

70 TH FEFPEB CONGRESS

WOODEN PALLETS AND PACKAGING IN THE CENTRE OF THE SUSTAINABLE ECONOMY

Timber and sustainability

Firenze • September 2022













Timber and sustainability

Timber is sustainability

Timber industry is sustainable

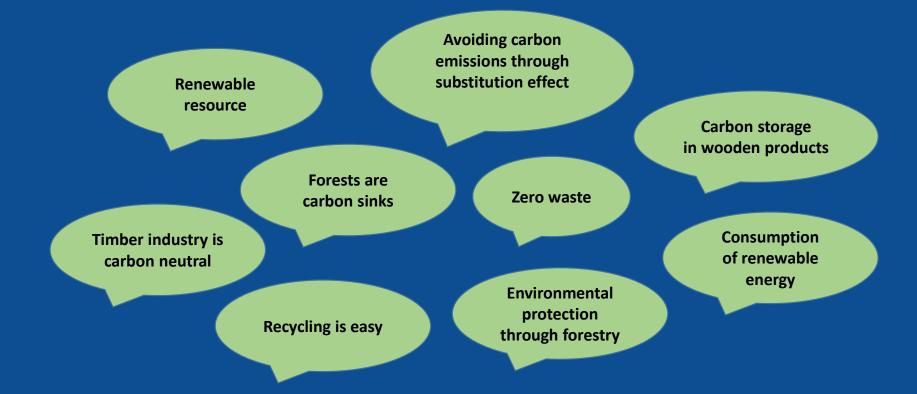
Timber packaging industry is sustainable







Timber is sustainable







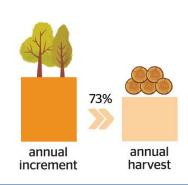


Timber is sustainable



Increment in European forests substantially exceeds felling

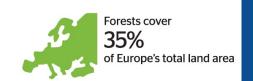
Every year, more wood grows than is harvested in European forests, leading to the accumulation of growing stock in forests. Net annual wood increment is higher than in earlier periods. Since 1990, it has increased by approximately 25%. The volume of timber harvested has been increasing steadily since 1990. On average, 73% of the net annual increment is felled, thus indicating the sustainability of wood supply from European forests.



Forest area has increased by 9% since 1990, although the rate of expansion is slowing down

The 227 million ha of forests in Europe cover 35% of total land area.

Other wooded land accounts for an additional 27 million ha.



Around 75% of the forest area is available for wood supply.







Timber is sustainable



Growing stock has increased by 50% since 1990, although this trend is slowing down

The total growing stock of European forests adds up to 34 900 million m³, of which about 84% is located in forests available for wood supply. On average, there are 169 m³ of growing stock per ha, which is 40 m³ per ha more than thirty years ago.

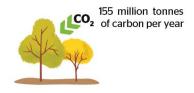




129m3/ha

169m3/ha

European forests are a major carbon sink; carbon stock increases in forests and in wood products



Between 2010 and 2020, the average annual sequestration of carbon in forest biomass reached 155 million tonnes in the European region. In the EU-28, sequestration corresponds to around 10% of gross greenhouse gas emissions. In the period 1990-2015, the carbon stock in harvested wood products increased from 2.5 to 2.8 tonnes of carbon per capita, thus contributing to CO, emission reductions.





