

BIOLOGICALLY-ENHANCED CARBON STORAGE



BIOCARST

BIOLOGICAL CARBON STORAGE



Problem

EU wants to be carbon neutral by 2050.

EU ETS - world's largest mandatory carbon market, regulates 11.000 companies who are legally mandated to offset their CO₂ emissions.

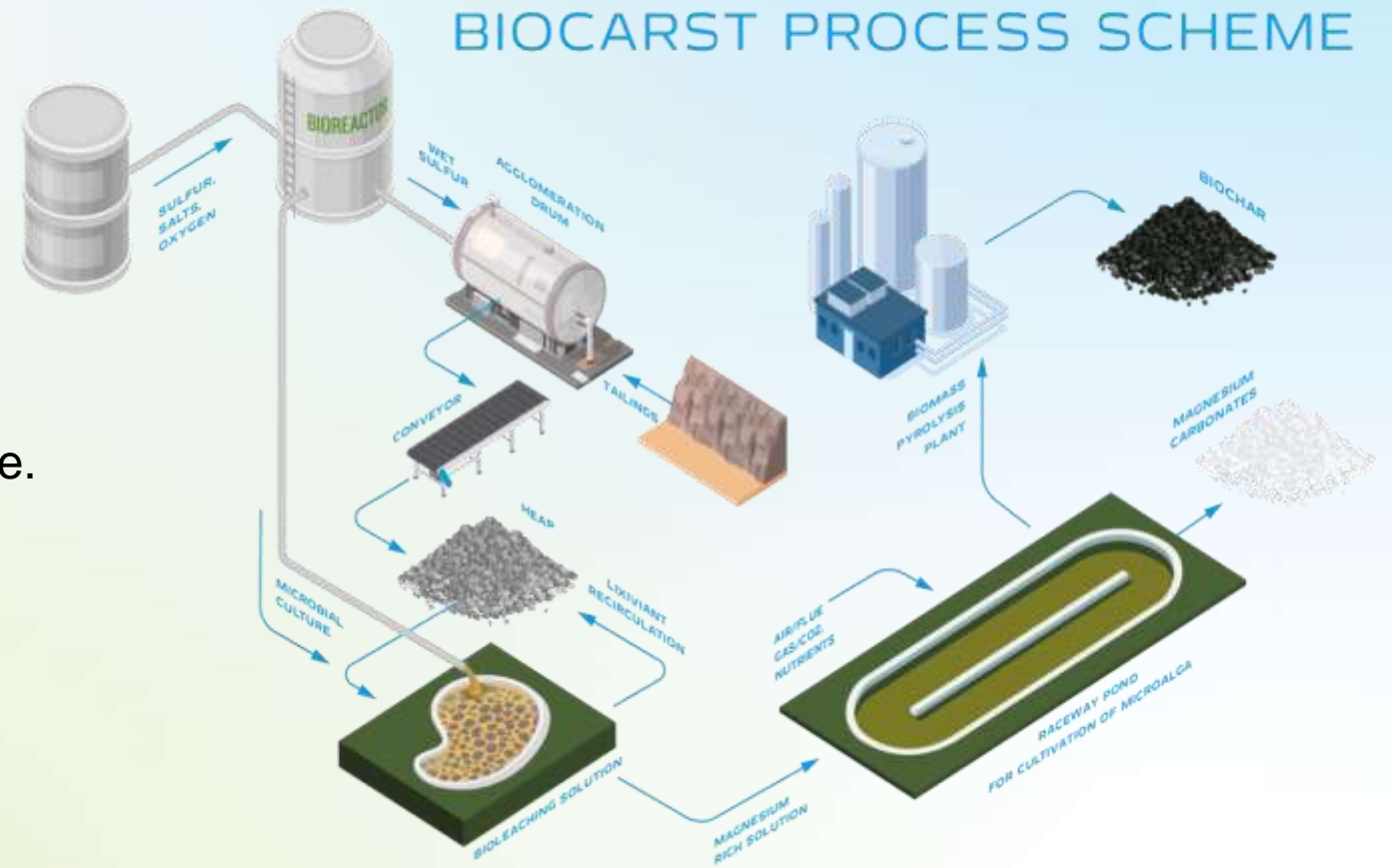
The EU-CBAM rule will extend legal requirements/burden regarding CO₂ emissions to non-EU companies that export goods to EU from aluminum, cement, iron/steel, fertilizers, hydrogen and electricity sectors.

Companies which are not able to reduce their CO₂ emission to legally acceptable level, are forced to buy carbon credits/offsets on the market.



BIOCARST solution

Biotechnology that accelerates dissolution of magnesium-rich mine tailings and permanent storage of CO₂ in form of magnesium carbonate minerals by application of bacteria and microalgae.



