

**TEAMING UP  
4 FORESTS**

**REPORT  
LAUNCH  
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**18 March - 13:00 CET**

**IUFRO WORLD SERIES Vol. 42**

**EUROPE'S WOOD  
SUPPLY IN  
DISRUPTIVE  
TIMES**

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4 FORESTS**

# EUROPE'S WOOD SUPPLY IN DISRUPTIVE TIMES

**An evidence-based synthesis report**  
Editors: Carola Egger, Nelson Grima, Michael Kleine,  
Maja Radosavljevic

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Andreas Nikolaus Kleinschmit von Lengefeld, Andrey Krasovskiy,  
Florian Kraxner, Manfred J. Lexer, Špela Pezdevšek Malovrh,  
Anne-Christine Ritschkoff

IUFRO World Series Vol. 42



# EUROPE'S WOOD SUPPLY IN DISRUPTIVE TIMES

**FINDINGS FROM A NEW STUDY REPORT**





# Study expert group

## Study chair and expert on forest policy

Metodi Sotirov (ALU-FR, Freiburg, Germany)

## Experts on climate change and forest management

Andrey Krasovskiy (IIASA Laxenburg, International),  
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## Experts on socioeconomic factors and property rights

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Malovrh (University of Ljubljana, Slovenia)

## Experts on innovation and technology

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Technical Research Centre of Finland Ltd., Finland)

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# Factors impacting Europe's wood supply

## TEAMING UP 4 FORESTS



- ✓ Forest types and growth
- ✓ Climate change
- ✓ Forest management

### ENVIRONMENTAL



- ✓ EU and national forest-related policies and laws
- ✓ National forest policy priorities
- ✓ Forest property rights

### POLITICAL



- ✓ Forest ownership
- ✓ Demographic developments
- ✓ Market trends
- ✓ Geopolitics and international trade

### SOCIOECONOMIC



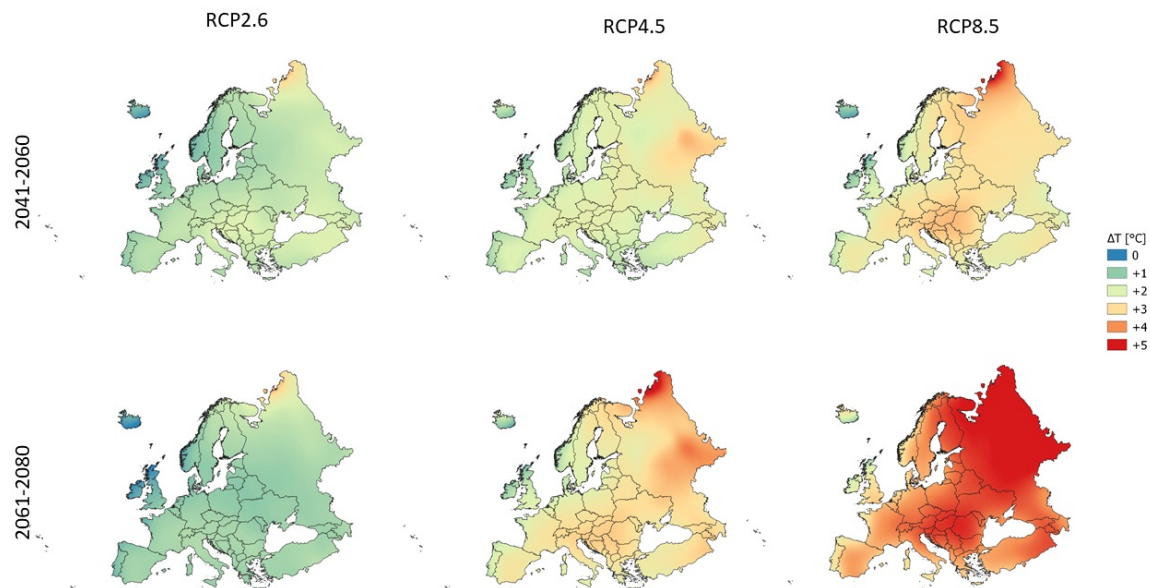
- ✓ Innovative wood-based technologies and their developments
- ✓ Emerging wood-based products and their market trends

