

Forest resilience – what is needed for disturbance monitoring



C&I as key tool

FOREST EUROPE defined the pan-European concept of **Sustainable Forest Management** in 1993¹.

FOREST EUROPE has led to achievements such as the internationally agreed **guidelines**, **criteria and indicators** for Sustainable Forest Management.

- National forest inventories as backbone
- Focusing on SFM trends
- Allow for trans-national comparability

FOREST EUROPE, together with FAO and UNECE, produces the report "State of Europe's Forests" (SoEF) every five years

¹Helsinki Resolution "General Guidelines for the Sustainable Management of Forests in Europe"

The fundamentals...

C2

Forest Ecosystem Health and Vitality

Indicators

2.1 Deposition and concentration of air pollutants

Deposition of air pollution has been continuously
decreasing since 1997



2.2 Soil condition Soil properties show limited changes



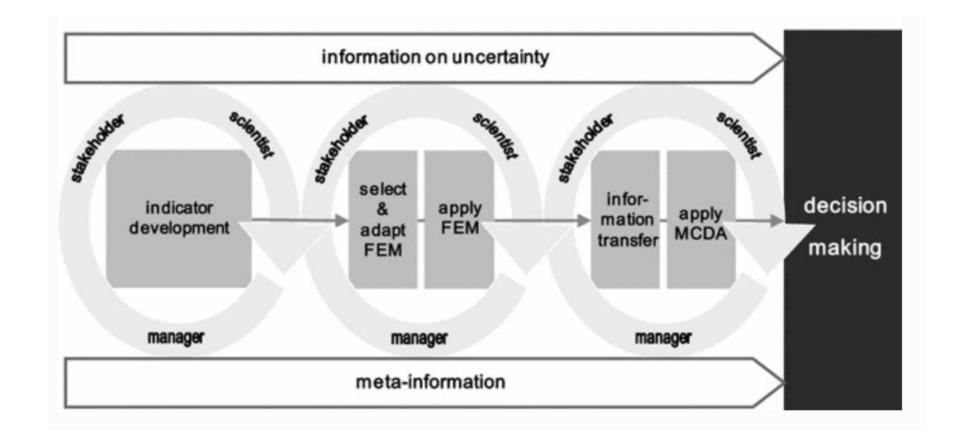
2.3 Defoliation The condition of European forests is apparently deteriorating, with increasing mean defoliation of the main tree species.



2.4 Forest damage About 3% of European forests are damaged, mainly by wind, insects, ungulate browsing, and forest fires.



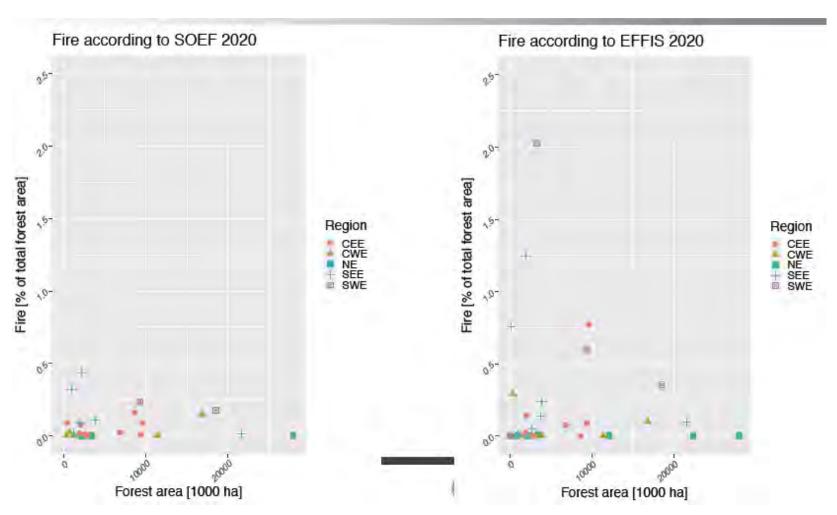
More than data...



A new era for SFM

- Relate forest data to resilience questions and risk considerations (ideally, for the value chain)
- Check C&I for their ability to answer forest questions and the requirements for additional information to create new SFM narratives
- Develop a set of key indicators that are bullet-proof
- Connect data sources and improve reliability and consistency of forest information

Are we there?



Some conclusions (from a European perspective)

- Forest damage reporting to be improved (post-damage event surveys or via NFIs).
- Data from international data providers should be used as far as possible (e.g. EFFIS)
- The volume of the marketed salvage timber should be included as an attribute in national reporting, market effects of large-scale forest damages.
- An annual query for damage events affecting large areas or resulting in large amounts of salvage timber should be implemented.
- Reporting is to be adjusted to avoid double counting.

Forest Risk Knowledge Mechanism

- A new platform for information related to forests risks in the context of FOREST EUROPE
- International cooperation on damages and risk prevention
- Not forget about socio-ecological resilience!
- Resilience indicators ex-ante monitoring of risks to be fostered





Ministerial Conference on the Protection of Forests in Europe

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