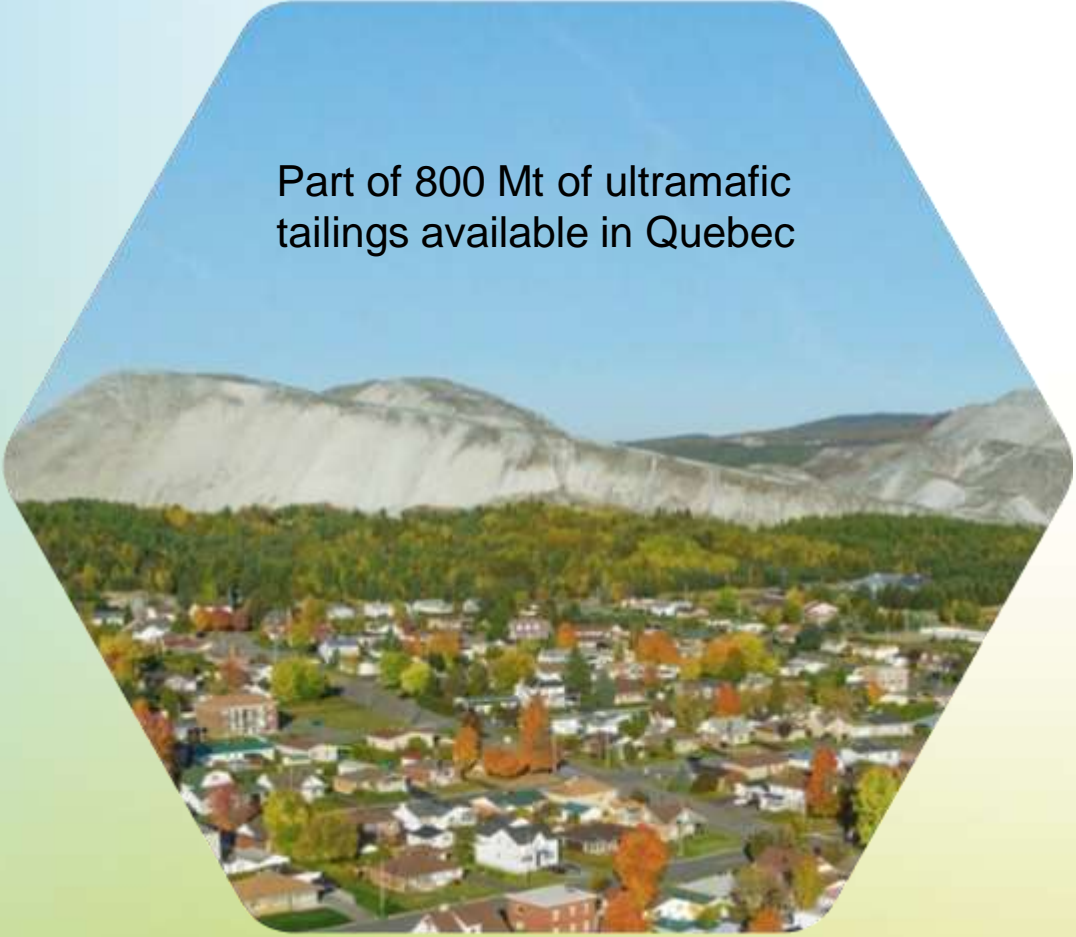
Advantages of BIOCARST

Permanent CO₂ storage.

Turning waste into value and reducing environmental impact of the mine tailings.

Accurate and reliable measurement of the stored carbon dioxide.

