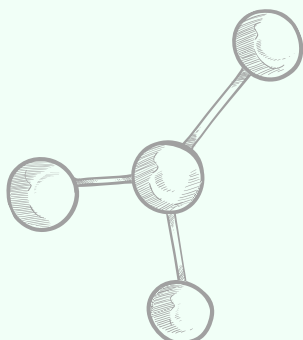
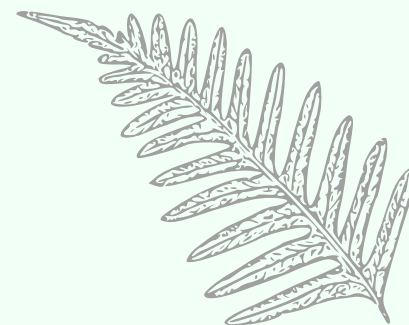
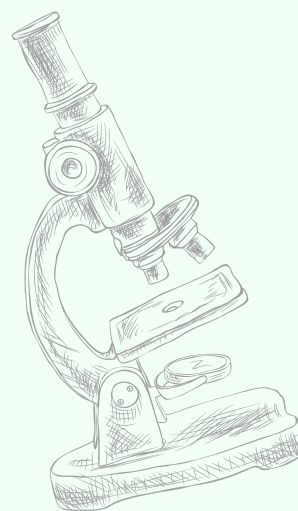


DECODING

Biomass & Bio-based Products





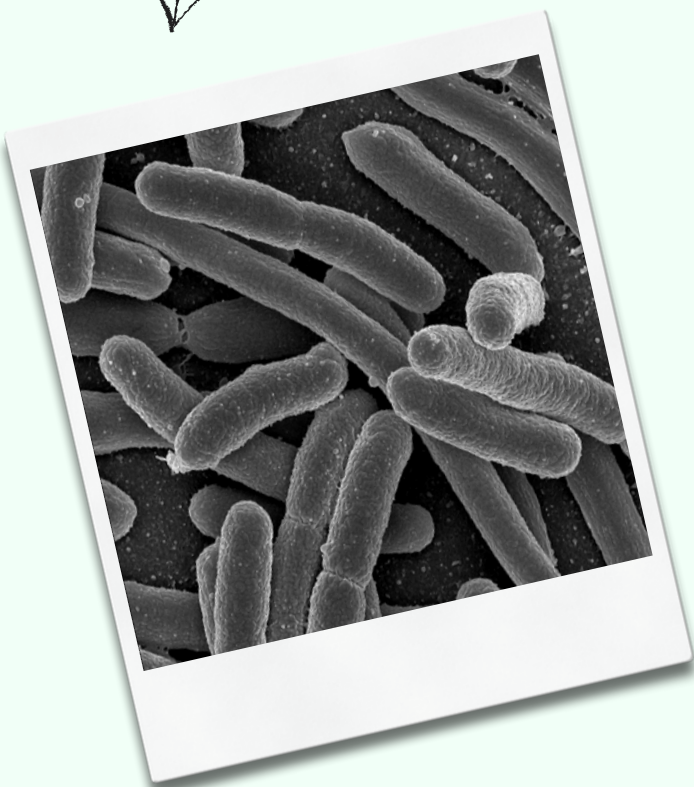
Sugar and starch-rich plants: beetroot, maize, sugar cane, wheat, etc.



Organic waste: food scraps, dead leaves, manure, etc.

BIOMASS

Renewable organic matter
= originating from living organisms



Microbial: bacteria, yeasts, fungi, microalgae



Lignocellulosic: wood, straw, flax, hemp, etc.

Biomass: a **source of molecules** for materials, chemistry and energy

**Starch,
Cellulose**



Glucose, ethanol,
lactic acid...

Lipids

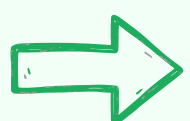


Glycerol,
biodiesel...