### TECHNOLOGICAL

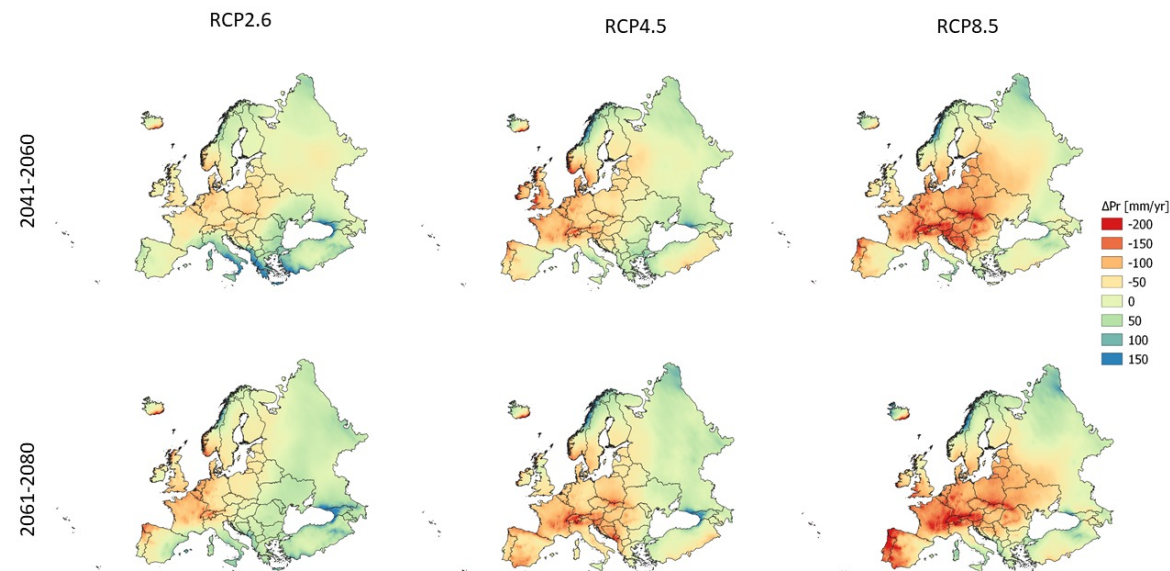


# Climate change – future conditions in Europe

## Temperature

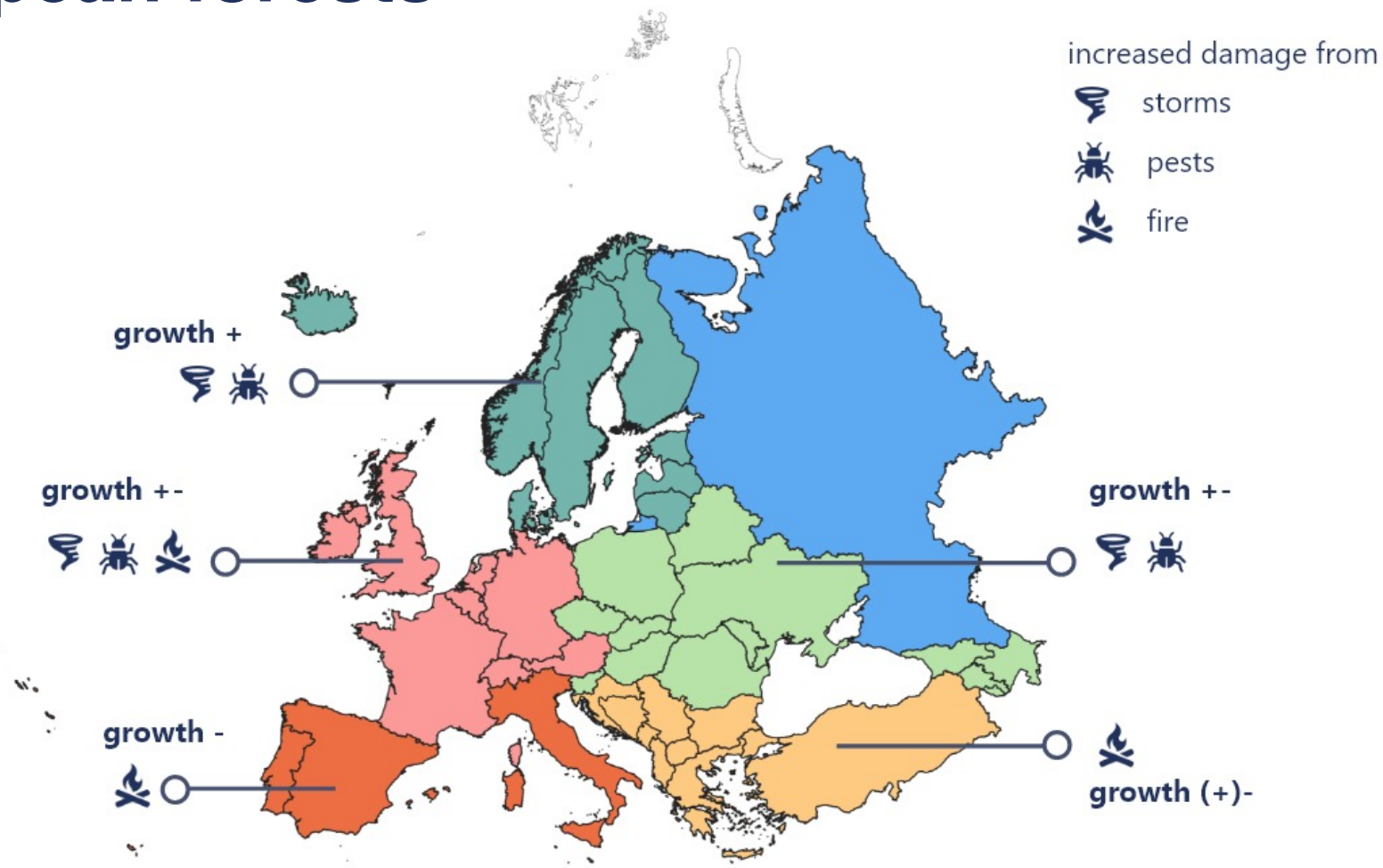


## Precipitation



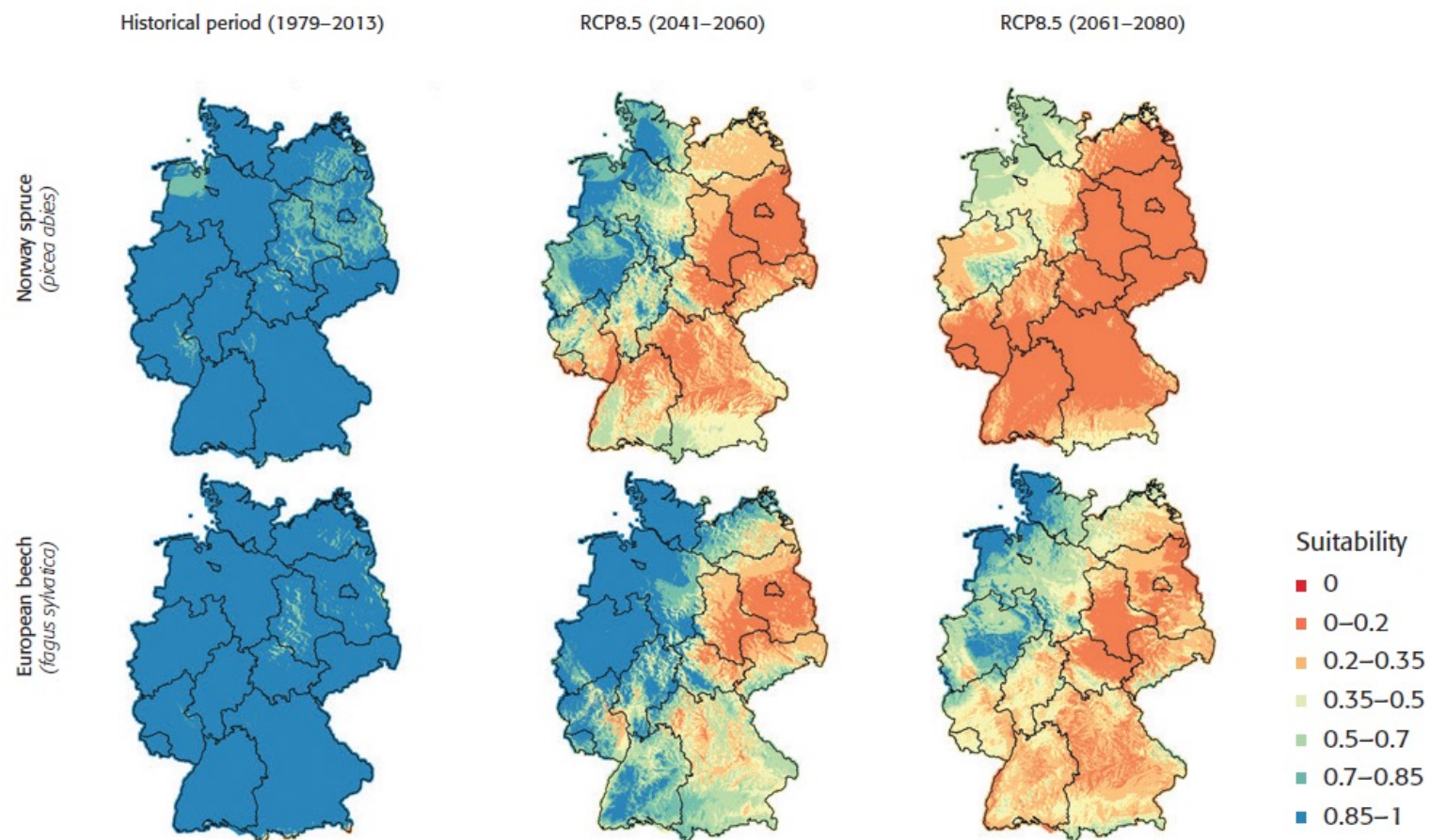


# Climate change – impacts on European forests





# Climate change – local suitability for tree species





# Forest-related policies

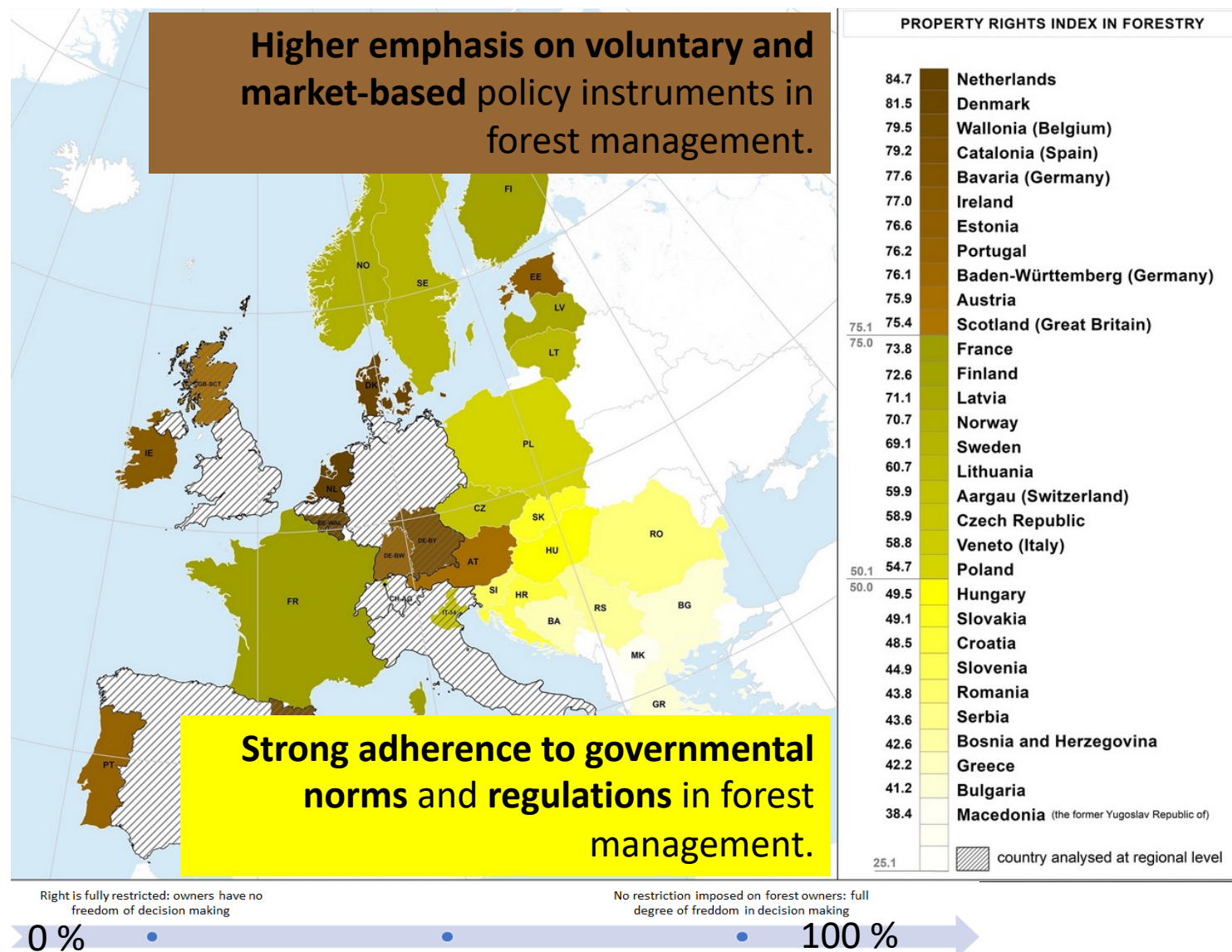
	Increase in wood use				Decrease in wood use
Priority	Bioenergy and Carbon (HWP) Forestry	Wood Yield Forestry	Multi-Purpose Forestry	Carbon Forest Management (Forest Sinks)	Forest Biodiversity Conservation
