

# Forest-based bioeconomy in the framework of holistic sustainability

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Breakfast meeting on *Forest-based Bioeconomy and EU´s Bioeconomy Strategy*

European Parliament, Brussels  
1.6 2017

**Sustainable development** has been defined as development that meets **the needs of the present** without compromising **the ability of future** generations to meet their own needs.



# SUSTAINABLE DEVELOPMENT GOALS



For **sustainable development** to be achieved, it is crucial to harmonize three core elements:

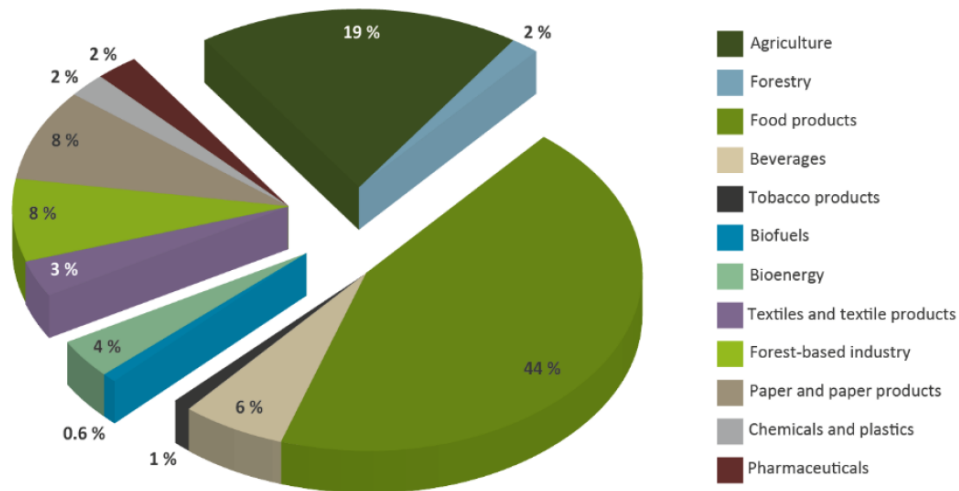
- **economic growth,**
- **social inclusion and**
- **environmental protection.**

These elements are interconnected and **all are crucial** for the well-being of individuals and societies.

# Key message 1

Forest-based bioeconomy is an important part of European bio-based economy.

