

#### Mega trends - challenges

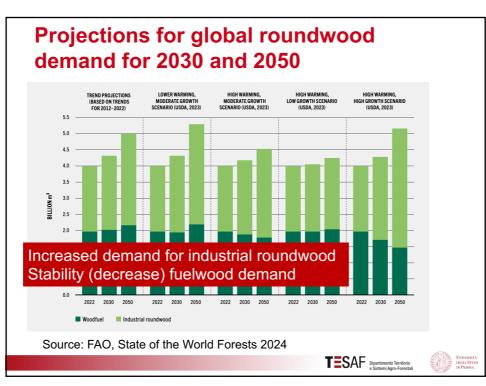
#### Demand side: increasing wood demand

- An important driver: decarbonization; 3 main impacts:
  - greening of the building sector
  - new products of the bioeconomy
  - new role of bioenergy

#### Supply side:

- Negative drivers for the European supply of wood products:
  - reduced sink function of the European forests (increased instability) and reduced short-medium term European supply
  - increased demand for biodiversity protection
  - shortage of land for Biomass production in Europe
- Positive drivers
  - Increased wood recovery/recycling
  - Increased interests of financial investors in forest investments

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#### Not a very recent forecast for the EU market: a moderate increase removal and consumption (million m<sup>3</sup> over bark)

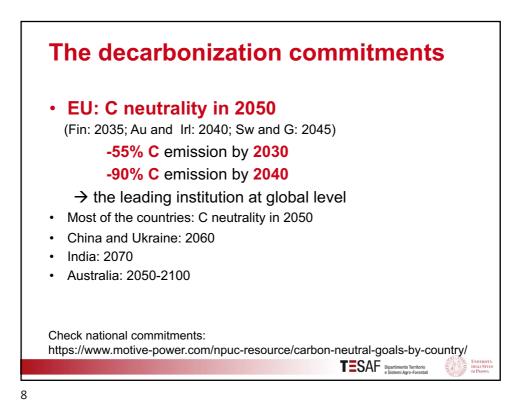
	Remov	Removals Consumption Net trade							
	2020	2025	2030	2020	2025	2030	2020	2025	2030
Conif. sawlogs	204.1	208.0	212.7	210.1	213.4	217.5	-6.0	-5.4	-4.8
Non-conif. sawlogs	40.7	41.7	42.9	45.2	45.9	46.8	-4.5	-4.2	-3.9
Conif. pulpwood	120.2	122.4	126.9	110.1	110.5	113.3	10.1	11.9	13.7
Non-conif. pulpwood	58.8	62.7	67.4	95.6	98.1	102.1	-36.9	-35.4	-34.7
Total IRW	423.7	434.8	449.9	461.0	467.9	479.6	-37.3	-33.1	-29.7
Source: Jonsson et al	., 2021	https://	/doi.org	/10.10	16/j.tec	hfore.2	2020.12	20478	
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#### A recent forecast for the EU forest products consumption according to different scenarios: a difefrent picture

and the set			Consumption				Change		
roduct	Unit	Pathway	1995	2020	2045	2050	1995-2020	2020-2045	2020-2050
		historical	32	54					
Panels Mm3	ssp2			68	71	71%	27%	31%	
	fair			42	43		-21%	-21%	
Paper Mt	historical	52	66						
	ssp2			78	79	27%	18%	21%	
	fair			52	52		-21%	-20%	
		historical	37	38					
Pulp	Mt	ssp2			47	50	2%	25%	31%
		fair			39	39		3%	4%
		historical	67	81					
Sawnwood	Mm3	ssp2			97	99	22%	19%	22%
		fair			72	73		-11%	-11%
		historical	75	119					
Fuelwood	Mm3	ssp2			162	174	59%	36%	46%
		fair			50	51		-58%	-58%
Industrial		historical	296	367					
Roundwood	Mm3	ssp2			453	471	24%	23%	28%
Houndwood		fair			370	374		1%	2%
Total		historical	371	486					
Roundwood	Mm3	ssp2			615	645	31%	27%	33%
Roundwood		fair			420	425		-14%	-13%

#### **Mega trends - challenges** Demand side: increasing wood demand An important driver: decarbonization; 3 main impacts: • - greening of the building sector - new products of the bioeconomy - new role of bioenergy Supply side: • Negative drivers for the European supply of wood products: - reduced sink function of the European forests (increased instability) and reduced short-medium term European supply increased demand for biodiversity protection - shortage of land for Biomass production in Europe Positive drivers Increased wood recovery/recycling - Increased interests of financial investors in forest investments TESAF Dipartimento Territorio