Level					
<b>Global</b>		(ITTO, FLEGT)	UNFF / IAF FSC/PEFC	UNFCCC (REDD)	CBD
<b>Pan-Europe</b>	Forest Europe SFM C&I				
<b>European Union</b>	Renewable Energy Directive  Bioeconomy Strategy  (LULUCF)	(Bioeconomy Strategy)  (EUTR/FLEGT)	CAP Rural Development Regulation  (Forest Strategy)	Green Deal LULUCF Regulation Fit for 55  (Bioeconomy Strategy)	Green Deal Forest Strategy Biodiversity Strategy Nature Restoration Law Habitats/Birds Directives Deforestation Regulation
<b>National</b>	Forest policy and law in North, Central and Eastern Europe	Forest policy and law in North & Eastern Europe	Forest policy and law in Central & Eastern Europe	Forest policy and law in Western Europe	Forest policy and law in Western and Southern Europe

Source: Edwards & Kleinschmit 2013; Winkel & Sotirov 2016; Sotirov & Storch 2018; Sotirov et al. 2020; Wolfslehner et al. 2020; Lindahl et al. 2023



# Forest property rights in Europe

How prescriptive can a legal framework be?



Source: Nichiforel et al., 2018; Nichiforel et al., 2020



# Forest owners' profiles and behaviour



## "Optimizers"



- Making profits from forest commodities sold on the market.
- Environmental values as limitation.

Intensive profit-oriented even-aged forestry.



## "Traditionalists"



- Timber production for household needs.
- Forest seen as a saving bank or capital.

Low intensive, close-to-nature forestry.



## "Passives"



- Little interest in profits and forest management.
- See forest as a burden.

Passive/little management.



## "Multi-functionalists"



- Economic aspects are not central.
- Mostly obliged to take care of multi-purpose forestry.

Medium intensive, mixed-objective forestry.



