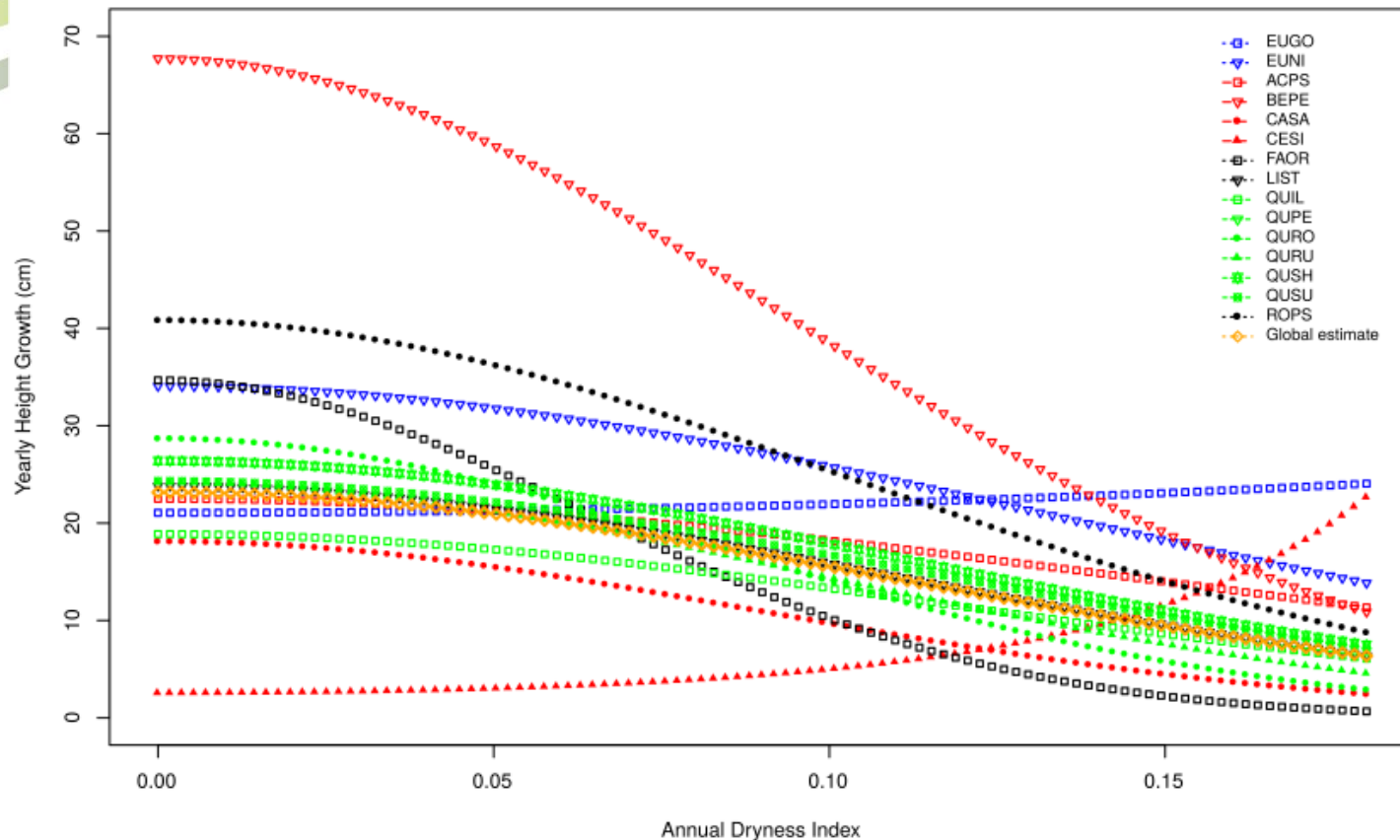
- *Larix decidua*
- *Liquidambar styraciflua*
- *Pinus brutia*
- *Pinus caribaea*
- *Pinus elliottii*
- *Pinus nigra subsp. laricio*
- *Pinus nigra subsp. salzmannii*
- *Pinus peuce*
- *Pinus pinaster*
- *Pinus pinea*
- *Pinus ponderosa*
- *Pinus sylvestris*
- *Pinus taeda*

