



# Altrance

FORÊTS BOIS

LA PASSION DE LA FORÊT



COOPÉRATIVE FORESTIÈRE






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LA PASSION DE LA FORÊT

# FOCUS ON MARITIME PINE SILVICULTURE IN SW OF FRANCE

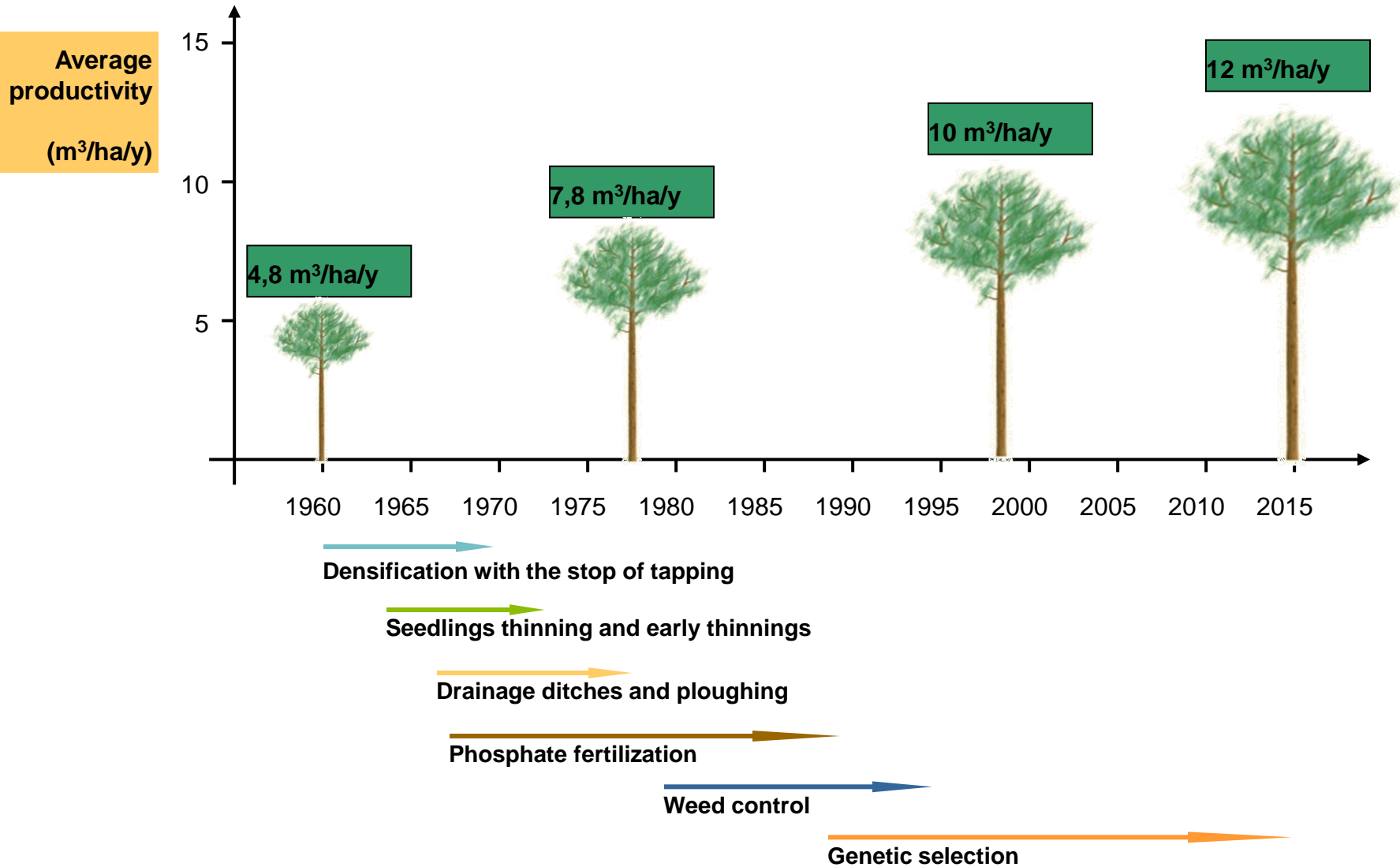






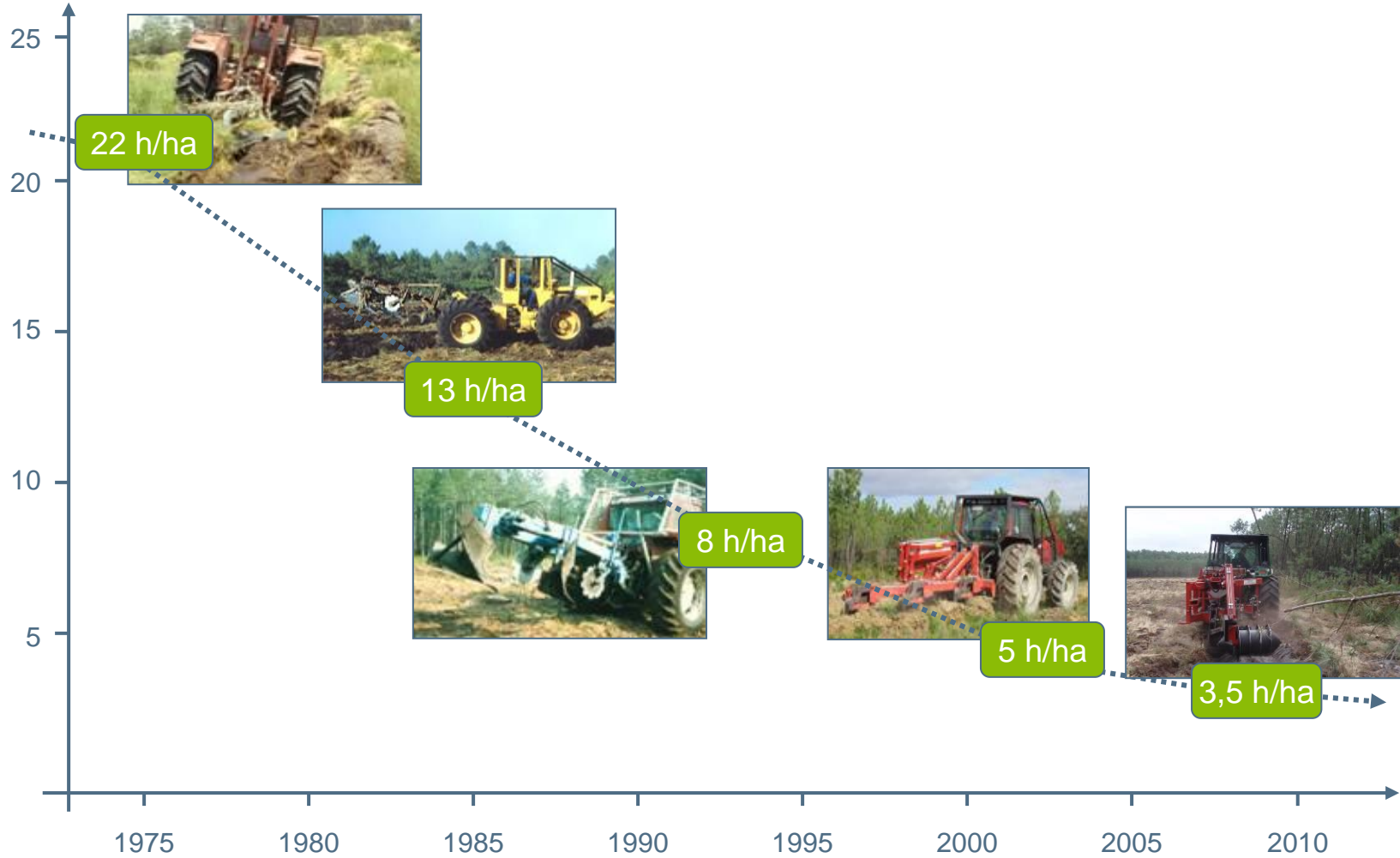
**A private forest, created by man, to value and enhance marshy, unhealthy lands with poor soil fertility**