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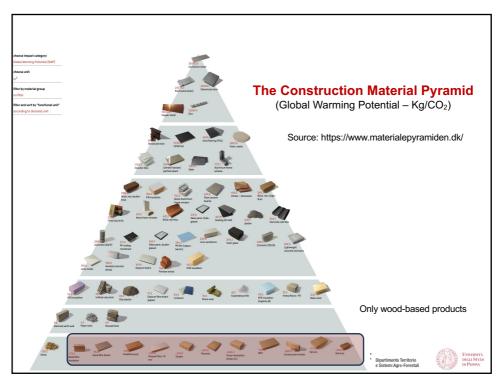
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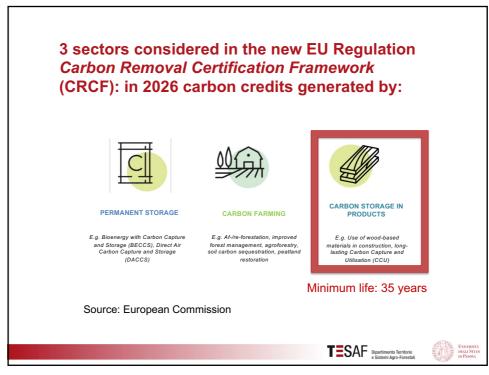
Supply side:

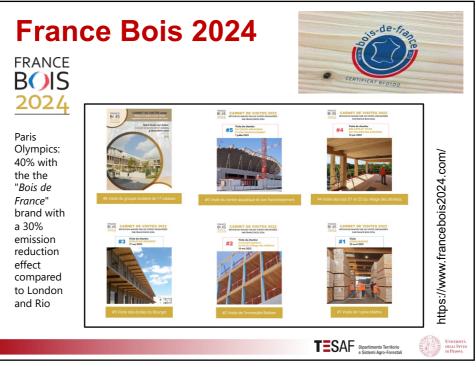
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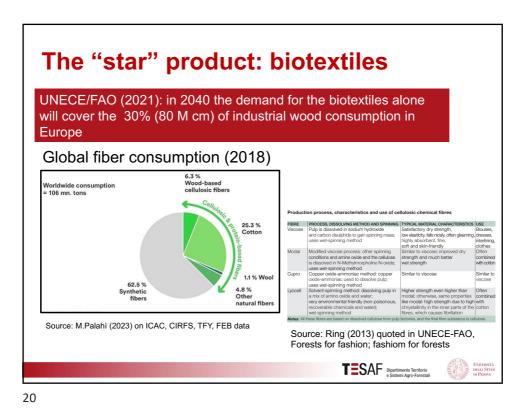


### Forecasts for industrial consumption of wood products at global level (million cm)

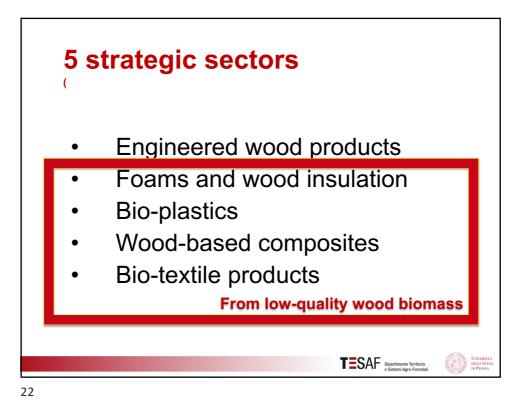
Primary processed wood products basic outlook 2050	Volume 2020 (million m³)	Volume 2050 (million m³)	Percentage change 2020–2050	Wood products selected to replace non- renewable	and	Volume change on basic outlook (percent)
Sawnwood & engeneered prod	<b>929</b> ucts	1 205	3	Sawnwoo in mass timber / CLT	d 41–123	3–10
Veneer/ plywood	267	539	102	Not consid	Not considered	
Particle/ fibreboard	345	593	72	-	lereu	
Wood pulp*	745	786	5	Wood pul for MMCF		5–12
Total	2 286	3 123	37		98–272	8–23
ource: FA	D, GFSO	2050 (20	)22)	The new bioecon	v products c omy	of the
				Т		erritorio

