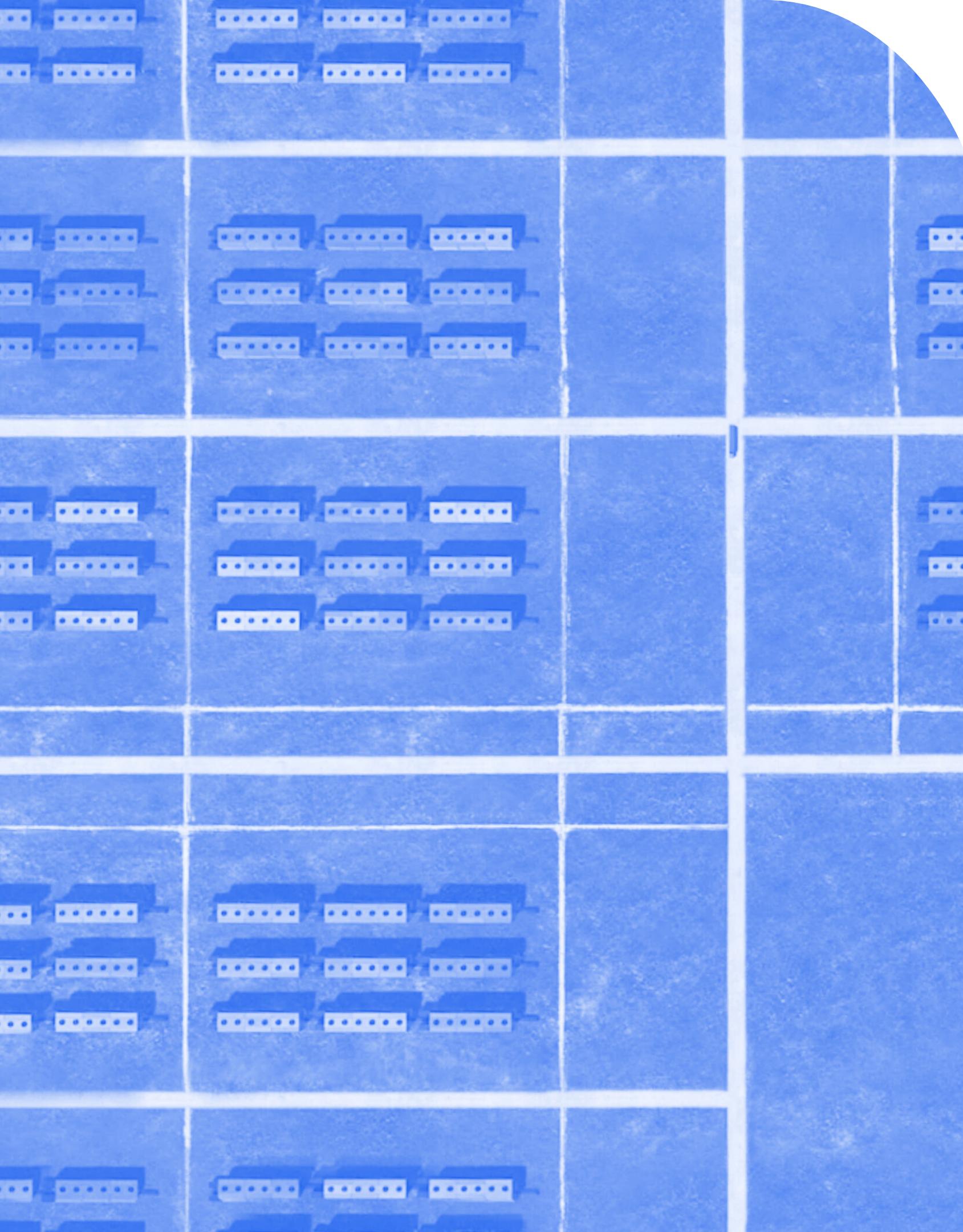




Decarbonizing The Atmosphere

Aathavan Senthilkumar





The Problem



Escalating Levels of Global Carbon Emissions:

- Global carbon dioxide (CO2) emissions reached a **staggering 36.8 billion metric tons**

Limited Integration with Existing and Future Infrastructure:

- Not designed to accommodate carbon capture technologies
- Increase in retrofitting and operation costs

Lack of Efficiency and Use Cases:

- Tech not been matching the pace of emission growth
- Regulatory barriers for **companies seeking carbon credits**

The Solution:

CarbonCapture™

Removing CO₂ from the Atmosphere with a
Modular, Rapidly Growing Platform



PROPRIETARY TECHNOLOGY

Direct Air Capture (DAC)
technology + multiple patents =
custom & ever-evolving
deployable systems

MODULARITY & OPEN SYSTEM ARCHITECTURE

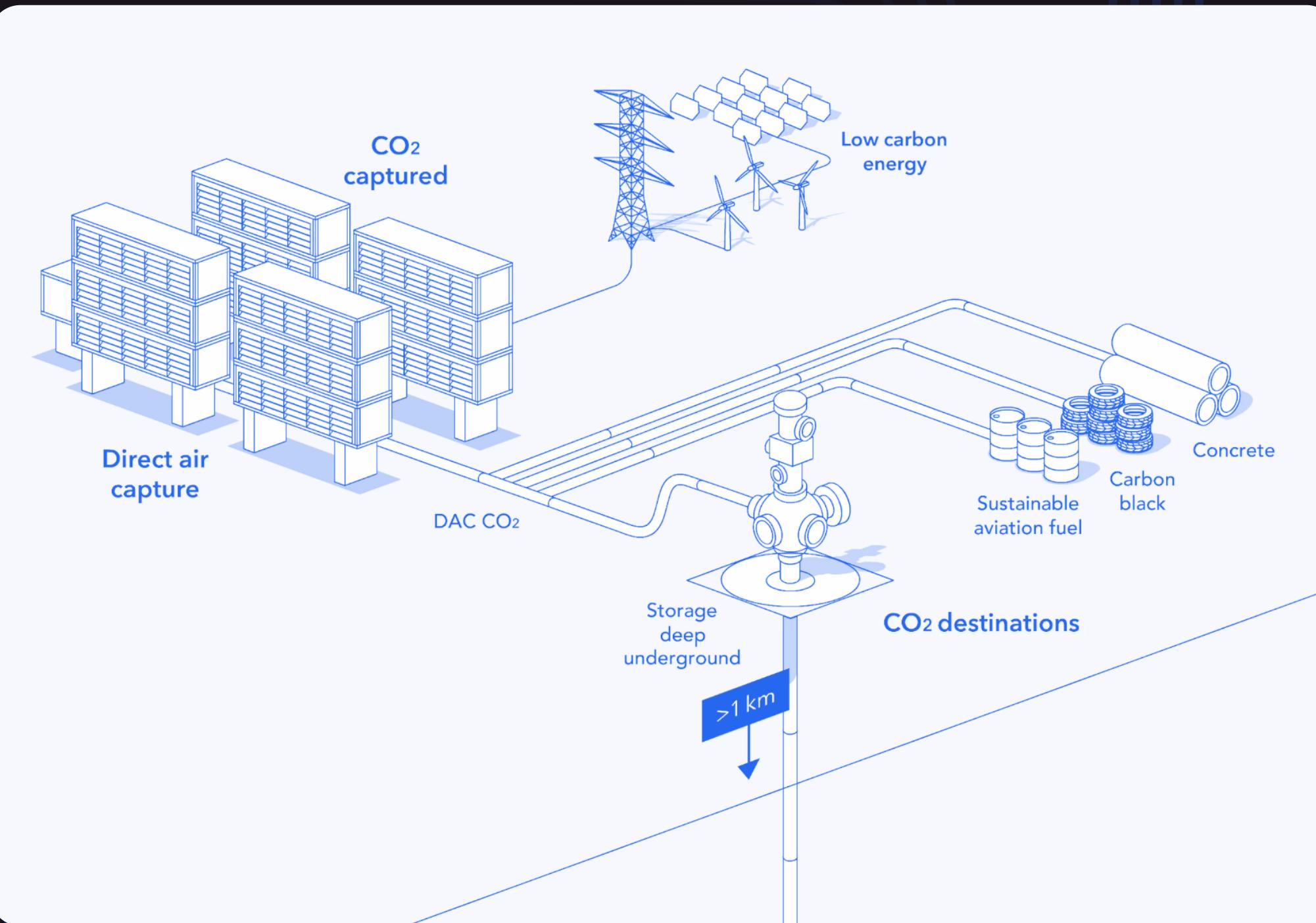
Generalized hardware platform:
accommodate a **wide range of**
solid sorbents (amines, Metal
Organic Frameworks (MOFs)
hybrid solutions, and other
novel materials) + **plug & play**
sorbent cartridges