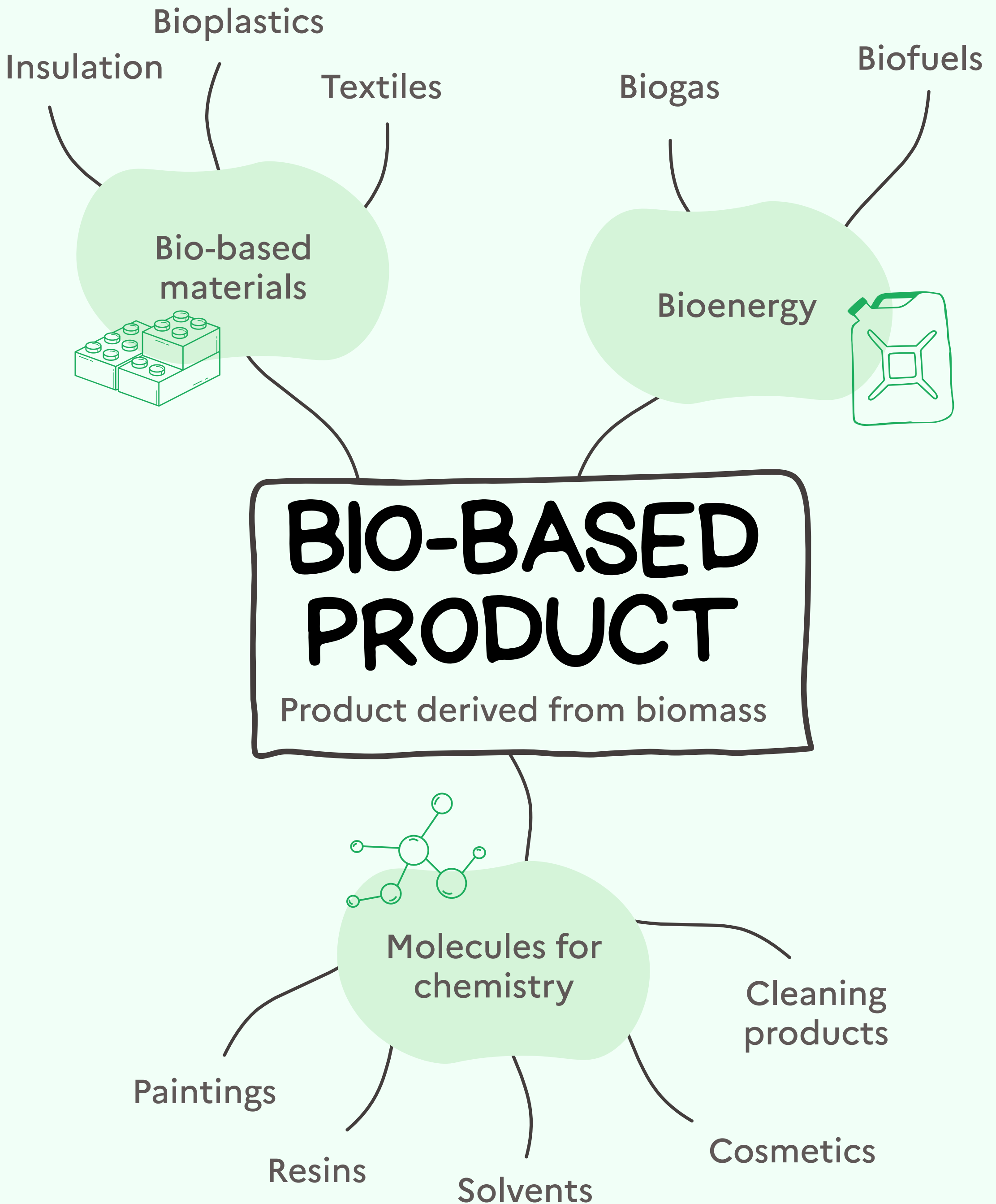
Lignin



Aromatic
compounds,
resins...



The role of scientists: understanding the complexity of living organisms and developing effective processes for **accessing and transforming molecules**



The benefits of the bioeconomy

✓ **Industrial sovereignty:** less dependence on fossil resources

✓ **Reduction in CO₂ emissions**

Carbon of biogenic origin

Recently captured by plants, which offsets the carbon emitted

Fossil carbon

Release of carbon stored for millions of years

✓ **Creation of new sectors**

