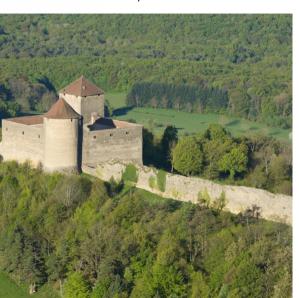


# Forests & global warming



### Introduction: vocabulary

climate



global warming

forest

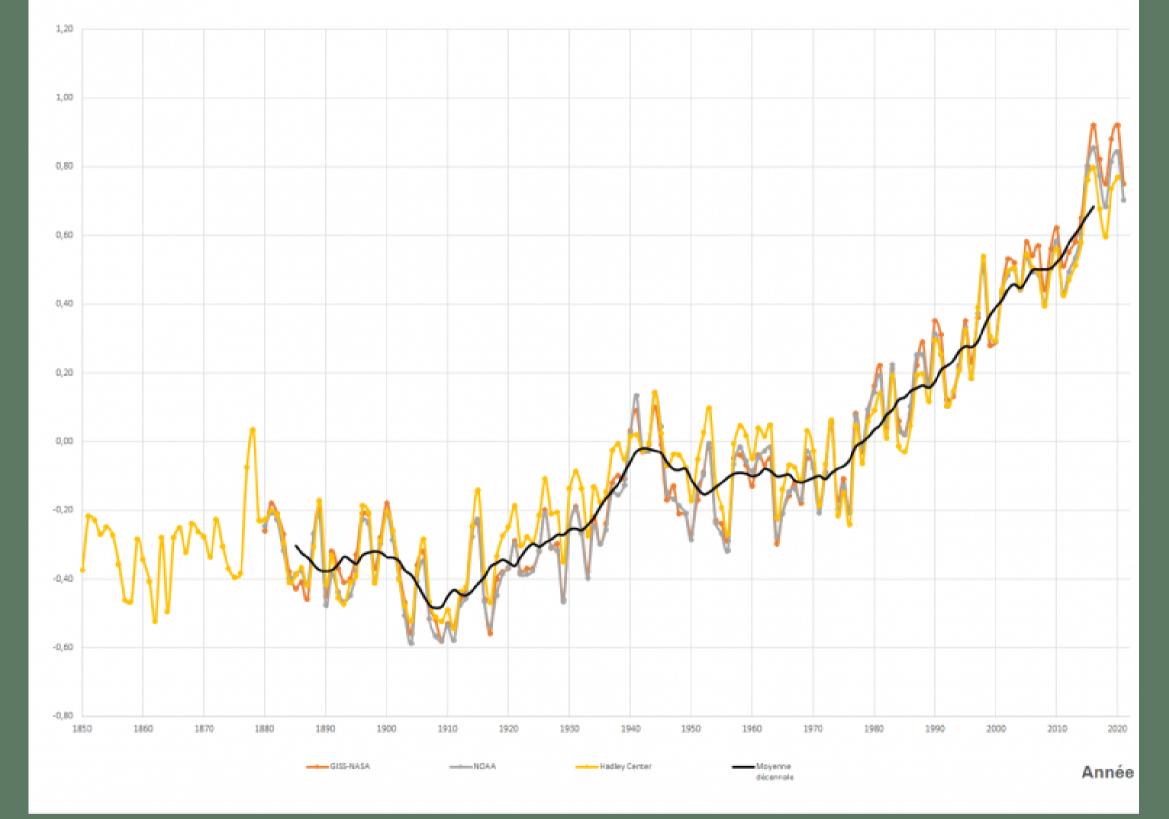


### Introduction: vocabulary

Global warming:







### Summary



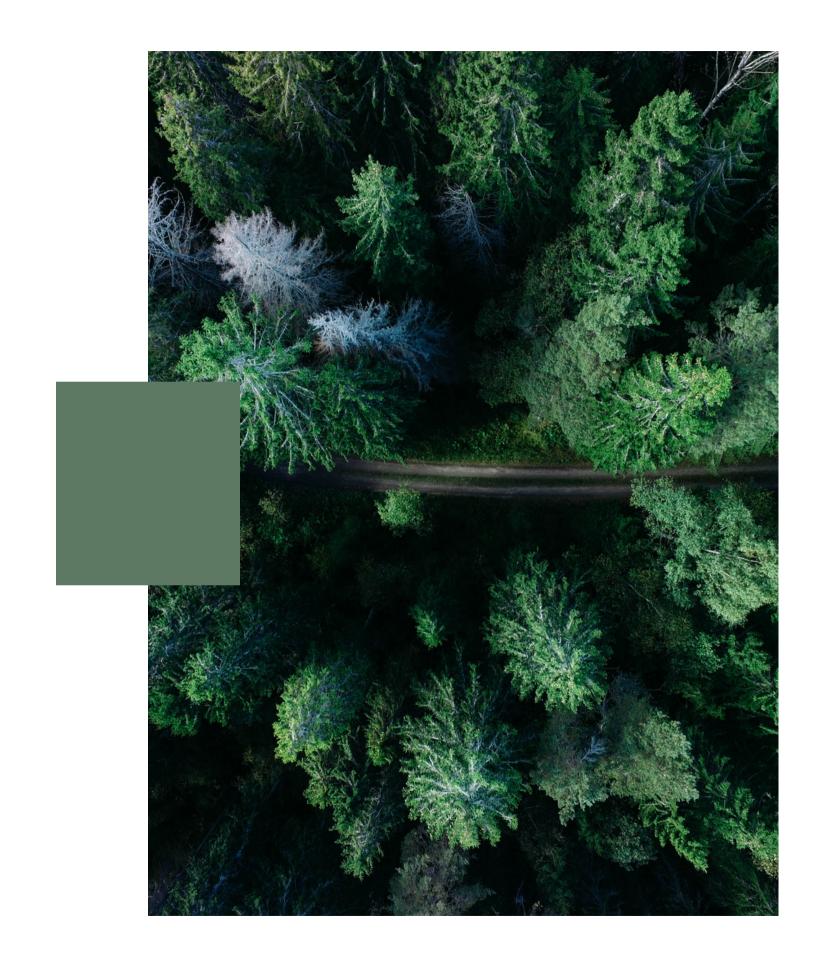
I- What are the consequences of global warming on forests



II- What are the advantages of forests in the face of global warming?



III- How to preserve forests from global warming?



# I-What are the consequences of global warming on forests?

**Increase** in the temperature on the surface of the Earth



modifies the distribution of rains and winds







climate changes

I - What are the consequences of global warming on forests?



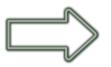
Consequences of lack of water and high temperatures in forests



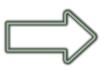
The trees lose their leaves they suffer from **drought stress** 







some **parasites** proliferate and attack tree trunks and branches



more **forest fires** therefore decrease in biodiversity in the forest ecosystem

I - What are the consequences of global warming on forests?



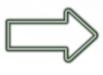
### Consequences of lack of water on forests



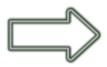
Example in France: 300,000 Ha of public forests have withered away since 2018!







So cuts of the trees are inevitable to avoid the spread of diseases and fires (and ensure the safety of walkers)

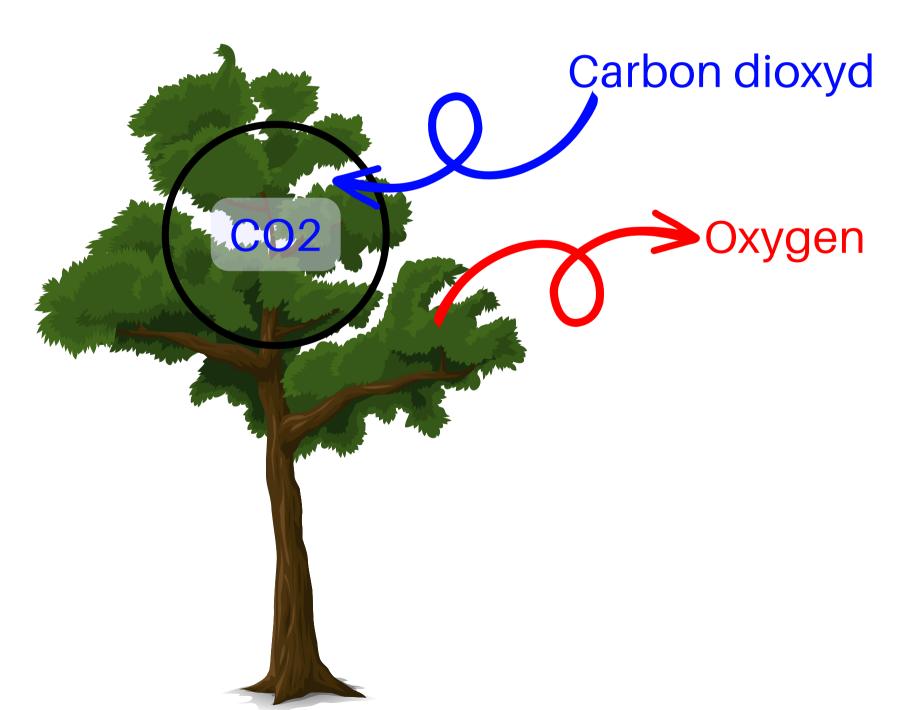


many major forest species will no longer be suitable in the future

Advantage 1: Sequestration trees take CO2 from the atmosphere via photosynthesis.