## "Environmentalists"



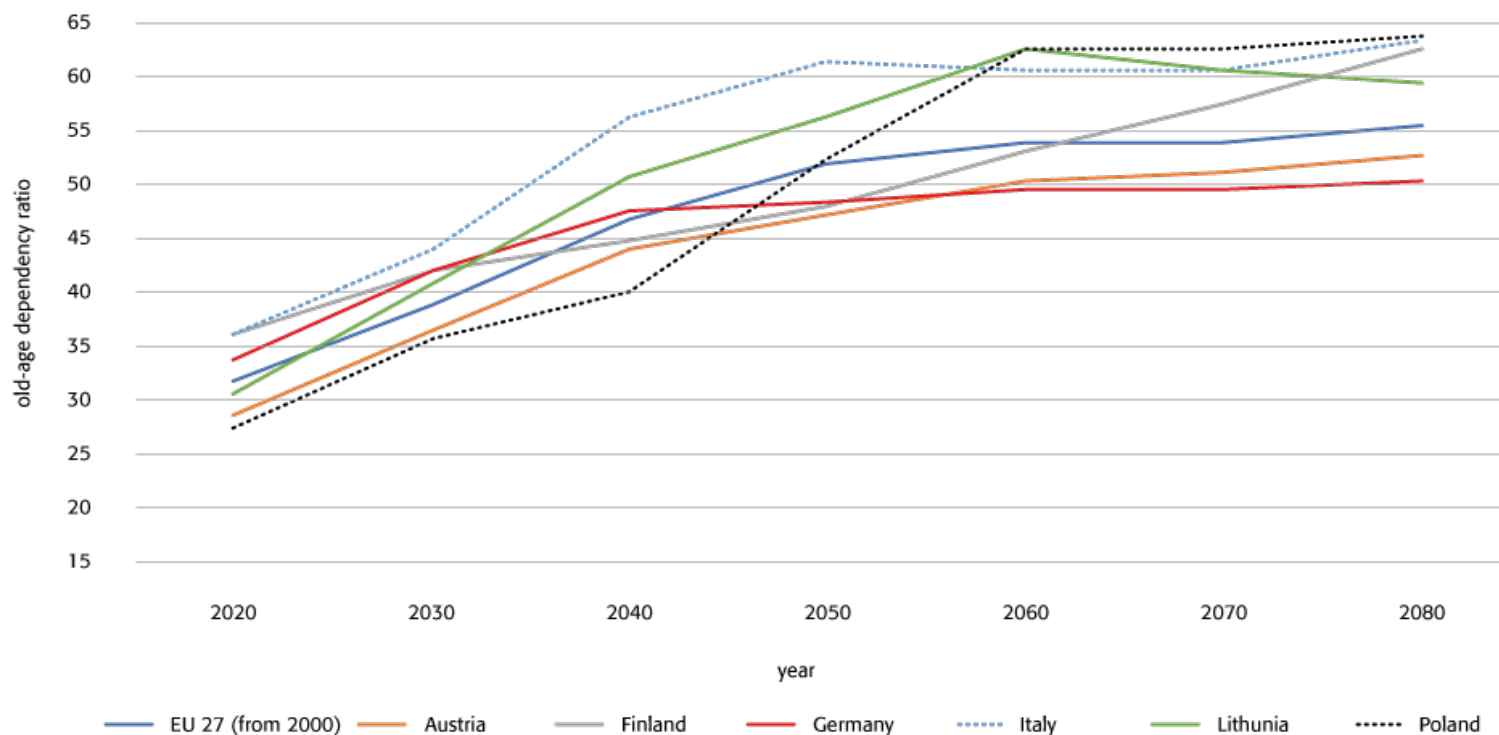
- Amenity values of forest, biodiversity conservation and »close-to-nature« forest management.

Passive or restoration oriented forestry.