- *Pseudotsuga menziesii*
- *Quercus ilex*
- *Quercus ilex subsp. rotundifolia*
- *Quercus petraea*
- *Quercus robur*
- *Quercus rubra*
- *Quercus shumardii*
- *Quercus suber*
- *Robinia pseudoacacia*
- *Sequoia sempervirens*
- *Thuja plicata*

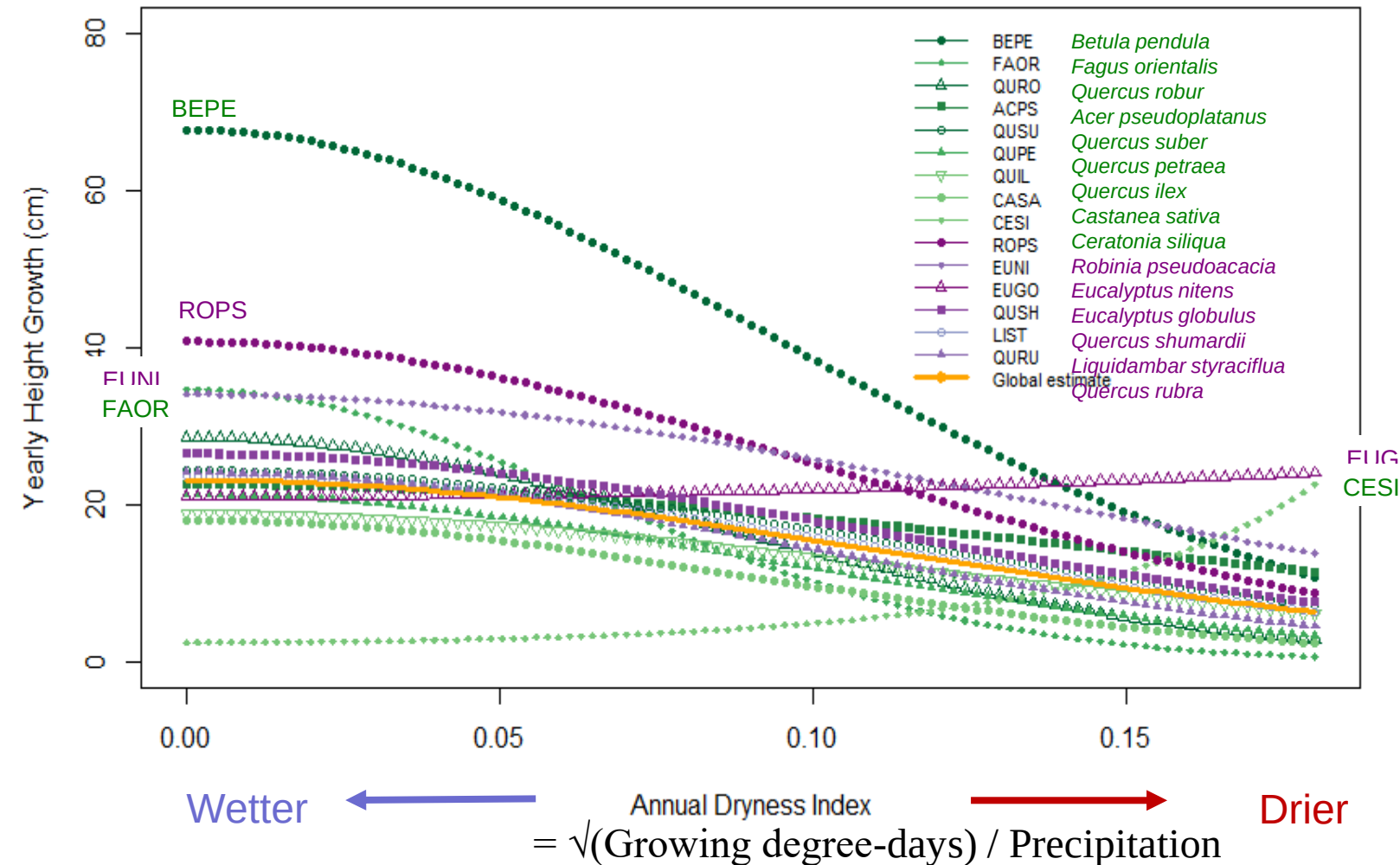
Initiative achevée : REINFFORCE un réseau dédié à l'adaptation au changement climatique