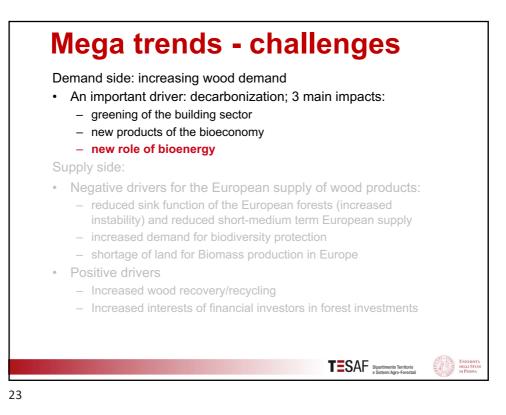
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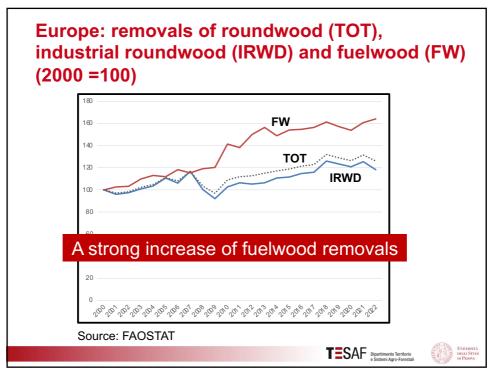
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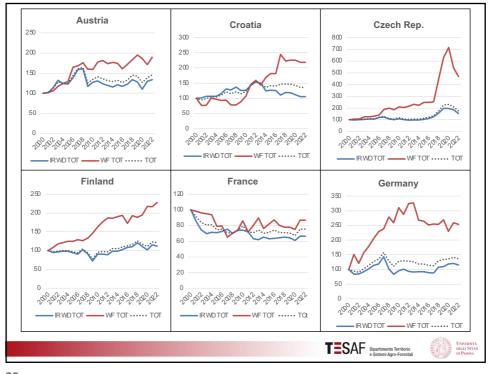


