



Wood as a material

When constructing
a furniture, a building or a bridge,
we might choose
wood



or we might choose
concrete, steel or cement



A comparison of materials

WOOD

- Made by nature
- The production method (the **photosynthesis**):
 - is 100 % clean
 - absorbs CO₂
 - requires no energy
 - free of charge
- Stores carbon
- Renewable

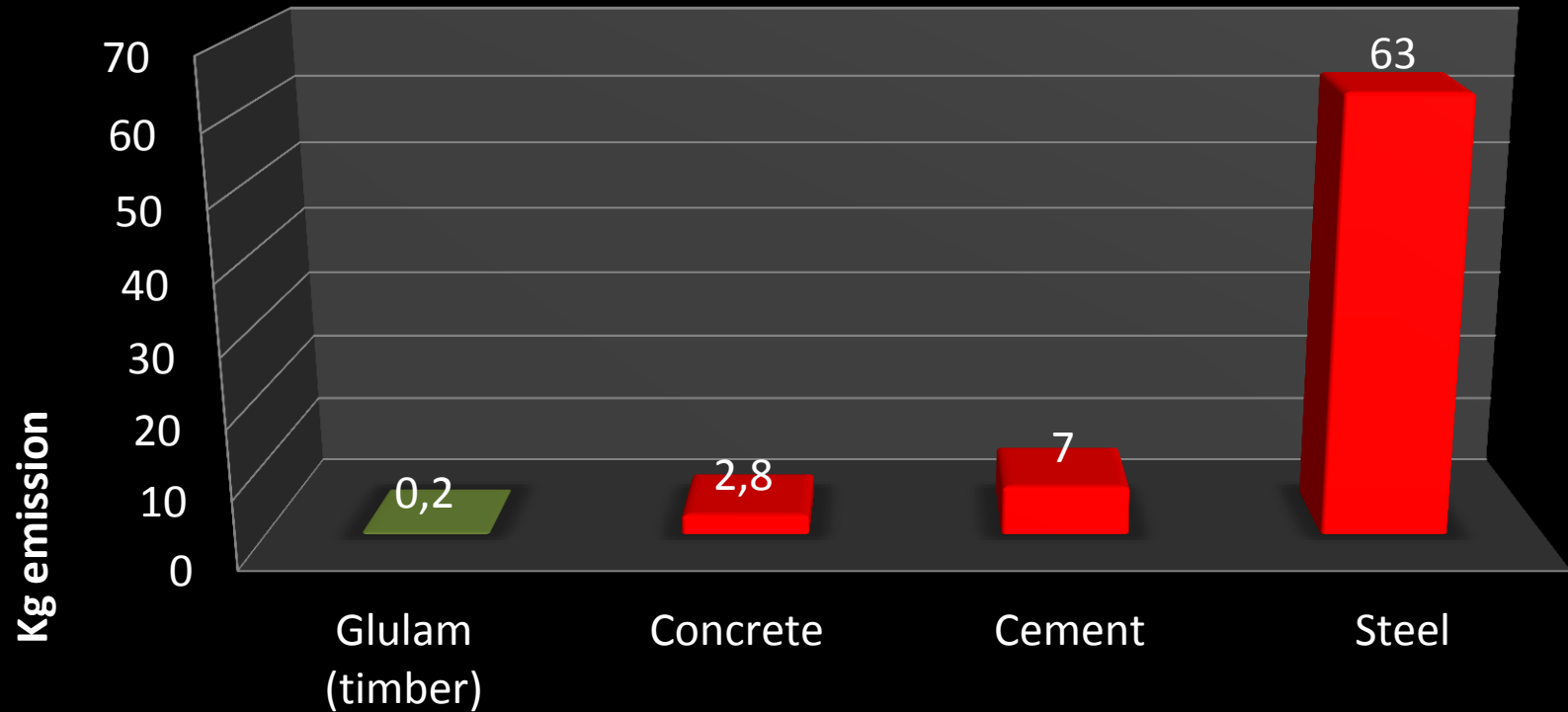
CONCRETE, STEEL, CEMENT

- Made by humans
- The production method (**industrial**):
 - causes pollution
 - emits CO₂
 - needs a lot of energy
 - costs money