Initiative achevée : REINFFORCE un réseau dédié à l'adaptation au changement climatique



Initiative achevée : REINFFORCE un réseau dédié à l'adaptation au changement climatique



Partenariat actuel

- Un réseau de **12 partenaires** sur **4 pays** engagés pour **15 ans** (2014- 2029)
- **Financement:**
 - Mise en place (60%): Interreg Atlantic
 - Entretien depuis 2014, recherche à long terme: FONDS PROPRES DES PARTENAIRES = fonds nationaux et régionaux
- Recherche de financement/projet pour les mesures complémentaires: phénologie, sanitaire, ...



Initiative en cours : PLURIFOR Un projet dédié à la gestion des risques

Map of Europe showing the distribution of the four main types of climate.

Legend:

- Dark blue: only high mountains
- Orange: mostly high mountains
- Yellow: mostly low mountains
- Light blue: low mountains

Map Labels: North, South, East, West, North Atlantic, Mediterranean, Black Sea, Caspian Sea, Baltic Sea, North Sea, English Channel, Irish Sea, Atlantic Ocean, Arctic Ocean, North Pole, South Pole, Equator, Tropic of Cancer, Tropic of Capricorn, Arctic Circle, Antarctic Circle, Prime Meridian, 10°E, 20°E, 30°E, 40°E, 50°E, 60°E, 70°E, 80°E, 90°E, 100°E, 110°E, 120°E, 130°E, 140°E, 150°E, 160°E, 170°E, 180°E, 190°E, 200°E, 210°E, 220°E, 230°E, 240°E, 250°E, 260°E, 270°E, 280°E, 290°E, 300°E, 310°E, 320°E, 330°E, 340°E, 350°E, 360°E.

Avancée de la chalarose du frêne en France

■ 2008
■ 2009
■ 2010
■ 2011
■ 2012
■ 2013
■ 2014
■ 2015
■ 2016
■ 2017

AFORCE
RMT Adaptation des forêts
au changement climatique

Initiative en cours : PLURIFOR un projet dédié à la gestion des risques



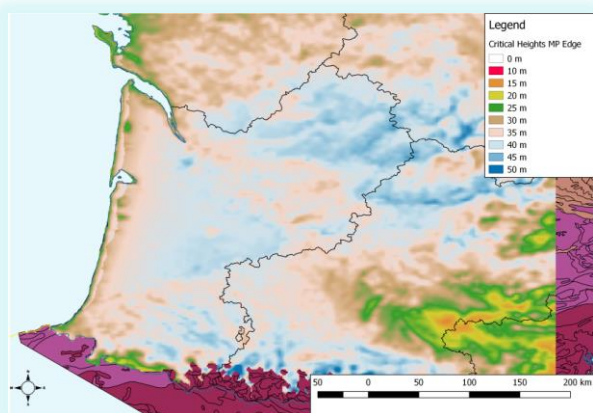
- ❑ Projet transfrontalier (Espagne, Portugal et France)
- ❑ Bilan de la gestion des risques forestiers
- ❑ Nouveaux plans (développés/améliorés) disponibles [en ligne](#) et [forum](#).
- ❑ Nouvelle Aquitaine : REAGISSEZ sur les propositions relatives au plan [tempête](#), [nématode](#) ou [risques émergents](#) en France sur le forum en français :

<https://plurifor.efi.int/fr/forum/>

8 risques font l'objet de plans de gestion développés/améliorés par le projet

Initiative en cours : PLURIFOR un projet dédié à la gestion des risques

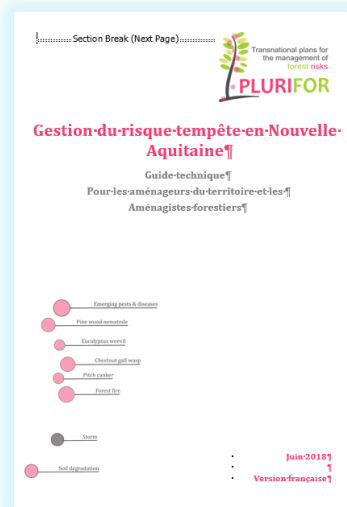
Carte de vulnérabilité des peuplements au vent