The (old) timber world

European timber market includes
Russia and Belarus

Timber (packaging industry) is sustainable

Climate crisis is a next generation problem

The timber industry contributes to climate protection

Transport is cheap and truck drivers are always available

Timber is cheap and always available

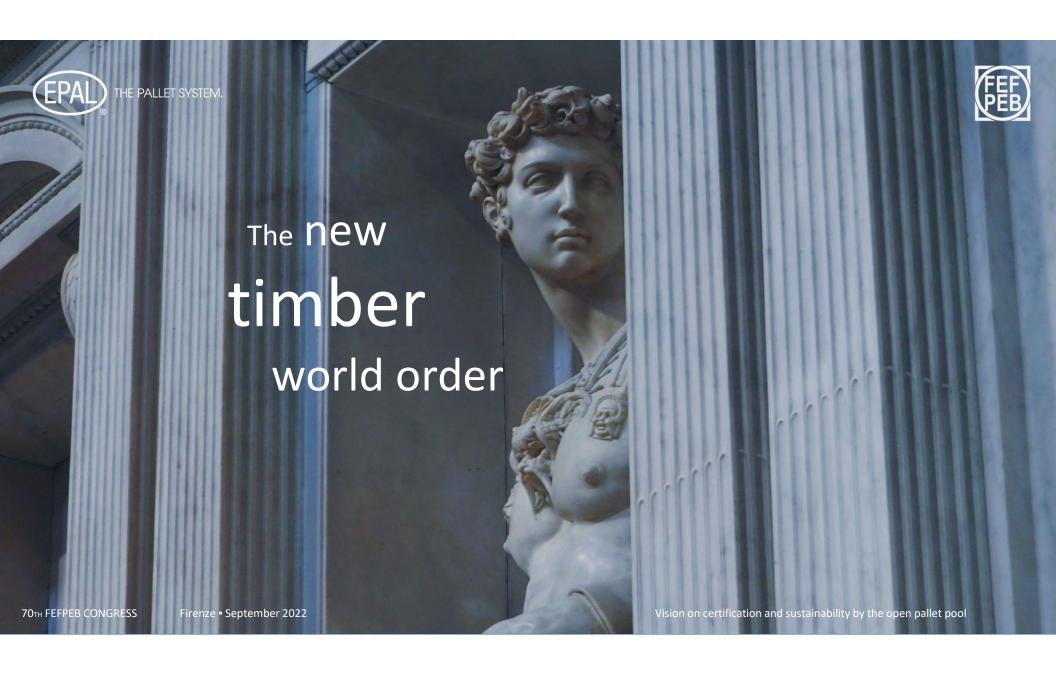
No war in Europe

Energy

is cheap and always

available

Pallets and wooden packaging is cheap and always available







The new (timber) world

Energy crisis

Global timber market (without Russia and Belarus)

Climate crisis is here: Extensive forest fires, extreme droughts, pest infestations, storms

War in Ukraine and EU sanctions

High and volatile timber prices

Supply chain disruption

Shortage of employees and truck drivers

EU policy

European Green deal EU Biodiversity strategy 2030 EU Forest strategy 2030









EU legislation

and other policies and instruments affecting forests

Fit for 55 package

EU Nature legislation

EU Timber Regulation

LULUCF Regulation

Renewable Energy Directive

Rural Development Fund

Research support

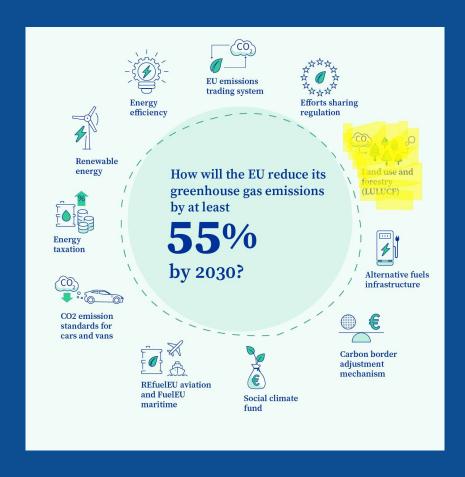
Bioeconomy Strategy

EU LIFE programme

Forest Reproductive Material Directive







EU Fit for 55 package

The LULUCF rules address the carbon footprint of activities related to the **conversion**, **use and management of land and forests** for both human and environmental benefits. These activities can occur in areas such as grassland, agricultural land and forests.















(EPAL)

EU Forest strategy 2030

"We must ensure that the amount of wood we use remains within the sustainability limits."

EU Forest strategy 2030

"We will need larger, healthier and more diverse forests than we have today."



