ENVIRONMENTAL FUNCTIONS

OF FORESTS



The environmental functions of forests are crucial for our wellbeing:





to reduce the effects of climate change, because:

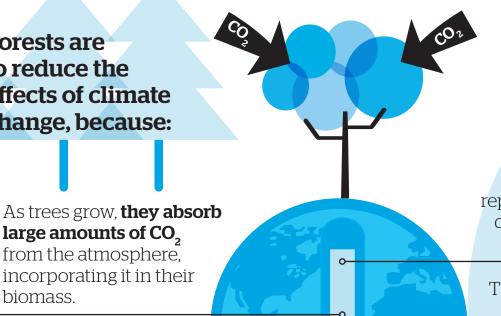
Forests are

biomass.

Carbon is stored in structures with long life-spans, **such as** wooden buildings.

large amounts of CO,

from the atmosphere,



Wood in harvested wood products may act as a carbon sink, replacing more energydemanding materials or industrial sectors. They help to decrease greenhouse gas emissions: using wood-based biofuels

reduces the need to use fossil fuels. Between 2005 and 2010 the average annual absorption of carbon in forest biomass reached 870 million tons

in the European region. That is equivalent to about 10% of the greenhouse gas emissions from the European countries.

Carbon is not only stored in living trees: the stock of carbon held

in dead organic matter and forest soils is also very important:

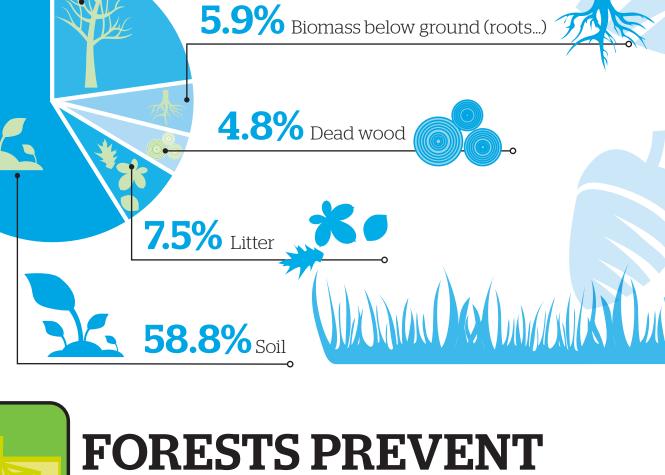
Proportions of forest

carbon pools in Europe

(%)

23.0% Biomass above ground

(leaves, trunks, brunches...)





SOIL EROSION

increases sedimentation in streams, rivers, lakes and the sea, **affecting the species** living in those ecosystems.

They are like **natural sponges**:

regulating surface and groundwater

The loss of soil makes it

vegetation cover, and

more difficult to restore the



flows, and helping to preserve water resources, both in quality and quantity.

THE HYDROLOGICAL CYCLE

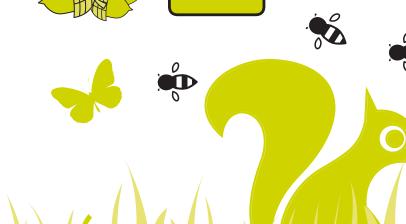
FORESTS REGULATE



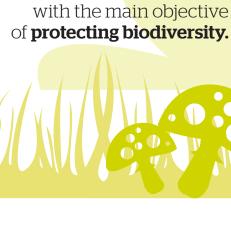
and mitigation of water-related risks. such as floods, droughts, and landslides.



is key for the **provision of food** and raw materials, as well as medicines that are already known or yet to be discovered.







of forests have been protected

In Europe about hectares



Ministerial Conference on the Protection of Forests in Europe