



FRONTIER

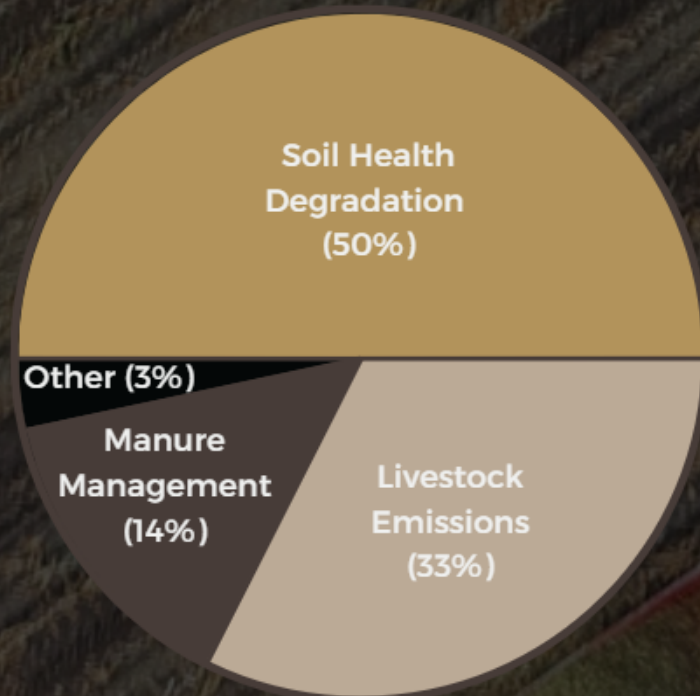
RESOURCE RECOVERY

Connecting carbon sequestration and agriculture

Farmers Need Carbon Solutions

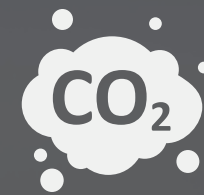
11% of total U.S. emissions
come from our agriculture industry

Agricultural Emissions Breakdown (600M tons of CO₂):



EPA Inventory of Agricultural GHGs, 2023

Over 90% of manure emissions
come from concentrated
animal feed operations.



Farmers Also Need Soil Solutions

Soil Health Is Declining Across The U.S. And Causing:

- ↘ Harmful erosion
- ↘ Over-reliance on costly fertilizers
- ↘ Worsening nutrient runoff
- ↘ Decreased resilience against droughts
- ↘ More wasted water than ever

U.S. farmer are losing over **1.6 billion tons** of healthy soil a year.

NRI Summary Report, 2017

Farmers spent over **\$25 billion** on fertilizers last year.

Over **50%** of this fertilizer went completely wasted due to erosion and water runoff.



The key to fixing this is healthier soils

U.S. farm expenditures, 2021 / Hannah Ritchie, 2021

The cost of soil loss in our agriculture industry is estimated to be **\$44 billion** a year.

Weltz, 2020





SOLUTION:

FRONTIER

RESOURCE RECOVERY

MISSION:

We bridge carbon sequestration with critical environmental needs in the agriculture industry.

WE TURN MANURE INTO AN ORGANIC FERTILIZER



Transforming an environmental nuisance into a valuable product

RESULT

CARBON IS SEQUESTERED AND SOIL IS HEALED



Reducing emissions and regenerating soil



Win for the **environment.** Win for **animal producers.** Win for **farmers.**

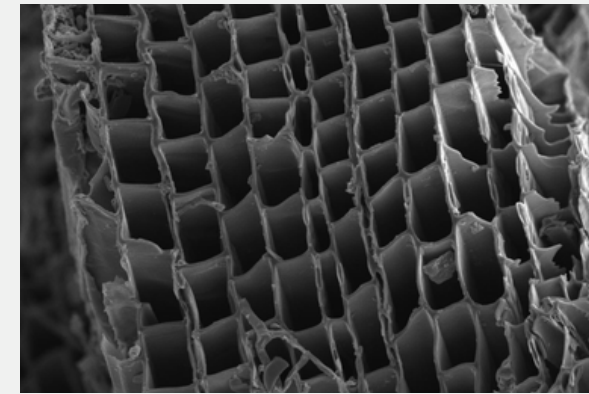
BIOCHAR

THE KEY TO TRANSFORMING OUR WASTE INTO A SOLUTION FOR SOIL



MADE FROM WASTE

Biochar is a material made from organic waste that is used as a soil amendment.



