

IPROMO



Bioeconomy in mountain areas – an opportunity for local development

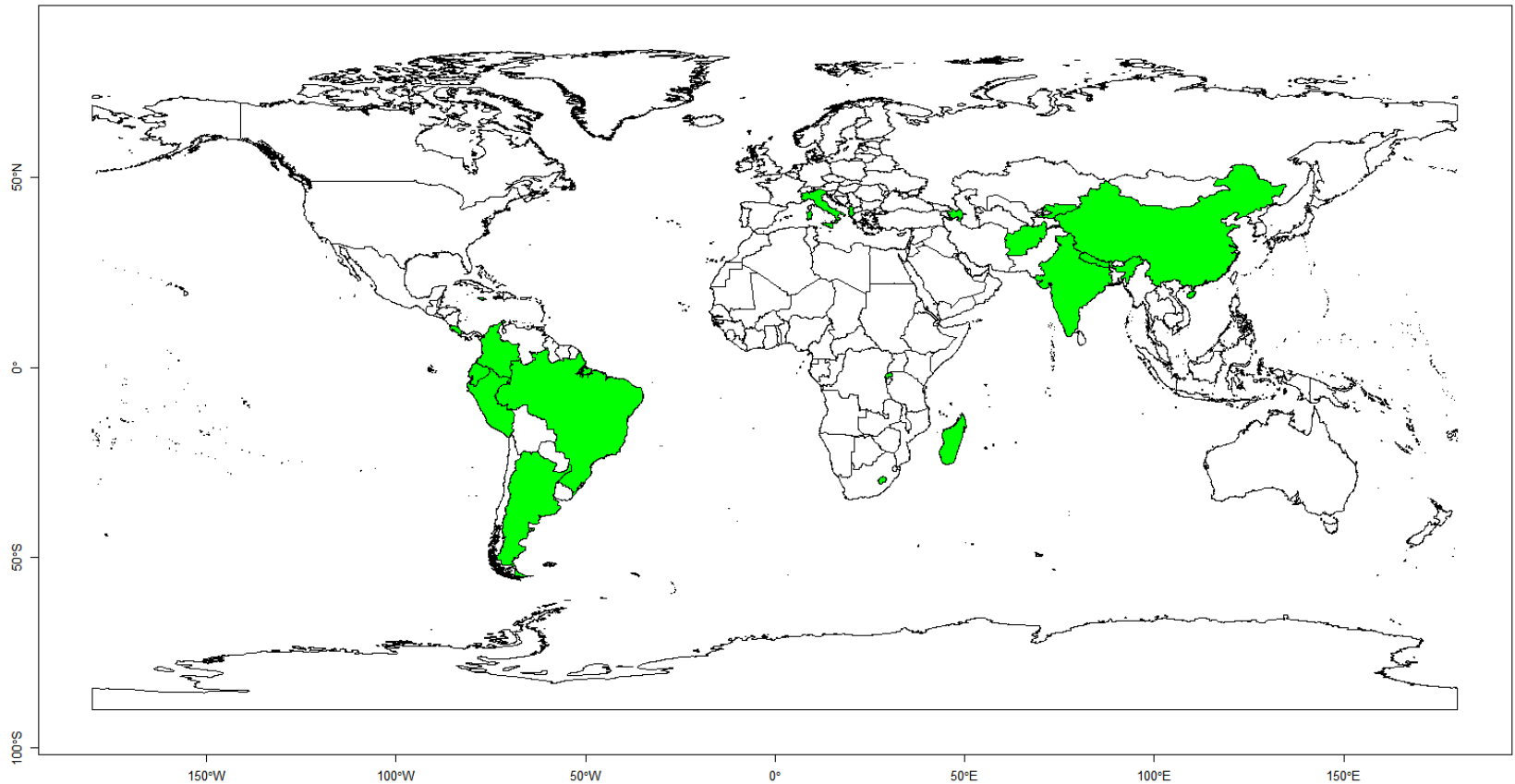
Pieve Tesino and Ormea (Italy) 18 June – 02 July 2018