Silvalert appli smartphone pour le signalement de dégâts en forêt



Guide d'amélioration de la stabilité des peuplements



<http://www.plurifor.fr>

17 outils pour la gestion des risques mis à disposition par le projet

Initiative en cours : PLURIFOR un projet dédié à la gestion des risques



Participez/réagissez sur
www.plurifor.efi.int

Restitution finale en français le 04 Juin à Bordeaux



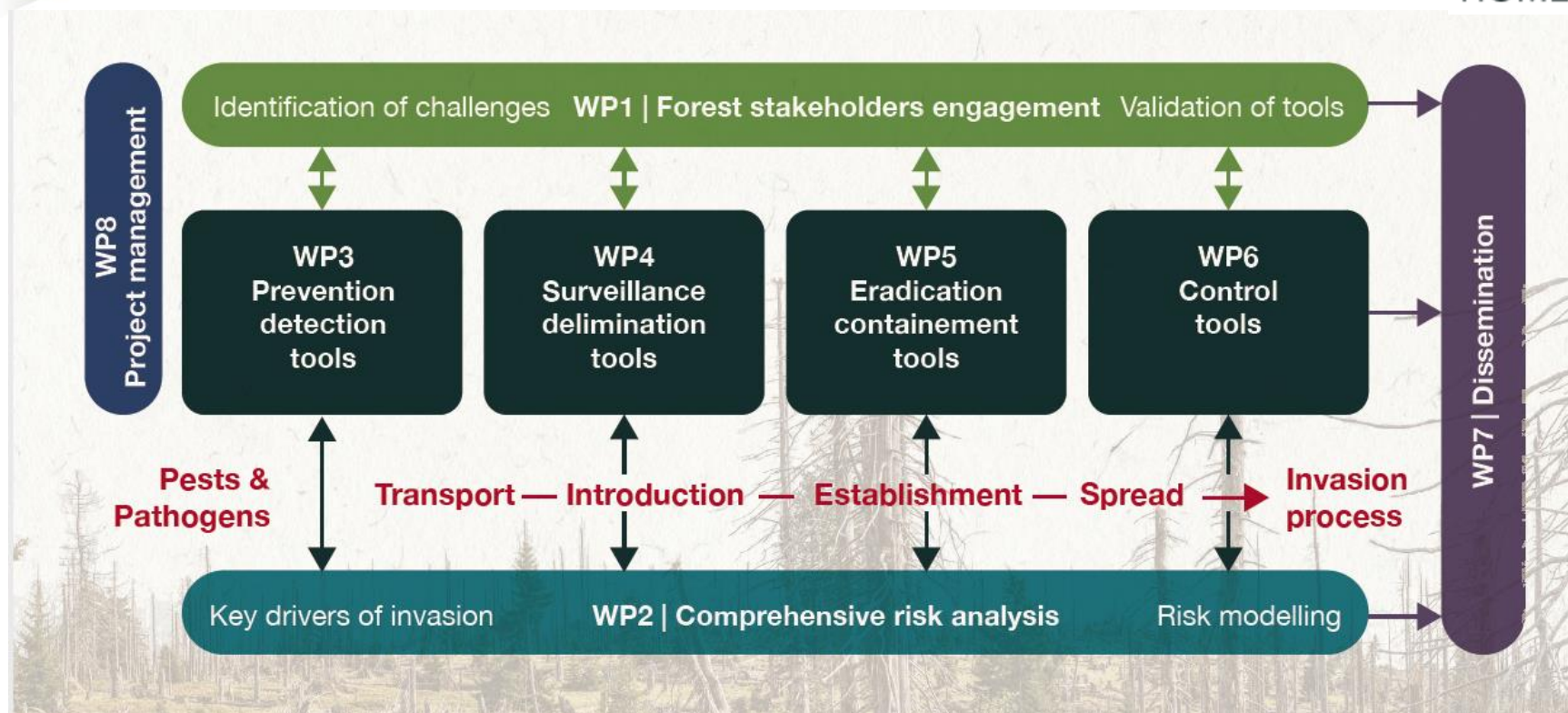
<https://efi.int/plantedforests>
Pierroton-CESTAS-France



