

Forest biodiversity Where do we stand

Annemarie Bastrup-Birk, European Environment Agency

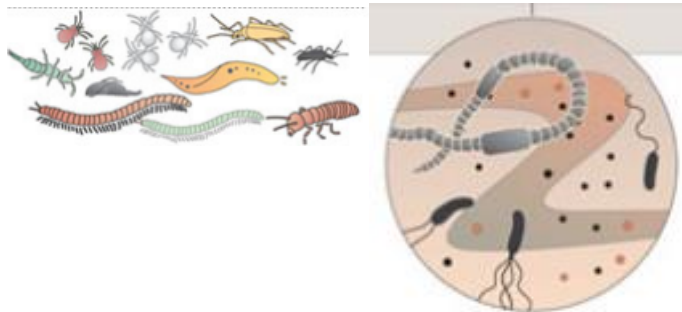
What are we considering



- All life forms and the ecological processes
 - Trees, plants, animals, microorganisms incl. genetic diversity
 - Ecosystem, landscape, species, population and genetic



8 – 100 million
species ???



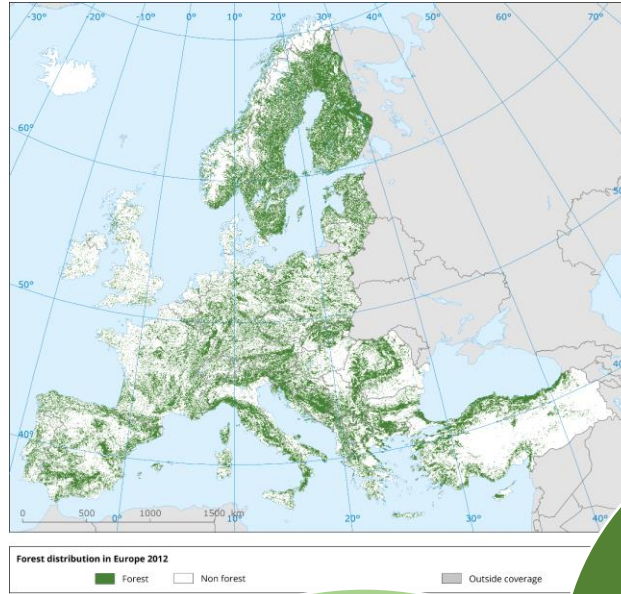
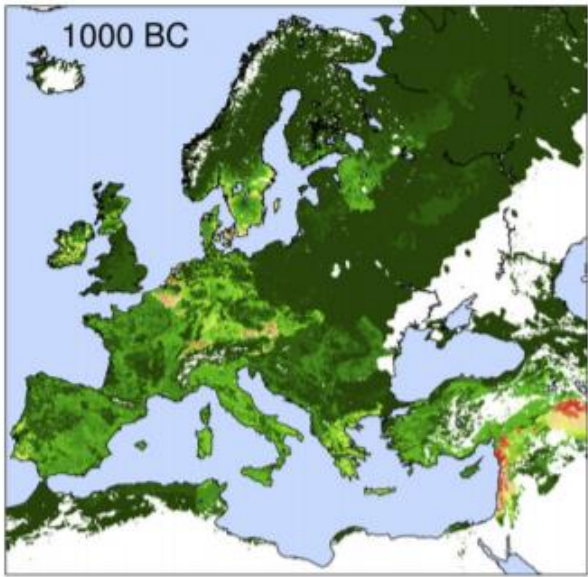
60082 tree
species