EU Forest strategy 2030

"We must equally importantly guarantee the availability of wood."



EU Forest strategy 2030

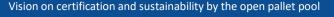
"It is crucial that we optimize the use of wood in line with the **cascading principle**. Wood should be used as much as possible for long-lived materials and products."



EU Forest strategy 2030

"We must ensure that the amount of wood is optimally utilized in line with the **circular economy** approach. Respect for circular economy principles is crucial."

FU Forest strategy 2030







EU Forest strategy 2030

calls for a circular economy and long life cycle of wood products

"Respect for circular economy principles is crucial."

"Priority should be on better using, reusing and recycling all wood-based products, as enhanced circularity of products offers a possibility of maintaining all wood-based products longer in the economy for the multiple uses."



EU Forest strategy 2030









New EU forest strategy for 2030 To improve the quantity and quality of EU forests

The new EU forest strategy will support the socio-economic functions of forests for thriving rural areas and boosting forest-based bio-economy within sustainability boundaries. It will also protect, restore and enlarge the EU's forests to combat climate change, reverse biodiversity loss and ensure resilient and multifunctional forest ecosystems by

- promoting the sustainable forest bioeconomy for long-lived wood
- ensuring sustainable use of wood-based resources for bioenergy
- promoting non-wood forest-based bioeconomy, including ecotourism
- developing skills and empowering people for sustainable forest-based bioeconomy
- protecting EU's last remaining primary and old-growth forests
- ensuring forest restoration and reinforced sustainable forest management for climate adaptation and forest resilience
- re- and afforestation of biodiverse forests, including by planting 3 billion additional trees by 2030
- providing financial incentives for forest owners and managers for improving the quantity and quality of EU forests

The strategy also focuses on

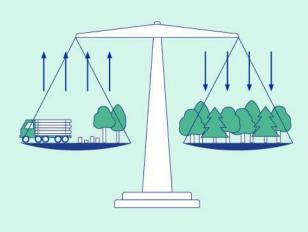
- · strategic forest monitoring, reporting and data collection
- developing a strong research and innovation agenda to improve our knowledge on forests
- implementing an inclusive and coherent EU forest governance framework
- stepping up implementation and enforcement of existing EU acquis





EU Forest strategy 2030

Increased target for carbon removals



Under the current rules, EU member states must ensure that:

emissions from land use and forestry are compensated by an equivalent removal of CO₂ within the sector for the period 2021-2030 ('no debit' rule)



The new rules aim to set a more **ambitious EU-level target** for carbon removals by 2030.

* Mt=Million tonnes of CO₂equivalent

Source: EEA

Increase of more than 20 %



Timber industry: Demand and use of timber

Presentation does not correspond to real market shares





More demand

(sustainability)

EU Forest strategy 2030 EU Biodiversity strategy 2030

Carbon storage Biodiversity Forest protection

More demand

(markets)

Energy

Export: China and USA

"The demands on forests include product supply,
a role in bioeconomy
as well as role in

climate change mitigation

and provision of many other ecosystem services like

purification of air and water, biodiversity and recreation."

Forest Europe: State of Europe's forests 2020









Sustainability of the timber industry

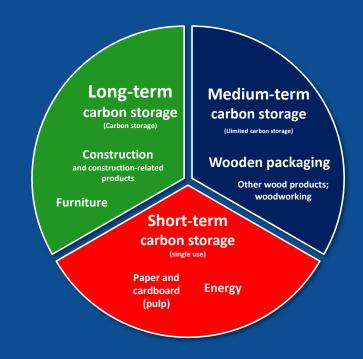


Forests are carbons sinks
Renewable resources
Substitution avoids carbon emissions

Carbon storage

Ensuring the availability of wood Forest protection Zero waste

Circularity
Cascading use of wood



"Sustainably-produced and long-lived wood-based products can help to achieve climate neutrality by storing carbon and substituting fossil-based materials.

The carbon removal period

can be significantly extended when transforming woody biomass into wood materials and products with a long-life cycle.

