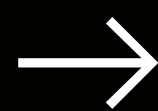


# Climate Impact Report



2022



CONGRUENT  
VENTURES

↓ 2022



Leveraging decades of climate tech  
investing experience, Congruent Ventures  
supports early-stage entrepreneurs building  
transformative companies that do more  
with less.

We back teams based in North America who are innovating across bits, atoms, and business models using IoT tech, SaaS platforms, online marketplaces, innovative chemistries, and frontier technologies. Our initial investments range from formation capital to Series A, and we support companies as they scale. Because we invest at the earliest stages, many of our companies are just beginning to gain meaningful traction. As our early-stage companies mature, we work to improve the resolution of their impact measurement in our annual Climate Impact Report.

Our founders share a deep passion for effecting change. We hope this report serves as an illustration of their powerful ambitions and a show of support for their hard work. We invest in exceptional founders and innovators united by a deep commitment to solving the fundamental challenges underlying climate change: it's their conviction and determination that keep us optimistic for a better future.

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# CONGRUENT VENTURES SNAPSHOT

Congruent Ventures was founded in 2017, Fund II was launched in 2021, and the Continuity Fund was launched in 2022.



**\$1B+** of capital catalyzed following Congruent's lead investment

**80%** Weighted average age of investment is 16.7 months old\*

of portfolio companies have had a follow-on investment round

\*Based on 43 active portfolio companies

For **82%** of our companies, we were first institutional investment

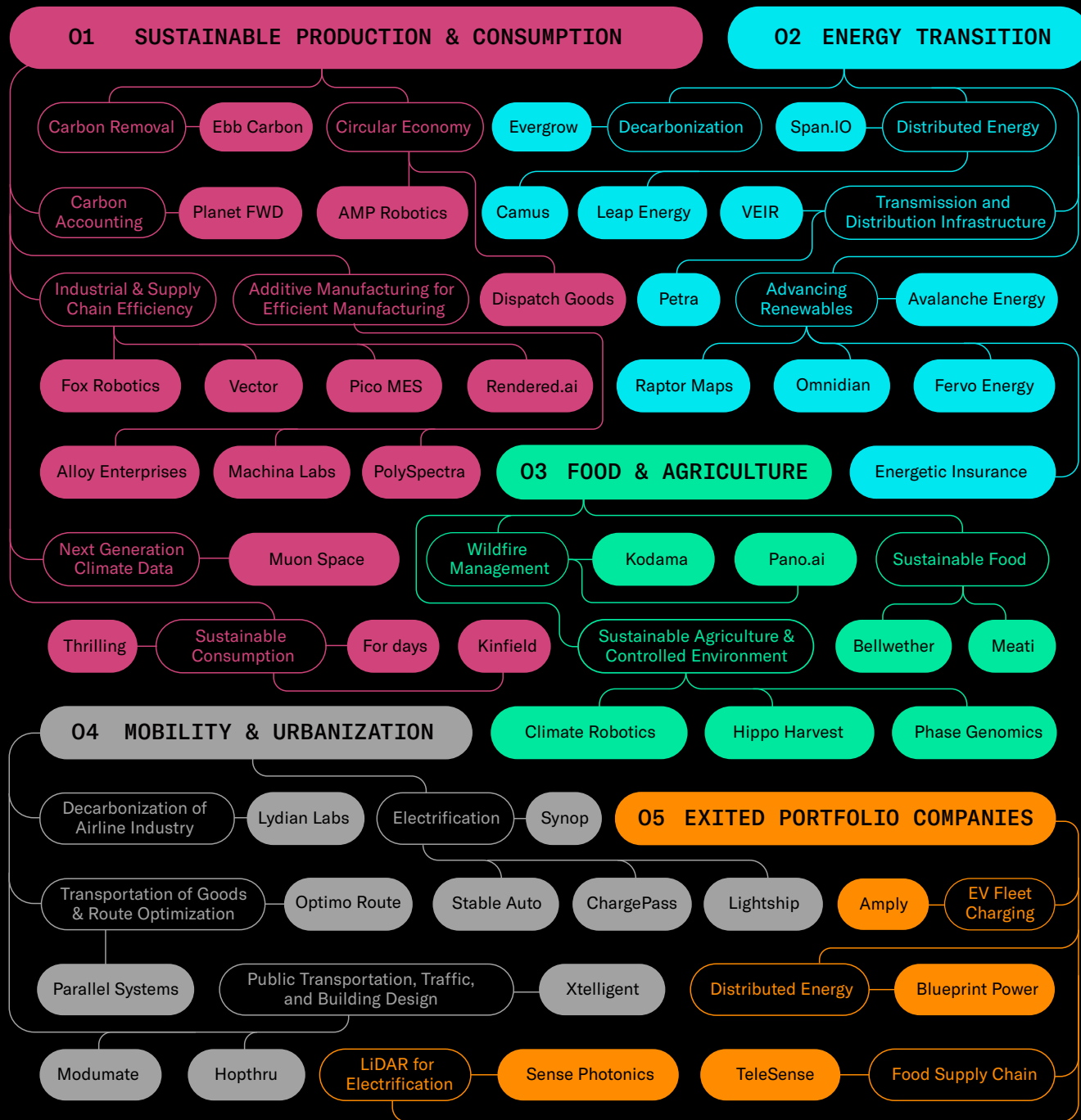
**27%** of portfolio companies are women led



**53%** of our companies are led by an underrepresented person (gender or race)

portfolio companies located across 8 states    **\$4.4B+**

total enterprise value of portfolio



→ 15

SUSTAINABLE PRODUCTION & CONSUMPTION

- 1 company using the ocean for carbon removal
- 1 company providing carbon accounting for food and beverage
- 1 company establishing a circular marketplace for packaging
- 1 company creating trash sorting robots
- 3 companies in circular and sustainable consumer products
- 3 companies in additive manufacturing
- 3 companies making supply chains more efficient
- 2 companies democratizing geospatial observation and analytics

→ 11

ENERGY TRANSITION

- 1 company unlocking decarbonization finance
- 2 companies focused on distributed energy resources (DERs)
- 3 companies revolutionizing the grid
- 1 company developing micro-nuclear fusion reactors
- 3 companies improving solar assets
- 1 company developing next gen geothermal electricity

→ 7

FOOD & AGRICULTURE

- 2 companies preventing mega-wildfires
- 1 company making "meat" from fungi
- 1 company curtailing coffee carbon cost
- 2 companies in robot-enabled agriculture
- 1 company focused on AI/computational genomics

→ 10

MOBILITY & URBANIZATION

- 1 company decarbonizing aviation
- 3 companies making the electric vehicle transition easy
- 1 company electrifying RV/van life
- 2 companies transporting goods or optimizing routes
- 2 companies working on public transportation and traffic reduction
- 1 company improving building design and construction efficiency