Turnover in the EU bioeconomy (EU-28, 2013)  
Total: 2.1 trillion Euro



# Annual fellings and increment in Europe

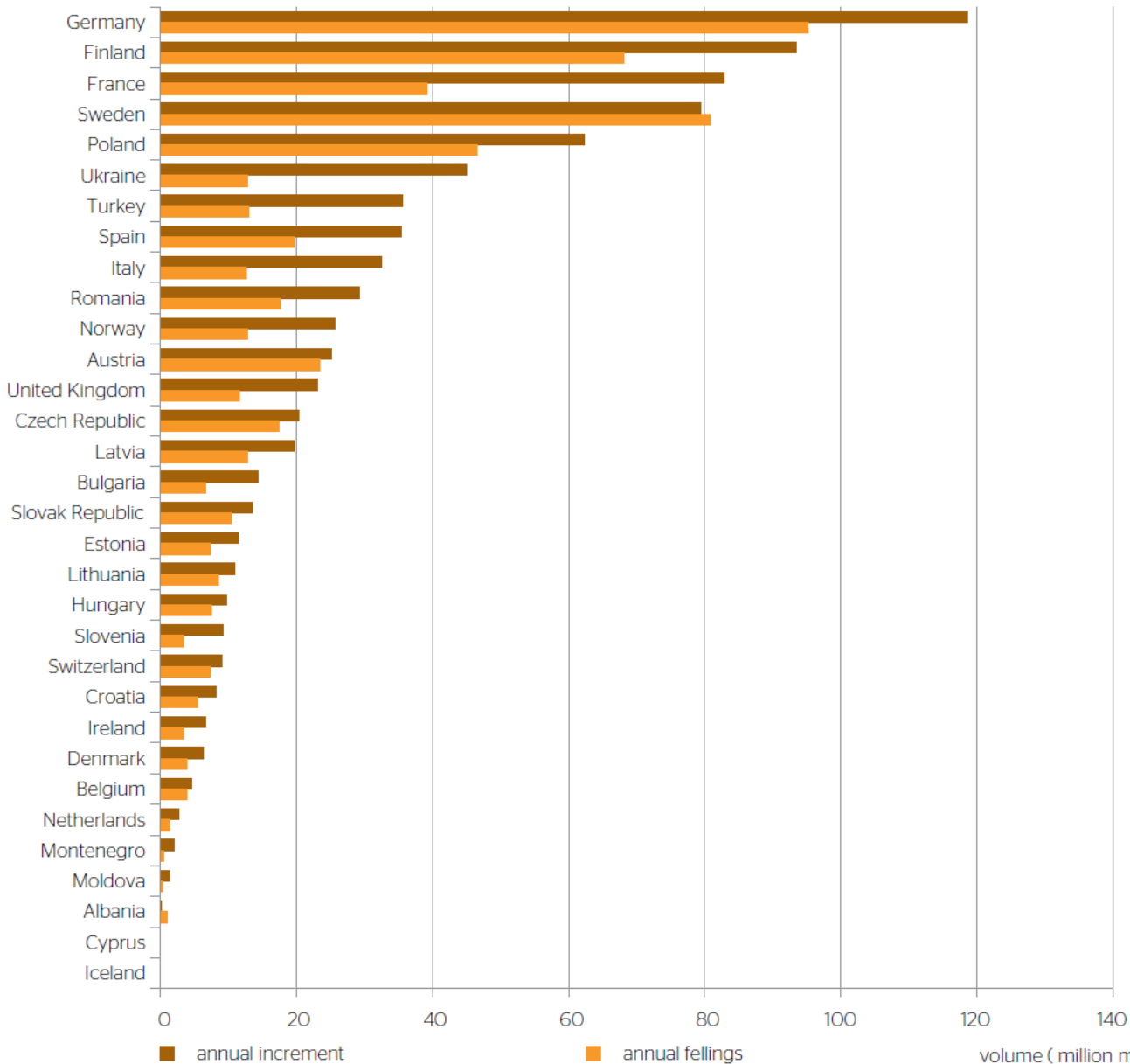


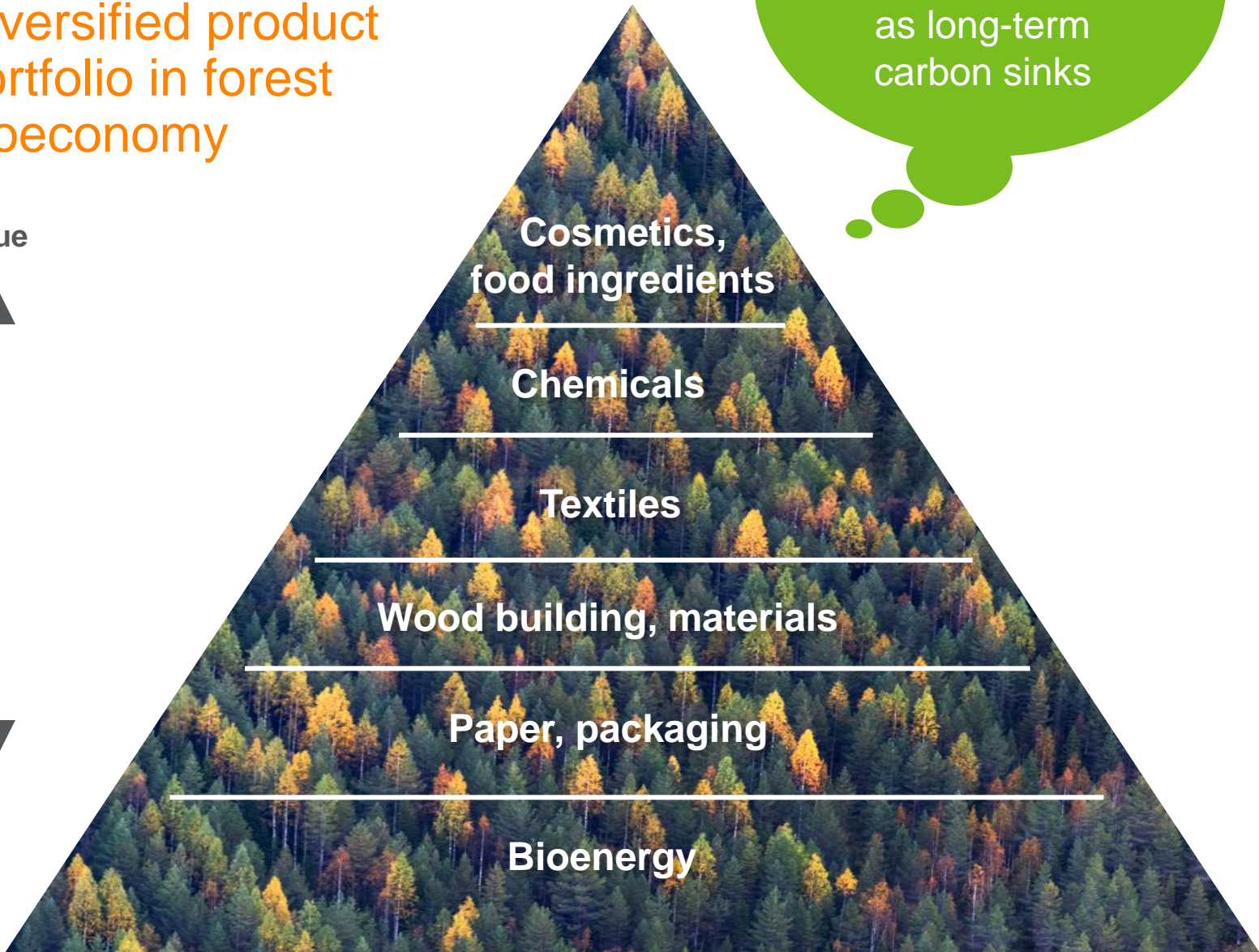
Figure: FOREST EUROPE, 2015: State of Europe's Forests 2015.

