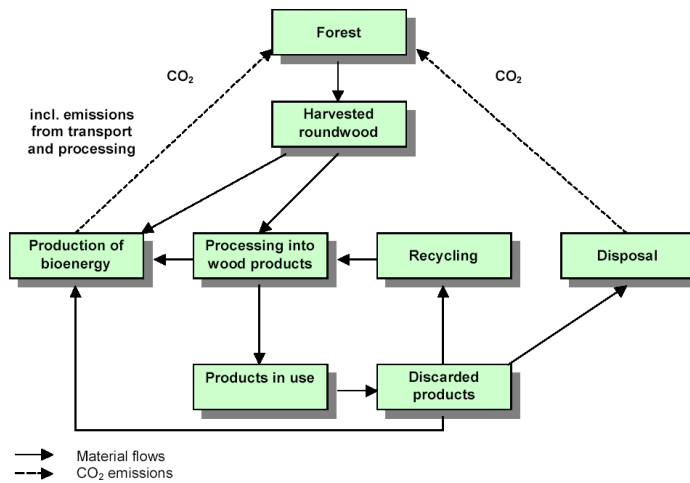
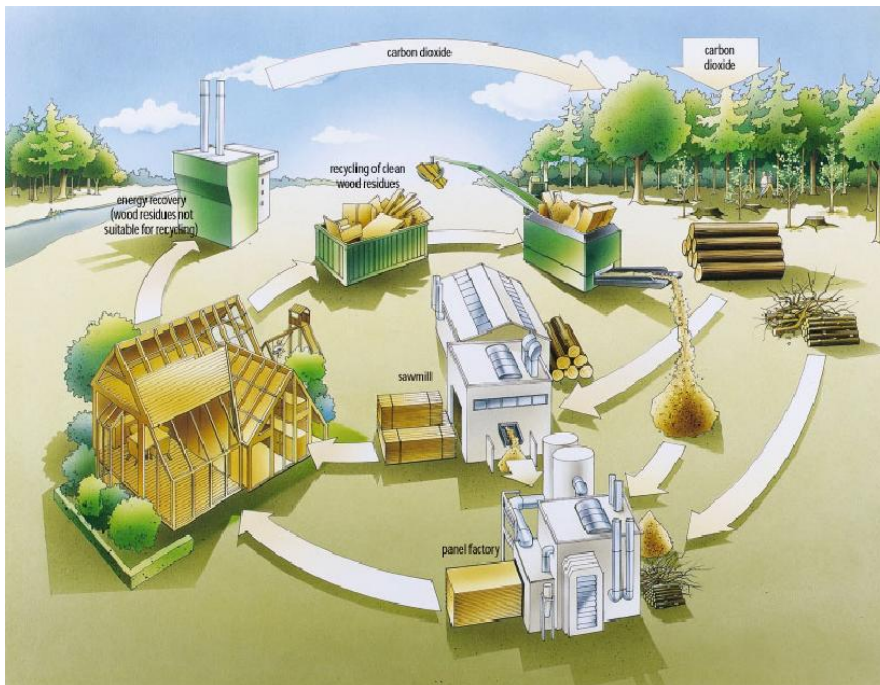


# Flows of wood resources, products and emissions



1



## **Barriers to the enhanced use of wood in Europe**

- The main regulatory limitations are perceived to be the fire and acoustic performance, particularly in multi-storey/ occupancy dwellings
- Regulatory authorities and others, including industry may not always be fully aware of the influences the regulations have on the use of different materials
- There are not only national but also regional differences in building regulations
- There is uncertainty and a lack of in-depth knowledge of building regulations for the use of wood in construction

3

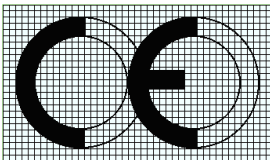
## **Barriers to the enhanced use of wood in Europe**

- ❖ The differences between sets of regulations act as barriers to joint actions across Europe. There is a need for much more cooperation to find common positions to overcome these differences in order wood products can be produced in the most efficient way
- ❖ Europe is getting familiar with Eurocodes but their use in every day design is still very limited
- ❖ There is generally not enough guidance on wood structures (design guidance for wood frame housing was commented to be adequate, whilst non-housing design advice was limited)

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# Attestation of product conformity

- based on 'new approach' directives ('CE marking') - CPD 89/106/CE,
- mandates for wood products:
  - M101: doors, windows and related products
  - M108: curtain walling systems
  - M112: structural timber products and ancillaries
  - M113: wood-based panels
  - M119: flooring
- Harmonised standards hEN
  - basis for CE marking



## Harmonised standards

Product	Mandate No.	Technical committee	Harmonised standard
Wood based panels	M 113	CEN TC 112	EN 13986 “Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking” prEN 14279 “Laminated veneer lumber (LVL) – specifications, definitions, classification and requirements”
Floorings	M 119	CEN TC 175 CEN TC 134	prEN 14342 “Wood floorings – Characteristics, evaluation of conformity and marking” prEN 14041 “Resilient, textile and laminate floor coverings – Health, safety and energy-saving requirements”
Structural timber products and ancillaries	M 112	CEN/TC 124	prEN 14250 “Timber structures – product requirements for prefabricated trusses using punched metal plate fasteners” prEN 14229 “Wood poles for overhead lines – requirements” prEN 14080 “Timber structures – glued laminated timber – requirements” pr EN 14081-1 “Timber structures – Strength graded structural timber with rectangular cross section – Part 1: General requirements” pr EN 14081-2 “Timber structures – Strength graded structural timber with rectangular cross section – Part 2: Machine Grading – Additional requirements for initial type testing” prEN 14081-3 “Timber structures – Strength graded structural timber with rectangular cross section – Part 3: Machine Grading – Additional requirements for factory production control” prEN 14081-4 under consideration with a focus on “strength grading machines and their settings for timber from specified countries”

## EOTA guidelines ETAG

- ETA = European Technical Approval (see CPD)
- ETAG = ETA Guideline, used if:
  - no standard (EN or national) &
  - product differs significantly from standard
- first harmonised **ETAG** for wood:  
**ETAG 007** “*Timber frame building kit*”
- more ETAG’s are produced up-to-date

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## Risks

- The weak overall construction activity and increasing competition from suppliers of competing materials and non-wood solutions that so far have tended to lead the development in providing solutions and value for the participants throughout building materials and construction sectors
- Continued weak perception by the public, specifiers/facilitators and trade/industry/executors in many major markets regarding wood products and wood based construction

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# Opportunities

- Strong credentials and even advantages of wood products in meeting requirements (technical, functional, environmental and economical) in construction and housing
- Industry wide cooperation in innovations and delivery of building products and construction practices
- Increasing use of wood products in new construction
- Increasing demand for wood products in repairs, maintenance and improvement