→ 6

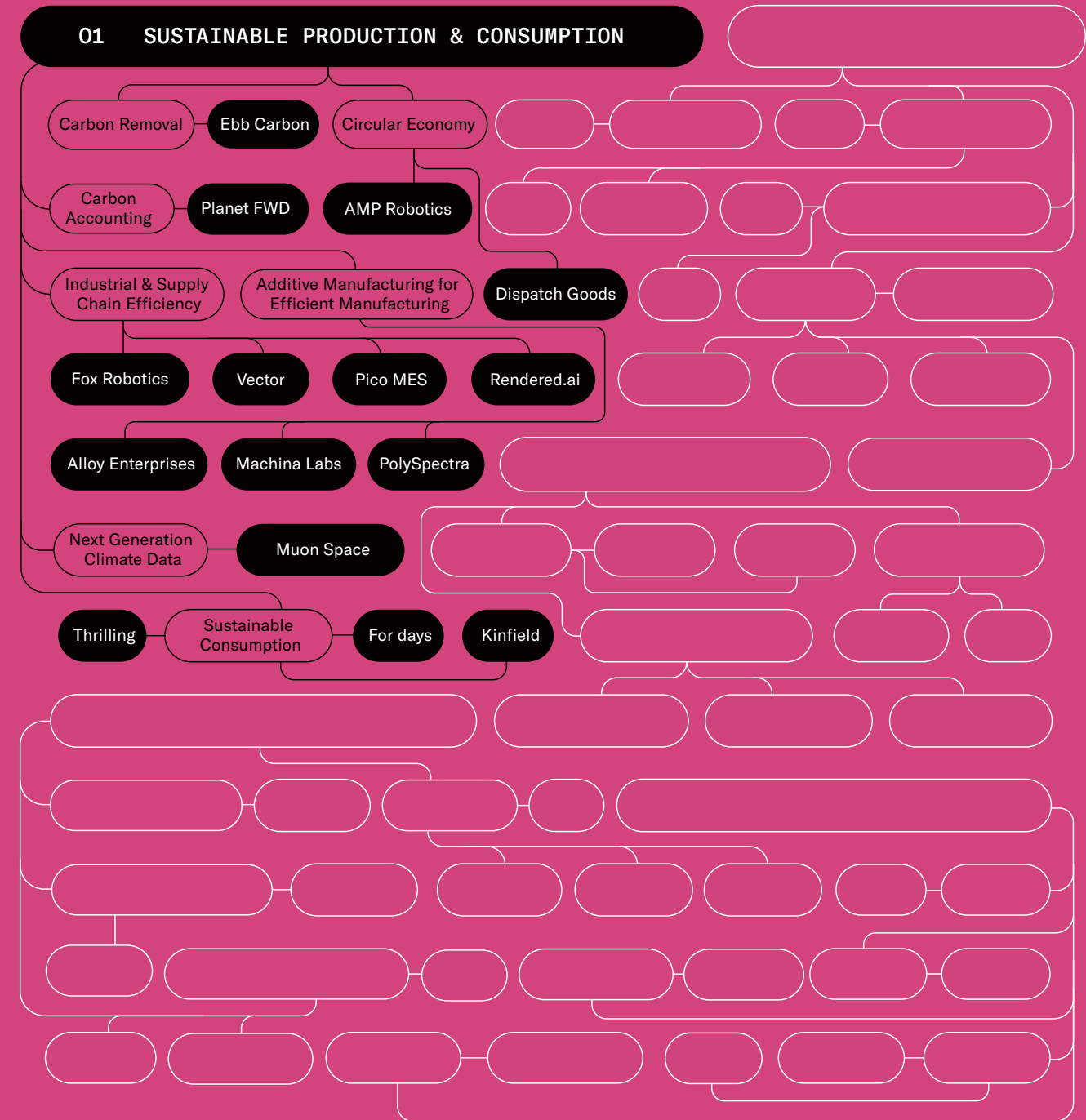
EXITED PORTFOLIO COMPANIES

- 1 company running EV fleet charging software
- 1 company enabling distributed energy resources for commercial buildings
- 1 company enabling next gen LiDAR for automation and efficiency
- 1 company reducing food waste with sensors and analytics
- 1 company building a national farmers' market
- 1 company reducing construction waste

# →01

# SUSTAINABLE PRODUCTION & CONSUMPTION

We can produce, consume, and move goods more sustainably by leveraging advanced technologies, such as additive manufacturing, robotics systems, and machine learning, along with closed loop systems and more sustainable products.



- 1** company using the **ocean for carbon removal**
- 1** company providing **carbon accounting for food and beverage**
- 1** company establishing a **circular marketplace for packaging**
- 1** company creating **trash sorting robots**
- 3** companies in **circular and sustainable consumer products**
- 3** companies in **additive manufacturing**
- 3** companies **making supply chains more efficient**
- 2** companies **democratizing geospatial observation and analytics**





The company's electrochemical solution processes saline water and produces dilute acid and sodium hydroxide (base). When the sodium hydroxide is returned to the ocean, it produces bicarbonate – a safe and permanent form of carbon storage.

EBB CARBON has developed an electrochemical system that enables high quality ocean-based carbon dioxide removal while reducing ocean acidity. Using seawater and low-carbon electricity, Ebb Carbon's system can sequester gigatons of

CO<sub>2</sub> with >10,000-year permanence at competitive costs (projected to be <\$50/ton at scale).

Voluntary carbon markets are moving to increased quality (permanence and additionality) metrics, and a lack

of alternatives is driving demand for reasonably-priced, high-quality carbon removal credits.

**FOUNDERS**  
Ben Tarbell

**BACKGROUND**  
Google X, Mosaic, SolarCity, IDEO, Stanford, Cornell, PARC, Brookhaven NL, NIST, Harvard, Princeton  
Manufacture, IDEO, California Maritime Academy, Tesla, PARC, California Maritime Ac

**SOCIAL MEDIA**  
www.ebbcarbon.com

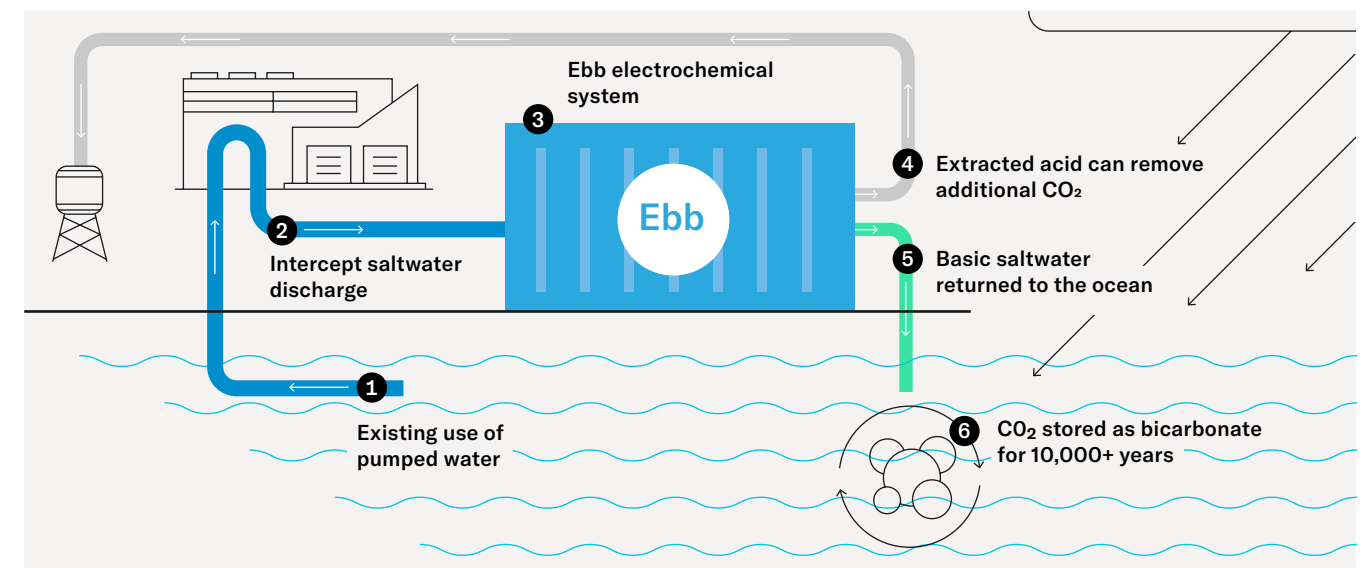
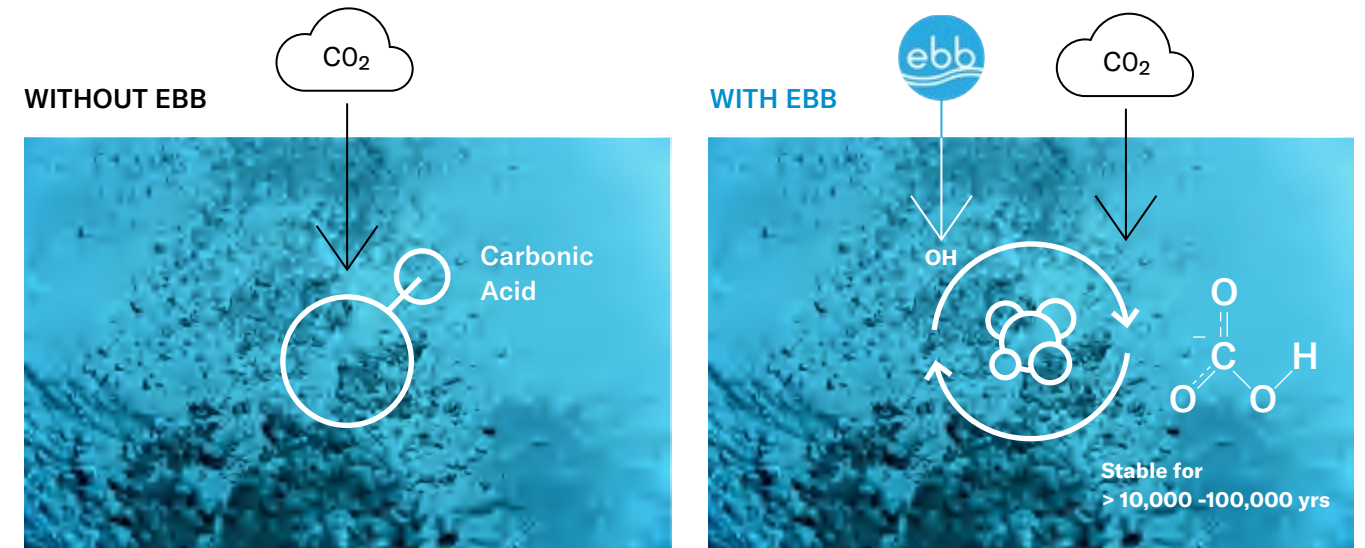


