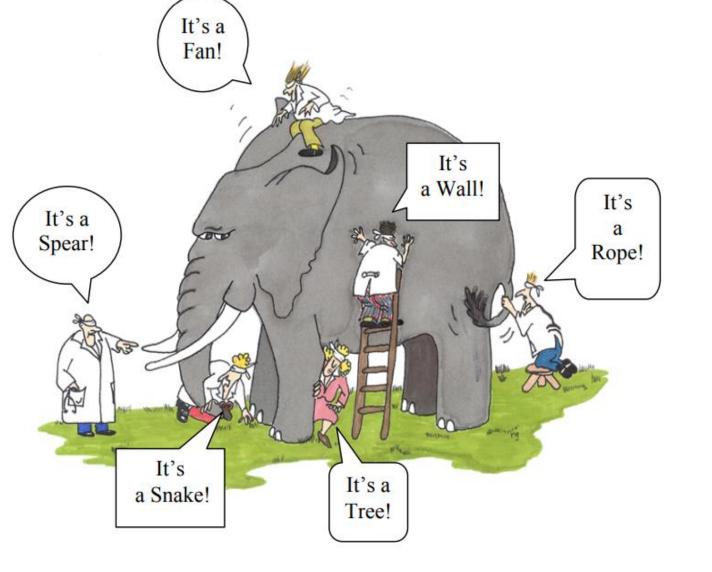


What science can tell us *about* Forest Biodiversity in Europe

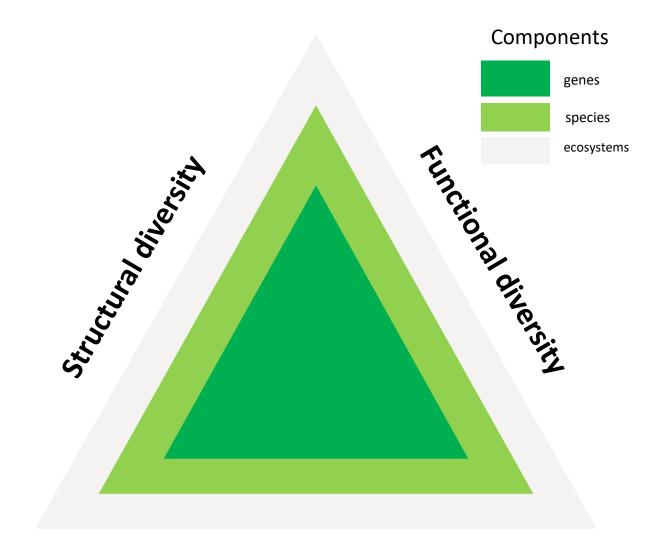
Helga Pülzl and Bart Muys

What is biodiversity?



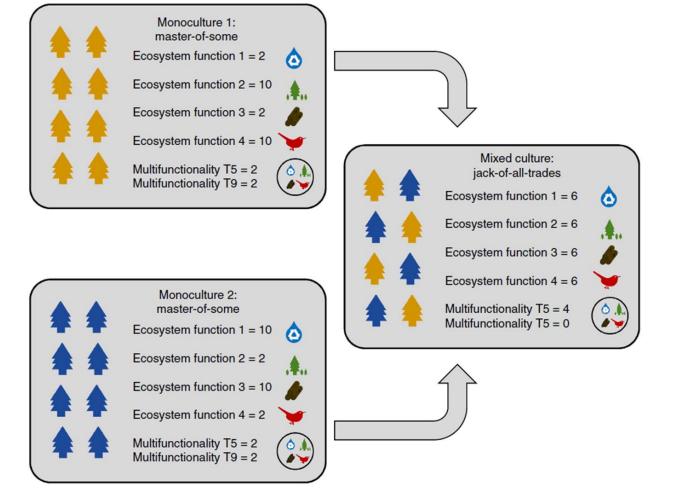
Source: Himmelfarb et al 2002: 1526 (artist: G. Renee Guzlas). All rights reserved ©. Reproduced by permission of J. Himmelfarb, P. Stenvinkel, T.A. Ikizler and R. M. Hakim.

