

*From the lab to the building site :  
how biocementation connects science and environmental responsibility*



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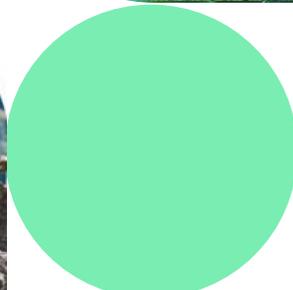
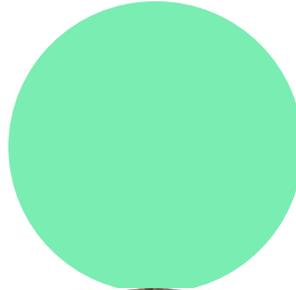
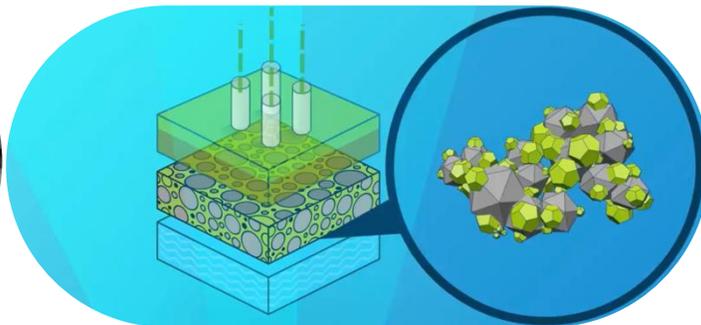
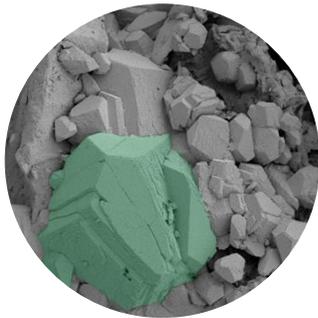
SUSTAINABILITY IN  
CONSTRUCTION AND  
URBAN FUTURES

SUSTAINABILITY COLLIDER

- 06 March 2026
- Forum Rolex
- 15h00 to 18h00



 **medusoil**  
BIOMINERALS™



# 1) The starting point

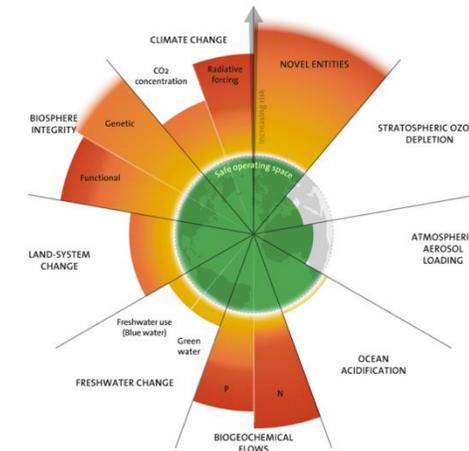


We all know that human pressure on Earth resilience keeps increasing and that it's time to act...