## Key message 2

European bioeconomy strategy should target for **holistic and cascaded use of the biomass** in value-added products, with utilization of the waste and by-products finally as bioenergy sources.

# Diversified product portfolio in forest bioeconomy

Value





## Key message 3

Forest-based bioeconomy provides new product innovations **substituting fossil-based** products, immaterial service business opportunities and environmental benefits.

**Replacement of fossil-based** feedstock and energy **with renewable** alternatives should be the leading principle in the revised European bioeconomy strategy.

## Key message 4

**Balance** should be found between the multiple policy objectives influencing land use, agriculture and forestry (**climate benefits**, rural development, profitability and competitiveness of food production, renewable energy clean solutions and biodiversity).

# Total protected forest area and share of the protected area for biodiversity by country in Europe, 2015

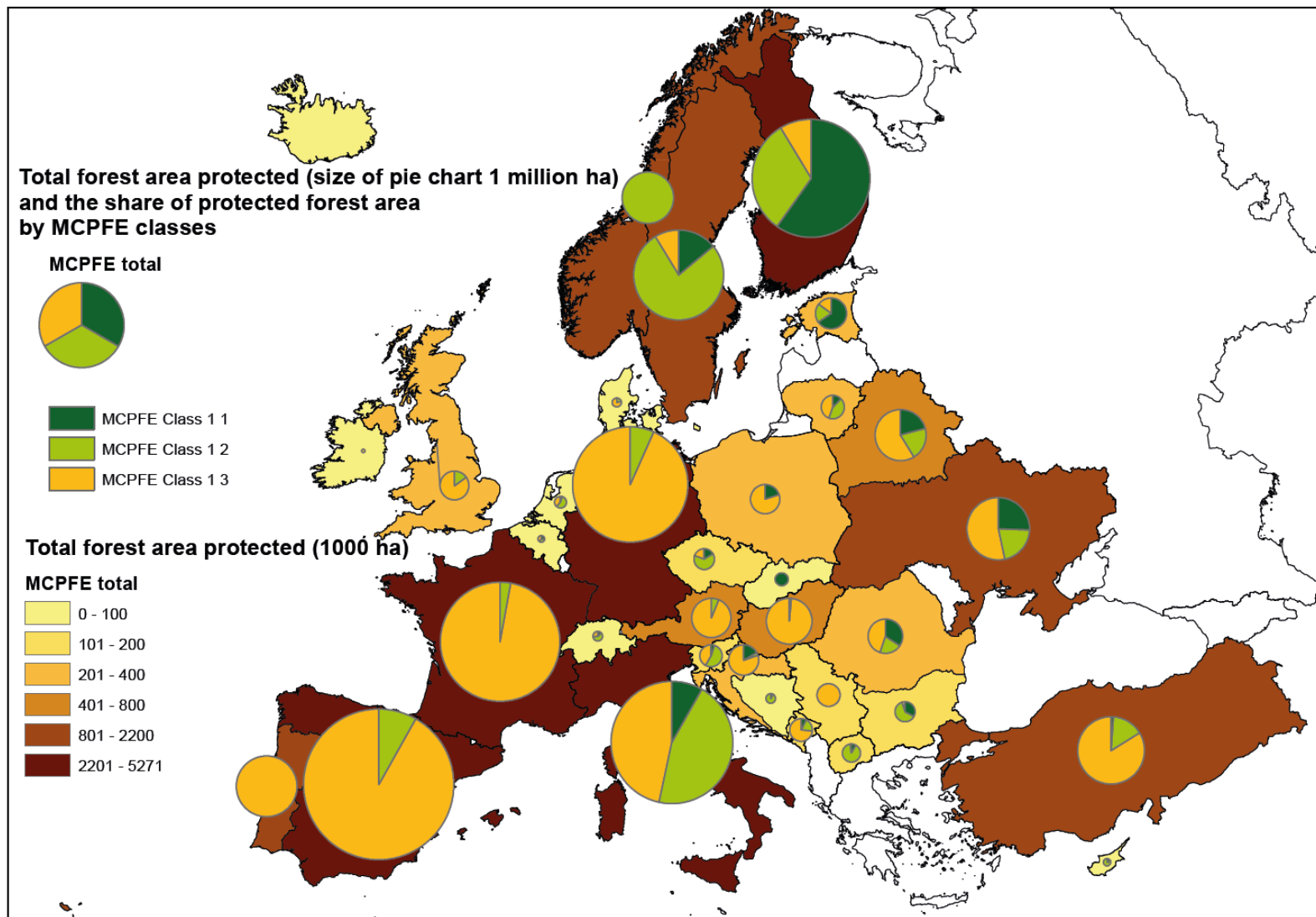


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Thank you!