Red LIST
20334 tree
species

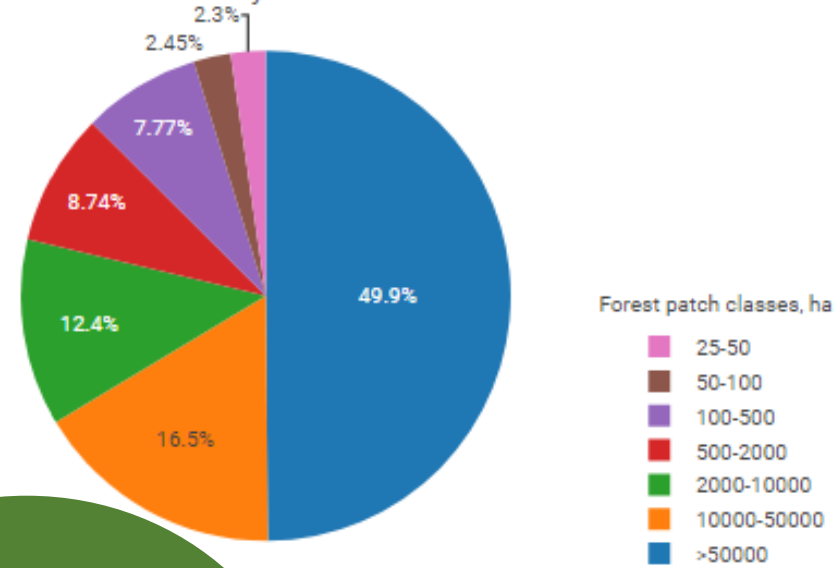
Red LIST in
Europe
~866 tree
species



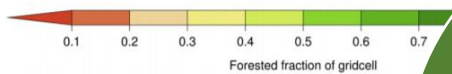
What do we have?



Forest patch area classes in 2018, % of country forest cover



J.O. Kaplan et al. / Quaternary Science Reviews 28 (2009) 3016–3034



85-90%
for
wood
supply

Dominant
20-70
years

40% of
the land

50/50
conifers
and
broadleaved



Statistics 2015-2020 from FAO, UNECE, Forest Europe, Copernicus, Corine..

How does it look like

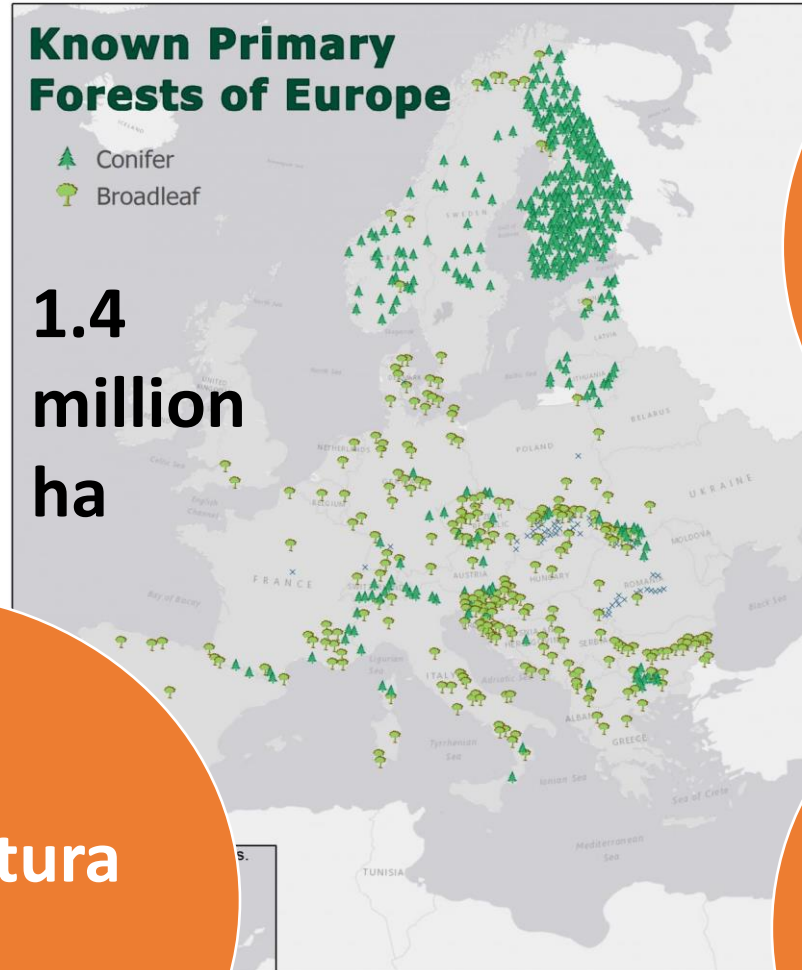
Some facts

~24%
of all forests
in the EU in
N2k

Known Primary Forests of Europe

-  Conifer
-  Broadleaf

**1.4
million
ha**



Service Layer Credits: Esri, HERE, Garmin, OpenStreetMap contributors, and the GIS user community