**Ben Tarbell,**  
Founder & CEO,  
Ebb Carbon

“The ocean is suffering some of the most harmful effects of climate change, but can also be a big part of the solution.

Ebb Carbon accentuates the natural systems in the ocean while building low-cost, gigaton-scale CO<sub>2</sub> removal that reduces ocean

acidity. The CDR industry is poised to build a \$1T market to reverse climate change while delivering positive outcomes for people and our planet.”





Carbon accounting platforms enable companies to track, reduce, and offset their carbon emissions in a more streamlined and cost-effective way.

PLANET FWD is the leading climate management platform for consumer companies to improve their environmental impact. Leveraging one of the largest LCA databases for global supply chains, the company helps organizations measure and mitigate their climate impacts. Planet FWD's core technology has robust Scope 3 emissions modeling capabilities, making it the best solution in the market for consumer companies, where 89% of emissions come from the supply chain on average.

Planet FWD supports its customers with everything from full corporate greenhouse gas inventories to LCAs for individual ingredients. It is the only climate management solution in market that offers this end-to-end experience.



71% of S&P 500

companies already disclosed some estimates of carbon emissions and 2/3 of them have set climate targets to reduce emissions.

The global market for carbon accounting software is expected to grow from

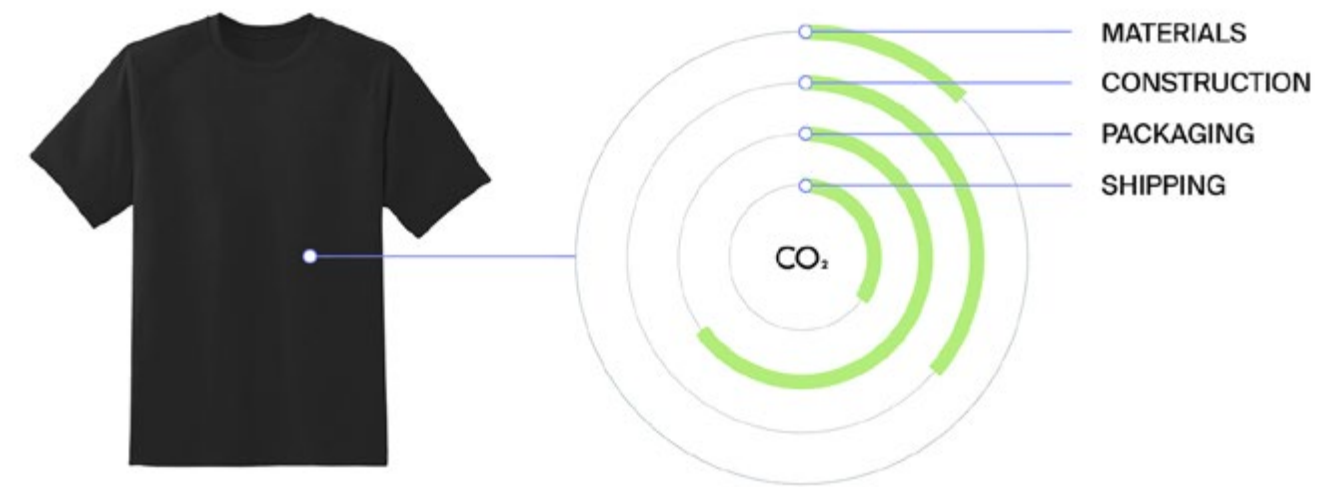
\$10.4B in 2020 to \$43.6B by 2030

at a 15.7% CAGR.

**FOUNDERS**  
Julia Collins

**BACKGROUND**  
Moonshot Snacks, Zume Pizza, Harlem Jazz Enterprises, Harvard, MBA at Stanford

**SOCIAL MEDIA**  
www.planetfwd.com

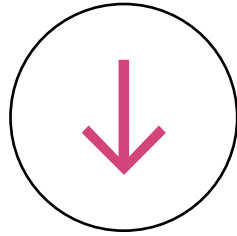


79 MT CO<sub>2</sub>e

available customer emissions reductions opportunities.







“Christina and the Congruent team have been awesome partners since co-leading Planet FWD's Series A. They've supported me with everything from big-picture strategic decisions to more practical needs like hiring and fundraising support. **As board members they have brought a tremendous amount of insight and experience to important discussions.** I also find them to be incredibly responsive and I've been able to count on them every time that a need arises. Beyond all of this, I really enjoy working with them. Combatting climate change is tough work, so it's doubly important to work with people who bring you joy.”



**Julia Collins,**  
Founder & CEO, Planet FWD



---

“Global consumer companies are in a **unique position** to lead on **climate action** by decarbonizing the supply chains that are driving those climate impacts.”



**Julia Collins,**  
Founder & CEO, Planet FWD



The company provides a turnkey sorting solution that is safer, faster, cheaper, and more accurate than legacy methods of material recovery, fundamentally changing the economics of recycling.



AMP ROBOTICS is modernizing the world's recycling infrastructure by applying AI and automation to increase recycling rates and economically recover recyclables reclaimed as raw materials for the global supply chain.

AMP's AI-guided robotics systems are modernizing recycling by improving material quality, ensuring worker safety, increasing productivity, lowering costs, diverting waste from landfill, and reducing greenhouse gas emissions.

A summary of AMP's current product offerings include: the AMP Cortex™

high-speed robotics system automates the identification and sorting of recyclables from mixed material streams; the AMP Neuron™ AI platform continuously trains itself by recognizing different colors, textures, shapes, sizes, patterns, and even brand labels to identify materials and their recyclability; AMP Clarity™ provides data and material characterization on what recyclables are captured and missed, helping recycling businesses and producers maximize recovery; and AMP Vortex™ is the industry's first AI-powered automation system for film removal and recovery in MRF environments, which started

pre-release in 2022 an expected full production release in 2023.