Wood should be used as much as possible for long-lived materials and products to substitute their carbon intensive and fossil-based counterparts."

EU Forest strategy 2030





Sustainability of the timber industry



Carbon storage

Short-term carbon storage

Energy

Paper and cardboard (pulp)

Medium-term carbon storage

Wood packaging
Other wood products

Woodworking

Long-term carbon storage

Construction
and construction-related products

Furniture

Legal regulation

e.g. EU Forest strategy 2030:

"The proposal of the Renewable Energy Directive includes strengthened sustainability criteria for bioenergy and (...) reinforces the implementation of the cascading principle (...) and a sustainable circular bioeconomy."

Legal regulation?

Legal and financial support









Sustainability of the Wooden pallet and packaging industry

Forests are carbons sinks

Renewable resources

Substitution avoids carbon emissions

Carbon storage



Ensuring the availability of wood 🛑 🛑



Forest protection



Zero waste



Circularity



Cascading use of wood









Sustainability of the Wooden pallet and packaging industry

"It is crucial that, when building a sustainable and climate-neutral economy, we optimise the use of wood in line with the

cascading principle.

This means that wood should be used as much as possible for long-lived materials and products to substitute their carbon intensive and fossil-based counterparts."

EU Forest strategy 2030

"Short-lived wood-based products

also have a role to play, especially in substituting their fossil-based counterparts. Wood used for the production of short-lived products and also for energy production should rely on wood that is unsuitable for long-lived materials and products, and secondary woody biomass such as sawmill byproducts, residues and recycled materials."

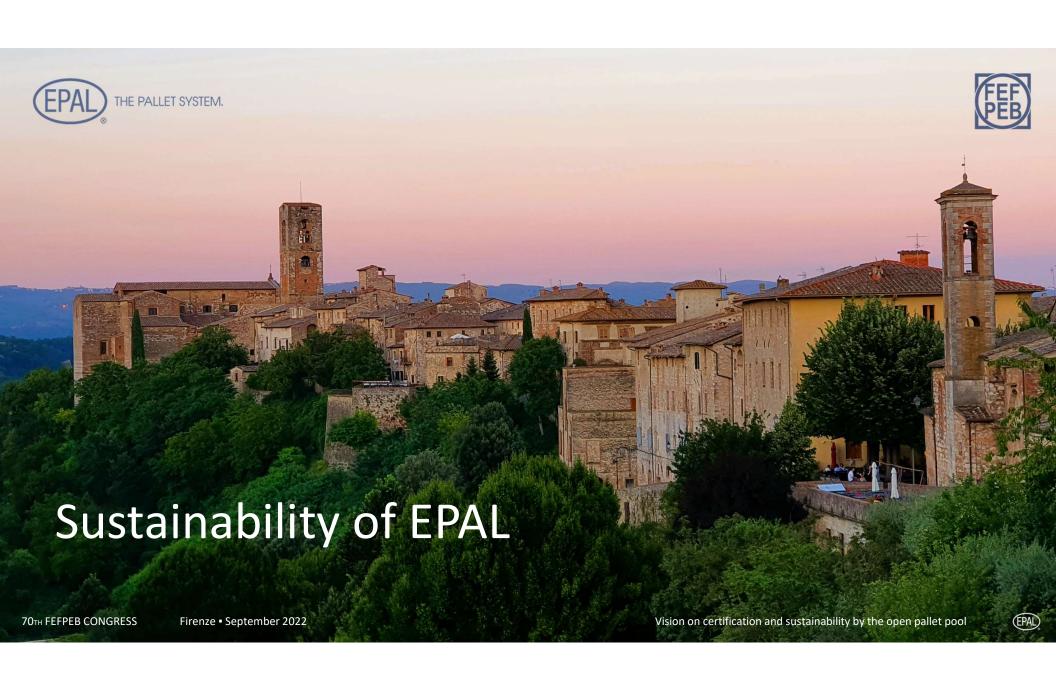
EU Forest strategy 2030

"Respect for circular economy principles is crucial."