UNIQUE PROPERTIES

It has a sponge-like structure that is rich in carbon and essential crop nutrients.



USED FOR MILLENIA

It was first used for agriculture in the Amazon over two thousand years ago.

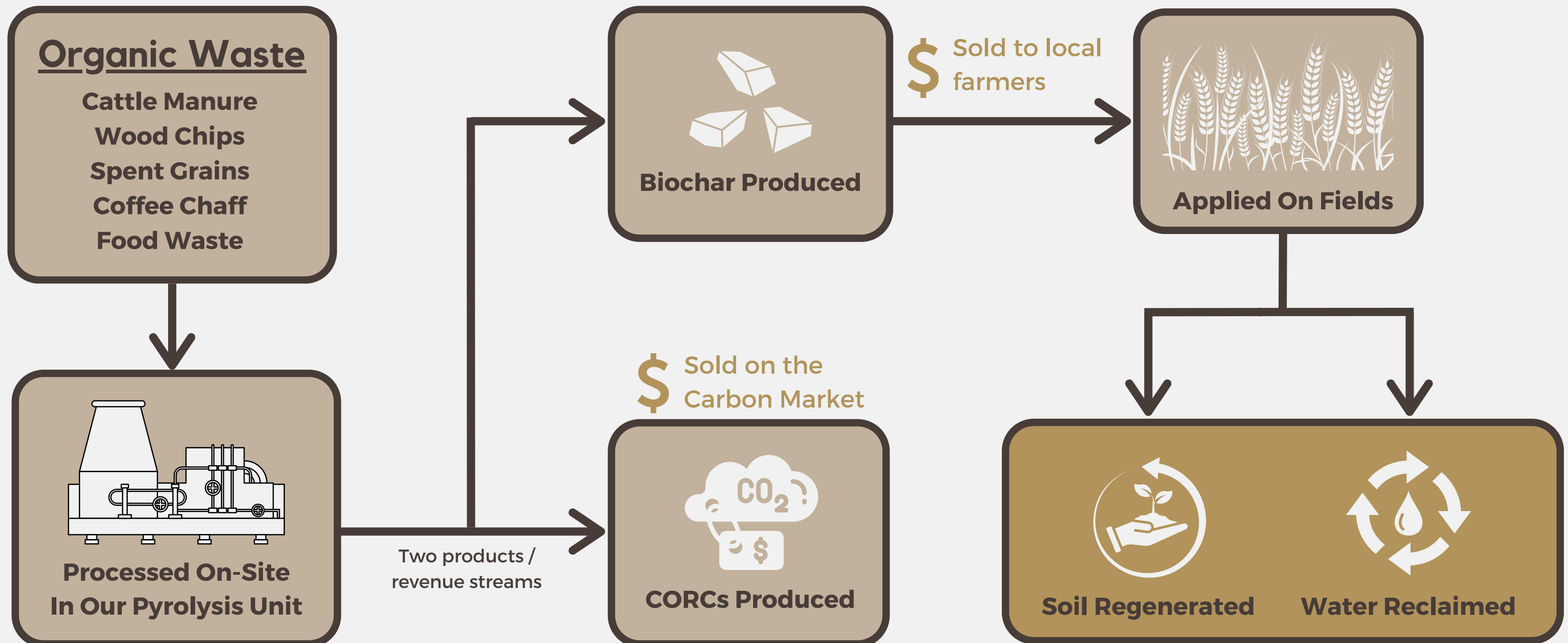


SEQUESTERS CARBON

The carbon in biochar can stay sequestered for thousands of years.



Our Production Process



The waste is exposed to extreme heat in the absence of oxygen.

CORCs (Carbon Offset Retirement Credits) are generated and sold on the Voluntary Carbon Market.