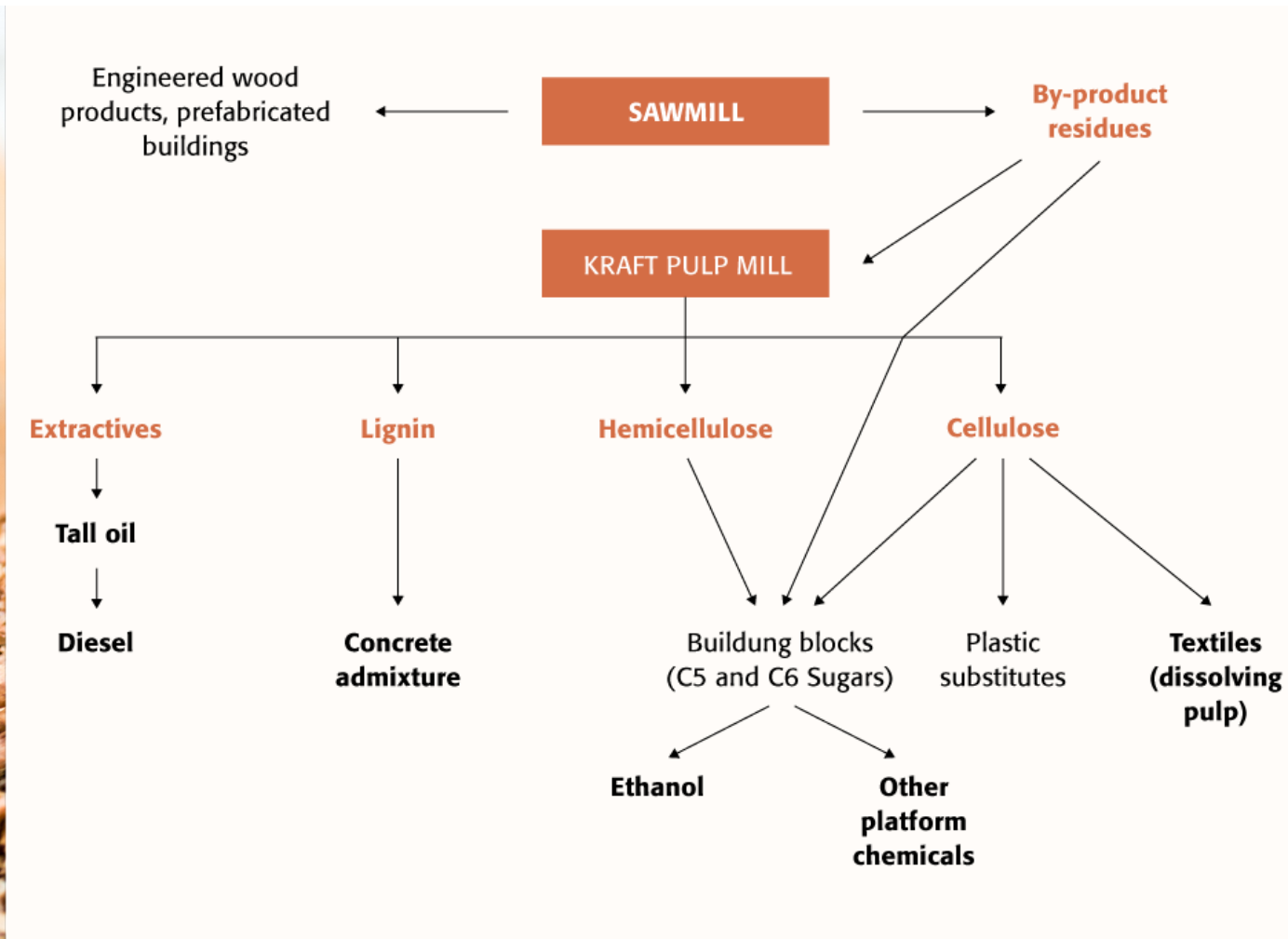


# Stagnating, aging and urbanized European population

Old-age dependency ratio (ratio between population aged 65 years or over divided by population aged 15 to 64 years, expressed as a percentage)