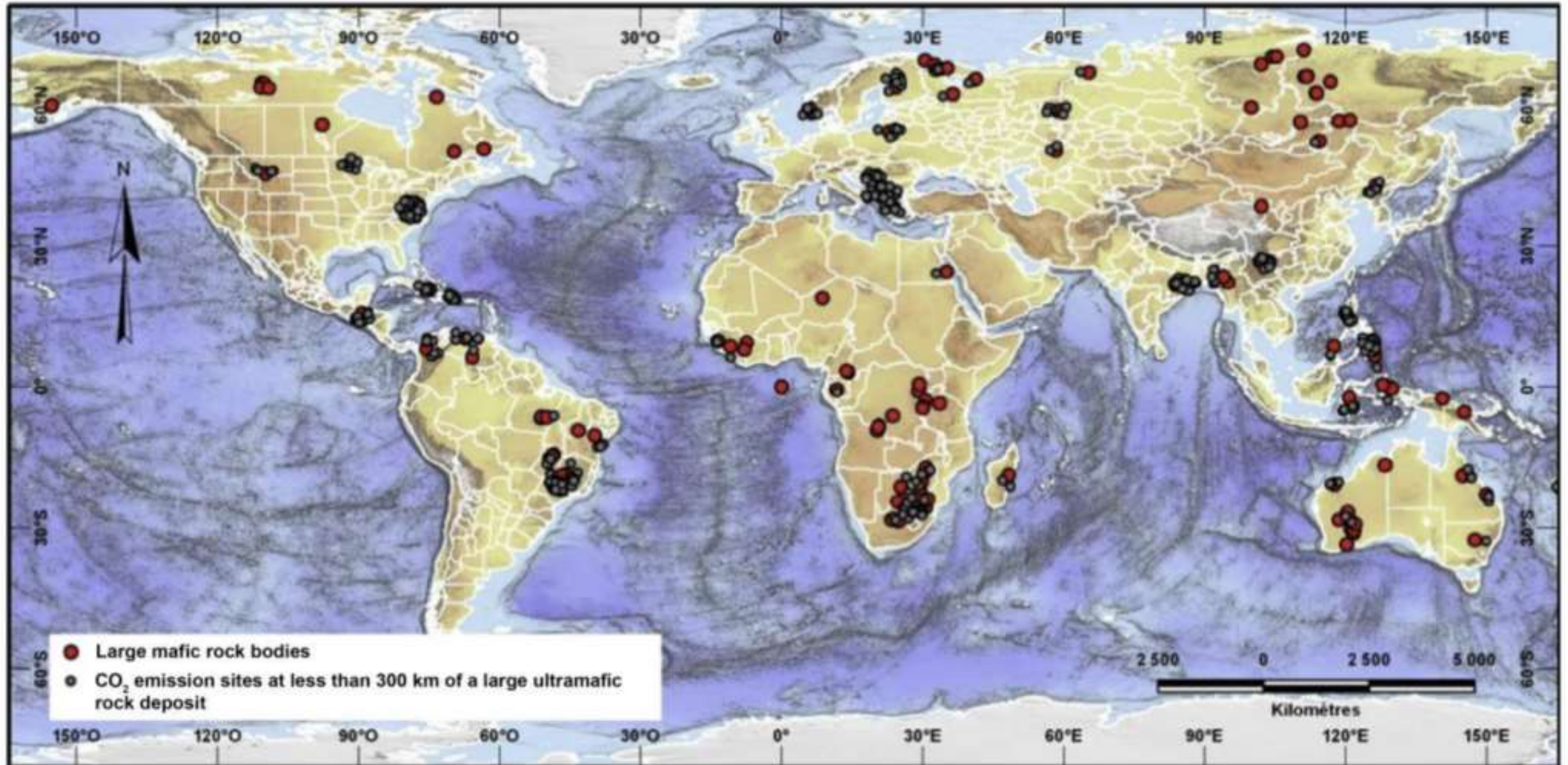
Lowest cost per ton of CO₂ captured in industry – below 100 USD



Part of 800 Mt of ultramafic tailings available in Quebec

Global potential for application

Numerous tailings sites worldwide suitable for application of BIOCARST process



Markets:

- **Mandatory carbon markets** - EU ETS, USA, Canada, Australia
- **Voluntary carbon market** – companies willing to buy carbon offsets and pay high price for CO₂ storage in order to support emerging technologies (for example Frontier, carbon trading platform funded by world's most valuable companies)

B2b business model:

- Sales of carbon credits in mandatory/voluntary markets (indirect sales via specialized platforms)
- Selling carbon offsets directly to partners (carbon intensive industries).

Selling carbon offsets in advance during first two years, up to 5000 t per year to 2-3 early adopters (for example Frontier).

Store up to 10.000 t of CO₂ on a small scale demonstration plant from 2026 and sell carbon credits on a voluntary carbon market.

Store minimum 100.000 t of CO₂ annually from 2028. Sell credits on a EU ETS market, or directly to partner companies.

Revenue forecast

After validating technology on a demo-scale we will sell carbon storage at a price for a premium product. The price of 300 EUR/t corresponds to pricing of similar technologies at voluntary carbon market. From 2028 large scale sales – pricing corresponds to estimated price on EU ETS market.

Year	Sold (t)	Price per t (EUR)	Revenue (EUR)
2024	2.000	300	600.000
2025	5.000	300	1.500.000
2026	10.000	300	3.000.000
2027	10.000	300	3.000.000
2028	100.000	125	12.500.000

It is difficult to identify any other industries with such a great potential, and constrained and challenged supply

Key milestones

Proof of concept.

Viable pilot development and IP registration. First sales and private investment.

Demo scale plant. First recurring revenues and series A investment.

Large scale plant. Series B investment, recurring revenues.

We are here...

... and our next goal is to be here in 2025...

... and here in 2026...

...from 2028 minimum 100.000 t CO₂ captured and stored per year.

Founders and supporters



Dipl. Ing. Srdjan Vlajković, Chief Executive Officer, co-founder

Mining engineer with many years of international experience and serial entrepreneur. Before BioCarst Srdjan founded RigCode, a successful start-up company that developed software for optimization of drilling in oil and gas industry.



Dr. Srdjan Stanković, Chief Scientific Officer, co-founder

Scientist - internationally recognized expert in geomicrobiology and biohydrometallurgy with background in microbiology and geoscience. Before founding BioCarst Srdjan worked at **Federal Institute for Geosciences and Natural Resources (BGR) in Hannover, Germany**. Now, Srdjan is a senior research scientist at **University of Belgrade, Faculty of Biology**



**University of Belgrade,
Faculty of Mining and Geology**
Scientific partner



**University of Belgrade,
Faculty of Biology**
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