Using **wood** as a building material:

- will help us reduce our **carbon** footprints
- may be **part of the solution** to our greatest environmental problem,
 - **global warming and climate changes**

CO₂ emission from production of 10 litre



	Glulam (timber)	Concrete	Cement	Steel
■ Kg CO2	0,2	2,8	7	63

Substitution

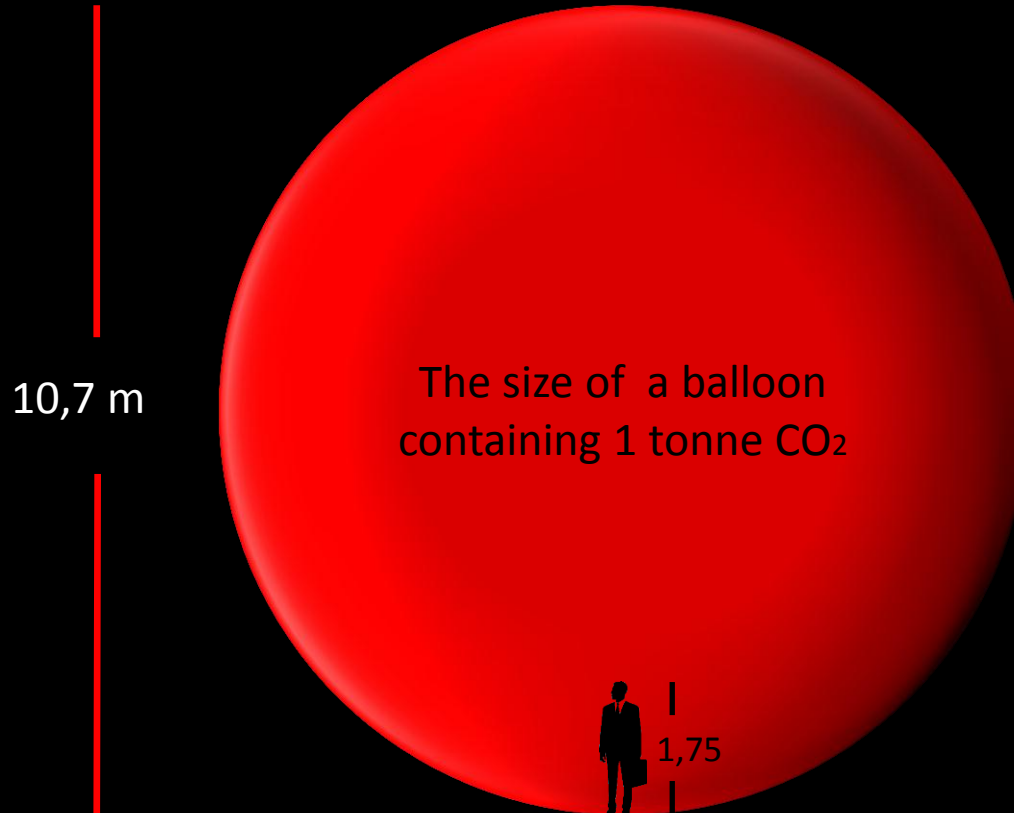
When 1 cubic metre of concrete is replaced with 1 cubic metre of timber...



Replace



It reduces the CO₂ emission by 1 tonne



The average emission of CO₂ per capita
in Europe, is...



9 tonnes

While the sustainable amount, is



1 person

1 tonne CO₂

Conditions for using wood - Sustainable forestry:

- A new tree must be planted for every one cut
- Make sure annual growth is equal to or larger than the amount taken out
- Strict rules and regulations must be followed,
 - to maintain the natural biodiversity
 - to ensure that the next generation also may enjoy our forests



Plant a tree

Use wood

Take care of our
forests



Credits for photographs in slide 4
- from top to bottom

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