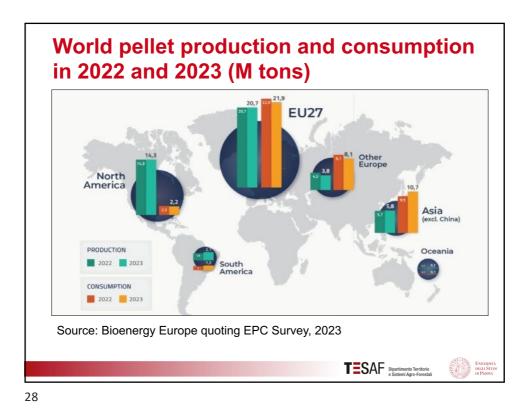


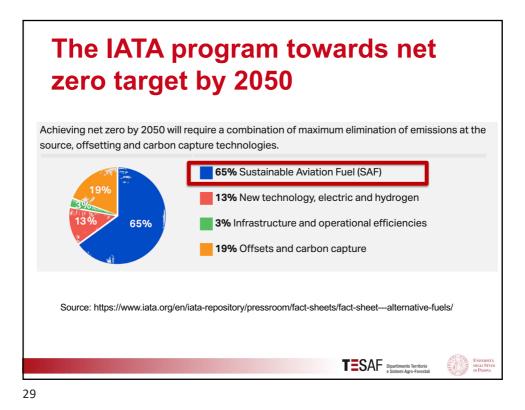


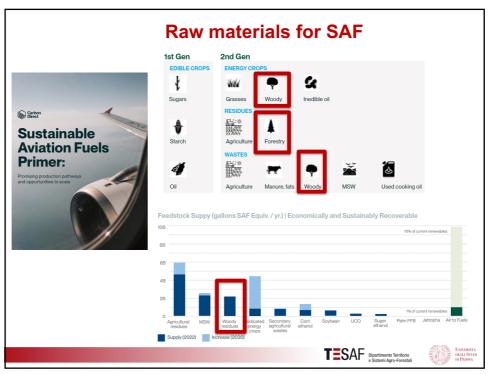


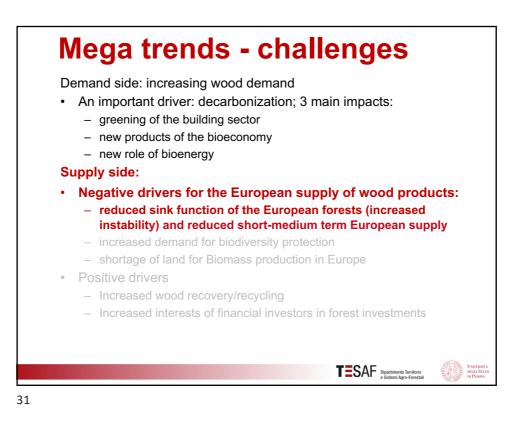


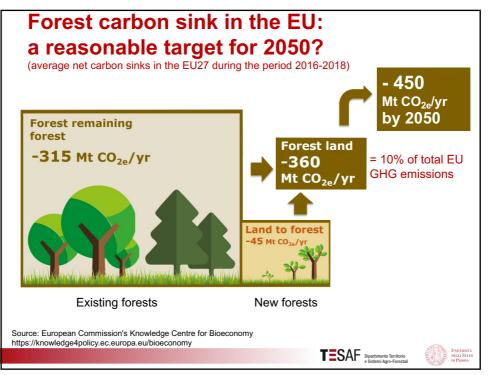


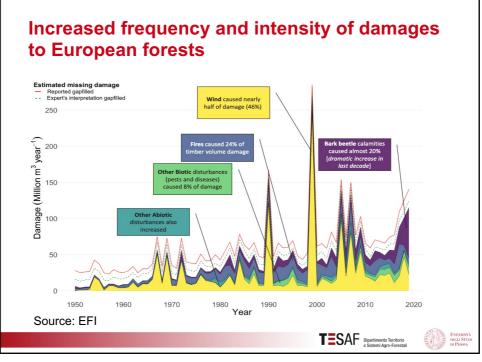


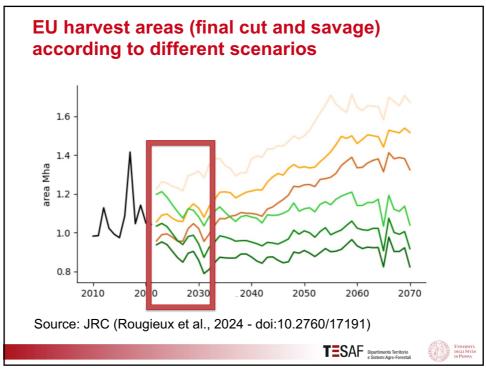


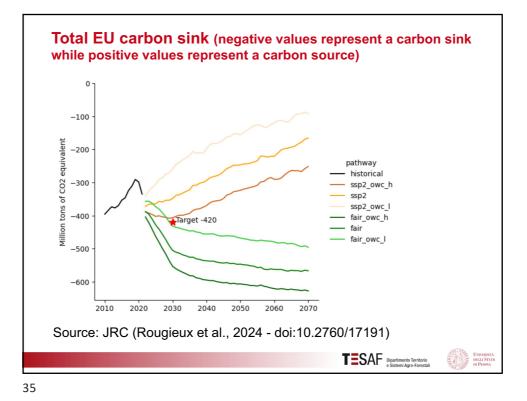


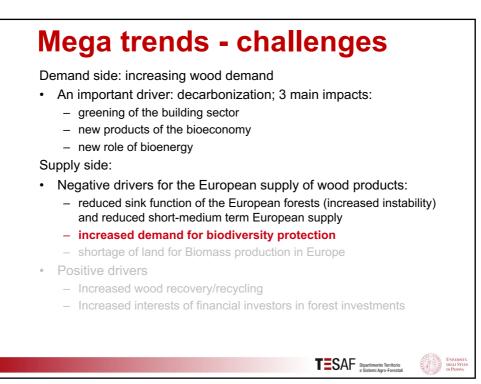


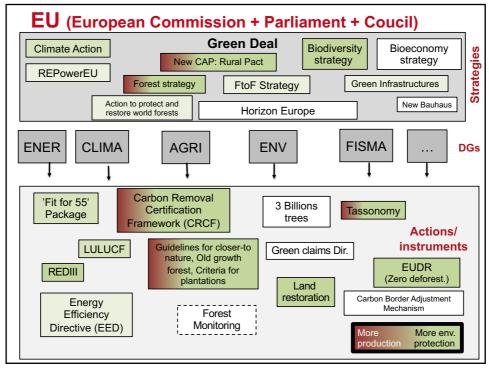


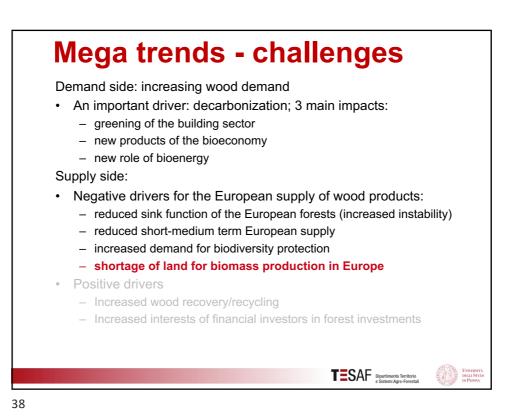


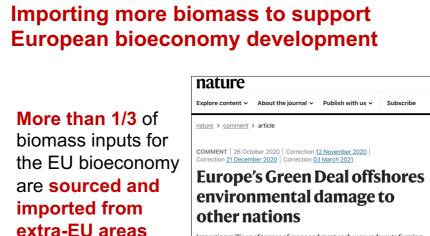




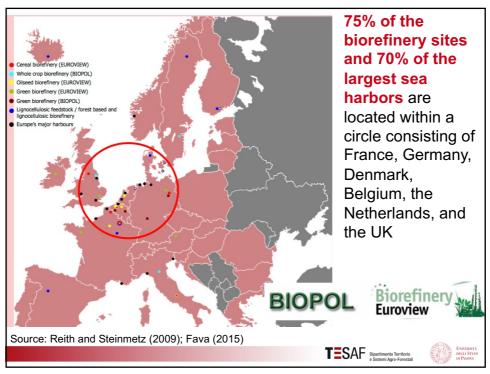


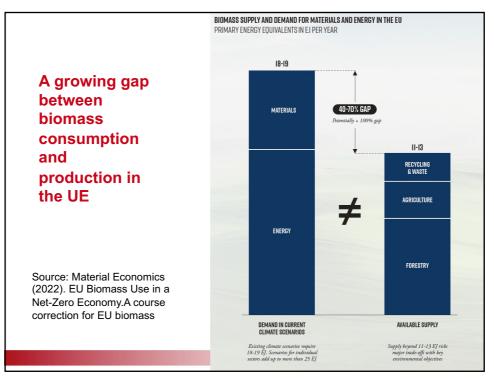






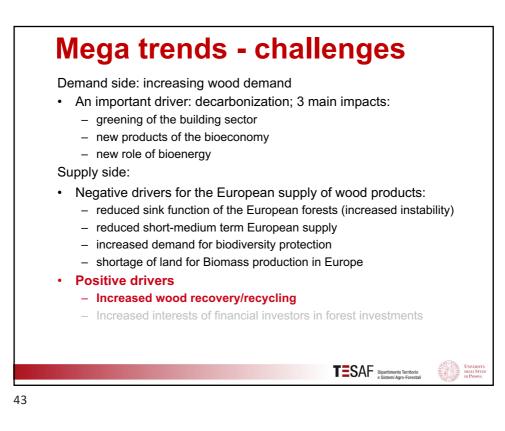
Importing millions of tonnes of crops and meat each year undercuts farming standards in the European Union and destroys tropical forests. Richard Fuchs 🖂 , Calum Brown & Mark Rounsevell UNIVERSIT DECLI STUI DI PADOVA TESAF Dipartimento Territorio



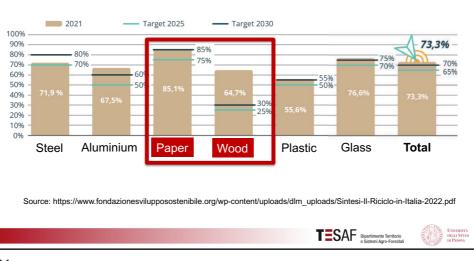


