

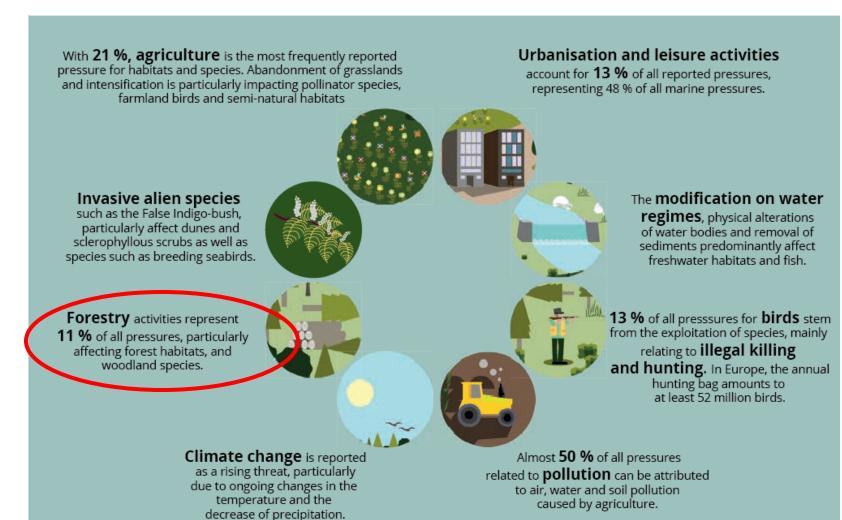
Biodiversity

Implications for forests in the ECE region

Michael Köhl, Hamburg University

San Marino, 20-23 November 2023

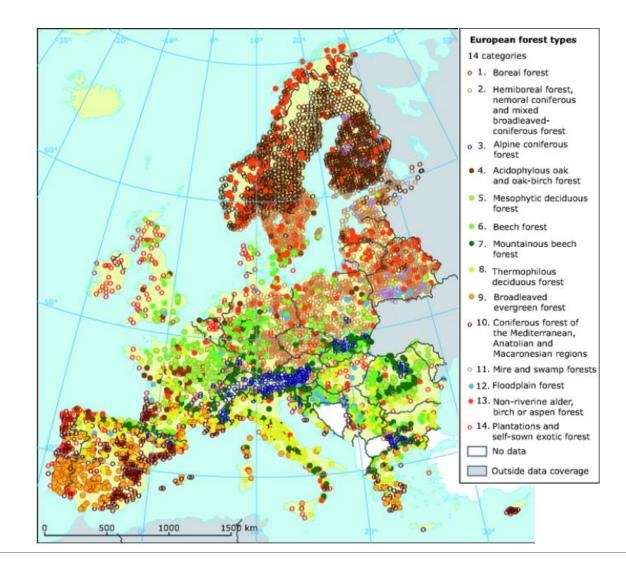
What causes biodiversity loss in Europe?







Biodiversity of European forests





Source: EEA

What affects the biodiversity of a forest?

Trees: species, age, structure, size, spatial

arrangement, vitality,

Stand: spacing, management history, species

composition,

Soil: physical and chemical properties,

Topography: slope, aspect, elevation,

Disturbances: biotic, abiotic, human induced

Climate: precipitation, temperature, length of growing

season,...

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Σ: Biodiversity is affected by local conditions



Biodiversity - one of many demands

Market liberals

Bioenvironmentalists



Institutionalists

Social greens

Labels according to Clapp & Dauvergne (2005)



Biodiversity – a source of dispute

Market liberals

Bioenvironmentalists



Institutionalists

Social greens



Biodiversity – dispute resolution

EU policies related to the forest sector



Source: Lier, 2023



Biodiversity – dispute resolution

Segregation or integration?



Blackforest, Germany



Bialowieza Natl. Park, Poland



Emmental, Switzerland



Biodiversity – the future



Source: Michael Boettinger (DKRZ), Jochem Marotzke



Biodiversity – restoration or adaptation







Biodiversity – restoration or adaptation











Biodiversity – future reporting



Objective?

- Current state/ trends (→pan-European indicators)
- Progress towards maintaining/ enhancing biodiversity (→response)



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Source: OECD, 2019







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