**431
native and
434
introduced
species**

**46-81 forest
habitats**

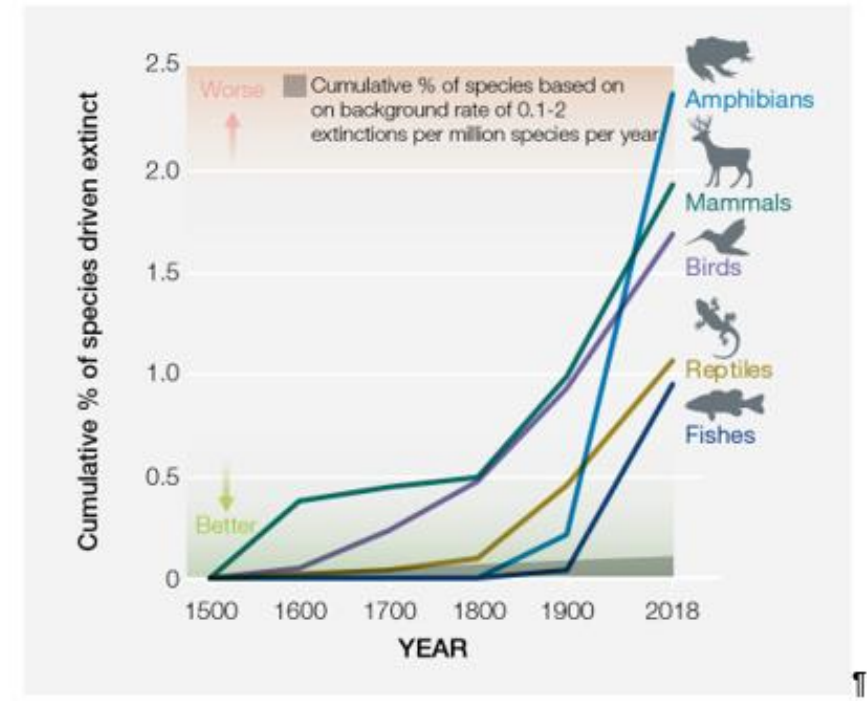
**50% of Natura
2000**

**Deadwood
20-50 m³/ha**

Under threat

- Climate crisis, pollution, land-use changes, IAS
- IUCN evaluated 454 native species in Europe: 58% threatened (Sorbus covers 170 of the 454 species)
- 42% of extinction risk of all native species
- Latest results from the reporting by MS to the Habitats Directive

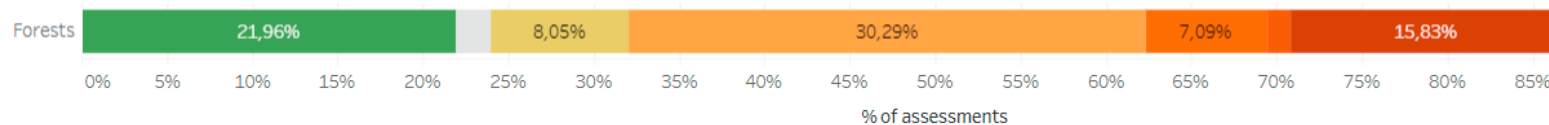
Extinctions since 1500 for vertebrate groups



▪ **Note:** Rates for reptiles and fishes have not been assessed for all species.

▪ **Source:** IPBES, 2019.

(Member State(s): **Tout**, Region(s): **Tout**, Habitat group(s): **Forests**)



Source: <https://www.eea.europa.eu/themes/biodiversity/state-of-nature-in-the-eu/article-17-national-summary-dashboards/conservation-status-and-trends>



Thank you for your attention

annemarie.bastrup-birk@eea.europa.eu