



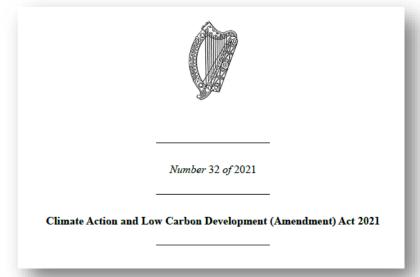
Content

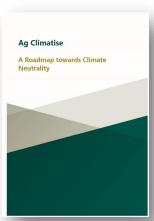
- Context
- What is agroforestry?
- Agroforestry in Europe
- EU experience



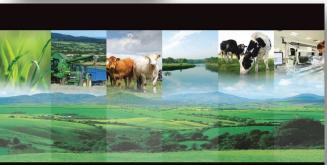
Context

Committed to reduce GHG emissions by 51% by 2030.





- AgClimatise A roadmap towards neutrality
- ACTION 13: to review and analyse the full suite of land diversification options to consider alternative economic
 opportunities that could assist with a just transition to lower emissions land use options, including
 agroforestry.
- ACTION 14: Expand areas of broadleaved and native woodland planted through **initiatives such as Agroforestry**; Encourage diversification of different types of forestry systems **such as agroforestry**.



SSAPRI report (p. 21) identifies the need to

"Develop technologies/practices to decrease environmental impacts (on water, air, and biodiversity) without negatively affecting production and profitability at farm level"





Context

- EU Forest Strategy 2030
 - Member States are encouraged to accelerate the roll out of carbon farming practices, for instance via eco-schemes on agroforestry
- EU 3 billion tree planting pledge
 - Not only expanding existing forests, but also focusing on agroforestry and trees in agricultural land



The 3 Billion Tree Planting Pledge For 2030

Accompanying the documen

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

New EU Forest Strategy for 2030

{COM(2021) 572 final} - {SWD(2021) 652 final}

What is Agroforestry?





Agroforestry - Definition

- Agroforestry is a collective name for land-use systems and technologies where woody perennials (trees, shrubs, palms, bamboos, etc.) are deliberately used on the same land-management units as agricultural crops and/or animals, in some form of spatial arrangement or temporal sequence. In agroforestry systems there are both ecological and economical interactions between the different components.
- Agroforestry can also be defined as a dynamic, ecologically based, natural resource management system that, through the integration of trees on farms and in the agricultural landscape, diversifies and sustains production for increased social, economic and environmental benefits for land users at all levels.
- In particular, agroforestry is crucial to smallholder farmers and other rural people because it can
 enhance their food supply, income and health. Agroforestry systems are multifunctional
 systems that can provide a wide range of economic, sociocultural, and environmental benefits.

FAO



Agroforestry - Definition

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FAO



EC Agroforestry definition

- Land-use systems and practices where woody perennials are deliberately integrated with crops and/or animals on the same parcel or land management unit without the intention to establish a remaining forest stand.
- The trees may be arranged as single stems, in rows or in groups, while grazing may take place inside the parcels (silvoarable agroforestry, silvopastoralism, grazed or intercropped orchards) or on the limits between parcels (hedges, tree lines)



EC Agroforestry definition

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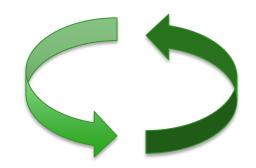
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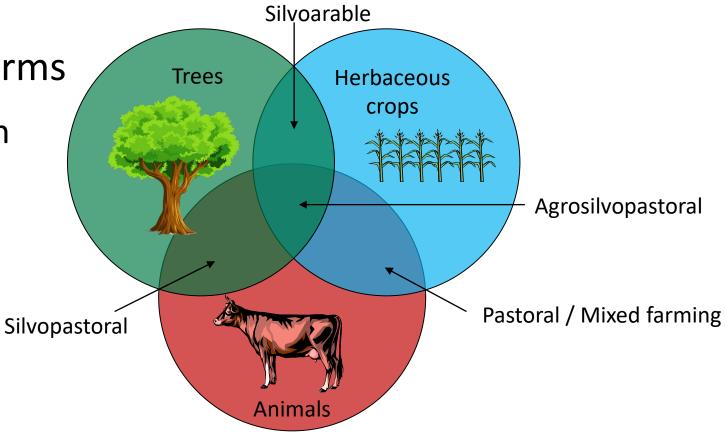


Agroforestry is -

Growing trees on farms

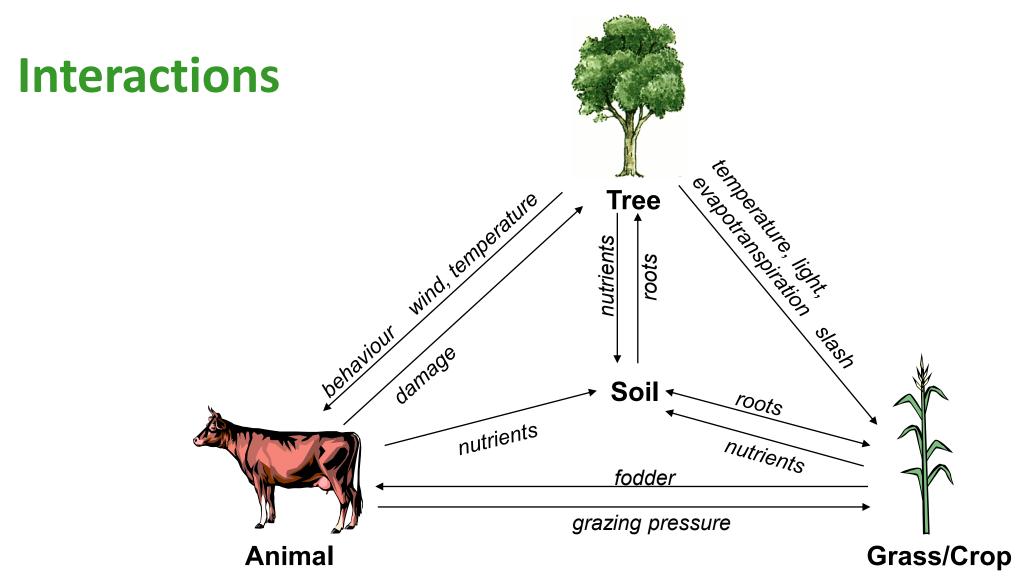
 Interactions between agriculture and tree components