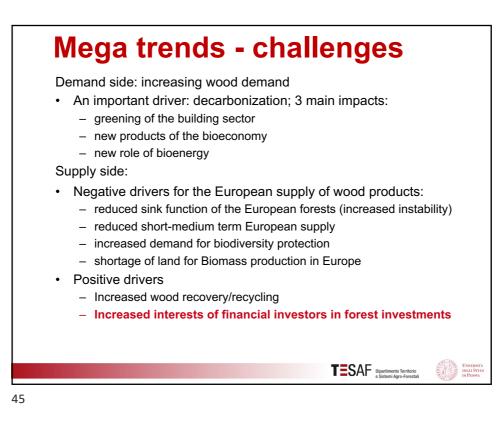
# The need for a fair distribution of the benefits of the global trade and resource endowments

	EU	Africa
% of the world's total forest area	3.9%	43%
% of the global forest product exports by value (2022)	16%	2%
Source: FAO, The State of the Wo	orld Forests, 2024	
	Т	<b>ESAF</b> Dipartimento Territorio



#### Recycling rate of end-of-life products in Italy in relation to the EU targets set for Italy for 2025 and 2030





## Commitments (including in the forestry sector)



- Carbon neutral(ity)
- Zero carbon
- Climate neutral
- Zero emissions
- GHG neutral(ity)
- Climate positive
- Carbon negative
- 1.5°C target

#### Network (SBTN) Compliance

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Science-Based Targets

Biodiversity commitmentsNature positive

Nature neutral(ity)

Biodiversity neutral(ity)

Global commitments

Net negative

Net zero