Thus, forests are the second reservoir of C on a global scale after the oceans.

Ex: in France, 83 million tonnes of CO2 are sequestered each year.



Advantage 2: Storage

Even when cut, part of the CO2 remains stored in wood (furniture, construction, etc.)

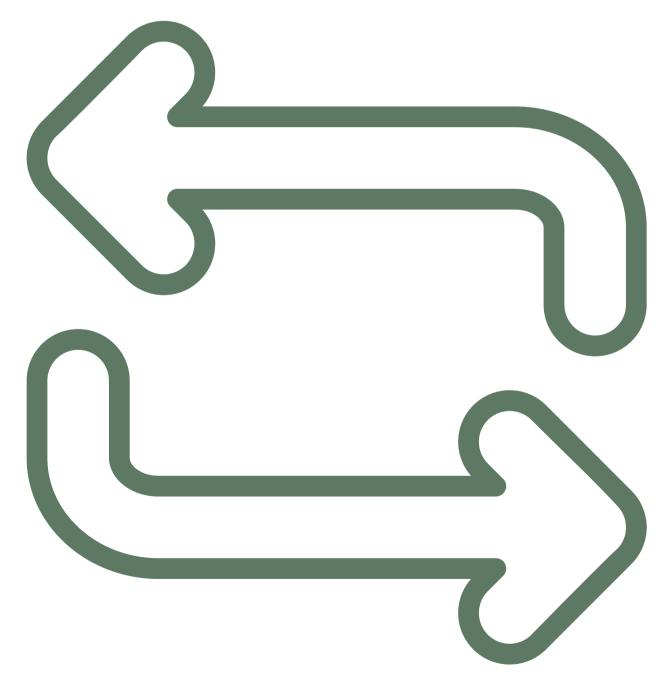
a durable and the most renewable material



Advantage 3: Substitution

Wood is a substitute product of cement or steel, the production of which releases CO2 into the atmosphere.

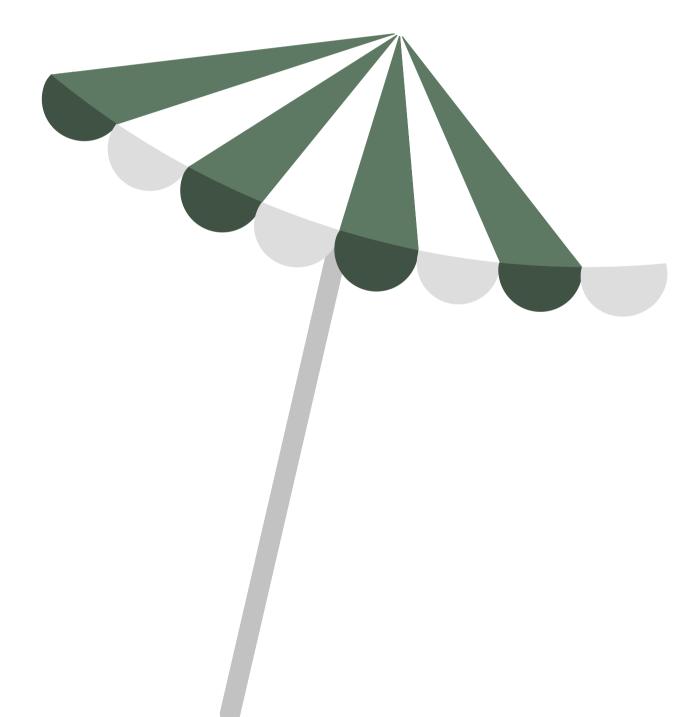
Wood can replace them in some constructions.



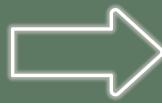
Advantage 4: Air conditioning

The forest acts as an air conditioner.

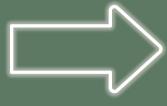
Indeed, the tree reflects about 20% of solar radiation and at the same time actively cools the surrounding air by evaporating water during transpiration.



III- How to preserve forests from global warming?



二 Anticipation



Experimentation



Diversification