With deployments across North America, Asia, and Europe, AMP's technology recovers recyclables from municipal collection, precious commodities from electronic scrap, high-value materials from construction and demolition debris, and valuable feedstocks from organic material.



**4,972,085**

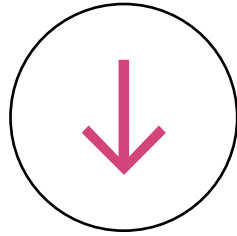
**metric tons of GHG emissions avoided** which is equivalent to removing 1 million cars from the roads.

Just 9% of all plastic ever produced has been recycled.

**79%**

ends up in landfill or as litter.





“We've benefited greatly from our partnership with Congruent, who has been so successful in building companies addressing sustainability challenges. Early investment, in-the-weeds support, and recognition of the opportunity created by new technology is critical as we scale our application of AI, robotics, and data capture to improve the economics and efficiency of recycling.”



**Matanya Horowitz,**  
CEO & Founder



**655,710,835 lbs**

of **waste diverted** from landfill.

Of the

**292.4 million**

**U.S. short tons of municipal solid waste (MSW)** generated in 2018 – or 4.9 pounds per person per day – just

**69 million**

**ends up in landfill or as litter.**



Dispatch Goods is accelerating the shift to reusable packaging as a realistic option for businesses.



“Congruent is in lockstep with our vision and truly feels like an extension of our team.”



Lindsey Hoell, CEO & Co-founder

**FOUNDERS**

Lindsey Hoell, Maia Tekle

**BACKGROUND**

Shamrock Surgical, Surfrider Foundation, Kapiolani Medical Center, Caviar, Valassis, Mode Media Corporation, Mindshare

**SOCIAL MEDIA**

@dispatch\_goods  
www.dispatchgoods.com

DISPATCH GOODS is creating the infrastructure layer to support a digital marketplace for upcycled packaging, with a focus on managing the reverse logistics of collecting, cleaning, and restocking reusable packaging for direct-to-consumer businesses.

Dispatch Goods aims to transform waste, a \$1.6 trillion global industry, through an end-to-end logistics

platform that enables food subscription companies to switch from a single-use to a reuse model. This achieves immediate cost savings for businesses while reducing their carbon and waste footprint.

Dispatch Goods works with D2C partners, such as Imperfect Foods, Sakara, and Thistle, to offer food in completely reusable packaging

without ever having to worry about the logistics of cleaning or return.

At scale, Dispatch Goods can significantly reduce waste in the US, keeping food delivery packaging out of landfills and the ocean, while reducing GHG emissions.

9,522

metric tons off GHG emissions avoided.

1,538,840

Items upcycled.

2,415,460

pounds of waste diverted from landfill.

29%

of global GHG emissions come from packaging, while less than

10%

of plastic is successfully recycled, and most compostable packaging ends up in landfills.

12.5 – 13.5

million tons of GHG emissions are emitted every year to make plastics from methane feedstock.







**FOUNDERS**  
Peter Anderson-Sprecher  
Charles DuHadway

**BACKGROUND**  
MS in Robotics at Carnegie Mellon

**SOCIAL MEDIA**  
@foxroboticsinc  
www.foxrobotics.com

Fox Robotics has successfully deployed robots at 20+ production sites across the United States.



FOX ROBOTICS is an industrial autonomous vehicle company focused on material handling vehicles for truck load/unload operations in warehouses. The company enables full automation for some warehouse operations. Its products are all electric, reducing emissions and costs while increasing safety and productivity. Warehouse automation will be important for reducing the industrial sector's carbon footprint. Because robots can operate in the dark and don't require a heated building, they allow warehouses to save significant amounts of energy.

Their autonomous forklifts have moved over 160,000 pallets to date. We are multiplying human labor and bridging gaps in logistics and warehousing that will improve quality of life for people worldwide.

76%

**potential energy savings** by enabling dark, automated warehouses in addition to electrifying forklift operations.



**FOUNDERS**  
Ryan Kühlenbeck  
Geoff Bucks  
Zachary Nelson

**BACKGROUND**  
Alta Motors, Tula Technology, Tesla, General Motors, Navigating Cancer, Amazon, Avande, Ford, MIT Motorsports

**SOCIAL MEDIA**  
www.picomes.com

PICO MES sells manufacturing execution software for manufacturers, with an initial focus on the Small and Medium Enterprise long tail. Pico's mission is to bring state of the art manufacturing tools & techniques to the small and midsize factories that produce the majority of the world's goods. Its software + hardware suite is designed to be easily deployable and customizable while adding enterprise-grade features like business intelligence, efficiency improvement, and waste reduction. Pico's system drives significant increases in utilization across the factory floor and should dramatically reduce manufacturing errors, decreasing wasted material.



Pico's mission is to bring state of the art manufacturing tools & techniques to the small and midsize factories that produce the majority of the world's goods.

Based on Pico MES estimates,

~10%-20%

**potential material savings** through the reduction of manufacturing defects.

Steel accounts for

8%

of **global CO<sub>2</sub> emissions.**



**FOUNDERS**  
Will Chu  
Brian Belcher

**BACKGROUND**  
Addepar

**SOCIAL MEDIA**  
@withvector  
www.withvector.com

VECTOR has created a software platform that is digitizing the trucking industry. The company's logistics management platform provides real-time visibility and complete traceability throughout the load lifecycle; from bills of lading origination through pickup and delivery to proof of delivery, OS&D and payment processing. Across the supply chain, pickup and delivery of freight is still manual and paper based which costs companies millions in transportation and warehousing costs every single year. Vector's solution is used to digitize facilities independently or help them connect to a network of logistics partners.

By deploying Vector's solutions, the freight industry increases asset utilization and drives down miles driven.



35%

**of trucks in the U.S. travel empty each year,** accounting for 61 billion miles and 87 million metric tons of unnecessary emissions.



**FOUNDERS**  
Nathan Kundtz

**BACKGROUND**  
Assistant Professor at Duke University, Kymeta Corporation, Intellectual Ventures, PhD in Physics at Duke

**SOCIAL MEDIA**  
@RenderedAI  
www.rendered.ai

RENDERED.AI is building tools and products for the growing machine learning ecosystem that dramatically simplify model training, improve data, and increase training integrity.