Projet
Labélisé
par



Initiative en cours : HOMED un projet dédié aux ravageurs et pathogènes pas encore là



Initiative à venir : Pre-Act un réseau d'échange d'expert



- Projet soumis à H2020 en Fevrier 2019
- 16 partenaires européens
- Objectif principal : améliorer les actions de prévention et de préparation aux catastrophes forestières en facilitant le partage de connaissances
- Actions prévues :
 - Inventaires et partage des bonnes pratiques
 - Test et adaptation d'outils par des études de cas multi-acteurs

A vertical photograph of a forest floor with fallen brown leaves and green seedlings in the foreground, and tall trees with green foliage in the background.

AFORCE SYMPOSIUM 2019

**European Innovation Partnership
“Agricultural Productivity and Sustainability”
Opportunity for forests adaptation to climate change...**

**Pacôme ELOUNA EYENGA, Team Leader EIP AGRI SP
Montpellier (France), 2-3 April 2019**



European Innovation Partnership “Agricultural Productivity and Sustainability” Opportunity for forests adaptation to climate change...

- EIP AGRI – CONCEPTS
- EIP AGRI IMPLEMENTATION
- EIP AGRI SERVICE POINT
- UPDATES ON OPERATIONAL GROUPS

European Innovation Partnership “Agricultural Productivity and Sustainability” Opportunity for forests adaptation to climate change...

I. EIP AGRI – Concepts

■ Aim & objectives:

- To foster a competitive and sustainable agriculture and forestry that achieves more from less' and works in harmony with the environment, and ensures a steady supply of food, non-food and biomaterials: existing and new ones, in harmony with natural resources.

■ Strategy & method:

- To close the gap between research, technology and farming practices.
 - Focusing on real, existing issues and research needs from the 'field'.
 - Involving all relevant actors: researchers, farmers, businesses, industry, advisory services and NGOs.
- “Interactive innovation model”:
 - Focus on forming partnerships.
 - Uses bottom-up approaches.
 - Connects all relevant actors via a dedicated network: EIP Network.

■ Who is who ?

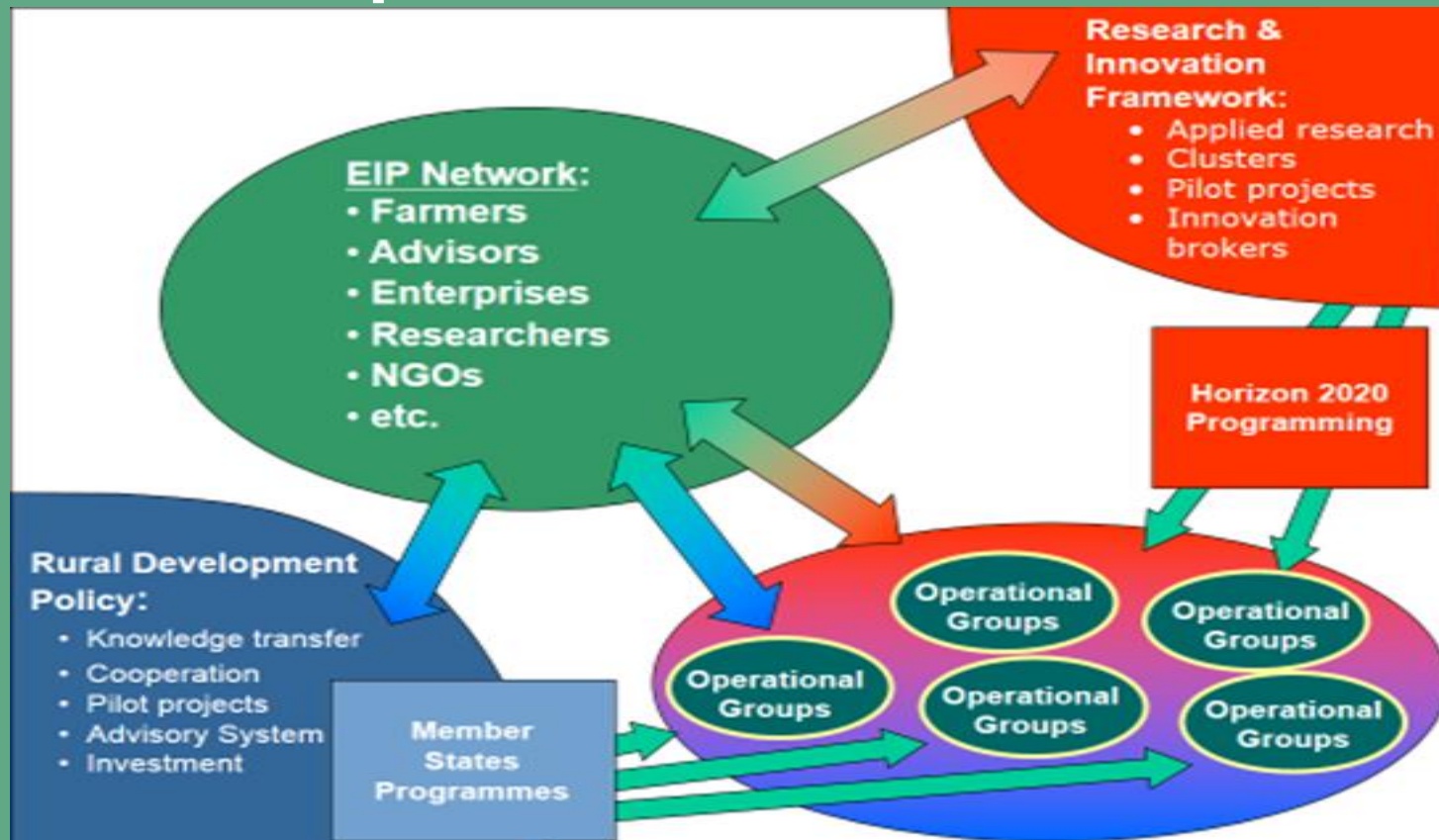
- DG AGRI – Unit B.2
- EIP Network
 - **EIP AGRI Service Point** (Brussels)
- Operational Groups