"Priority should be on better using, reusing and recycling all wood-based products, as enhanced circularity of products offers a possibility of maintaining all wood-based products longer in the economy for the multiple uses."

EU Forest strategy 2030









What is EPAL?

Quality assurance.
Standardization.

Safety in logistics.

Open pallet exchange pool.

Resilience of (pallet) logistics.

Part of the wooden packaging industry.

Circular economy.









is Circular Economy!











better Circular economy

enhanced Quality classification

modernized Terms of Exchange

Permission of repair with reclaimed components (only class C pallets)

permanent Quality inspections

more Certification

DIGITAL EPAL Euro Pallet



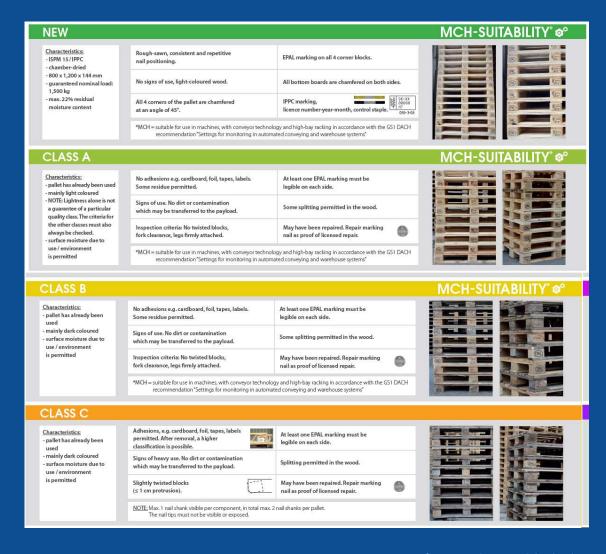




EPAL QUALITY CLASSIFICATION

Recommendations for the use and exchange of EPAL Euro pallets









EPAL TERMS of EXCHANGE Conditions for exchanging EPAL Euro pallets





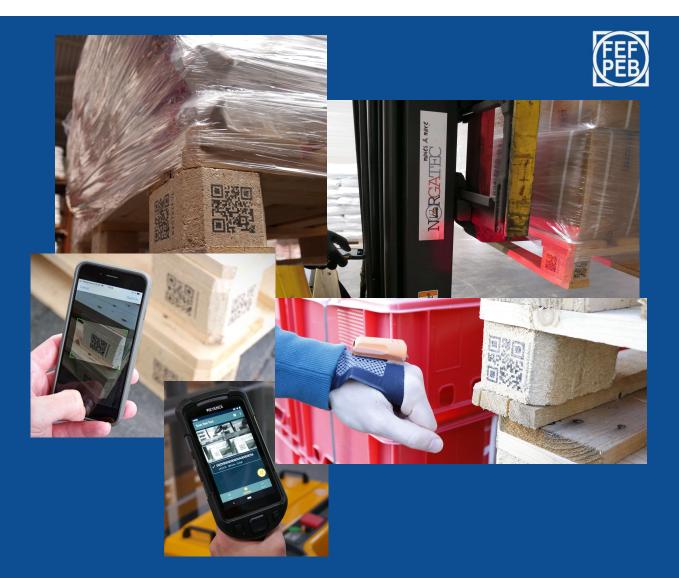




EPAL
Innovation Lab

Development of the digital EPAL Euro pallet





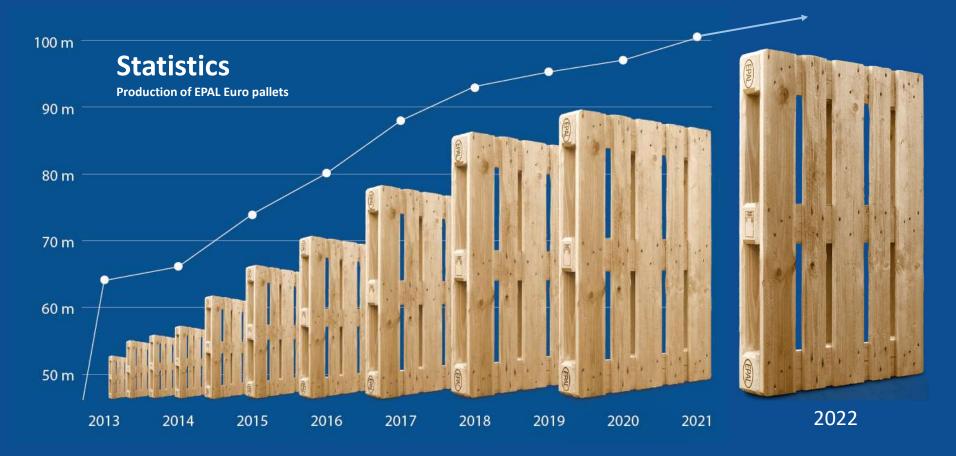






more Circular economy