SYNOPSIS

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CNR-IRPI

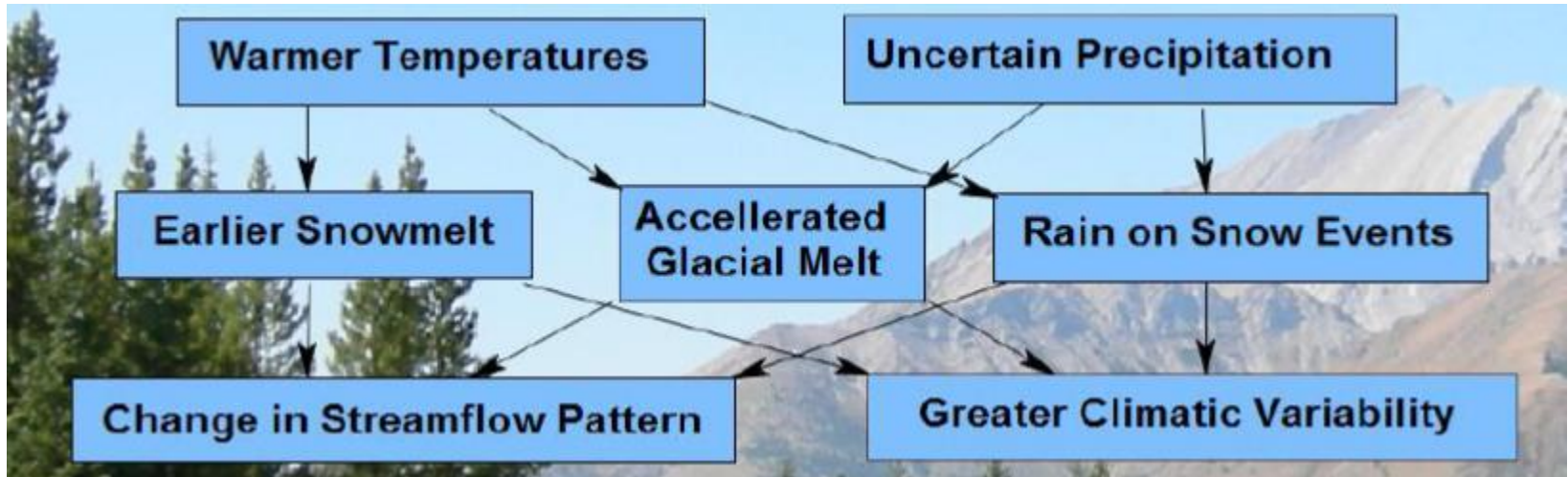
We came from different countries



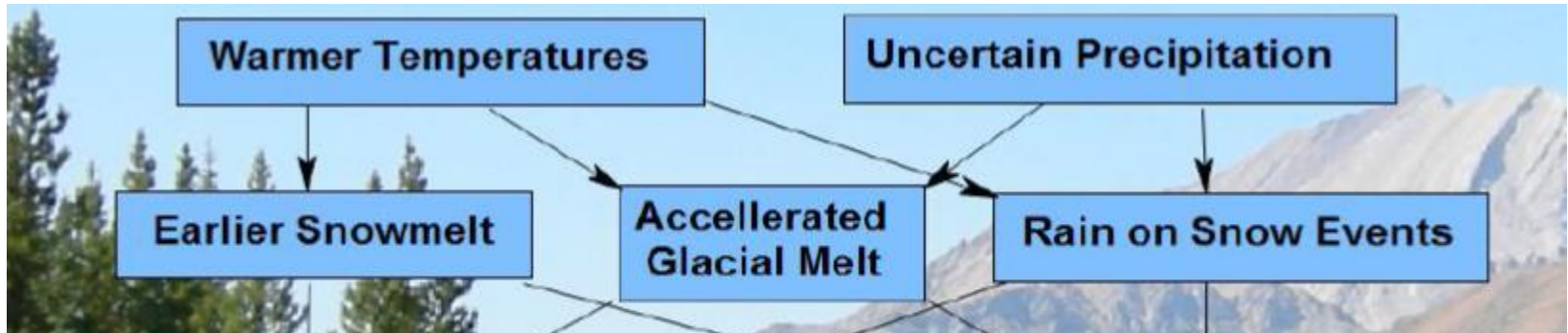