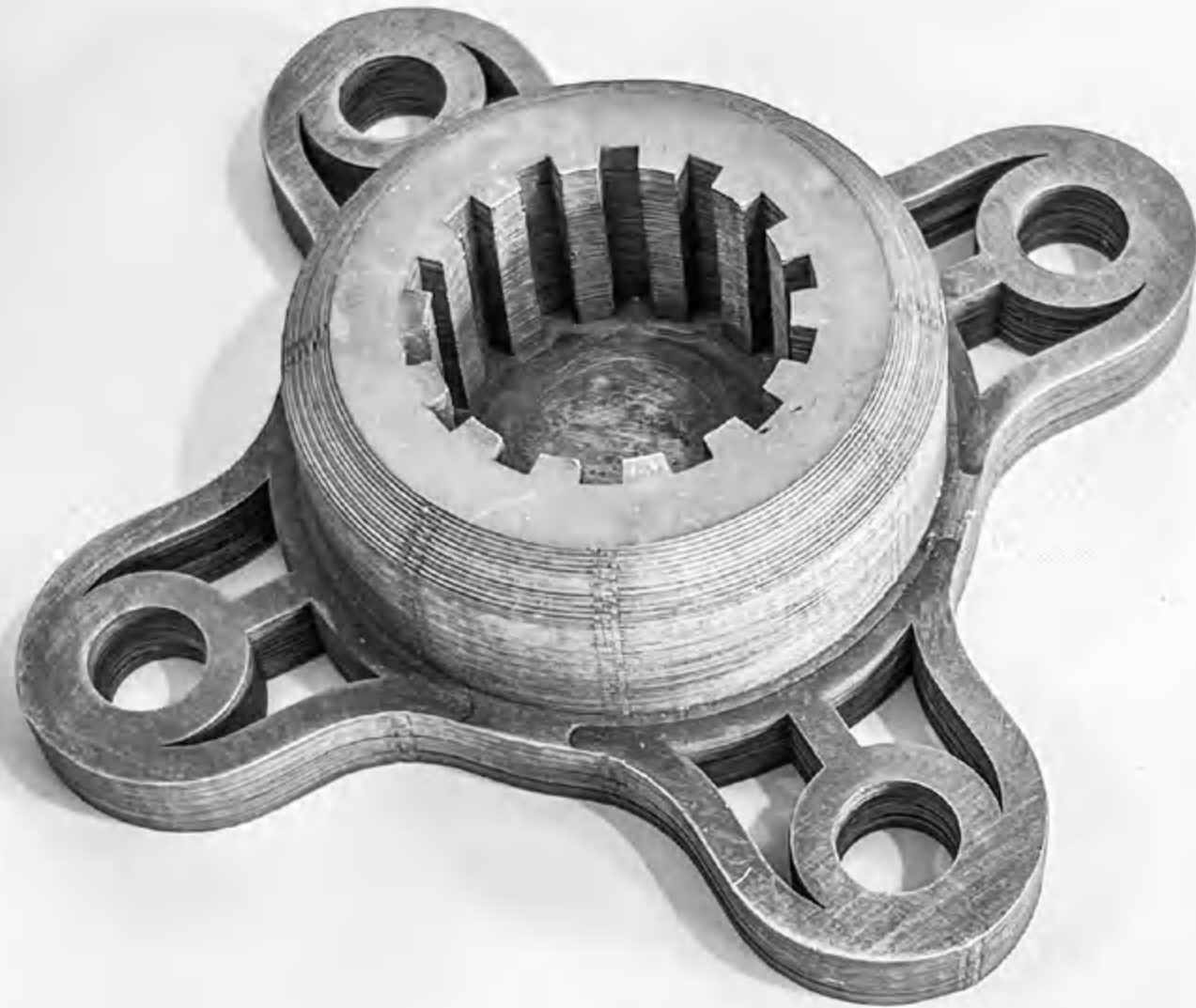
Rendered's developer tools enable the creation of high-fidelity synthetic data based on physics models of real sensors and sensing modalities.

For earth observation across a range of applications from hydrology to emissions to deforestation, the company's tools can enable satellite and data providers to automate analyses faster and with higher accuracy, dramatically reducing costs and enabling faster response to environmental challenges.

Rendered recently launched an innovative partnership with Planet Labs to provide synthetic data for new product development in Planet's new hyperspectral offering.



This new technology enables a higher penetration of printed aluminum in the \$184 billion lightweighting materials industry.



**FOUNDERS**

Ali Forsyth  
Andie Bedell  
Nicholas Mykulowycz

**BACKGROUND**

Desktop Metal, Open Water Power, Silverside Detectors, PhD in Engineering Sciences at Harvard, Righthand Robotics, Corning, Desktop Metal, Kiva Systems

**SOCIAL MEDIA**

www.alloyenterprises.co

ALLOY ENTERPRISES is building the next generation aluminum additive manufacturing (AM) technology that can replace energy intensive casting and forging processes with high-performance parts for a fraction of the cost and lead-time. Alloy's high-throughput system wins on cost in short- and medium-runs and outright compared to machining or other forms of AM metal printing. Any waste material from this process is readily recyclable within the existing supply chain for a lower net carbon footprint.

Fuel efficiency regulations and electrification are driving demand for lightweighting in the automotive and aerospace industries, with aluminum and additive manufacturing poised to play a large role. This new technology enables a higher penetration of printed aluminum in the \$184 billion lightweighting materials industry.

Lightweighting vehicles can help avoid an enormous amount of GHG emissions.

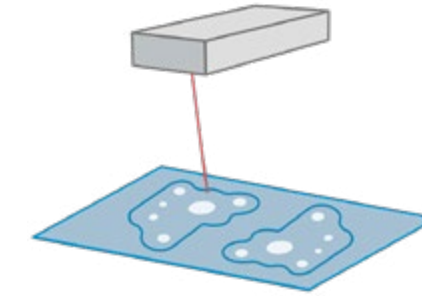
A 10% reduction in vehicle weight results in:

 **6-8%**

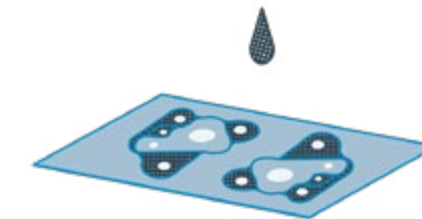
reduction in fuel use for an internal combustion engine car and a

 **13.7%**

increase in range for an electric vehicle.



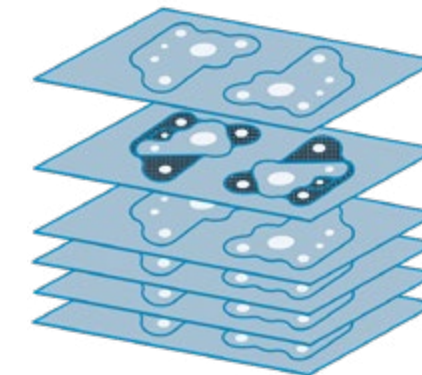
**STEP 1**  
Outline and features of the parts are laser cut into sheets



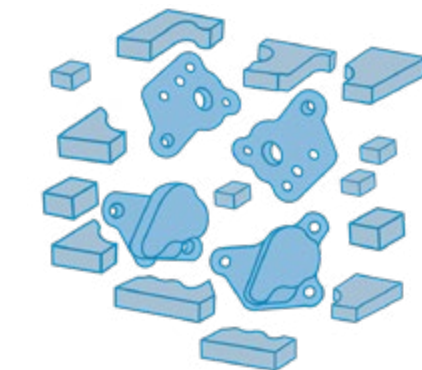
**STEP 2**  
Inhibiting agent is selectively applied to create in situ supports



**STEP 3**  
Cut sheets are stacked on a caddy before undergoing the bonding process

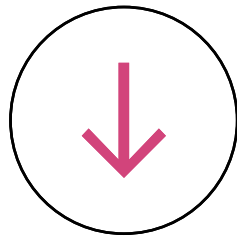


**STEP 4**  
Sheets are diffusion bonded under heat & pressure to form homogeneous, established alloys



**STEP 5**  
Support material is easily removed from nested parts without the need for specialized tools





“Using aluminum to  
lightweight vehicles

can save an enormous  
amount of carbon  
emissions and facilitate  
faster adoption of  
electrification of the  
entire transportation  
sector.”