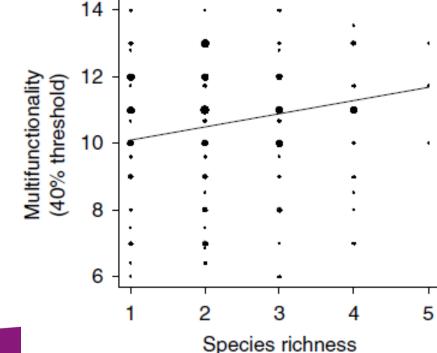
Elements of forest biodiversity



Composition

Dimension functional diversity

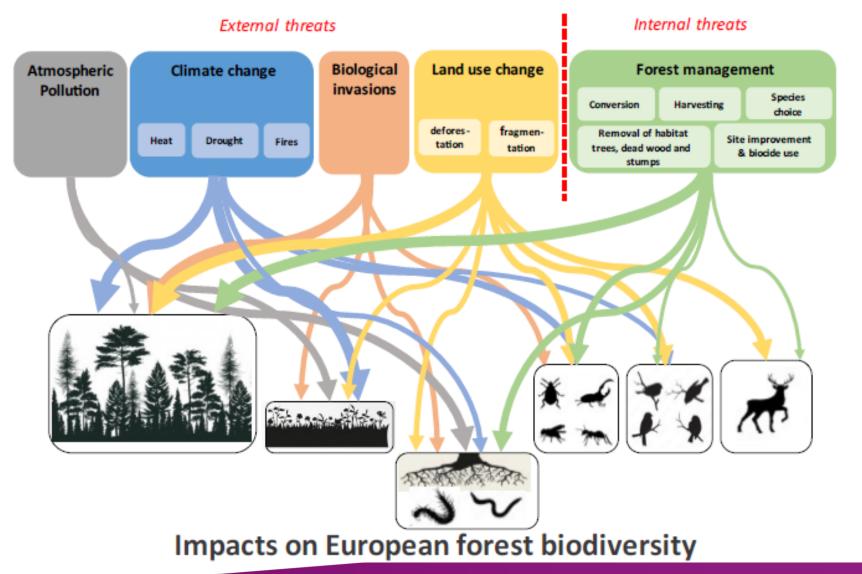




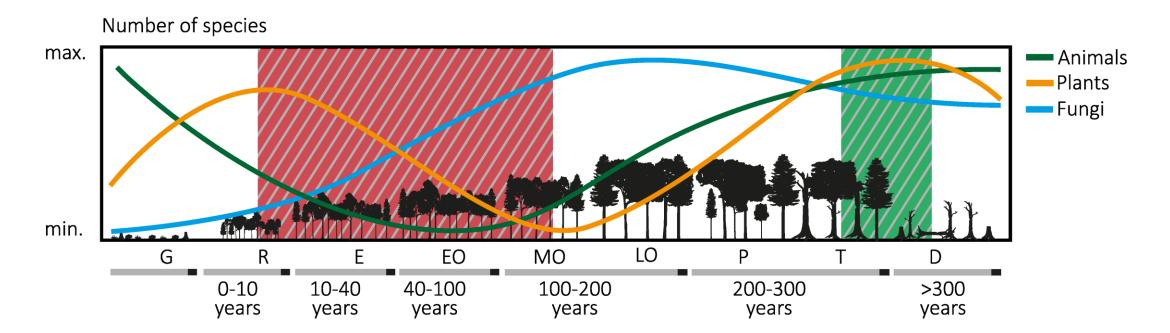


van der Plas et al. 2016, Nature Communications

Threats to European forest biodiversity

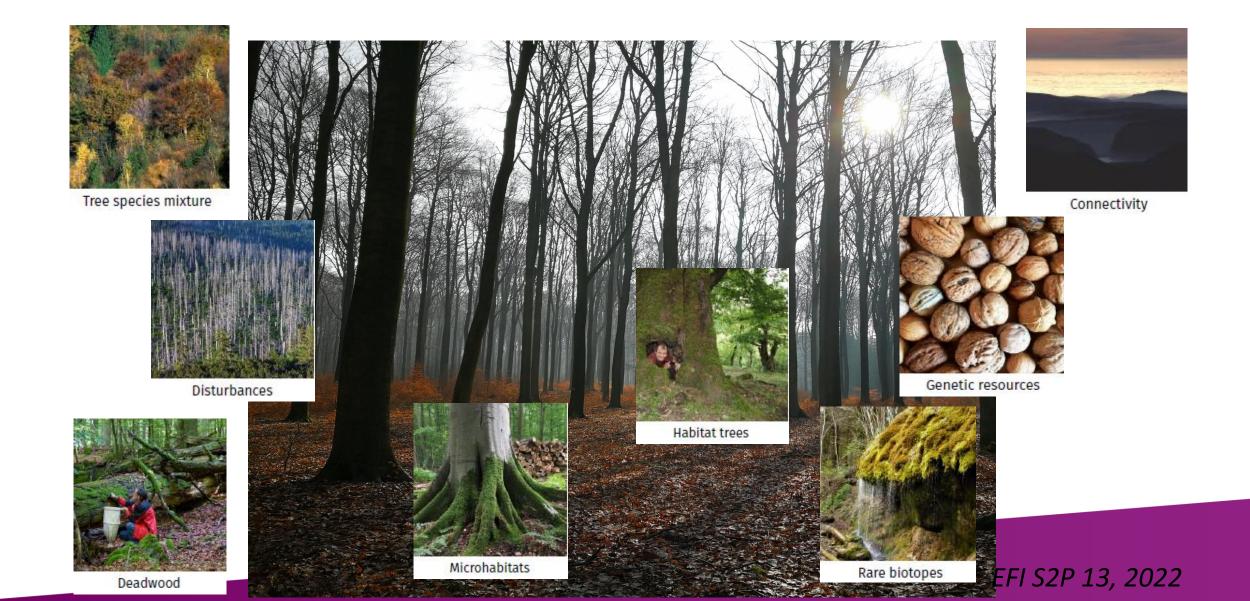


Potential mismatch between forest management and biodiversity



G = gap; R = regeneration; E = establishment; EO = early optimum; MO = mid-optimum; LO = late optimum; P = plenter; T = terminal; D = decay (after *Hilmers et al. 2018*).

Biodiversity can be fostered in any forest



Biodiversity oriented forest management 2x complementary visions – inspired by legacies