We want to apply it to our mountains



a vulnerable environment



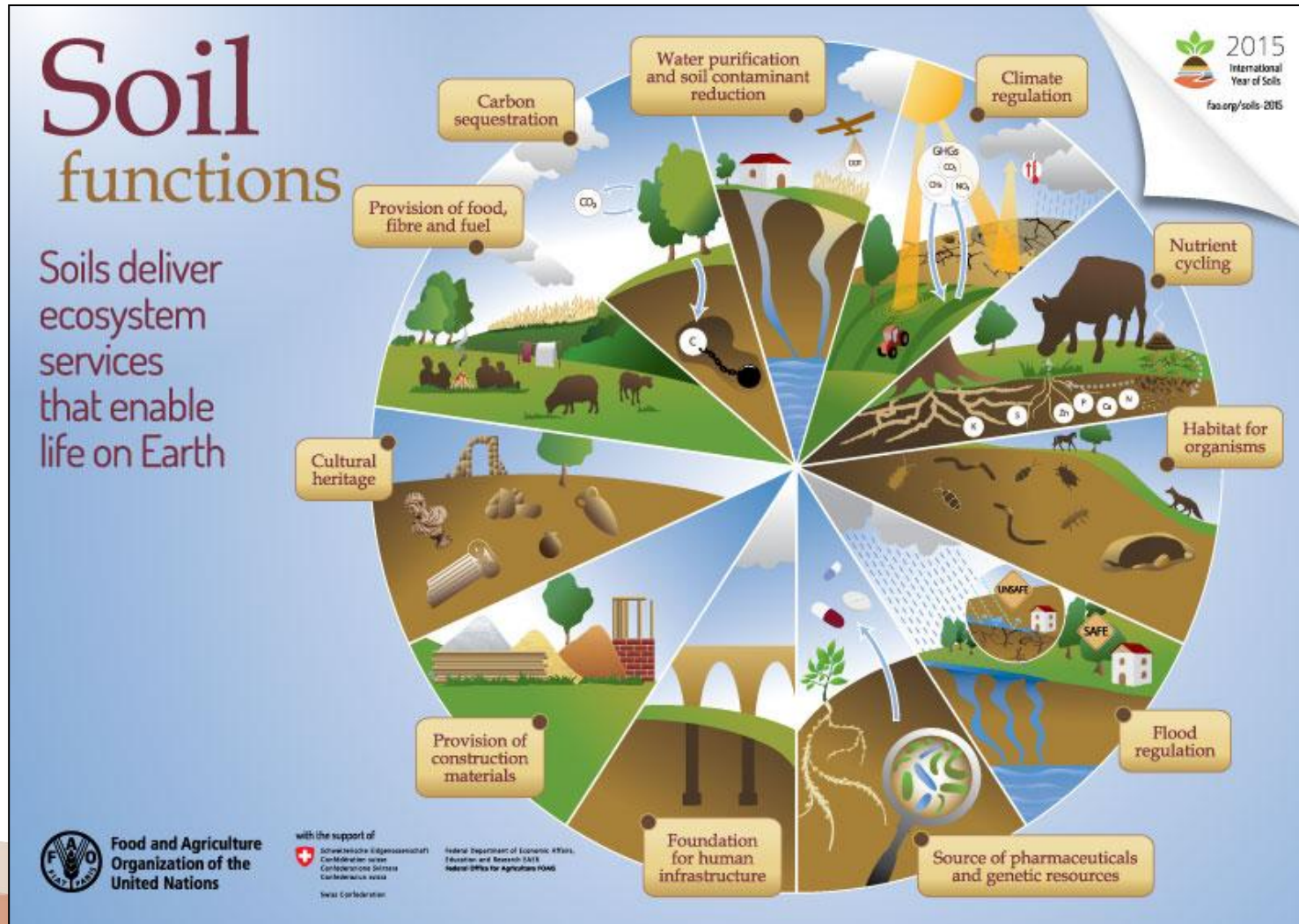
a vulnerable environment



that needs...



