mars materials

Transforming carbon to clean dirty water and more

Watervent

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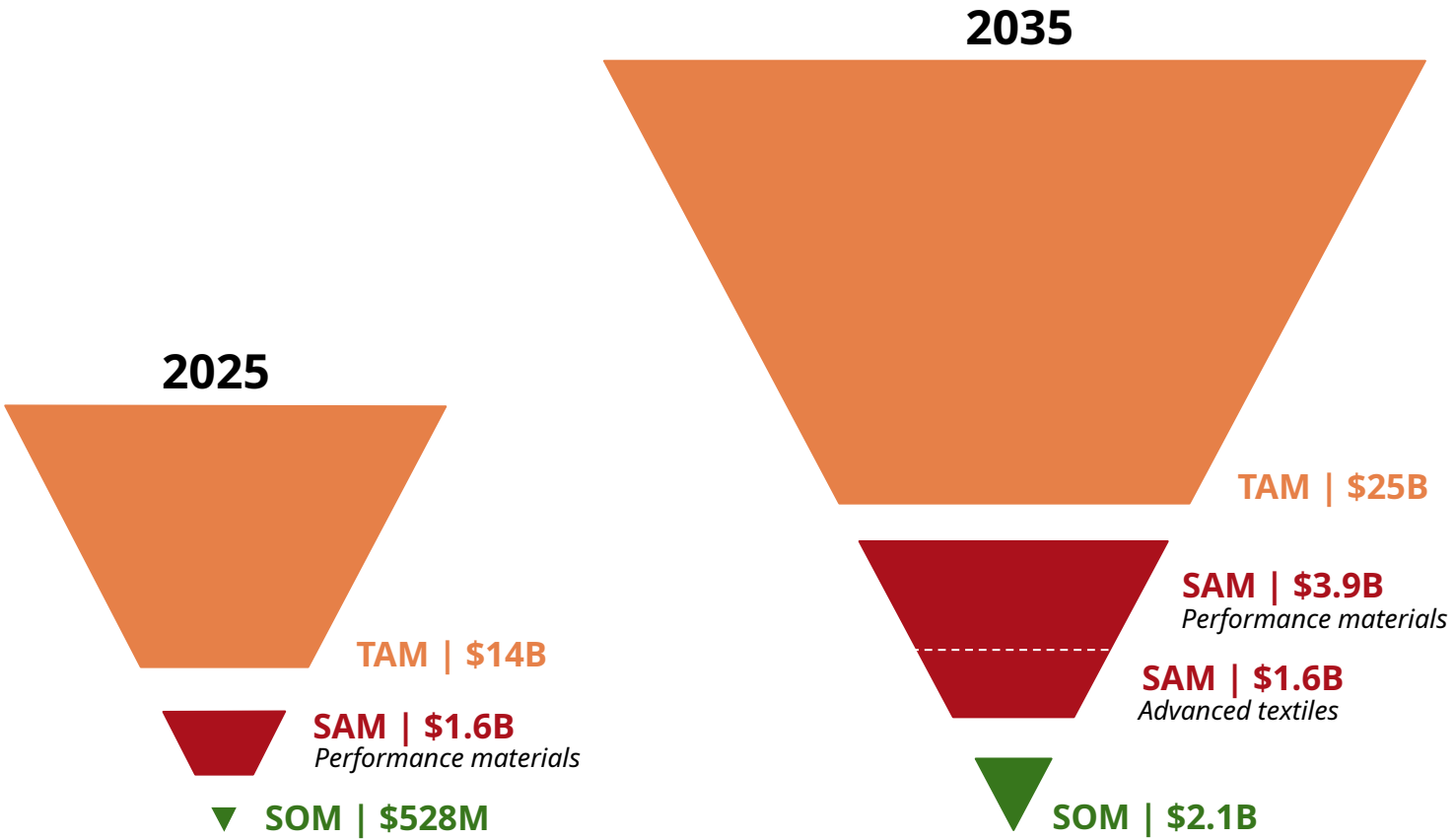
One chemical building block purifies dirty water and much more

Lacking domestic-centric pathways, its production is tied to fragile, globally-sourced fossil feedstocks

Long term material substitution trends, domestic policies drive demand

The chemical, Acrylonitrile, is growing at a rate of 5% CAGR, as it replaces wood and metal-based products



$11BN freshwater market demands a viable drop-in alternative

SNF ($4.5B+ in sales), undisputed acrylamide market leader, says “As fast as Mars can produce it, we’ll use it.”