**Search for return on investment**



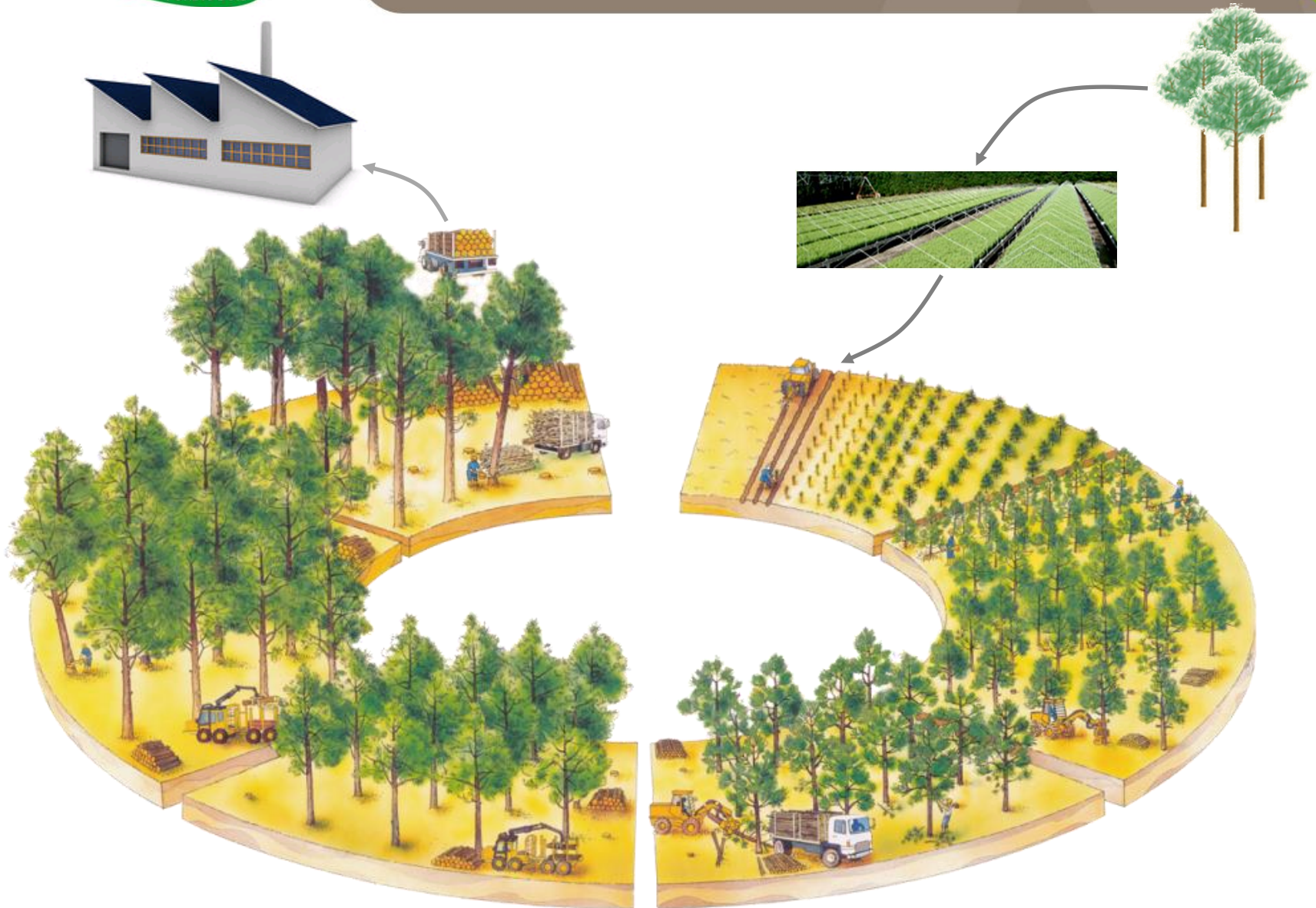


**Reforestation  
mechanical  
productivity  
(h/ha)**





# Maritime pine life cycle



# 1<sup>st</sup> step : Soil preparation

**Four distinct operations for less than 500 €**

## 1- Shrub cutting



## 2- Phosphorus fertilization



## 3- Ploughing



## 4 - Pulverizing and compacting