Vision on certification









Vision on certification

Current survey: approx. 75 % EPAL Euro pallets are made from certified timber

Challenges:

- Partly insufficient volume of certified timber in several EPAL countries and regions
- Avoidance of longer transport routes for pallet timber
- Lack of certification of suppliers of manufacturers of EPAL Euro pallets
- Limited acceptance of certification, as timber from EU countries is almost exclusively timber from sustainable forests
- Insufficient possibilities for reliable and legally comprehensible control and guarantee
- Avoidance of disadvantages for small wood packaging companies





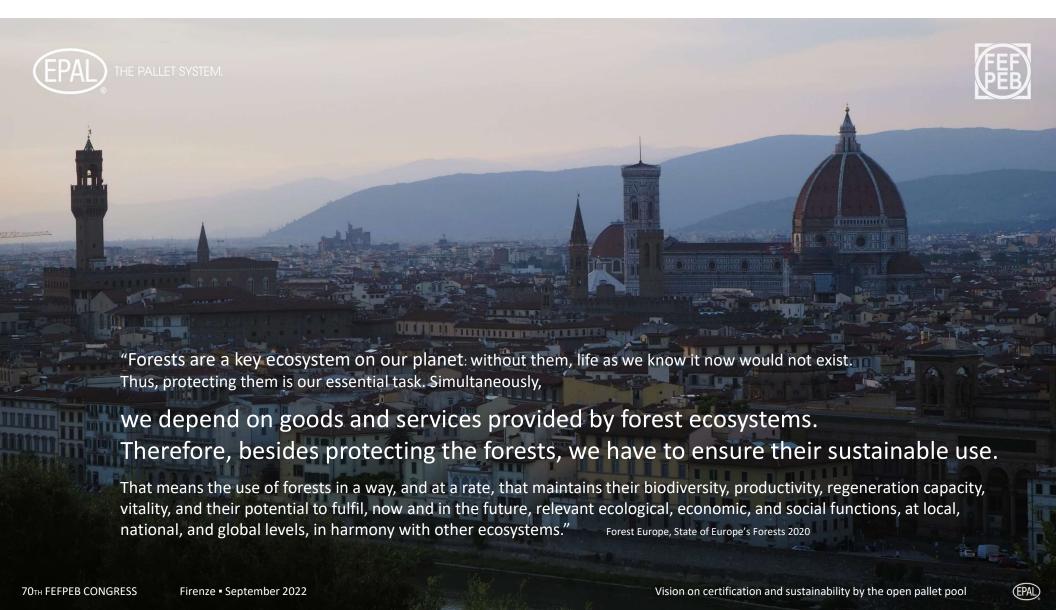


Vision on certification

Next steps:

- Transition period with quota schemes
- Specification of EPAL requirements on the origin of wood from sustainable forestry based on the EU Timber regulation and the EU Forest strategy 2030
- Establishment of a reliable control system within the framework of EPAL quality assurance
- Cooperation with certification providers to extend the system to more companies in the timber industry and the EPAL system





GRAZIE.