Demand drivers

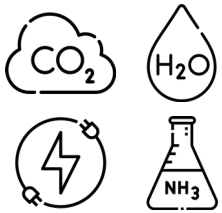
- Volatile, insecure supply chains
- Mounting sustainability demands
- High-carbon feedstock burden

Supply challenges

- Previous alternatives failed
- Complex supplier tracking
- Outdated incumbent solutions

Global industry demonstrated Mars' carbon-negative product is superior

Inputs



Plant

Off the shelf equipment

Streamlined plant siting

Proprietary process integration →

Drop in product: Acrylonitrile

Customer product:

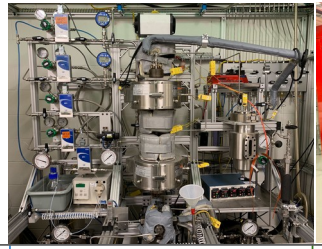
Product validation: Joint press release

Against the competition, Mars is poised to be the market leader

Mars' scaleable drop-in has fewer emissions, is cost-competitive with global new entrants

	Incumbents	New Entrants	Mars Materials
Non-fossil feedstock	✗	✓	✓
Carbon negative	✗	✗	✓
Impurity advantaged	✗	✗	✓
Localized supply chain	✗	✗ ✓	✓
	AsahiKASEI, TONGSUH PETROCHEMICAL, INEOS, Sinopec, AO Navoiyazot, ASCEND, Cornerstone	Econitrile, TRILLIUM, INEOS, TERRADOTE, AsahiKASEI	mars materials

Planning and partnerships accelerate Mars' commercial scale up

	Phase I	Phase II	Phase III	Phase IV
	COMPLETED			
	Q2 2022 - Q1 2023	Q3 2022 - Q3 2026	Q3 2023 - Q1 2029	Q4 2026 - Q4 2029
				
Production throughput	~15 g/d	~1 kg/d	~3,000 kg/d	~130,000 kg/d
CapEx	$68K	$2M *Fully funded*	$25M	$132M
Key partners	NREL NATIONAL RENEWABLE ENERGY LABORATORY	NORTHWESTERN	BLACK & VEATCH	

75+ combined years of scaleup, operations & commercial expertise

Team

Aaron Fitzgerald
Co-Founder & CEO

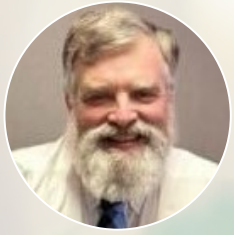
3x founder
Carbon removal expert

Kristian Gubsch
Co-Founder & CTO

CO_2 researcher
Chemical engineer

Trey Sheridan
Co-Founder & Lead Engineer

Decarbonization researcher
Chemical engineer



Ken Keckler, PE
VP of Engineering (Fractional)

Chemical engineer
Scale up/out expert & early SOHIO engineer

Financial backers

Breakthrough Energy Fellows · OVERLAP HOLDINGS · BTC · prithvi · climate capital · ROCKET FUND · BLACK & VEATCH · untapped · COLUMBIA Lab-to-Market Accelerator Network

Advisory board

Todd Eaton, PhD
Technology & Co-Inventor

Dan Durbin, PhD
Procurement expert

Cédrick Favero
Acrylamide Industry expert

4 FTE · 1 PE · 1 Veteran

Our revenue plan: partnering first, owning later

Phase III

Licensor & services model

Revenue streams:
- Technology licensing fees
- Operations & maintenance (O&M)
- Engineering design fees
- Core equipment sales

