15th Steering Committee Meeting

EUROPEAN FOREST GENETIC RESOURCES STRATEGY

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Tuesday 24th November 2020 Virtual Meeting





... Let's start with some history





Back in 2001...

... the status of FGR conservation in Europe:

- Conservation strategies varied among countries
- Mainly in situ as network of unit
- Diversity of ideas (Design, Area, Minimum size...)
- Difficulty on the availability and quality of data
- Reliable assessment was almost impossible

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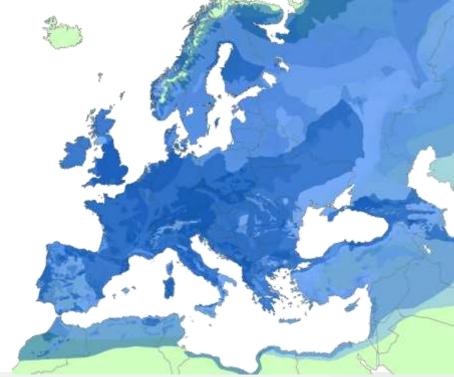
Need for pan-European FGR conservation strategy

A discussion started...

Genetic diversity varies within species ranges

 Species do not restrict themselves to political borders

 All countries of each species distribution need to take part in conservation





Two ideas were born...

... that turned into two vital projects in EUFORGEN's history

EUFGIS project (2007-2011)



 Pan-European minimum requirements and data standards

for genetic conservation units of forest trees



- A network of National Focal Points
- EUFGIS information system





















The Pan-European strategy for genetic conservation of forest trees

Current strategy (published in 2015)



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Concepts of the current strategy

- Works in absence of genetic knowledge
- Defines the targeted level of genetic conservation for forest trees at the pan-European level
- Presents the criteria for selecting dynamic conservation units for the core network
- Identifies gaps in the current conservation effort of the species for further action





Why do we need a new strategy?

- The current strategy defines only conservation, a more holistic approach needs to be considered
- "Layers" are only based on phenotypic and environmental data
- * New "layer" based on **genetic data** is needed
- Set priorities among species
- Accurate environmental classification





Drafting Team

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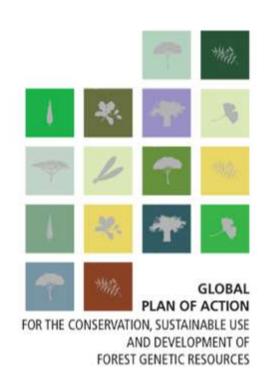
Coordinators of relevant recent and ongoing research projects and networks

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- Santiago C. González-Martínez (EVOLTREE)
- Ivan Scotti (FORGENIUS)

EUFORGEN Secretariat

- Michele Bozzano (EUFORGEN-EFI)
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Global Plan of Action – FAO

4 Priority Areas

Priority Area 1

Improving the availability of, and access to, inofrmation on FGR

Priority Area 2

In situ and ex situ conservation of FGR

Priority Area 3

Sustainable use, development and management of FGR

Priority Area 4

Policies, institutions and capacity-building



Main Chapters

Chapter 2
Conservation and sustainable use of forest genetic resources

Chapter 3
Enabling the transition





Main Chapters

Chapter 2 Conservation and sustainable use of forest genetic resources

- Improving the availability of, and access to, information on forest genetic resources
- Conservation of Forest Genetic Resources
- Sustainable use, development and management of forest genetic resources







Improving the availability of, and access to, information on forest genetic resources

- Characterisation of Forest Genetic Resources
- Availability and Access to Information
 - Information Needed for the optimal Conservation and Use of FGR
 - Information systems
- Training and Operability of the Information System



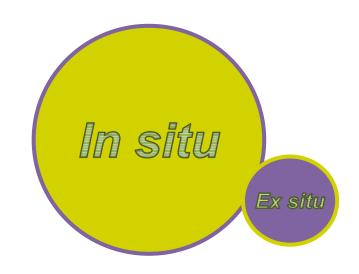




Conservation of Forest Genetic Resources

In situ and Ex situ Conservation

- Dynamic Conservation, In situ and Ex situ
- Static Conservation, Ex situ
- Complementarity of In situ and Ex situ Conservation





Conservation of Forest Genetic Resources

Establishing a Conservation Procedure for FGR

- Main Principles
- Genetic Conservation Units
- Pan-European core network
- Selecting GCUs for the core network
- Management and monitoring of GCUs
- Reporting
- Prioritisation at the European level and Operability of the IS





Sustainable use, development and management of forest genetic resources

Status and recommendations

- Balancing genetic gain and genetic diversity
- Information systems for FRM and sharing good practices
- Non-local forest reproductive material
- Reinforce research and science-based decisions
- Integrate conservation recommendations in forest management
- Threats to forest health









Main Chapters

Chapter 3 Enabling the transition

- Networking and capacity development
- Policies
- Science to support the strategy
- Communication and outreach





Enabling the transition

Networking and capacity development



- EUFORGEN membership
- EUFGIS expansion
- Forest management and GCUs
- Neighbouring countries







Enabling the transition

Policies

 Conservation of forest genetic resources in EU and international policies

Access and benefit sharing

- National programmes
- Support for genetic monitoring

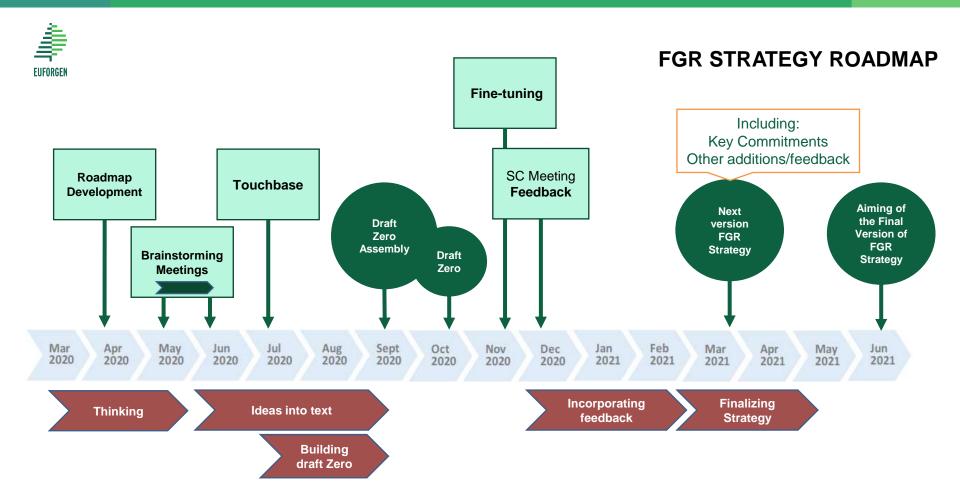
Science to support the strategy

Research needs

Communication and outreach









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EUFORGEN Secretariat

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Annexes

Annex 1: Implementation plan

Annex 2: State of the Art

Annex 3: Minimum requirements for dynamic GCU

Annex 4: Minimum requirements for static ex situ conservation

Annex 5: Environmental classification

Annex 6: Model species