## Innovations to combine operations

**Fertilization  
+ ploughing**



**Fertilization  
+ ploughing  
+ 4- Pulverizing and  
compacting**



## Very improved seedlings logistic and plantation

**Well calibrate  
seedlings  
(VF3)**



**Autonomous  
operators**

**Manual  
plantation**



## Distinct maintaining operations during the cycle

**Maintaining young plantations**



**Clearance of seedlings**



**Shrub cutting**





## 1 to 4 thinnings during the cycle

**Harvesting**



**Forwarding**



**Optional : crown  
crushing**



## Clear-cut at 20 to 40 years old

**Harvesting**



**Forwarding**



**Logistic**





**<10% of clear-cuts**

**Stumps removal**



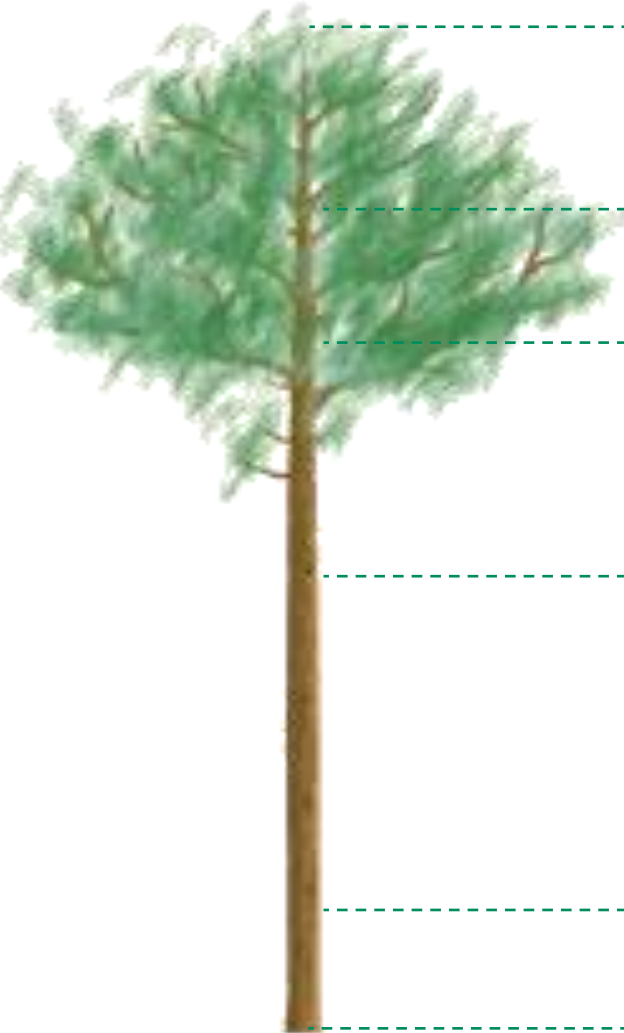