Near-term: Minimizes balance sheet risk

Phase IV

Joint developer model

Revenue streams:
- Developer fees
- Profit split

Mid-term: Builds credibility & track record

Scale out

Owner/operator model

Revenue streams:
- Full project equity returns
- Asset management and O&M fees

Long-term: Highest return model

Plant unit economics

$0.75—1.00/kg OpEx

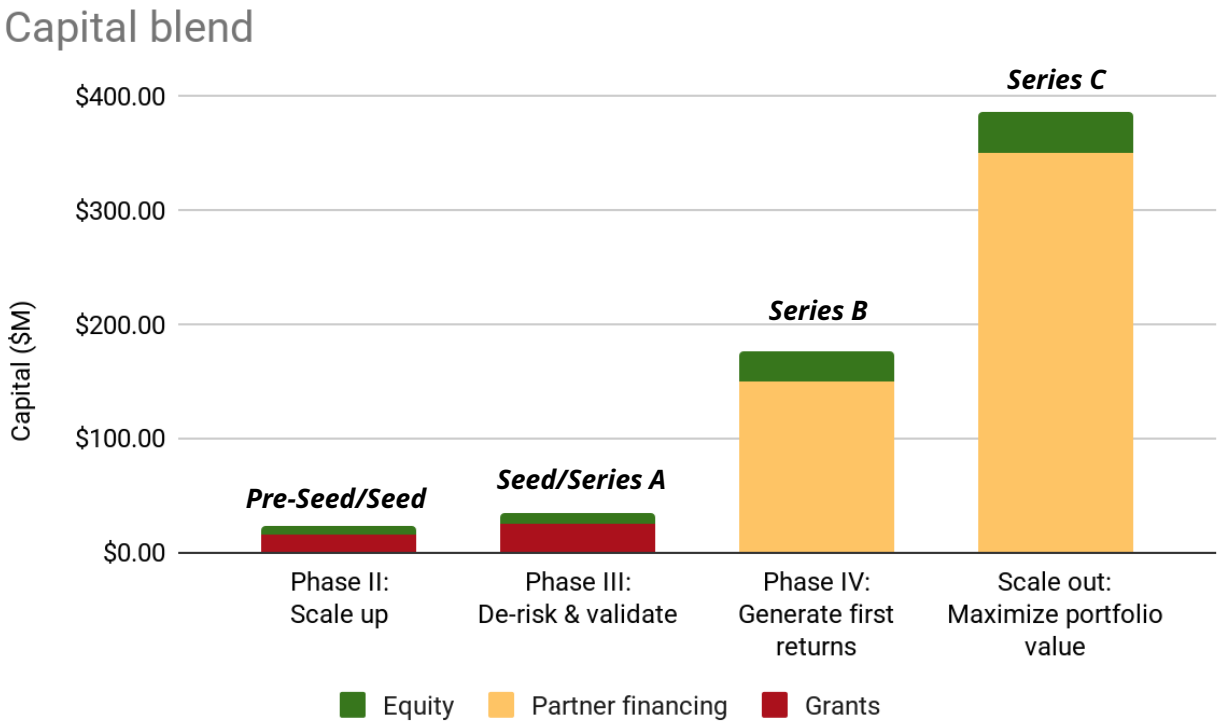
$0.20—0.40/kg CapEx

15—25% IRR

Up to (-2) kg CO_2e/kg GHG

A capital-efficient, leveraged path to profitability

Building a profitable portfolio with non-dilutive, off-balance-sheet financing



Proven execution & market traction

Industry Letters of Support
3 LOSs from market leaders, including SNF

Financing to date
$6.7M
Non-dilutive: 88%

IP portfolio
1 in-licensed patent family
Key process trade secrets

Revenue pipeline
Contracted pilot revenue: $10k
Projected demo plant revenue: $2.6M+