**Ali Forsyth,**  
CEO and Co-founder, Alloy Enterprises

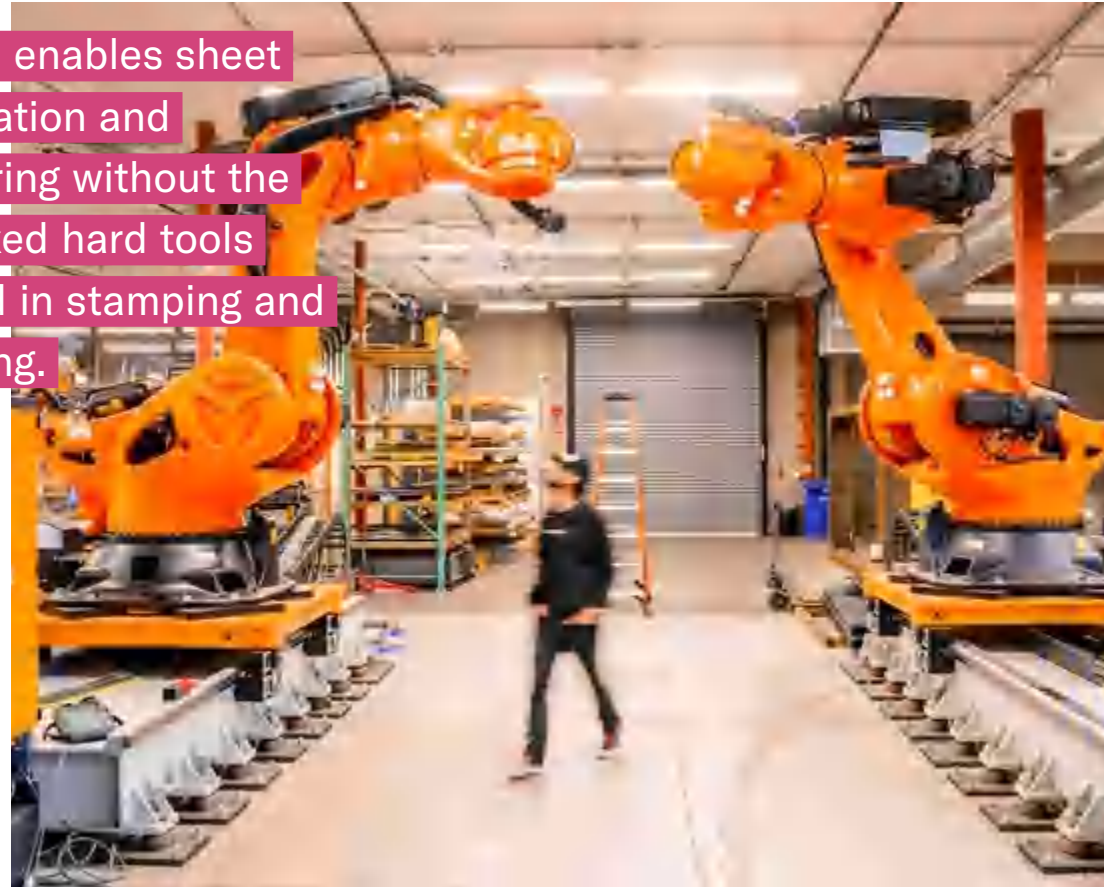




MACHINA LABS makes a robotic free-form metal formation system that can out-perform stamping and hydroforming processes in terms of features and material flexibility as well as short- and medium-run costs.

The company's system reduces scrap dramatically and speeds time to market for new products. It also eliminates the need to pre-build massive inventory of parts due to the costly change-over process to stamping other parts.

The system enables sheet metal formation and manufacturing without the need for fixed hard tools often found in stamping and hydroforming.



Rapid Freeforming Sheet Metal Technology can **reduce energy consumption from manufacturing sheet metal** parts by

**50%-90%.**



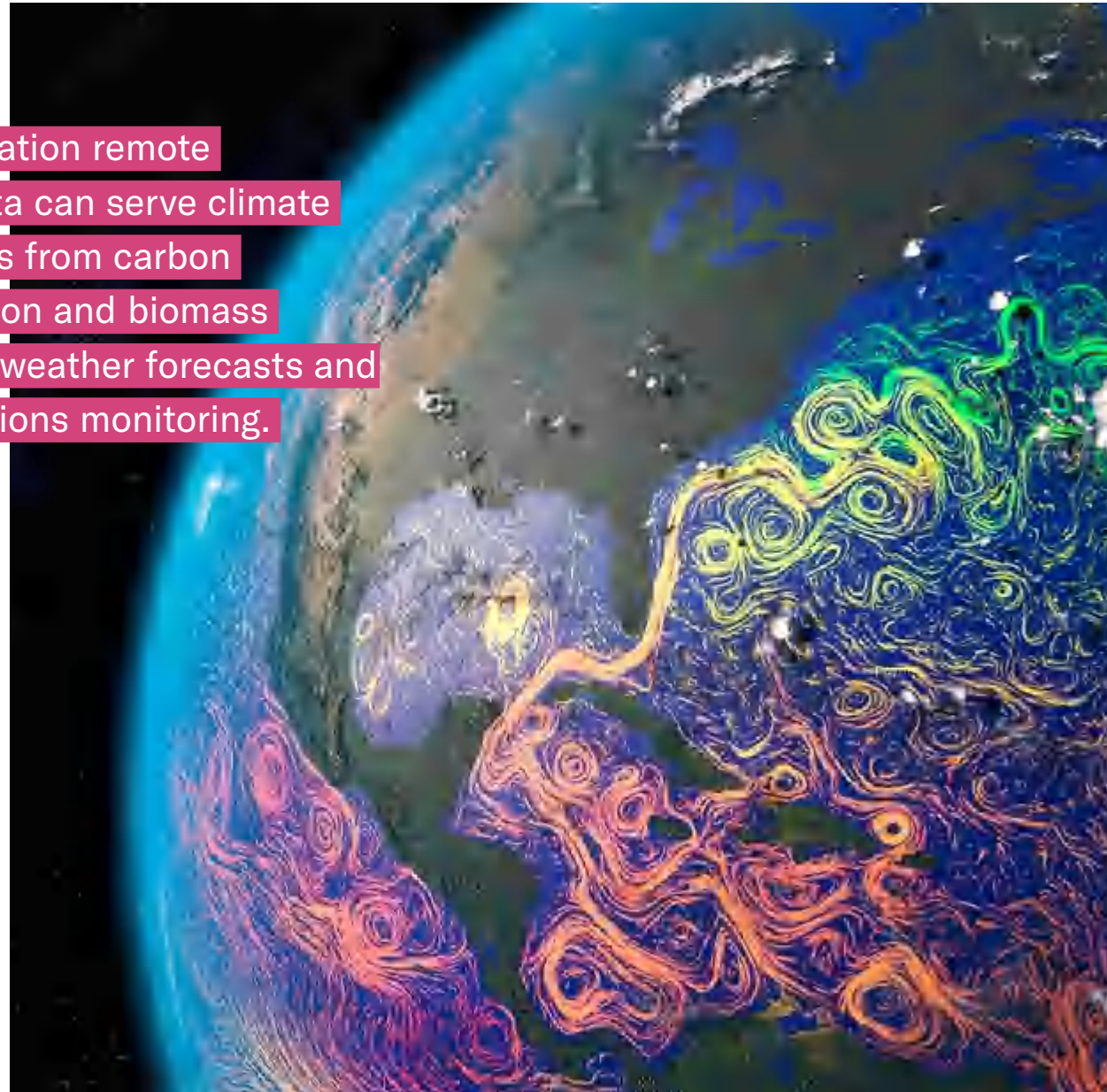
It is a drop-in replacement for current expensive and delicate polymers.

POLYSPECTRA makes advanced photo-polymers for stereo-lithography 3D printing of strong, high temperature, and bio-compatible parts. PolySpectra enables production-grade additive manufacturing which reduces substantial waste in manufacturing (near 100% material utilization), enables on-demand manufacturing at the edge for a drastically lower logistics footprint, and lower weight/higher strength parts for downstream energy and material savings.





Next-generation remote sensing data can serve climate applications from carbon quantification and biomass analysis to weather forecasts and GHG emissions monitoring.



“Working with Josh has been an extreme pleasure - his connections within the greentech community have opened a bunch of doors for us. His physics background and technical depth make him able to converse fluently across the myriad complexities of the work we do and connect those back to the business.”