The entire lifetime of our product takes place within a 25mi radius.

Biochar Industry Snapshot

Existing Companies Vs. Frontier

Existing

Expensive

High quality biochar is produced, but the price point remains impractical for over 90% of farmers.

Centralized Production

Production happens hundreds of miles from who they are trying to sell to.

Boutique Customers

The only operations that can afford their product in mass is vineyards, organic growers, and other higher margin operations.

Frontier

Value Focused

We are the first ones to be producing commercial biochar from manure, which is cheap and abundant.

Decentralized Production

Production happens on avg < 25 miles from our customers, drastically cutting transportation costs.

Mass-Market Customers

Over 90% of farmers have been priced out of being able to utilize biochar until now. We are unlocking a whole new market segment.



Mc6 Project - Launching 2024

Helping Our Texas Panhandle

Major Project Components:

- ✓ Securing Supply
- ✓ Technology Optimization
- ✓ Permitting Approvals
- Distribution For Products
 - Carbon Credits
 - Biochar

Financial Snapshot

Initial Capex	\$2.5M
Revenue*	\$1.6M / yr
Gross Profit	\$1M / yr
Payback	approx. 2.5 yrs
Project LTV (10yrs)	approx. \$8.3M
Carbon Sequestered	84k tons

*Assumed Pricing:

\$50 per
ton of biochar



\$150 per
CORC



Contact us to view the full project model



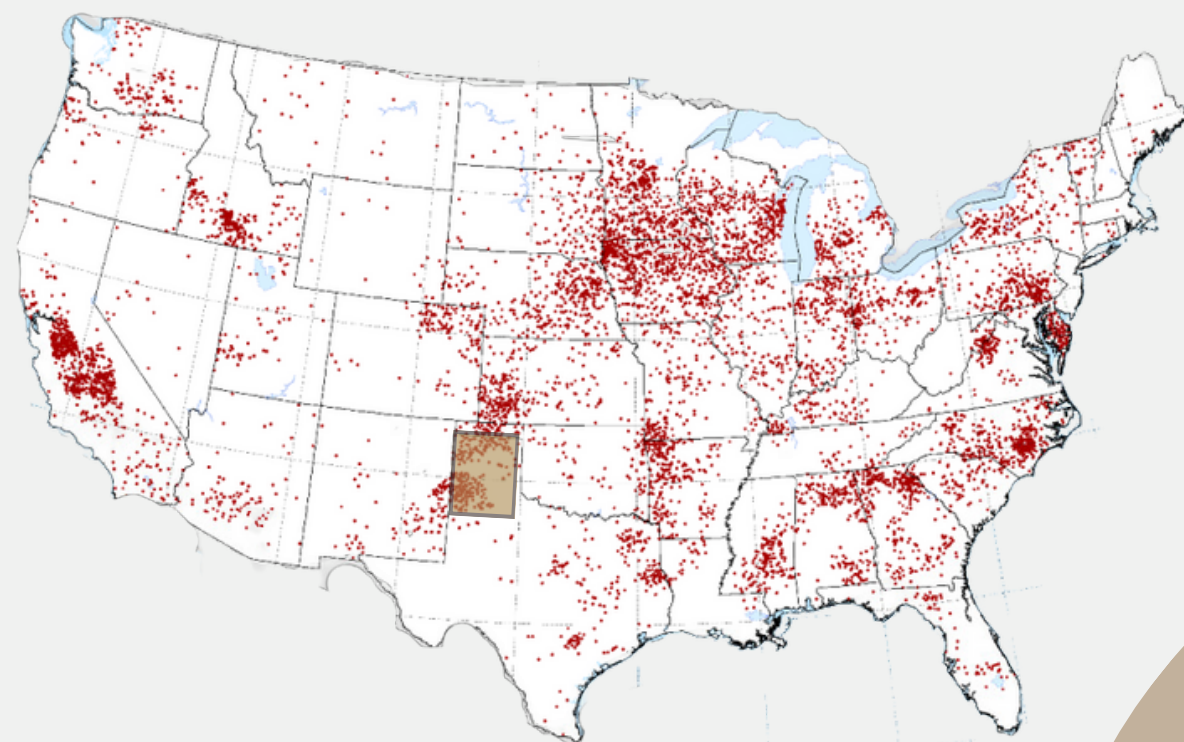
Market Opportunity

Manure At Large Concentrated Animal Feed Operations (CAFOs)

U.S. Distribution Of CAFOs*

1 dot = 10,000 animal units

Texas Panhandle = 



Gollehon, 2016

*CAFOs include concentrations of fattened cattle, dairy cows, swine, and poultry.