Talent pipeline
1,000+ applicants

Use of funds | Unlocking a catalytic Seed round

	 ***Milestone 1:*** **Technical validation**	 ***Milestone 2:*** **Market validation**	 ***Milestone 3:*** **Financial readiness**
Key milestone	Produce up to 10 kilograms of product for technology demonstration	Term sheet for joint development (JDAs)	Select an independent engineering (IE) firm
Key deliverables	● Onboard pilot plant operators ● Internal pilot validation report	● Deliver pilot samples ● Enter into JDA term sheet	● Enter into IE services agreement ● Engage a fractional CFO
Funding outcome	Technology de-risked	Market de-risked	Ready to scale

The ask | Our Pre-Seed II raise

$500K on a SAFE Note with standard terms

The terms

Security
SAFE Note

Amount
$500K

Valuation cap
$10M post money

Minimum check
$10k

Momentum & early commitments

36% committed and soft-circled

In good company:

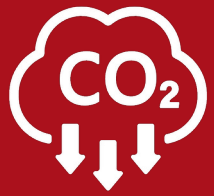
Pachamama Ventures

HAN HOUSTON ANGEL NETWORK

NETA

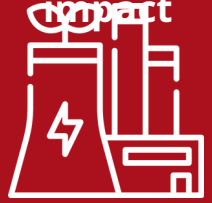
The Mars opportunity by 2035

GHG impact



3.5 MMt CO_2 stored

Product impact



1.4 MMt acrylonitrile supplied

Market impact

$1B annual revenue

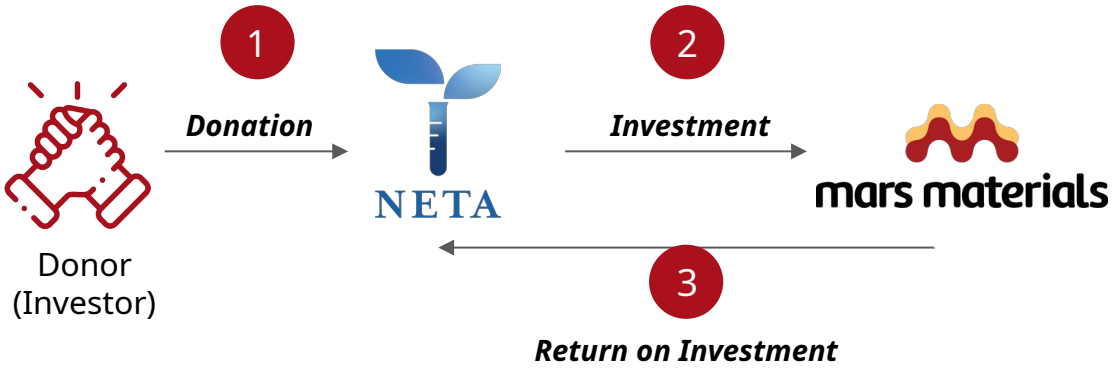
MarsMaterials.tech

Aaron@MarsMaterials.tech

Mars Materials

@MarsMaterials

Neta enables investments into Mars with charitable money



1) A donor (investor) establishes a Donor Advised Fund with Neta (a Neta DAF):
   a) If an individual, they donate into the DAF and are eligible for a tax deduction upfront
   b) If a private foundation, they make a grant to Neta (and it counts towards their 5% annual distribution requirement)
   c) If they already have money in a DAF, they recommend a grant from such DAF to Neta

2) Donor then recommends that Neta invest the money in their Neta DAF into Mars Materials

3) Any return on the investment goes back into their Neta DAF, which then can be reinvested or donated to any eligible non-profit

About Neta

/nɛtə/ meaning "seedling", often associated with growth, new beginnings, and potential to flourish.

Neta Foundation is a charitable asset manager, offering the first philanthropic platform to discover and invest in impactful companies, research or technologies.

Neta offers a unique blend of charitable opportunities and innovative investments, making it easier for **donors** to **invest** in solutions to issues that they care about. Neta brings granting and investing so close to each other, that they created a new category: GrantVestments™.

Neta's Donor Advised Fund (DAF) structure allows each donor/investor to have their own fund, track the performance of their investments, and then redeploy the returns.

Neta is a US 501(c)3 public charity.