



Conservation and Utilisation of Forest Genetic Resources



□ Until January 1st 2006



Conservation and Utilisation of Forest Genetic Resources



- ❑ **Until January 1st 2006**
- ❑ **From that day on...**
 - broadening of the research spectrum with other biota
 - mammals
 - insects
 - fish species
 - herbaceous species

Research Themes

CONSERVATION and USE
of
FOREST GENETIC RESOURCES

Conservation and Use
of Autochthonous
Gene Resources

Forest
Reproductive
Material

Selection and Breeding
of Forest Tree Species

□ Autochthonous Trees and Shrubs

- inventory of autochthonous populations / individuals
- 1997 → 2007
- delineation of regions of provenance (genetic and morphological studies)
- *in situ* conservation ??
 - large number of fragmented locations
 - variety of owners
 - public awareness – sensitisation
- ex situ conservation
 - autochthonous seed orchards
 - production of autochthonous planting stock
- clonal banks of endangered species (*Populus nigra* – *Malus sylvestris* – *Ulmus laevis*)

- **Selection and Breeding of Forest Tree Species**
 - objective: timber production
 - S&B of *Fast Growing* Broadleaves
 - Poplar – Willow (tree forming)
 - clonal strategy
 - poplar as a *genuine* forest tree species
 - S&B of *Noble* Broadleaves
 - Wild cherry – Common ash
 - generative strategy



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- **Selection and Breeding of Forest Tree Species**
 - and what about

□ Selection and Breeding of Forest Tree Species

- and what about **Conifers ??**
- complete stop since about 10 years
 - NO new research projects
 - NO follow-up of existing experimental plots
 - NO management of basic material (seed orchards, seed stands)
 - the **black** list
 - Pinus sylvestris
 - Pinus nigra var. Corsicana
 - Pseudotsuga menziesii
 - Abies grandis
 - Larix decidua
 - Larix eurolepis
 - Picea abies



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□ Forest Reproductive Material

- Contact Point FRM
- yearly assessment of seed production in approved and recommended seed sources
- distribution of information to nurseries and seed merchants

□ Infrastructure

- 35 ha of experimental nurseries
- 350 m² of greenhouses
- laboratory
 - phytopathology
 - molecular genetics
 - *in vitro* propagation

□ Staff

- 7 researchers
- 10 technicians (field & lab)
- 12 work men