

Harnessing **forest genetic resources** for increasing options in the face of environmental and societal challenges



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# What will emerge from OptFORESTS?



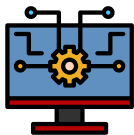
**Recommendations for deployment of adaptable forest reproductive material (FRM) matched to future climates**, including unique tree lineages for forest ecosystem restoration and management.



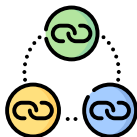
A **European network of 28 next-generation common gardens** containing provenance and species mixtures and unique tree lineages for future climate change adaptation and forest biodiversity research.



**Forest management and (low-input) breeding strategies that optimise the use of genetic diversity for adaptation**, especially aimed at the establishment and management of new mixed forests.



A genetic module for **training software simulating the impact of silviculture on genetic diversity (marteloscopes)** to raise the awareness on new forest genetic resources-oriented management practices.



**FOREMATIS and EUFGIS Information Systems** linked in order to support end users when making decisions about where to source or plant FRM.



Proposals for expansion of capacity (including new techniques for FRM production) and **increased cooperation among nurseries**, based on in-depth analysis of the nursery sector in Europe.



*OptFORESTS is aligned with these UN Sustainable Development Goals*

## What to expect in the long term?

Conservation of unique tree lineages for forest ecosystem restoration

Sustainable use of forest genetic resources in a climate change context

Biodiversity and ecosystem services provision in forestry

Access to a wider range of breeds with a broadened genetic base

Enabling transformative changes in society