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European Innovation Partnership “Agricultural Productivity and Sustainability” Opportunity for forests adaptation to climate change...

II. EIP AGRI Implementation



European Innovation Partnership “Agricultural Productivity and Sustainability” Opportunity for forests adaptation to climate change...

III. EIP AGRI Service Point

What do we do for you?

- Helpdesk: **SHARING KNOWLEDGE**
 - Collecting and disseminating the results:
 - Operational Groups and dedicated Horizon 2020 projects.
 - Providing help to find partners
 - Information, facilitation and exchange of knowledge and experience.
 - Liaise with other, existing networks
 - in order to gather all relevant expertise and information about innovation initiatives.
 - Database
- Events: **CONNECTING PEOPLE & TACKLING...**
 - Workshops
 - Seminars
 - Conferences
- Focus Groups: **TACKLING CHALLENGES**

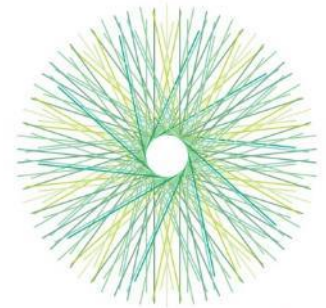
The EIP AGRI Service Point acts as a mediator in enhancing communication and cooperation between all innovation actors, including farmers, advisors, agri-business, civil society, and researchers, working at EU, national and regional level

European Innovation Partnership “Agricultural Productivity and Sustainability” Opportunity for forests adaptation to climate change...

IV. UPDATES ON OPERATIONAL GROUPS



State of play of the Operational Groups

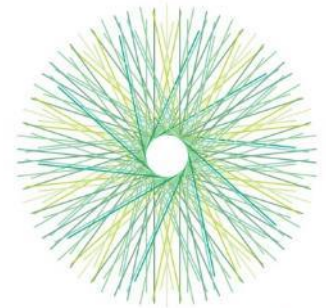


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- 872 Operational Groups funded RDP Measure 16 (February 2019)
- **Forestry + Forestry related: 10%** (DE, ES, FR, IT, IR,...)
- Topics covered:
 - Forest management, inventory
 - Forest products and services (wood and others)
 - Land management
 - Biodiversity, Nature conservation
 - Climate change, ecosystem services
 - Agroforestry (Silvipastoralism)
- Diversity of approaches on RDP: No “one fits all”
- Not supporting forestry Operational Groups: Greece, Sweden...

