



BIOMANITY

Biotechnology for a better world



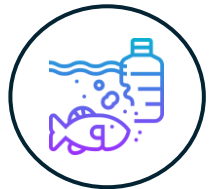
Super Absorbant Polymer



Biosourced



Biodegradable



No microplastics



Circular



Absorbs up to 500 times its own weight in water



Replaces petrochemical SAP in more than 1000 use cases (cosmetics, hygiene, environment...)



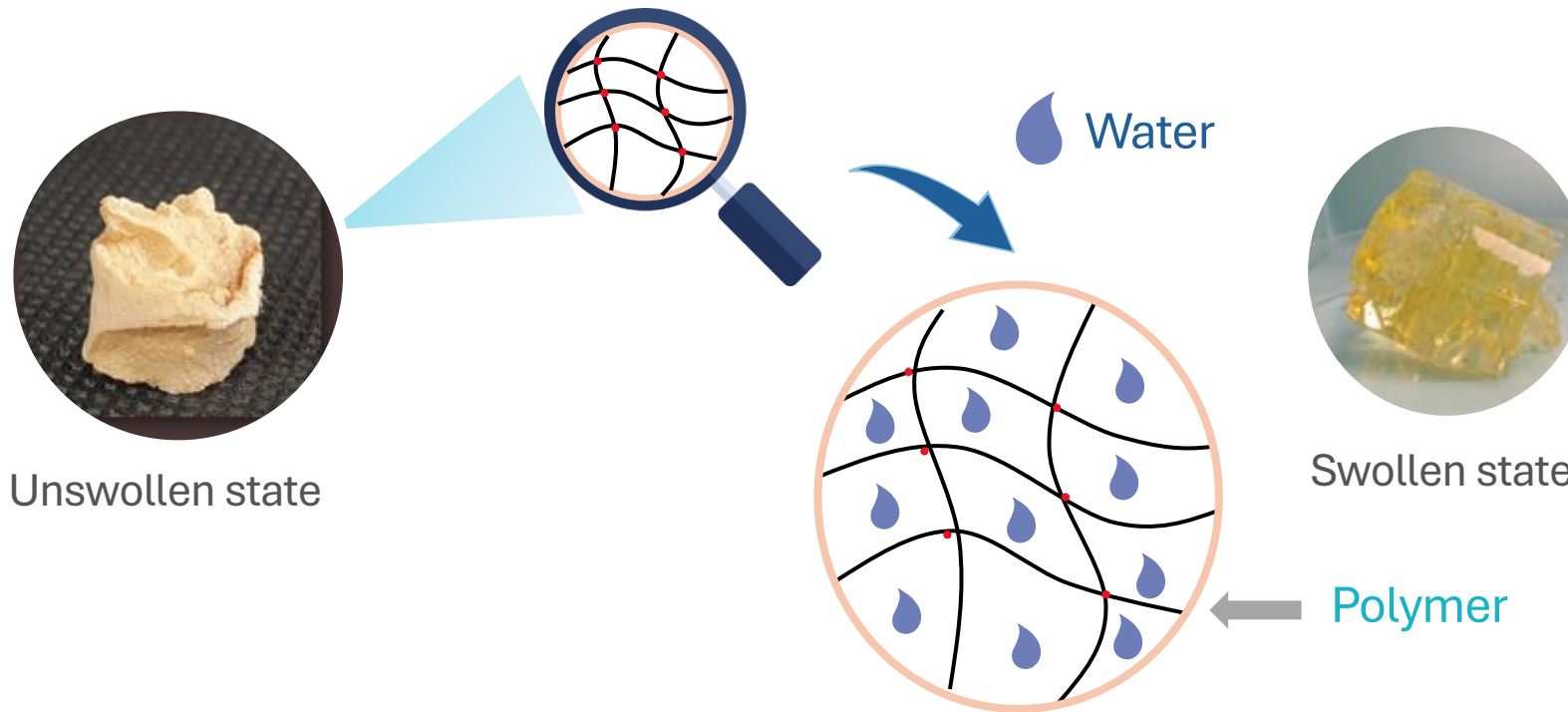
Reduces water consumption by 50% in agriculture



Doubles crop yields without fertilizers or inputs

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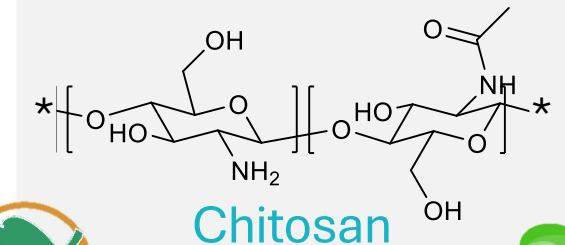
How absorption works ?



- Absorb up to 500 times its own weight in water

- Even underload, the SAP manages to absorb water.