CARBON CREDITS & PRODUCTS

Valuable end products: carbon
removal credits, clean CO₂ for
aviation fuel, carbon black, low-
carbon concrete and more!

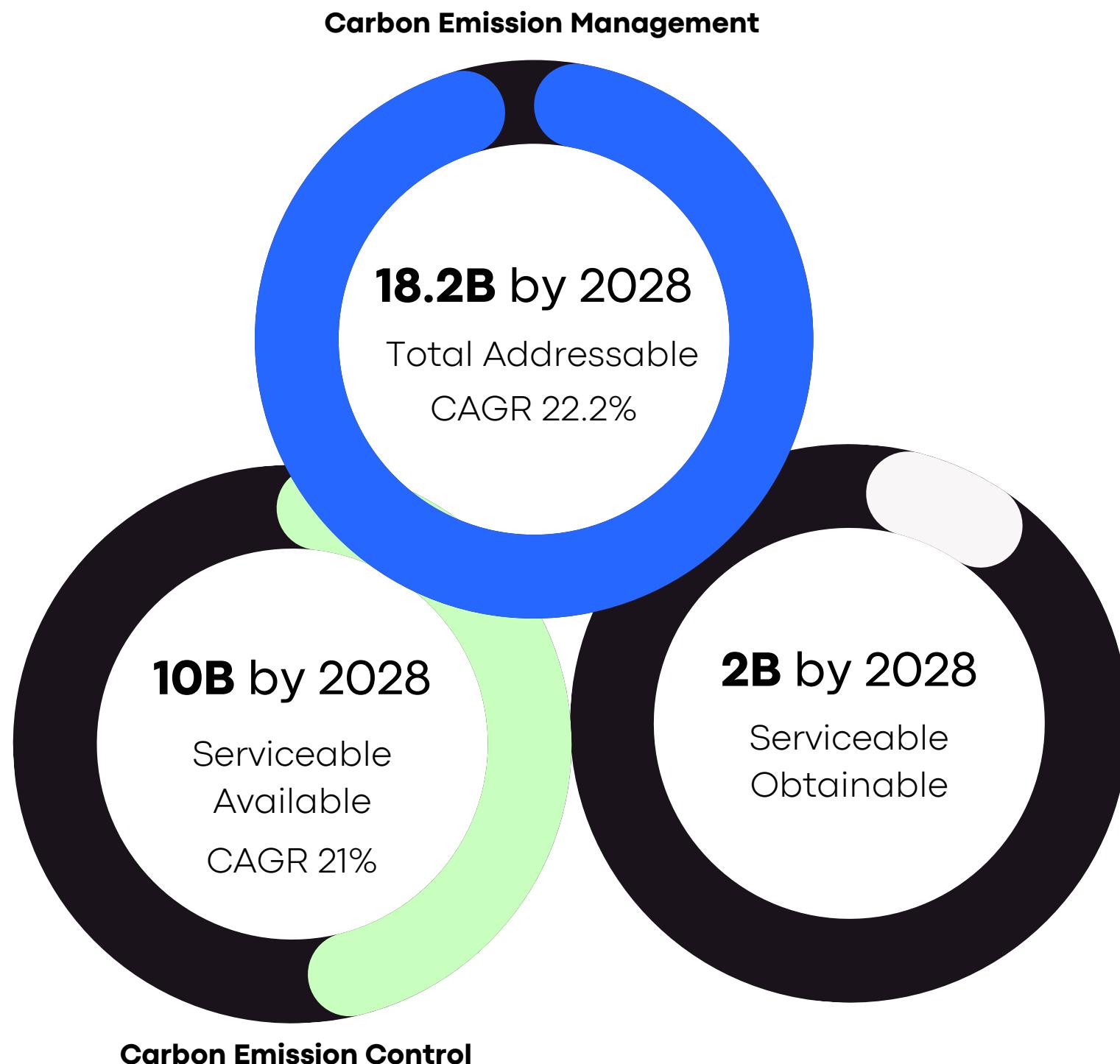
Technology

Mass producible in controlled factory environments and assemble them on site in arrays (megatons and beyond).