State of play of the Operational Groups

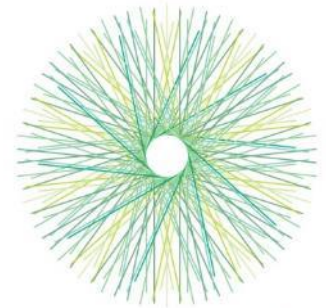
Examples



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- Pest and diseases
 - Nature-based solutions for the control of forest pests in Quercinea (ES)
 - Development of integrated strategies for the prevention of pitch canker disease in pines (+ PrevCRP) (PT)
- Forest products and services
 - Development of a prototype cross-laminated timber panel with local timber to improve the sustainability of building construction (ES)
-  Les taillis à courte rotation sont-ils une solution dans les futures bioraffineries régionales ? (FR)
-  Valorisation de l'écosystème intégré de l'agro biodiversité en forêt de Guadeloupe (VALAB) (FR - Guadeloupe)
- Forest management
 - Operational Group for integrated forestry management in Basilicata (IT)
 - ECOMONTADO XXI - Agroecology applied to the design of the new cork-oak forest ("Montado") (PT)
-  SylviConnect : Une sylviculture durable et performante pour la Bretagne (FR)
 - Fire and invasive species (PT)

State of play of the Operational Groups

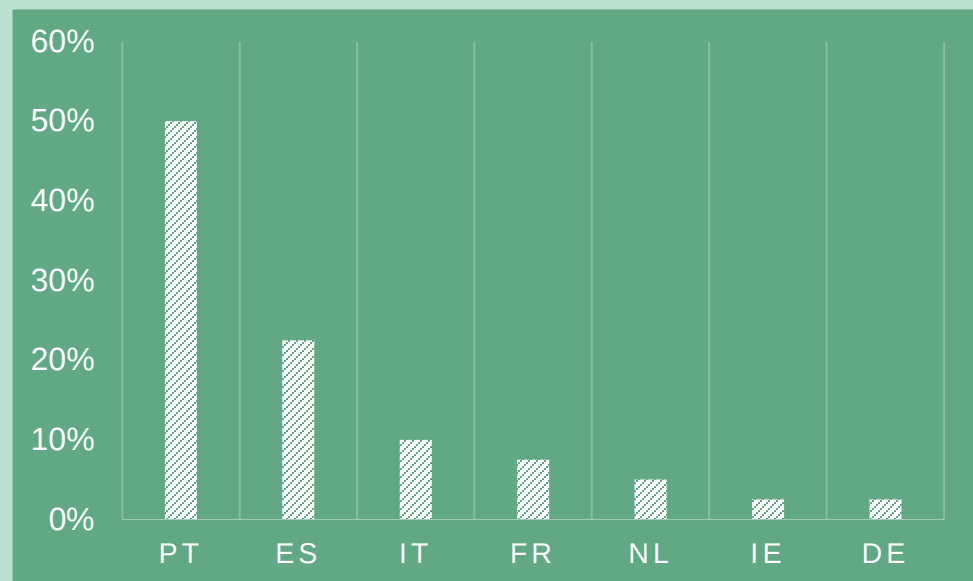


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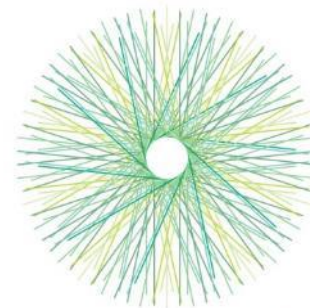
Forestry/Forest related per country