specific knowledges



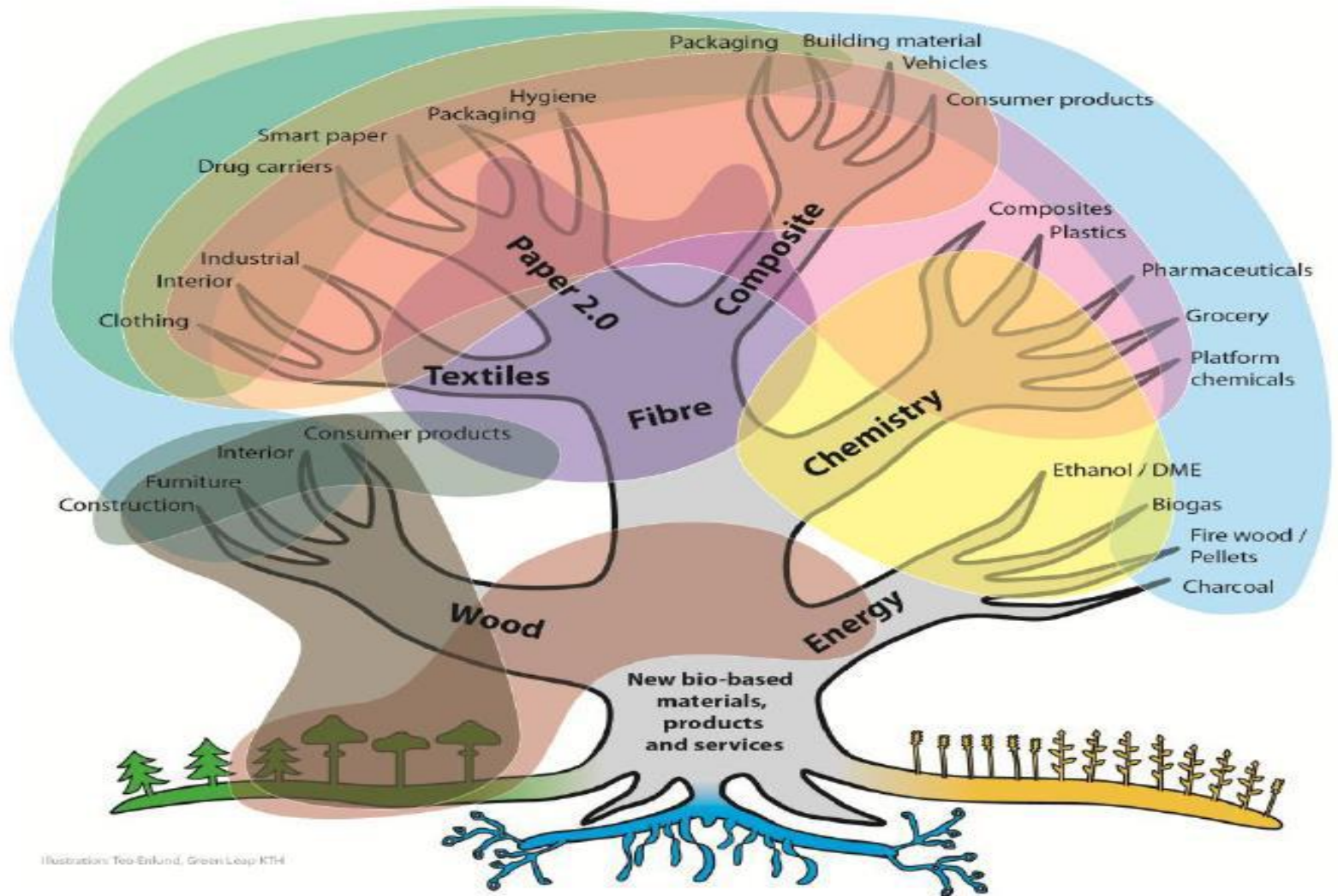
specific knowledges

So
fur

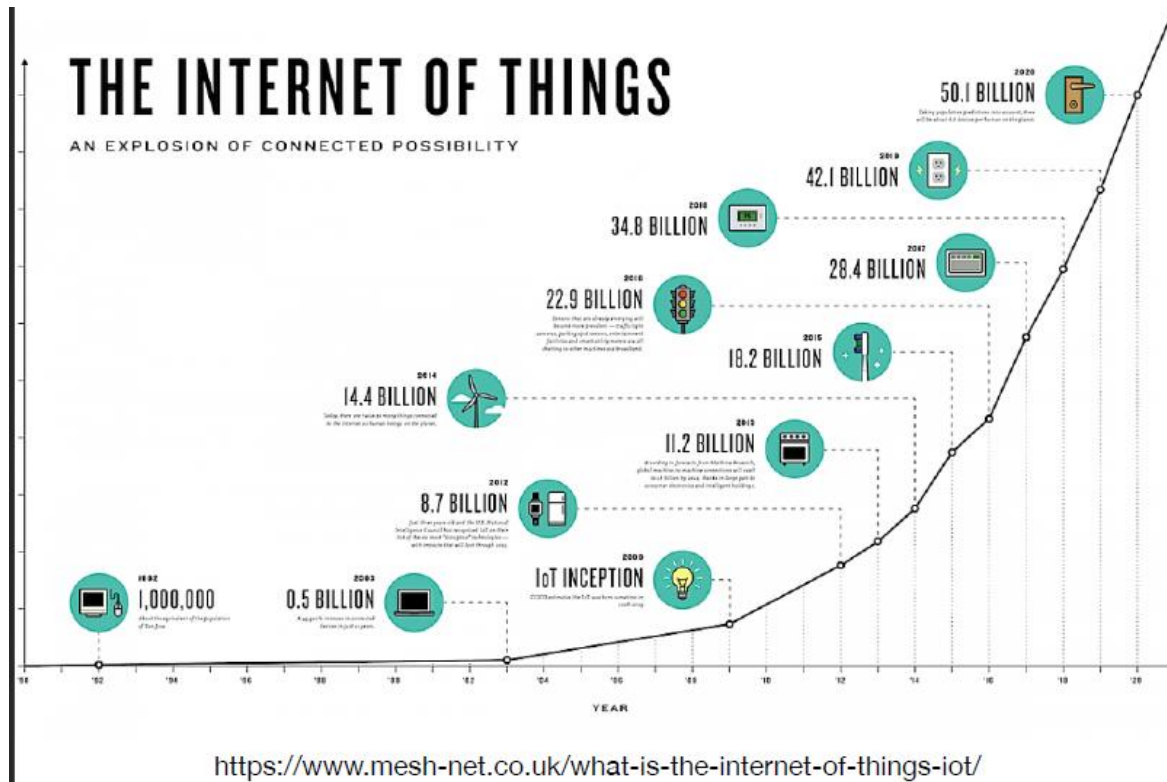
Soils do
ecosys
service
that en
life on



Food
Orga
Unit



management tools



management tools

Wheat (*Triticum aestivum*, *T. durum*, *T. monococcum*)

- world annual production: 650 Mio. tons (A: 1.5 Mio t)
- 3rd most-produced cereal after maize and rice (2016, FAOSTAT)



Wheat straw

- A: ca. 720.000 tons avail.
- ca. 180.000 tons for industrial utilization (theoretically)