Mc6 Project
\$1.6 Million

\$1.25M in carbon credits
\$350k in biochar

Texas Panhandle
\$1.7 Billion

\$1.1B in carbon credits
\$600M in biochar

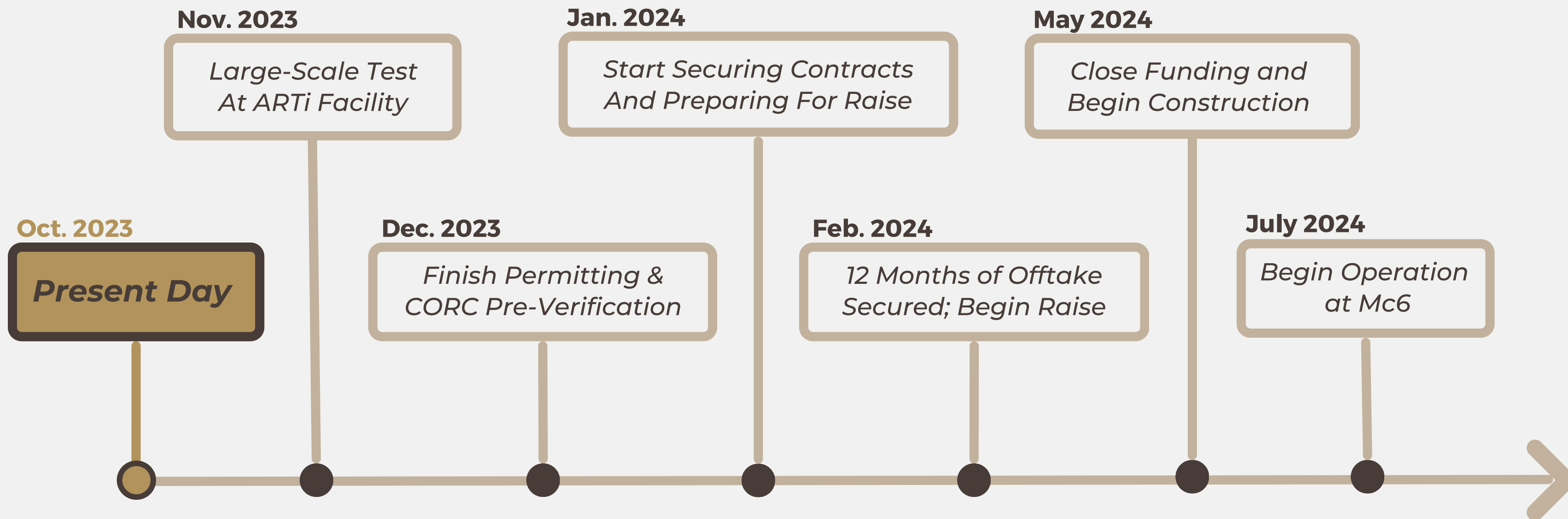
United States
\$6.4 Billion*

\$4.2B in carbon credits
\$2.2B in biochar

***This does not include even further opportunities we have such as valorizing waste at cotton plants, distilleries, coffee roasteries, etc.**



Timeline



The Frontier Team



Cole Mitchell
(Founder & CEO)

Multiple years of entrepreneurship experience, including running operations at a 100+ employee startup leading up to its 2020 exit. Cole founded Frontier Resource Recovery to tackle agricultural waste with scalable solutions.



Logan Welsh
(Co-Founder)

Trained engineer with experience at multiple firms and a strong exposure to the world of venture capital, including time at Draper Associates and the Aggie Venture Fund program.