Only source: SFC - EIP AGRI database

PT	20	50%
ES	9	23%
IT	4	10%
FR	3	8%
NL	2	5%
IE	1	3%
DE	1	3%
TOTAL	40	100%



Towards a unique database: EIP AGRI Database of Operational Groups



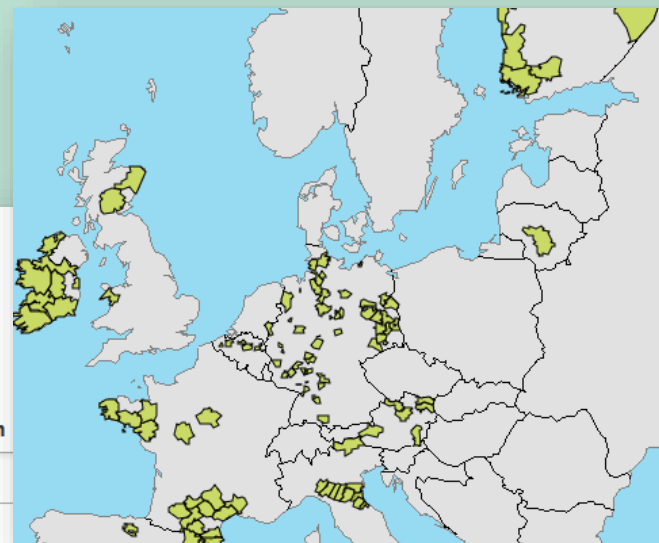
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- [EIP-AGRI](#) > [My EIP-AGRI](#) > [Operational Groups](#)
- **Database of Operational Groups**
- **Contacts of country/region**
-

European Commission > EIP-AGRI > My EIP-AGRI > Operational groups > Projects - Operational groups

Projects - Operational groups

Title	Keywords	Geographical location
	Forestry x	Choose some options
	Language	Agricultural sectors
	Choose some options	Choose some options
Partner's categories		
Choose some options	Search Reset	





EIP-AGRI Focus Groups

Agroforestry: woody vegetation

Animal husbandry

Benchmarking farm performance

Carbon storage in arable farming

Circular horticulture

Dairy production systems

Diseases and pests in viticulture

Ecological Focus Areas

Fertiliser efficiency

Forest biomass

Forest practices & climate change

Frost damage

Genetic resources

Grazing for Carbon

High Nature Value

IPM for Brassica

Livestock emissions

Mixed farming systems

New entrants into farming

Nutrient recycling

Organic farming

Permanent grassland

Precision farming

Protein crops

Reducing food loss on the farm

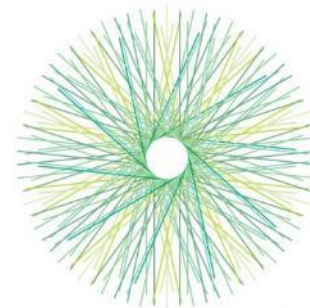
Renewable energy on the farm

Short food supply chains

Soil organic matter

Soil-borne diseases

Water & agriculture



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Opportunity for forests adaptation to climate change...

Thanks very much for your attention!

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<http://ec.europa.eu/agriculture/eip/>

Focus Group Pratiques forestières et changement climatique



20 experts européens, réunis pour :

- Identifier les facteurs de succès et les contraintes,
- Sélectionner des innovations
- Proposer des idées pour des Groupes opérationnels,
- Identifier des besoins de recherche



Conclusions du Focus Group



- Faciliter le flux entre recherche, expérimentation, outils vers la pratique sylvicole,
- Améliorer la sensibilité des décideurs au changement climatique, de leur perception des risques et de leurs besoins de communication
- Mettre en œuvre des politiques de long terme, et d'incitation économique à l'adaptation

Quelques idées de mesures prioritaires



- Conjuguer adaptation et atténuation
- Sylvicultures intelligentes, et ressources génétiques,
- Gestion adaptative des petites propriétés
- Limiter les risques de feux,
- Faciliter les échanges entre recherche, gestion, et industrie du bois,
- Encourager les utilisations innovantes du bois,

Sujets pour des Groupes opérationnels



- Sylviculture pour favoriser la régénération des feuillus
- Utiliser les outils d'aide à la décision, les modèles, pour élaborer les recommandations d'adaptation,
- Améliorer la régénération assistée, reboisement dans les zones sèches,
- Développement des systèmes d'alerte précoces, veille
- Adopter des plans d'aménagement prenant en compte les risques,
- Analyser la contribution à l'atténuation dans la filière forêt bois....

Pour en savoir plus



- <https://ec.europa.eu/eip/agriculture/en/content/focus-groups/new-forest-practices-and-tools-adaptation-and>