Polysaccharides

Lignin

THE INTI

AN EXPLOSION OF C

1,000,000

http

and developing strategies










DEFRA - UK. Source: *Payments for Ecosystem Services: A Best Practice Guide* . 2015

and developing strategies

Options for mitigating climate change through forest management



Option		current offset of total EU emissions (%)	Short-term relative impact of > harvest	Reported/accou nted in:
Increase in C stock	in existing forests (CO ₂ sink or "removal")	  ≈ 10% (only 1% "accounted" under KP in 2008-2012)	<<	LULUCF
	in wood products	 ≈ 1%	>	
Substitution effects by wood (approximate figures)	Material	 →  ≈ 1-2%	>	Other GHG sectors
	Fossil-fuel energy	 →  ≈ 4-5%	*	

* While the emission saving by material substitution are immediate, when wood replaces fossil fuels the emissions saving highly depends on the context, assumptions and time frame.

and developing strategies

Options for mitigating climate change through forest management

Option	current offset of total EU emissions (%)	Short-term relative impact of > harvest	Reported/accounted in:
	CO ₂		

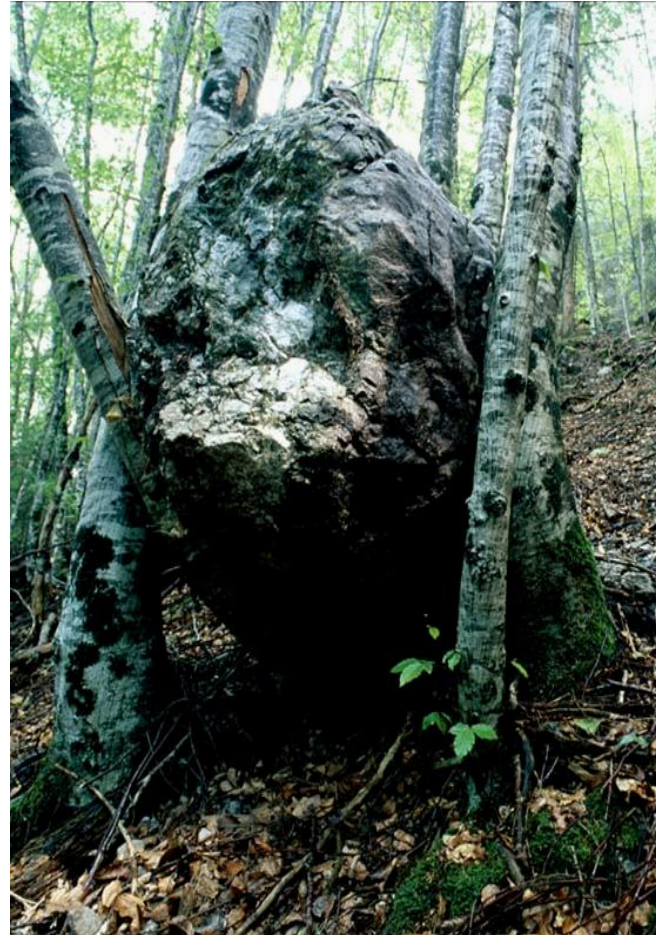
to provide...

Substitution effects by wood (approximate figures)	Material	Material	Material	Material
	Fossil-fuel energy		→	
		→		≈ 4-5%

} Other GHG sectors

* While the emission saving by material substitution are immediate, when wood replaces fossil fuels the emissions saving highly depends on the context, assumptions and time frame.

various services/functions



innovative/traditional products



& clothes!!!



Working groups

Task

Prepare a presentation showing how the bioeconomy principles could be used to improve the local development.

Thank for your attention!

- **Alberto Dotta**
- **Annalisa Romani**
- **Borut Vrscaj**
- **Davide Murgese**
- **Dorothea Palenberg**
- **Emanuele Blasi**
- **Filippo Brun**
- **Florian Zikeli,**
- **Giorgio Vacchiano**
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