2024 **Innovation China Conference** 创新中国论坛 Shanghai, China | 29 April 2024





innovationchinaconference.com cmventure.net

CM Venture Capital

AI + materials 材料 | AI + industrial 工业 | AI + energy 新能源

apidly innovating new materials for stainability by powering Al with HTE

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Since the second second

We are on a mission to rapidly innovate new materials for sustainability by powering AI with tailored high throughput experimentation.

Current materials R&D process: Slow, expensive, limited.





"GREEN" CHEMICALS

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Xinterra Design Factory[™] (XDF)

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Deep Materials Science Expertise

- Carbon Removal Textiles
- Polymers & composites
- Photovoltaics
- Inorganic crystals & semiconductors
- Thermoelectrics
- Batteries
- Porous materials
- Catalysts
- Nanoparticles

AI Systems

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10x

Faster

- Data augmentation, prediction, optimization, and inverse design
- Tailored to sparse materials science data

High Throughput Experimentation Tools

 Proxy measurements, miniaturization, parallelization



In Progress Expansion

Materials IP Creation

• Starting with Carbon Capture materials



Materials IP Creation

- **"100 in 10" Vision:** 100 materials/ formulations in 10 years
- Multiple materials verticals
- Consolidation as the "ARM" of materials for sustainability

*https://www.arm.com/



Monetization mechanisms:

- Licensing
- JVs/Spin-offs
- Materials Sales, if needed to catalyze

First Xinterra's Proprietary Formulation IP

Empowering each individual on our planet in becoming CO₂ Capture agents



COzTERRA in action





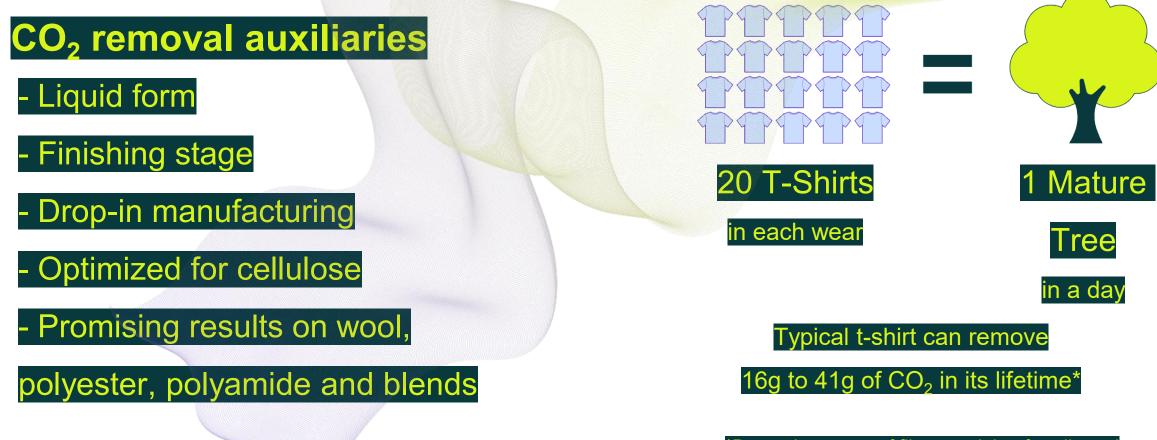
COzTERRA working with nature





COzTERRA Formulation





*Depends on type of fibers, weight of textile and
the total number of wears of the t-shirt

How does COzTERRA work?

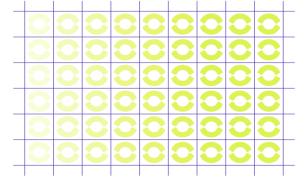
When exposed to CO₂ in

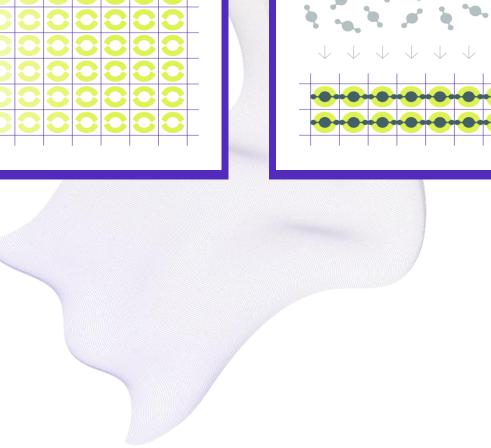
holds the CO₂

air the textile captures and



Functionalising textiles with our CO₂ removal auxiliaries (Patent pending)