→ Construction sector ~40% of global CO<sub>2</sub> emissions

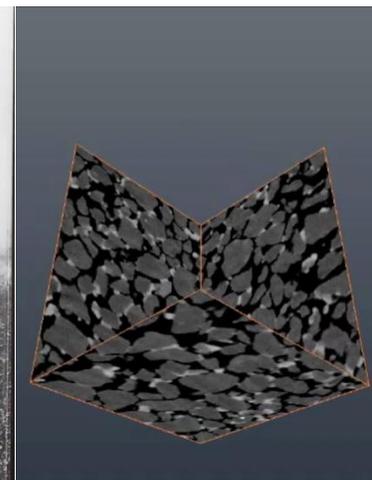
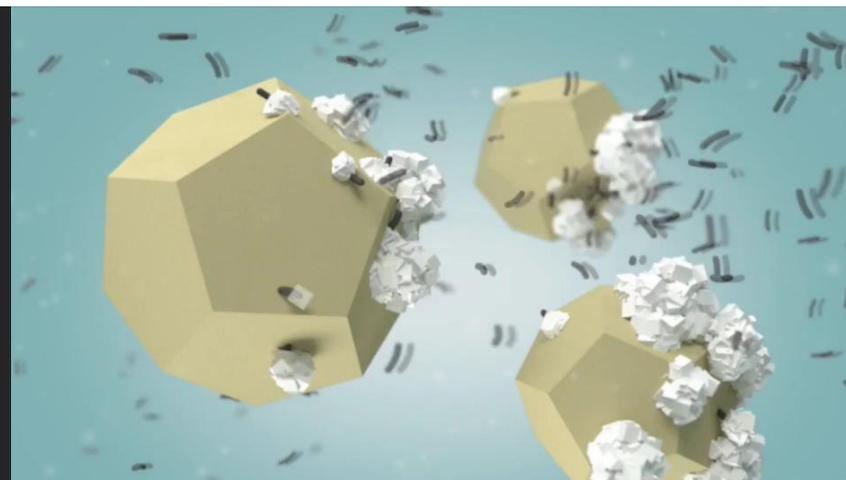
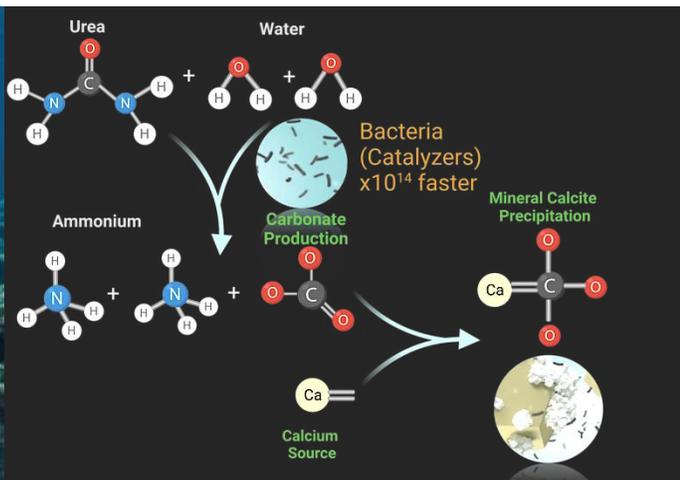
→ Though, cement / concrete will absolutely remain a need.