Jonathan Dyer, Co-founder and CEO, Muon Space

**FOUNDERS**

Jonathan Dyer  
Paul Day  
Reuben Rohrschneider  
Dan McCleese  
Pascal Stang

**BACKGROUND**

Lyft, Google, Terra Bella, SpaceX, Loft Orbital, Apple, Google, Terra Bella/Skybox Imaging

**SOCIAL MEDIA**

@MuonSpace  
www.muonspace.com

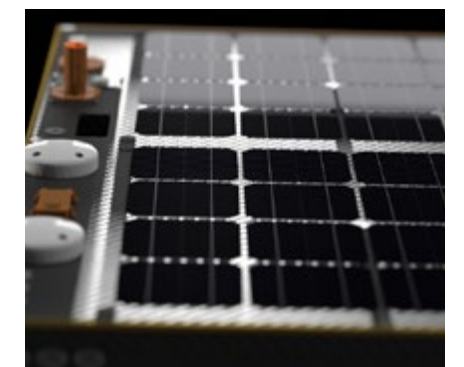
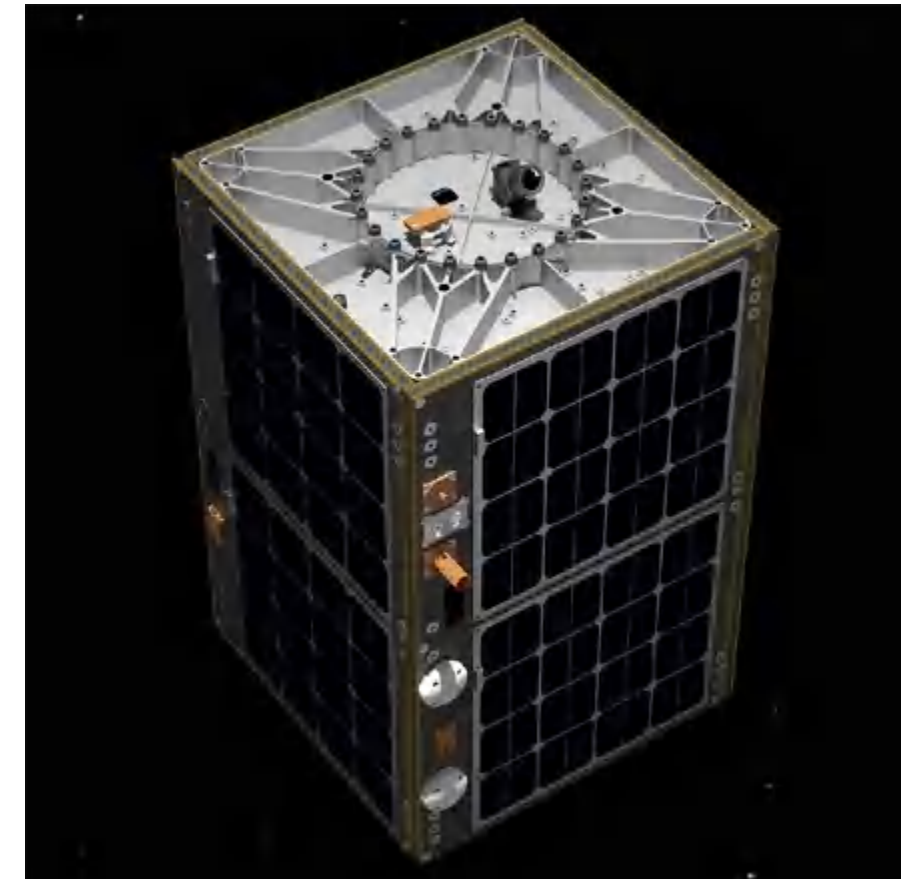
MUONSPACE is pioneering the world's most capable constellation of small satellites to deliver unmatched climate and weather insights. The Company is building a remote sensing constellation of multi-tenant, multi-modal satellite sensors to gather more types of climate and weather data at higher spatio-temporal resolution and quality than any existing system. Muon will enable customers to take unprecedented data-driven action on climate change by offering turnkey “mission as a service” (MaaS) contracts, providing end-to-end mission support from formulation through execution and delivery.

Mitigation and adaptation to avert catastrophic climate impacts will require a revolution in climate and weather data and forecasting that exceeds the capabilities of existing systems; today's satellite constellations gather data in limited modalities and are lacking in granularity and quality, creating an information gap for both industry and government.

The 2020 California wildfires cost upwards of

**\$12B**

with suppression cost accounting for \$2B alone.



---

“I hugely appreciate the general honesty and integrity we get from Josh, Abe and the whole Congruent family - people are such an important part of an investor relationship and I can't think of better humans to work with.”



**Jonathan Dyer,**  
Co-founder and CEO, Muon Space



# THRILLING

**FOUNDERS**  
Shilla Kim-Parker  
Brad Mallow

**BACKGROUND**  
Walt Disney, ABC News, Lincoln Center for the Performing Arts, JP Morgan, MBA at Harvard Pippin, Thrillist Media Group, Intuit, Atlassian

**SOCIAL MEDIA**  
www.shopthrilling.com  
@ShopThrilling

Thrilling promotes the reuse of clothing. Buying an item second-hand eliminates the environmental footprint of producing a new item and the waste of disposing of an old one.

36,594,129

gallons of fresh water saved.

564

metric tons of CO<sub>2</sub> avoided.

50,000

pounds of waste diverted from landfill.

Consumers wear an item (on average) only

7 times

before **throwing it out.**

Textile production and fashion account for

1.2 billion

tons of CO<sub>2</sub> annually.



**THRILLING** created a new consumer platform for secondhand and vintage clothing. At the core of the business is a curated two-sided marketplace connecting secondhand brick-and-mortar clothing stores with global consumers. Thrilling enables shop owners to present their inventory to a much broader audience than the foot traffic that would otherwise reach their storefronts.



# FOR DAYS

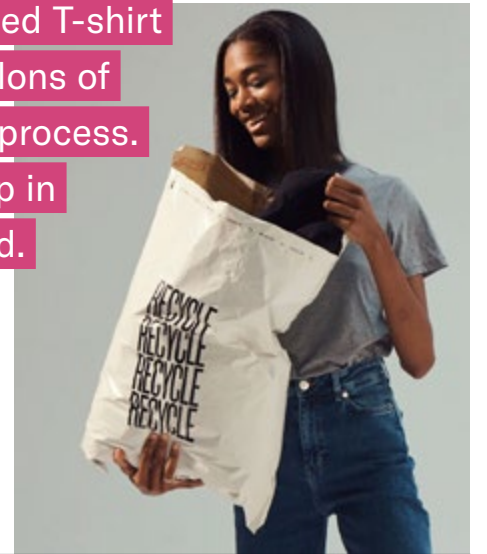
**FOUNDERS**  
Kristy Caylor

**BACKGROUND**  
Cerci Collective, Maiyet, Gap, Banana Republic, Guess

**SOCIAL MEDIA**  
@for\_\_days  
www.fordays.com

**FOR DAYS** is a closed-loop basics apparel platform leveraging deep team experience in fashion marketing, manufacturing, and supply chain. The team runs a closed loop marketplace and is executing a first-mover strategy to revolutionize the ownership model of everyday clothing.

A conventionally produced T-shirt consumes up to 700 gallons of water in the production process. 73% of all textiles end up in landfill or are incinerated.



A conventionally produced T-shirt consumes up to **700** gallons of water in the production process.

73%

of all textiles end up in **landfill or are incinerated.**

4,802,805

metric tons of CO<sub>2</sub> avoided.

1,588,147

pounds of **waste diverted from landfill.**

53,799,312

gallons of **water saved.**

# kinfield

**FOUNDERS**  
Nichole Powell

**BACKGROUND**  
Modern Citizen, Intuit

**SOCIAL MEDIA**  
@kinfield  
www.kinfield.com



**KINFIELD** is an outdoor-oriented personal care brand that makes effective, sustainable products—like their bestselling DEET-free bug repellent, Golden Hour, and their award-winning reef-safe sunscreen, Sunslow.

In addition to sourcing plant-based active ingredients vs. the typical petroleum derivatives, Kinfield is establishing sustainability principles as core to its ingredient, supply chain, and packaging strategies at the outset.

Kinfield launched its e-commerce site in 2019 and continues to grow revenues.