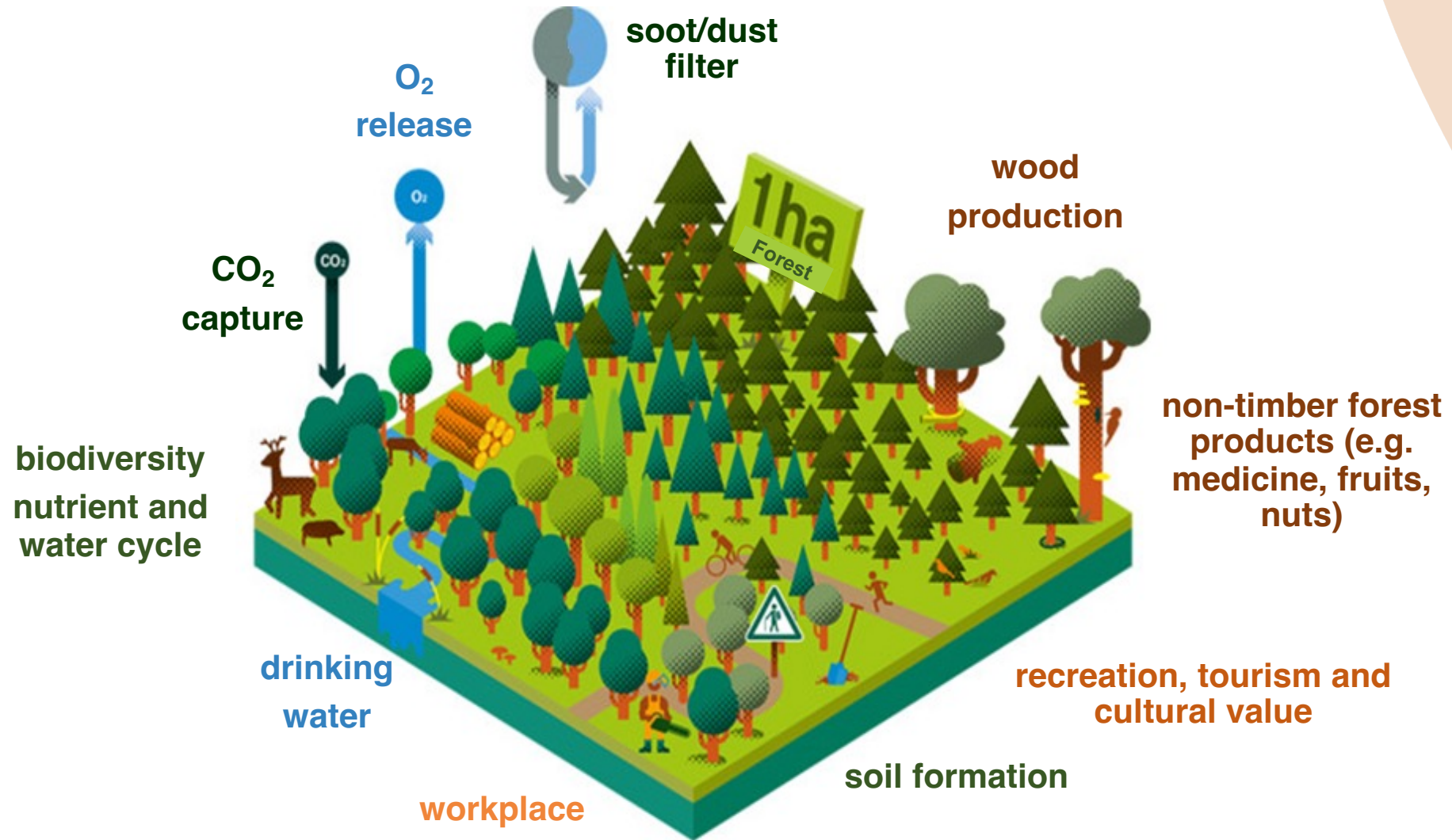


# Emerging wood-based products – added value and substitution





# The critical functions of forests



Source: Bavarian State Forests, 2017

# TEAMING UP 4 FORESTS

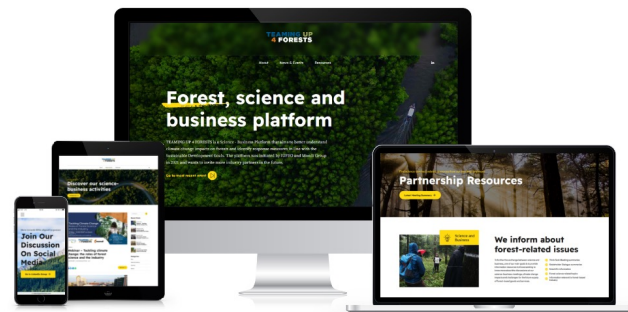
A science-business platform initiated by IUFRO and Mondi

TEAMING UP 4 FORESTS addresses key challenges for the **sustainable provision of wood-based products** to meet societal demands and thereby supporting the achievement of the UN Sustainable Development Goals.

## UPCOMING EVENTS

- 23 April 2024, 14:00 pm Webinar on forest policy and socioeconomics
- 21 May 2024, 14:00 pm Webinar on environment and innovation
- 24 June 2024, 14:30 pm IUFRO World Congress session

Find more information  
on our website!






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## EUROPE'S WOOD SUPPLY IN DISRUPTIVE TIMES

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