CO₂ is sequestered, forming a harmless mineral that is washed away RECHARGED

Regular detergents ensure

The harmless mineral formed is

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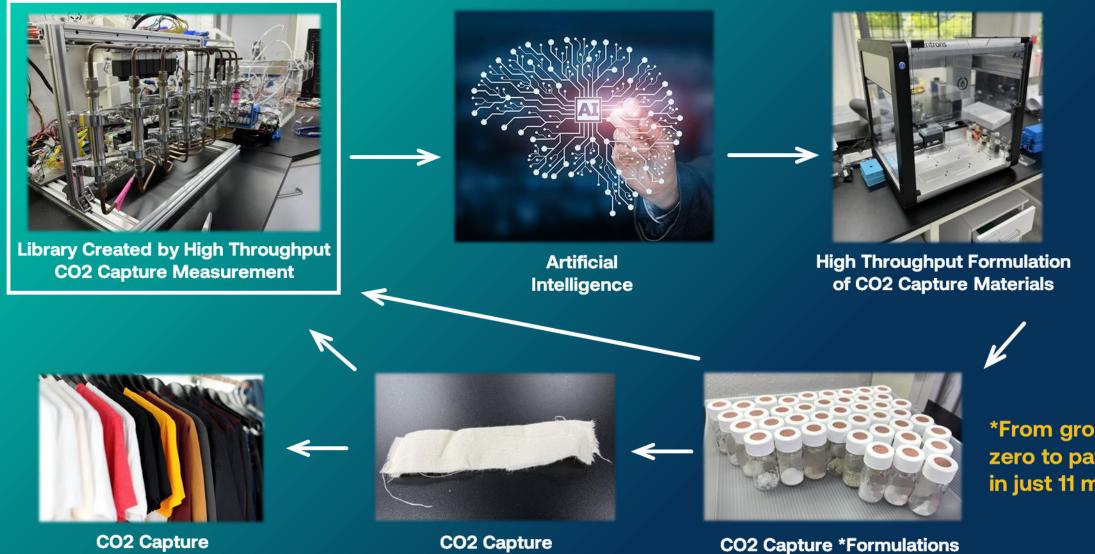


Stable Doesn't degrade at temperatures textiles are exposed to

Common Commonly used in daily life

Environmentally safe Already exists in abundance

XDF in Action to Create COzTERRA



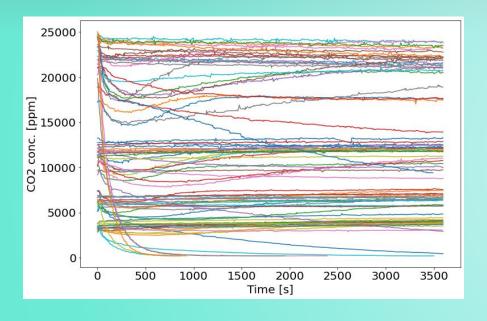
Clothes/Textiles

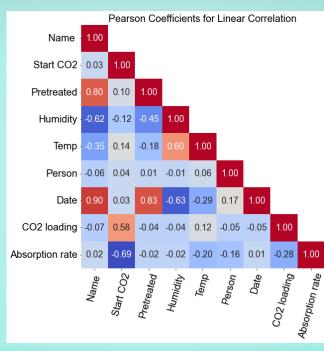
Fabrics

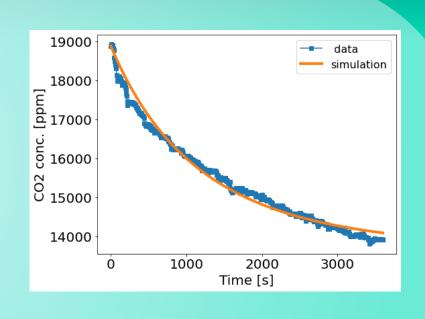
Recommended by Al

*From ground zero to patent in just 11 months!

A leap forward in Carbon Capture innovation







Our data

- High fidelity kinetic plots
- Multi-modal response
- Materials dependent performance

Data driven insights

- Derive correlations
- Drive DoE & materials design

Empirical modelling

- Our models capture the experimental characteristics
- Ability to simulate performance to find the best materials

RESULTS:

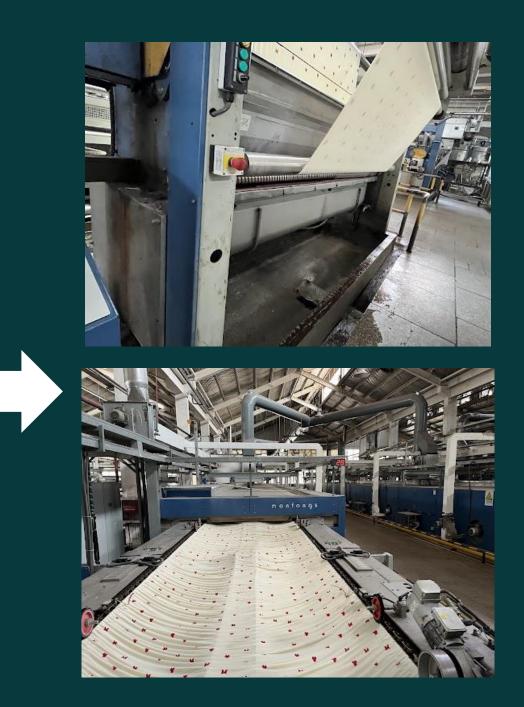
Carbon capture materials database - real world, reproducible data. Not theoretical performance

Scaling up

From our lab to the textile mills

TRL 1 to 8 in 14 months





COzTERRA crowned winner of the Vogue x BMW Innovation Prize 2023

NOVATION PRIZE 2023

NEXT

https://vogue.sg/innovation-prize-winner-cozterra

Founding Team



Patrick Teyssonneyre CEO





Jatin Kumar СТО





Zekun Ren Al Lead





Daniil Bash Experimental Chemist







Kedar Hippalgaonkar Prof. NTU MatSci





Liu Zhe Prof. NPU



Operating Team

Sinterro



- **Revolutionizing** the materials value chain
- Generating high quality experimental data, fast and cheap
- To magnify the power of our AI
- Create the "ARM" of materials for sustainability

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