Brings down costs by enabling rapid deployment, fast project de-risking, and high-velocity design iteration.

Market & Tailwinds



CORPORATE CARBON CREDITS



Microsoft



shopify

Committed hundreds of millions of dollars to carbon removal, including DAC, seeking carbon credits.

GOVERNMENT FUNDING + POLICIES



The Bipartisan Infrastructure Law: Funding over the next five years specifically for DAC:
\$3.5 billion for four DAC hubs, \$100 million for a commercial DAC prize
\$15 million for a pre-commercial DAC prize

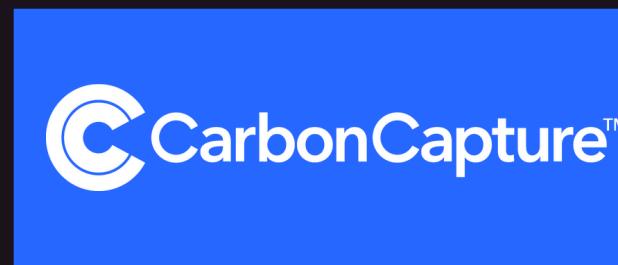
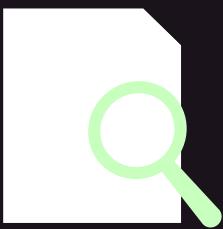
Project Bison



- Project Bison is currently the largest planned carbon removal project in the country - megaton-scale DAC hub in Southwest Wyoming
- **200,000 tonnes of carbon dioxide (CO₂) per year removed**
- Bipartisan Infrastructure Law allows for this project
- **\$12.5 million in funding by the US Department of Energy (DOE)**
- Microsoft has inked a deal with CarbonCapture



Competition



Direct Air Capture
(DAC) Tech



Modular +
Scalable



Open Architecture

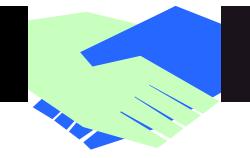


Carbon Products





The Team & Vision



Bill Gross

Chairman & Co-founder

- Serial Entrepreneur in the Energy Storage and Solar Sector
- Founder and Chairman of Idealab Studio, a leading technology incubator



Adrian Corless

Chief Executive Officer

- 25+ years in the clean tech industry
- C-Level Executive at energy and carbon companies for 15+ years

40+ Employees and Growing...