Main constituent



Biosourced



Biocompatible

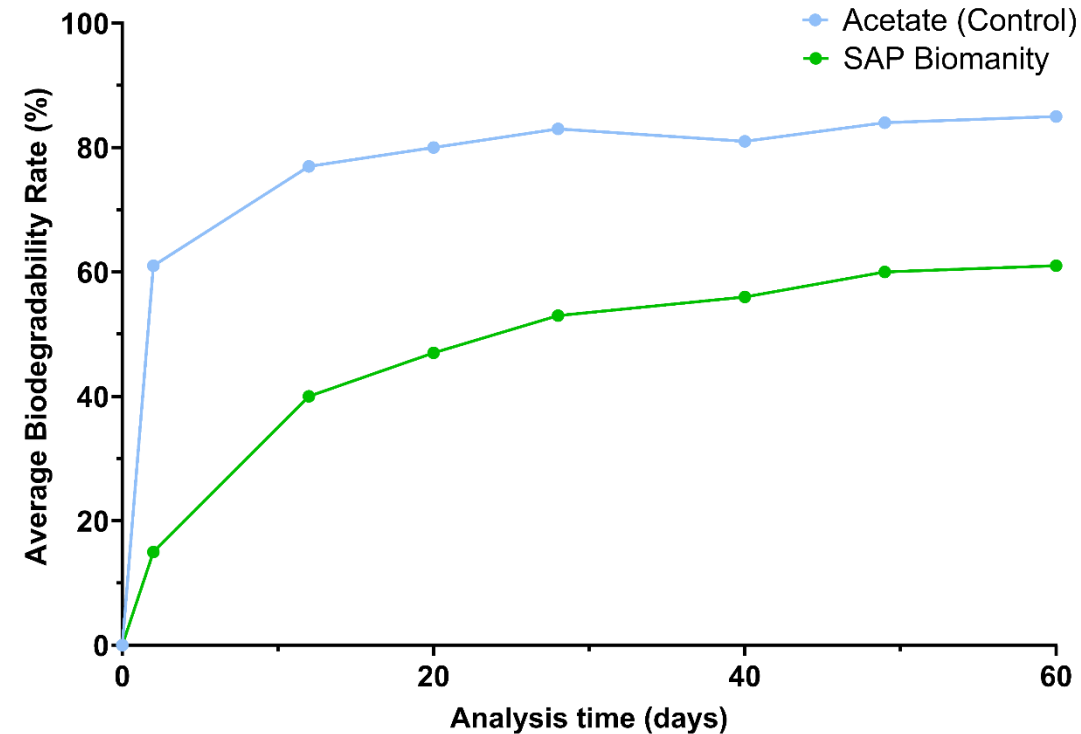


Biodegradable

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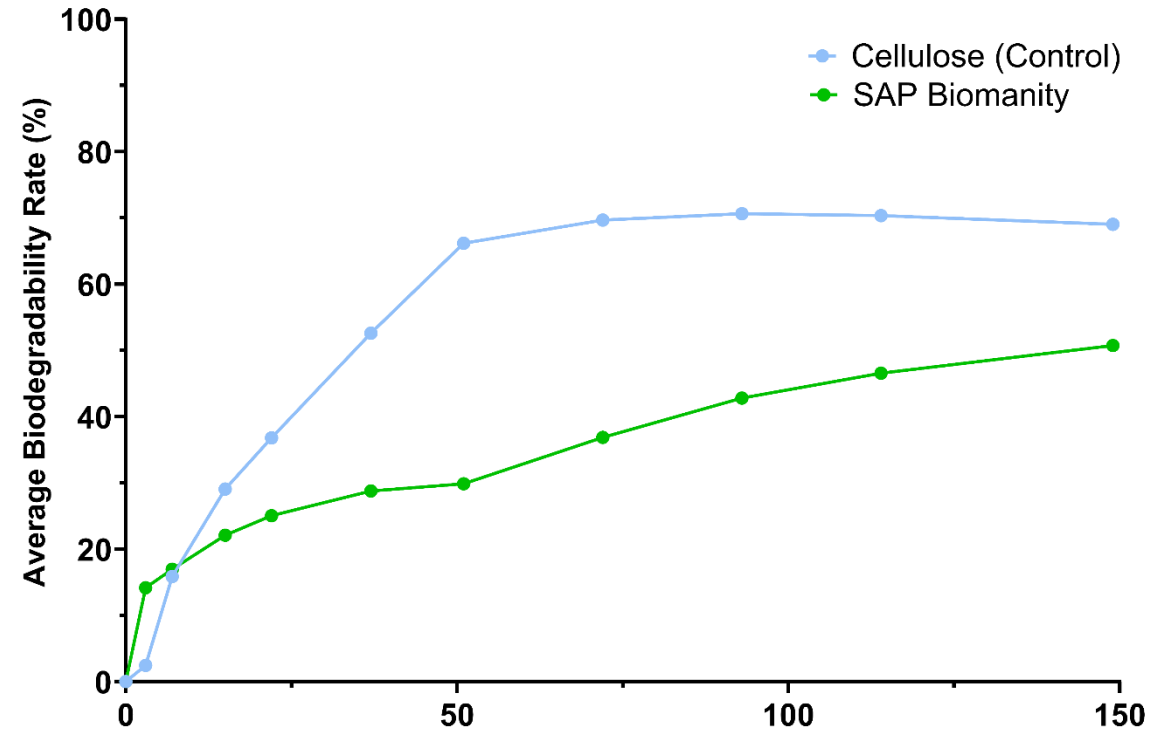
Biodegradability