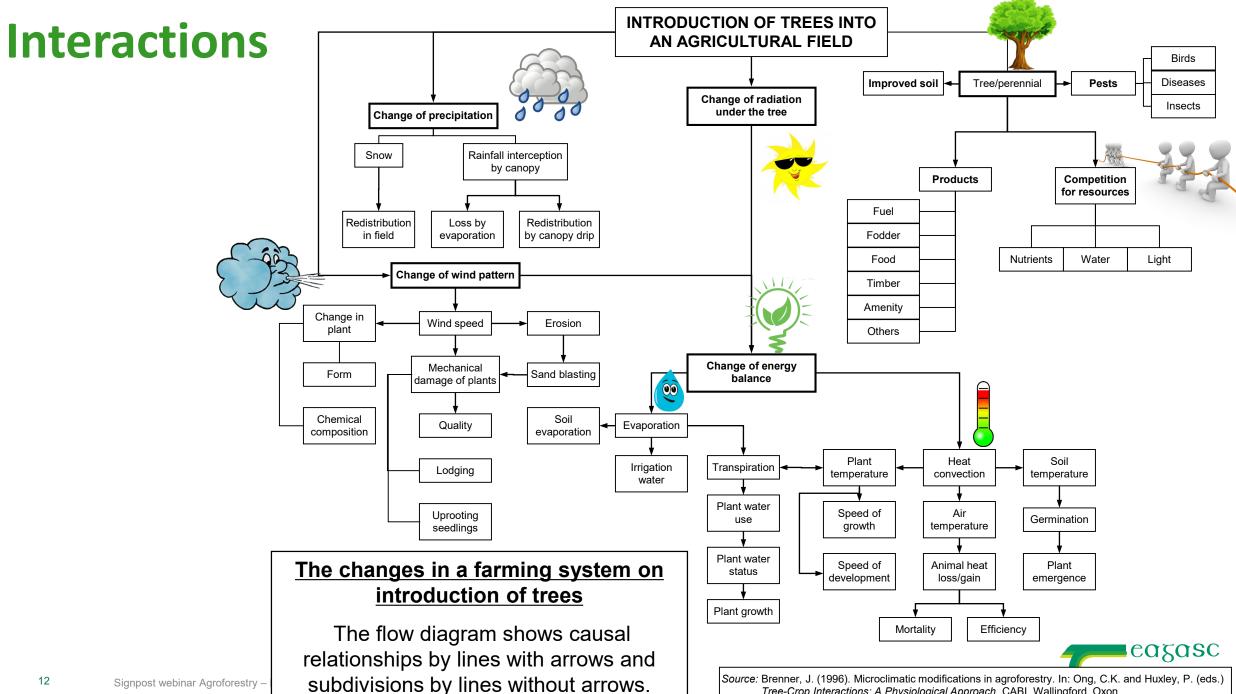
Redrawn from: Combe, J. (1982). Agroforestry techniques in tropical countries: potential and limitations. Agroforestry Systems 1: 13-27





Redrawn from: Étienne, M. (1996). Research on temperate and tropical silvopastoral systems: a review. In: Étienne, M. (ed.) Western European Silvopastoral Systems. INRA: Paris. pp. 5 – 19





Where to have trees??

Linear within fields e.g. alleys; contour planting

Scattered within fields e.g. parkland; regular spacing

Boundaries

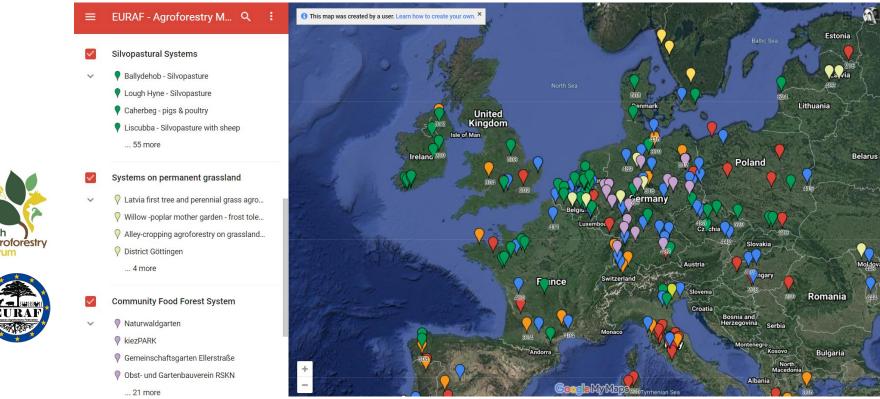
e.g. hedgerows; shelterbelts; woody riparian zones; screening





Agroforestry in Europe

- 15.4 million ha of AF in Europe = 9% UAA.
 - 15.1 million ha is silvopastoral (AGFORWARD project)





Some EU results

- Can contribute to climate change mitigation & adaptation
- Supports biodiversity
- Prevent soil erosion & loss
- Improve nutrient cycling
- Reduced external inputs required
- Beneficial to animal welfare