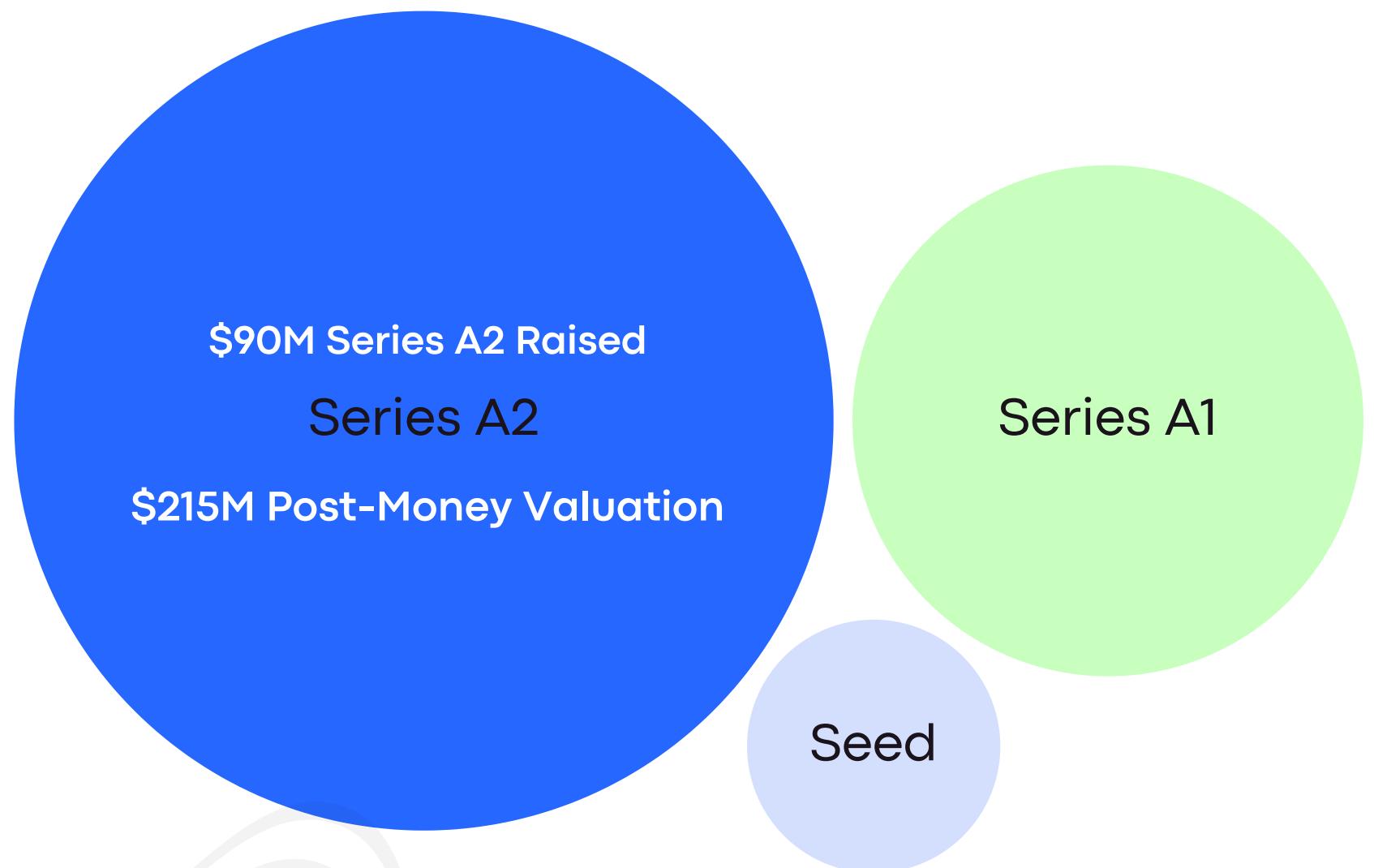
Saeb Besarati

Chief Technology Officer

- PhD in Chemical Engineering
- 20+ papers and patents under his name in climate tech

"We are dedicated to addressing climate change head on by **decarbonizing the atmosphere as quickly as possible.**"

Funding & Traction



Funding from: Alumni Ventures, The Climate Pledge, Armada Investment, and more!

Frontier stripe Alphabet Shopify Meta
McKinsey Sustainability

JPMORGAN
CHASE & CO.

AUTODESK

H&M Group

workday

Watershed

CarbonCapture™

\$20M Contract with Frontier on Behalf of Stripe, Alphabet, and other companies to remove 45,000 tons of CO2



Equity
investment from
Amazon's
Climate Pledge
Fund. Making
100,000 tons of
carbon removal
credits available
to businesses &
companies

Investment Thesis



Technological Innovation

Proprietary tech paving the path for new-age DAC



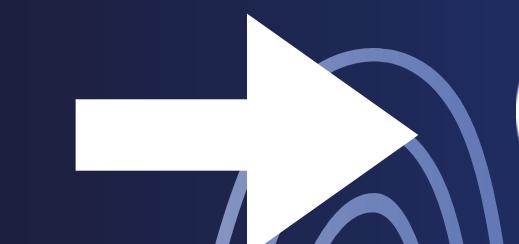
Market Tailwinds

Public policy and companies investing in a future for carbon emission control



Competitive Position

Lined up lucrative contracts and partnerships setting up a successful future



CarbonCapture™



Thank You! Questions?

EMAIL

aathavansk@berkeley.edu

PN#

925-464-6230

LINKEDIN



Aathavan Senthilkumar
Mechanical Engineering
UC Berkeley 2025