**Forwarding**



**Crushing**



# Different quality in a tree



*Optional : crown for chips*

Pulp quality: **17 %**

Case + pallet quality: **25 %**

Sawing quality : **40 %**

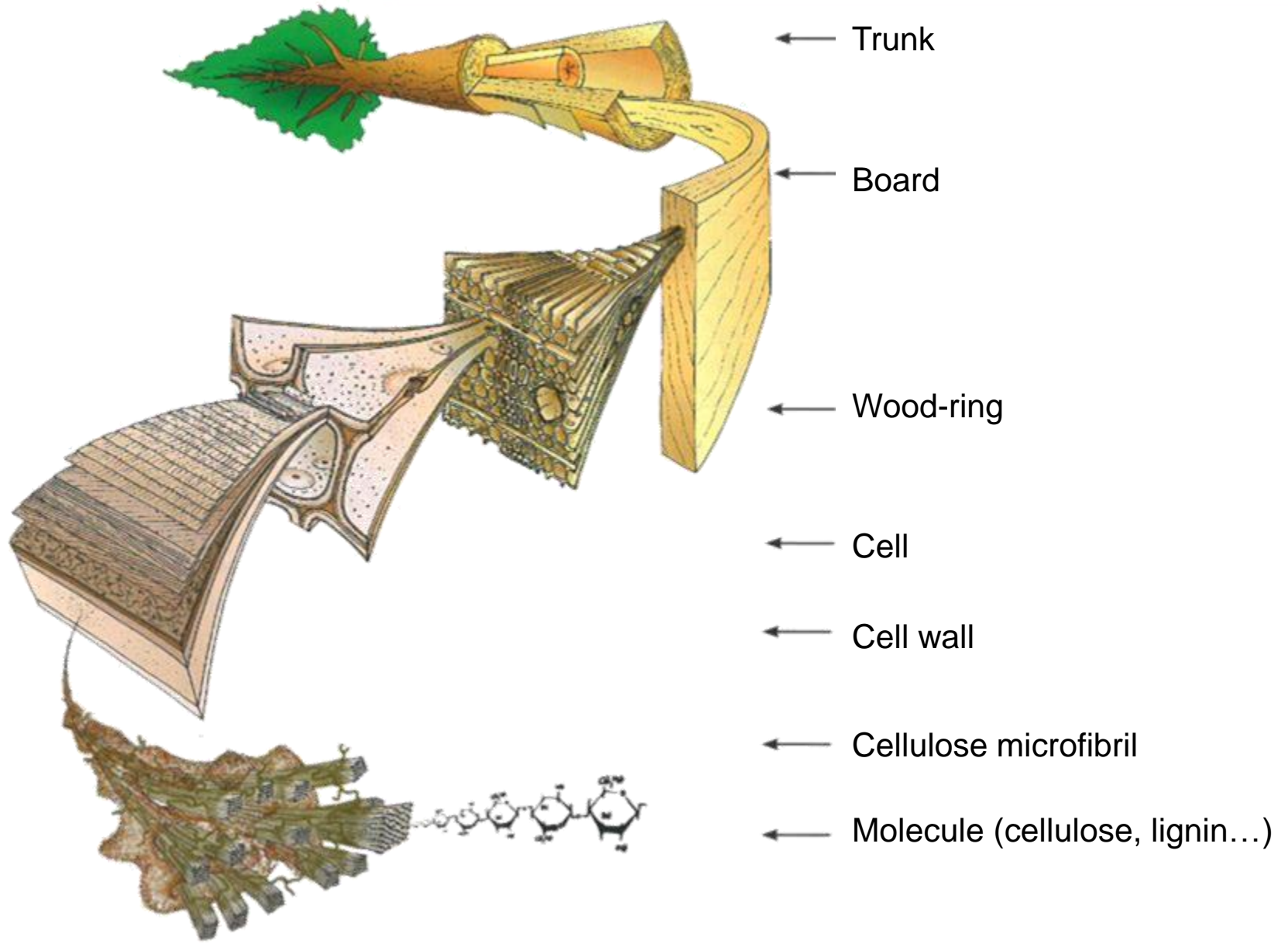
High quality : **18 %**

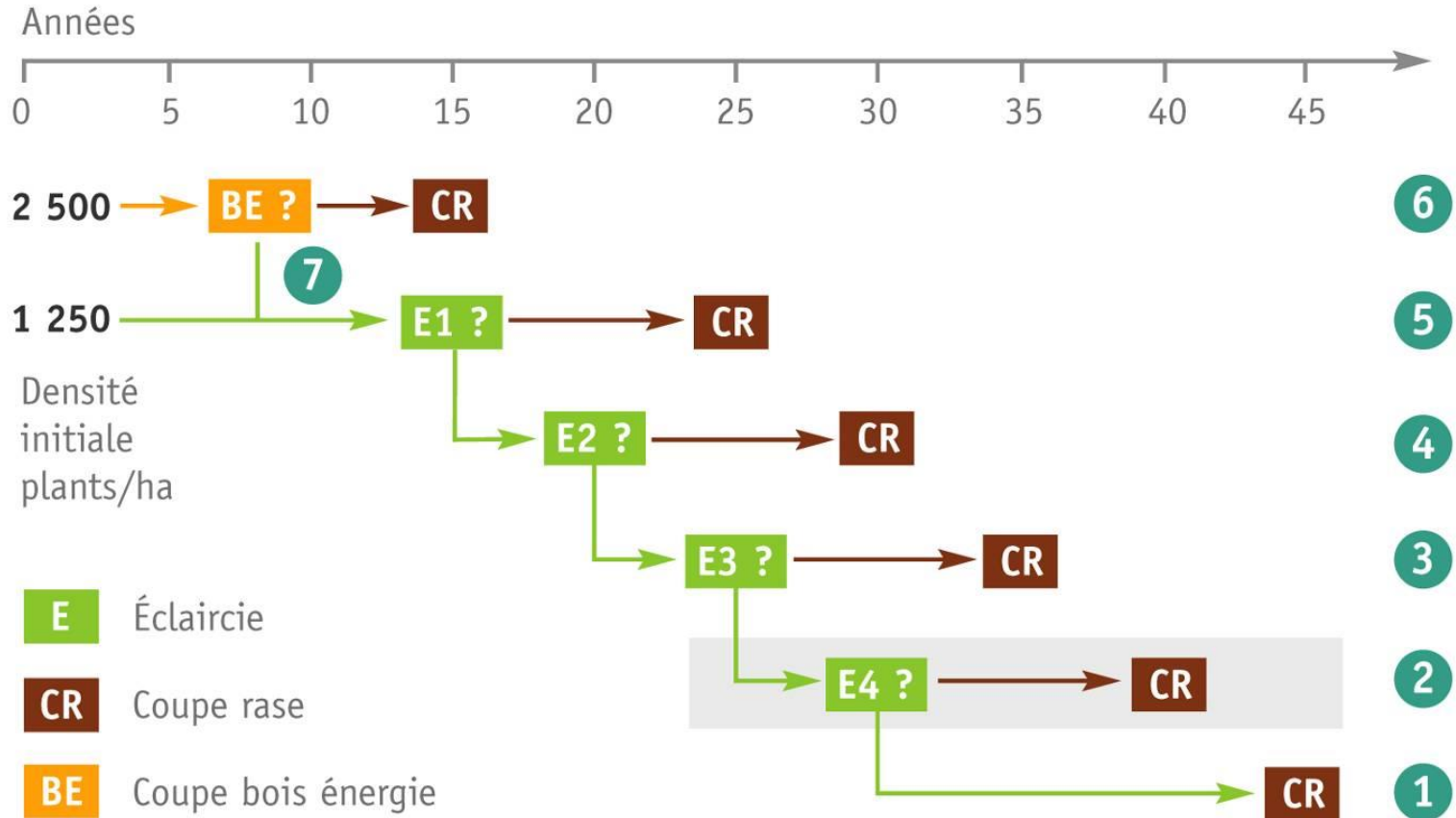
Timbers

*Optional : stumps for chips*



# Different uses of maritime pine







**THANKS FOR YOUR ATTENTION**

