

International Workshop
Forest adaptation to climate change:
countries current situation and
experiences feedback.
“Synthesis”

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Contents

- Common present issues
- Specific key issues
- Potential common future issues

Common background

- Forests are much concerned by climate change, already now and in the future
- From steadiness targets to evolving goals
- Magnitude and timing are uncertain
- Uncertainty will remain (science only reduces it very partly)
- Decisions have to be made now (prevention, regeneration)
- Decisions have to be flexible
- Complex issue in a moving environment that need exchanges at regional, country and international levels.

Common activities

- Share knowledge on
 - Vulnerable sites, species
 - Research results/Management needs
 - Monitoring and information systems
 - Workshops, extension, guidelines, websites...
- Develop adaptation capacity
 - Decision support tools
 - Possible strategies (suitable species, diversification, shorter rotations...)
 - Involvement of practitioners, owners, stakeholders
 - Financial means have to be adapted also
 - Links between different scales
- Continuously improve this work-in-progress

Specific issues in France

- A force network is a strength
- Many small projects in order to adapt tools
- For example:
 - A large range of potential species and provenances is investigated
 - Climatic alert zones are defined
 - Analysis of water stresses
 - Diagnoses of stands, sites/climate, risks

Specific issues in Canada

- There is a “will”
- Many activities and reports
- Importance of the socio-ecological system
- Integration of stakeholders at local level
- Companion modelling is used
- Indicators about climate change
- Impact assessment for the forest sector

Specific issues in UK

- Strategy for UK and its nations
- UK Forestry Standards
- Ecological Site Classification (ESC)
- Adaptation following novel forestry
- Demonstration projects

Specific issues in Central Europe

- Importance of Norway spruce
- In Switzerland:
 - Priorities towards protective function, vulnerable sites and species (mixture)
 - Specific research program
- In Germany
 - Proactive strategies vs stabilization
 - Decision support tool
- In Austria
 - Many alternative decision support tools

Specific issues in Iberic peninsula

- Importance of water efficiency, wildfires
- In Portugal
 - Role of forest certification
 - Forest intervention zones (ZIF) to cope with fragmented ownership
 - The cork oak case
- In Catalonia
 - Complex ecosystems
 - Multifunctional management and silvicultural models (unit/landscape levels).

Some potential common future issues

- It is useful to share experiences both from
 - common present issues
 - specific key issues
- Science/decision interface
 - Exchanges are needed in both directions
 - Information is both too much and missing
 - It should be made actionable (selected, simplified, directed toward implementation)
 - Workshops, training courses, serious games

Some potential common future issues

- Improve the analysis
 - Monitoring, models, indicators...
 - Provenances (in addition to species)
 - Socio-economic aspects
- Consider forestry as a whole (multiple ecosystem services)
- Link forest adaptation with sustainable forest management

Some potential common future issues

- Regional or local issues should be more and more considered:
 - in methodological terms
 - In close link with practitioners
 - with further elaboration from examples
- Go on national approaches
- Go on international approaches!
- European Innovation Partnerships supply a major opportunity

Thank you for your attention!