Cultural landscapes

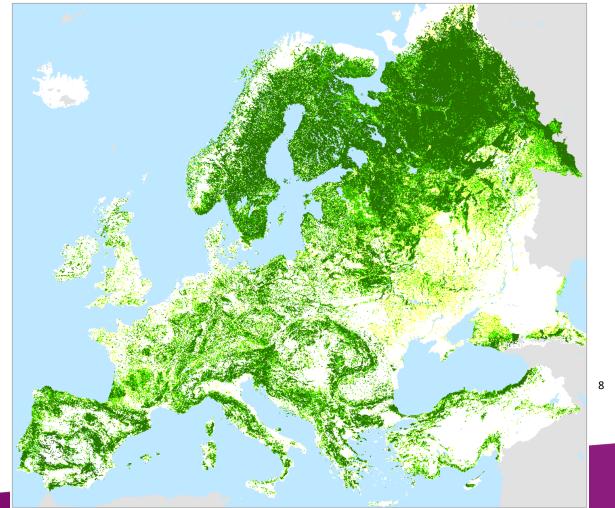
Naturalness



Ancient forests



Cultural landscapes



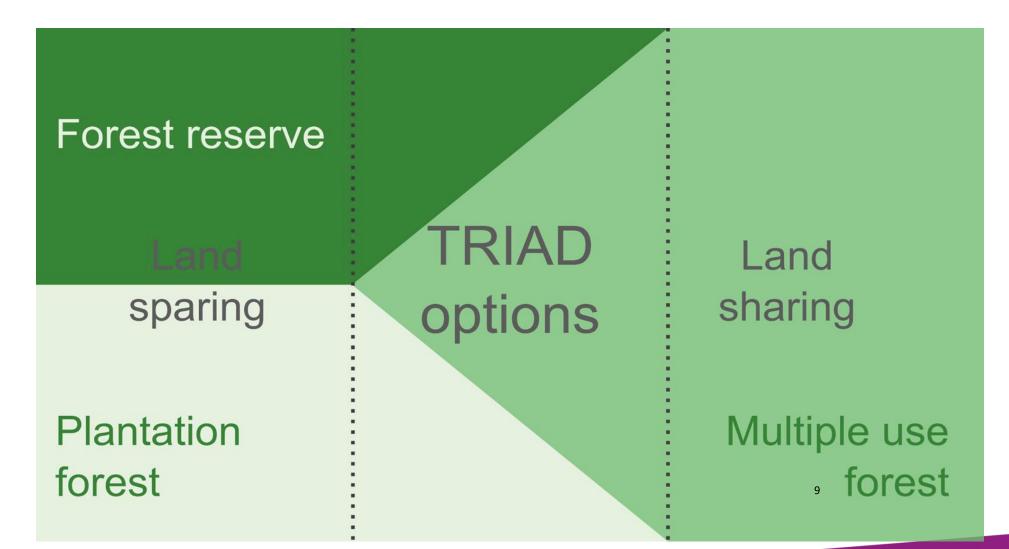


Primary forests



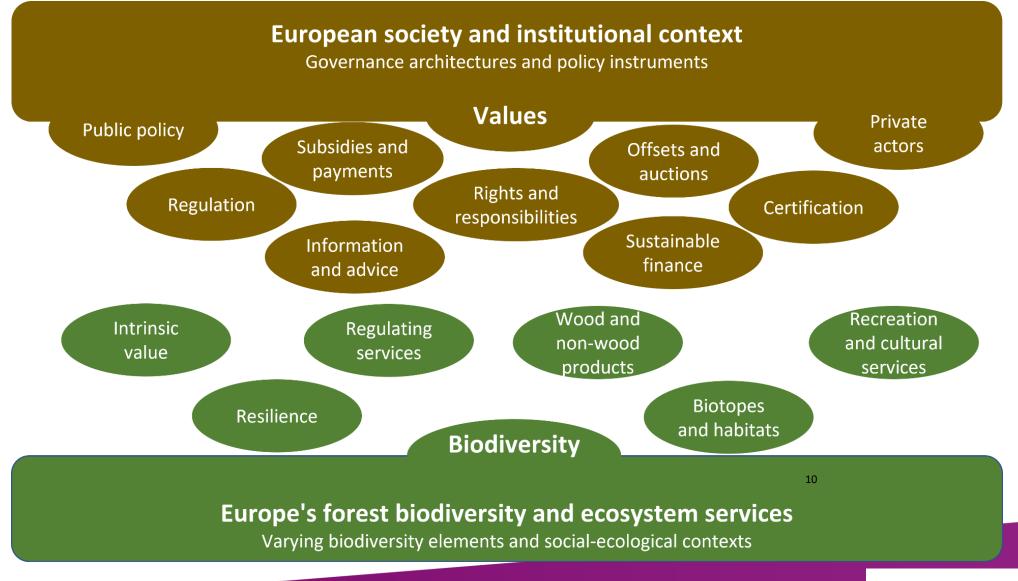
Old growth forests

Forest management at the landscape scale



Triad example: 30% unmanaged, 60% multiple use, 10% intensively managed

Developing the optimal policy mix





Forest Biodiversity in Europe

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Bart Muys, Per Angelstam, Jürgen Bauhus, Laura Bouriaud, Hervé Jactel, Hojka Kraigher, Jörg Müller, Nathalie Pettorelli, Elisabeth Pötzelsberger, Eeva Primmer, Miroslav Svoboda, Bo Jellesmark Thorsen, Koenraad Van Meerbeek **Content** Executive summary – Understanding forest biodiversity – Monitoring: approaches and trends – Threats – Management promoting biodiversity – Policies and incentives – Implications for practice

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Thanks: EFI's MDTF

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Connecting knowledge to action

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