Strategic Investors:



Patrick Wade, Jeff Spinner, Scott Rogan

CarboNexus, a venture capital firm focused on carbon sequestration, blends private equity, project finance, and venture experience to guide investments and seize opportunities in the dynamic carbon market.

Investors/Advisors:

John Claybrook

Steven Hauge

Brian Skulski

Taylor Clark

Dakota Priest

Bubba Smitham

Cory Priest

Brent Secrest

Craig Bryan



Research Partnerships



Technology Partnerships



The Frontier Network

Industry Partnerships

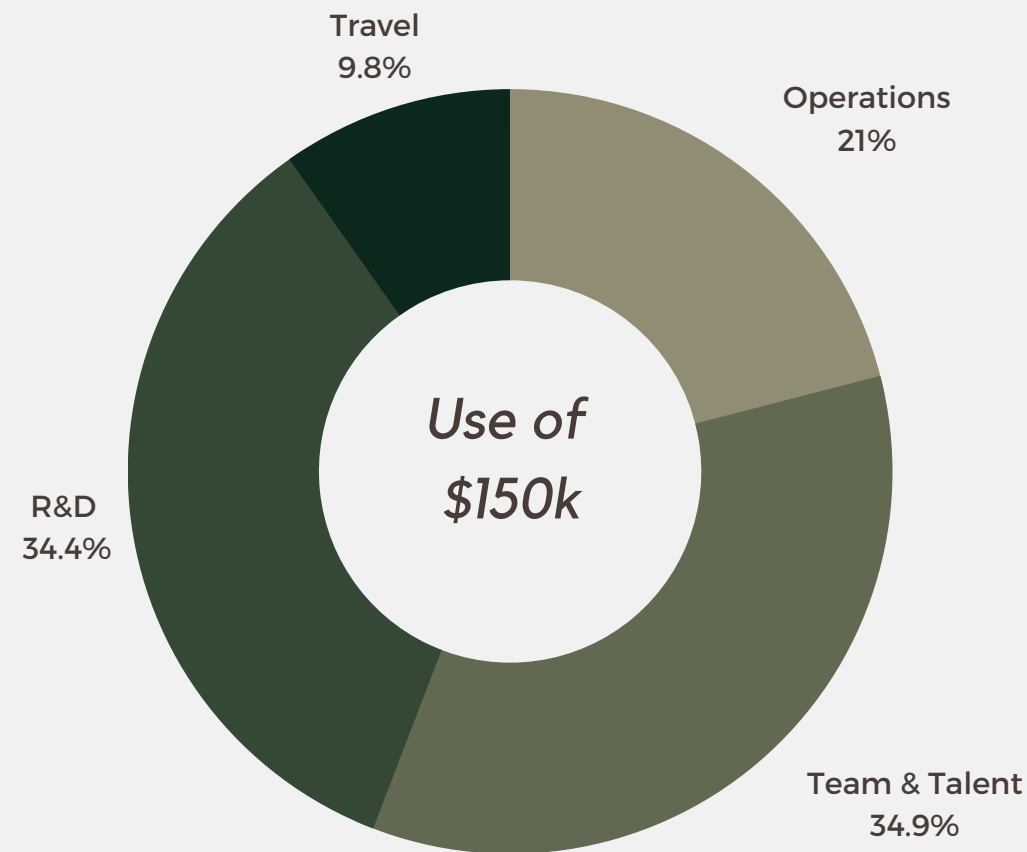


Capital Partnerships



Raised To Date: **\$405k**

Currently Seeking: **\$150k**



Key Allocations For Capital*:

\$24,500 for Final Engineering

- Carbon credit accelerate listing
- Permitting verification

\$21,750 for Texas A&M Research Partnership

- Biochar field trials
- Manure quality optimization

\$61,000 Salary Through April '24

- This will get us fully to our prospective series A

*Reach out to get access to our full list of funds usage



THANK YOU FOR BEING PART OF THE SOLUTION!

For Additional Information, Please Reach Out To:

cole@frontier-rr.com

logan@frontier-rr.com