OECD 301F Standard



- 61% of biodegradability at 60 days in **soil solution**
- Biomanity SAP is « **Readily biodegradable** »

ISO 17556 Standard



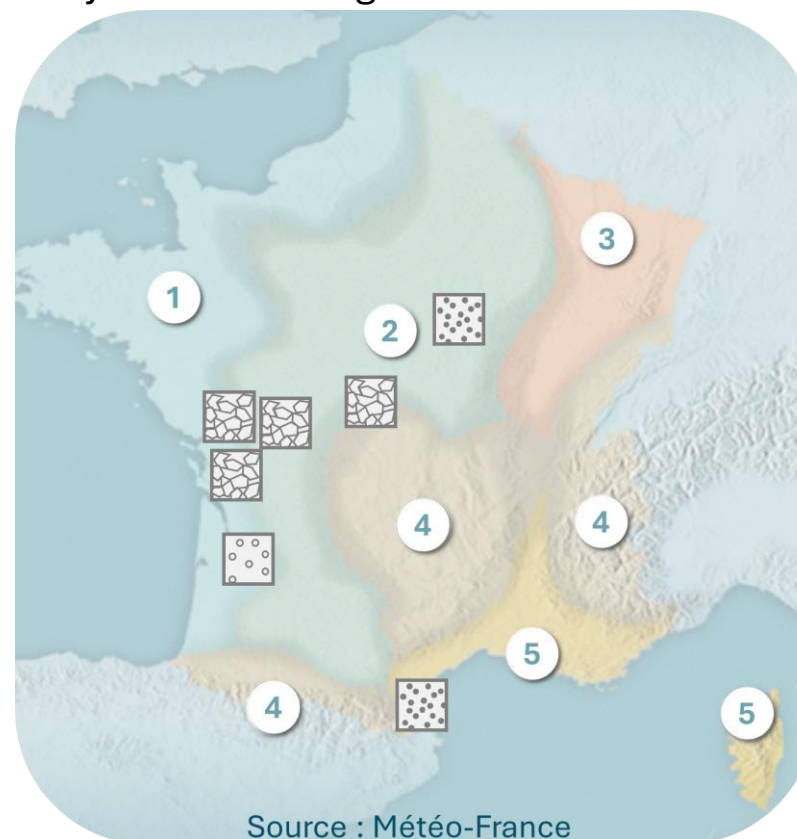
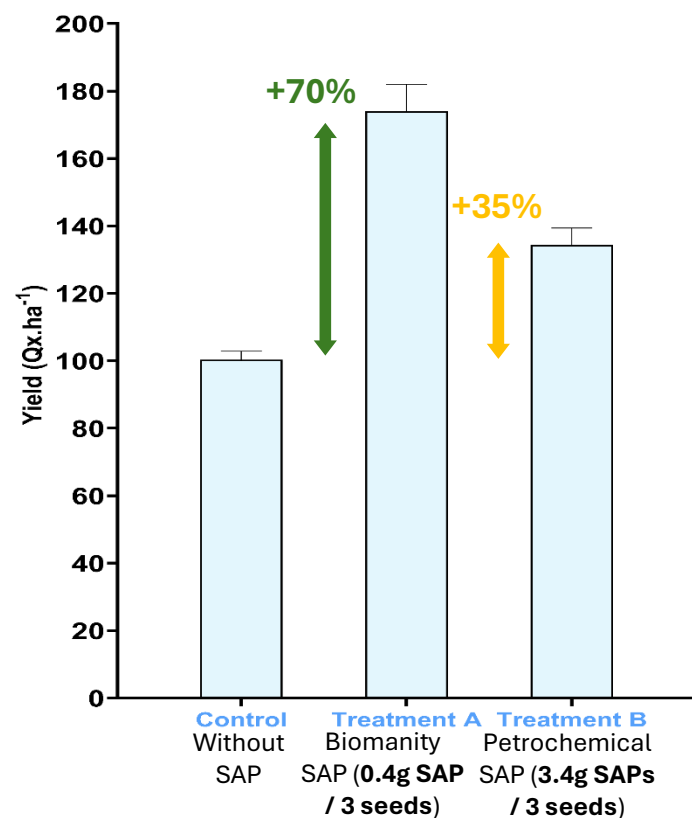
- 51% biodegradability at 150 days in **soil**
- Must reach 90% of cellulose biodegradation in 48 months to be considered biodegradable

A bundle of fertilizing, biostimulation and water retention functions




2025 Program

- Confirm 2024 results in varied soils & climatic conditions
- Analyze contributing effects

Yield performance on corn *



- 1 Oceanic climate
- 2 More/less altered oceanic climate
- 3 Semi-continental climate
- 4 Mountain climate
- 5 Mediterranean climate

-  Clay-limestone soil
-  Sandy soil
-  Silty soil

Source : Météo-France

* Field trial conducted on May 17, 2024, in Saône-et-Loire, in a non-irrigated field.



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