**However, alternatives exists, and should be applied where it makes senses. And it often does.**



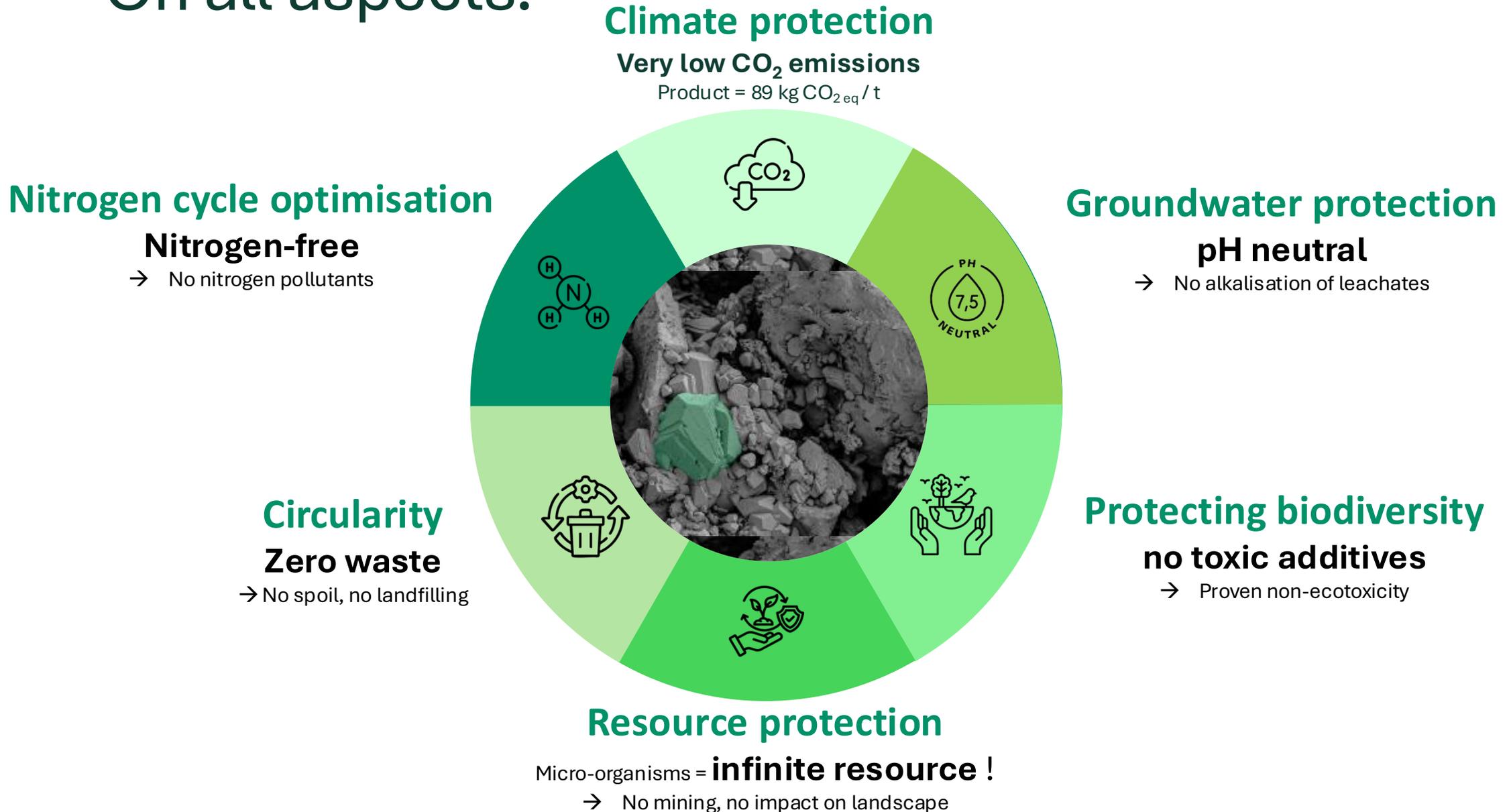
The 2025 update to the Planetary boundaries. Licensed under CC BY-NC-ND 3.0. Credit: "Azote for Stockholm Resilience Centre, based on analysis in Sakschewski and Caesar et al. 2025".

## Nature is our lab



→ Medusoil biocementation binders : Why, how and when / where ?

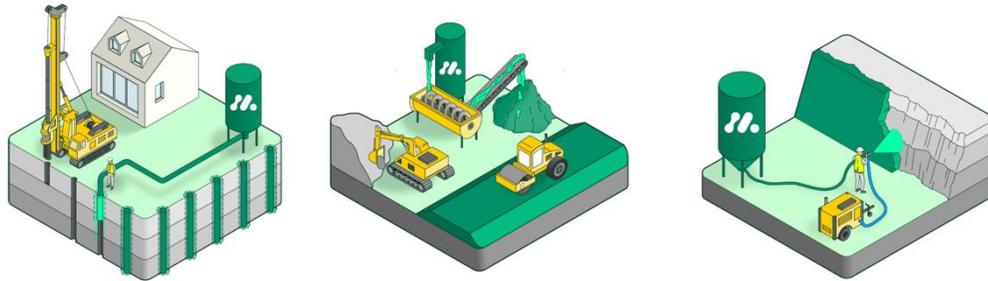
# 2) Why? The game changer : Sustainability. On all aspects.



# 3) **How?** Transition from lab to field : transforming research into operational solutions

- **Optimize formulations → Easy to implement**

- Develop solutions tailored to the constraints of civil engineering
- Versatile execution protocols, compatible with existing equipment



- **Scale up**



# 4) When / where ?

## No longer a proof of concept. But **applied engineering**.

We perform where other binders don't, or can't (environmental concerns or regulations)

### Differential settlement mitigation



### Riverbank erosion defense



### Slope stabilization



### Swelling clay remediation



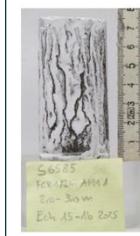
### Peat soil stabilization



Après confection



Après essai triaxial



Après bio-cimentation



Après essai triaxial

### Low carbon materials production



→ The transition is ongoing. Are you in ?



# Thank you



## Reach out for more !