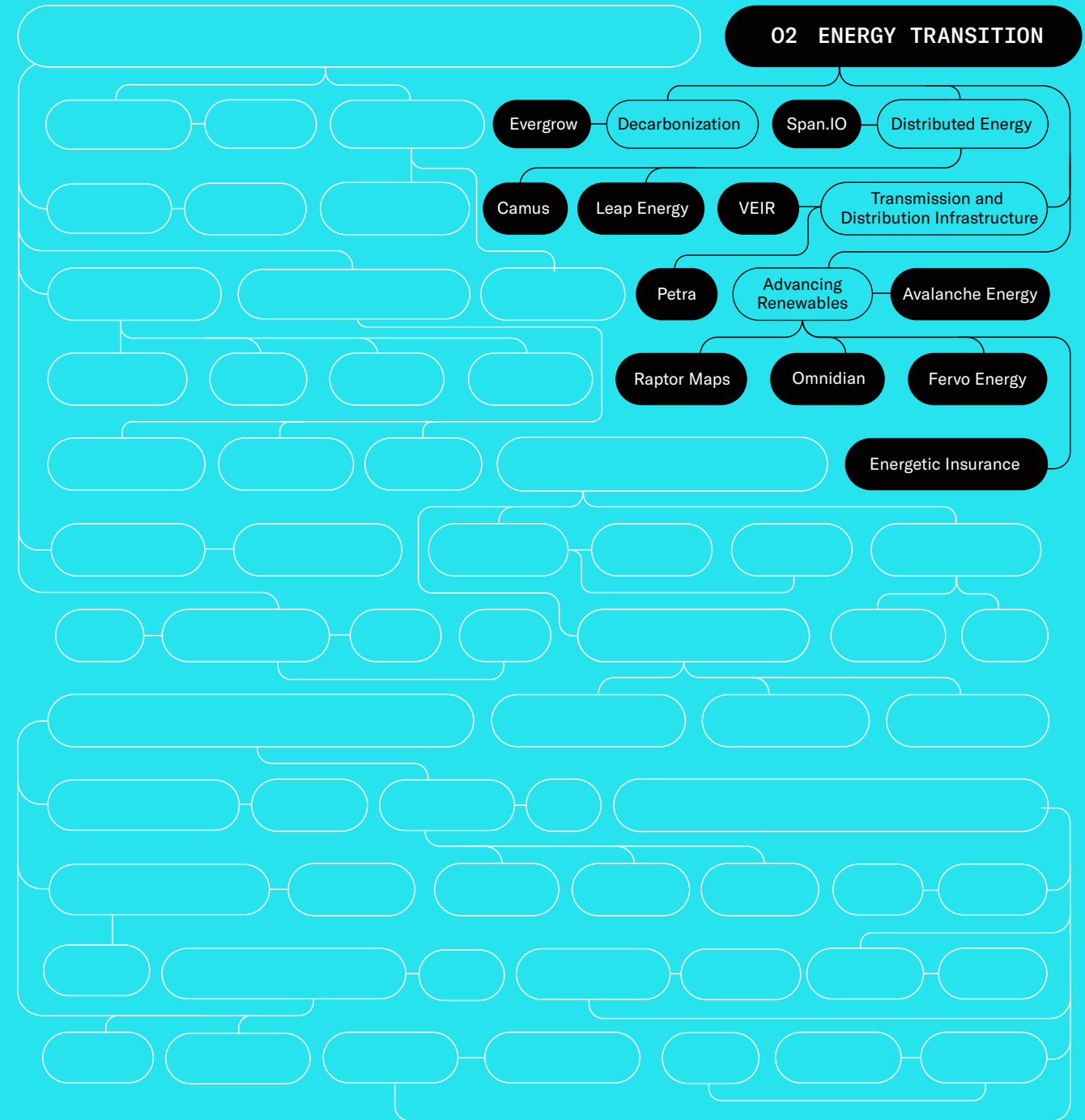


# ENERGY TRANSITION

We believe it is possible to transition the world to a clean, resilient energy system.

From grid operating and EV fleet charging software, to solar finance tools, to superconducting electric transmission lines, our portfolio companies and their technologies are enabling and accelerating the carbon-free energy transition.

## 02 ENERGY TRANSITION



<p>1</p> <p>company <b>unlocking decarbonization finance</b></p>	<p>2</p> <p>companies focused on <b>distributed energy resources (DERs)</b></p>	<p>3</p> <p>companies <b>revolutionizing the grid</b></p>
<p>1</p> <p>company <b>developing micro-nuclear fusion reactors</b></p>	<p>3</p> <p>companies <b>improving solar assets</b></p>	<p>1</p> <p>company developing <b>next gen geothermal electricity</b></p>

EVERGROW is accelerating clean energy finance by developing software that certifies compliance and expedites monetization for clean energy tax credits, unlocking billions of dollars in funding for decarbonization.

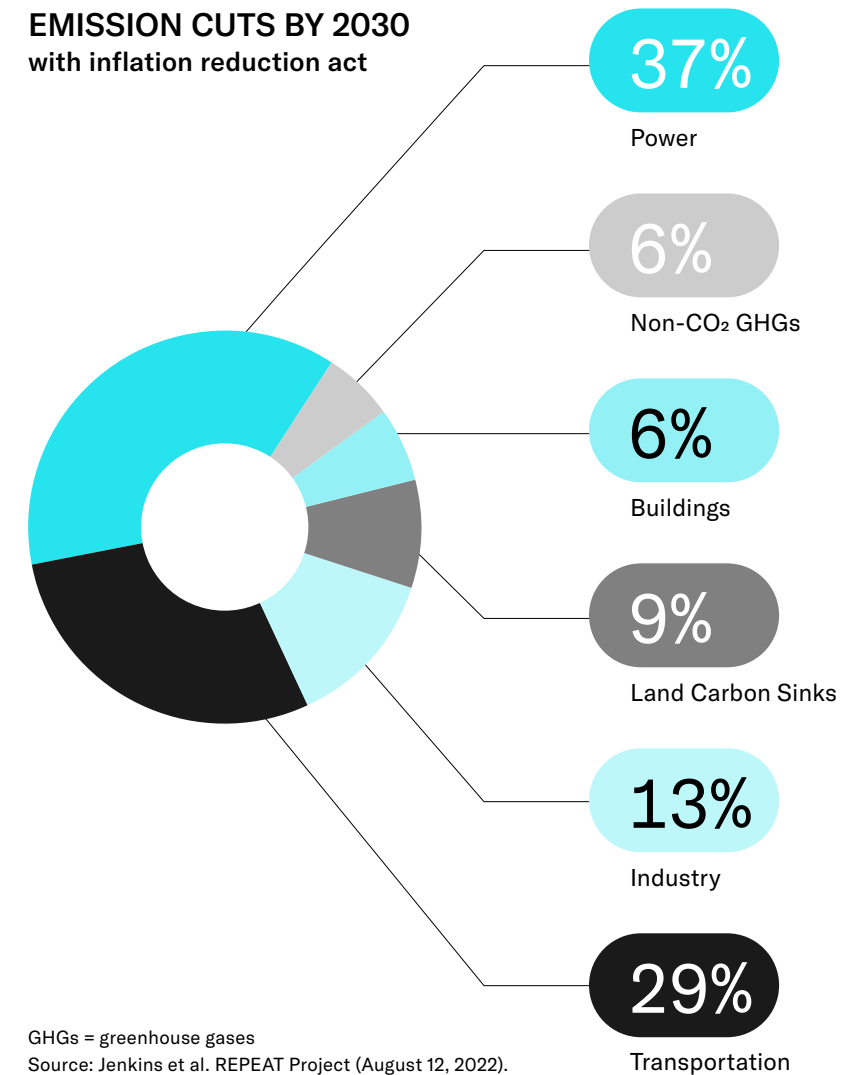


“Our mission has always been to help build and sustain a carbon neutral world. We're excited to help unlock the full value of the IRA for renewable energy and carbon capture projects.”



**James Richards,**  
Co-founder and CEO

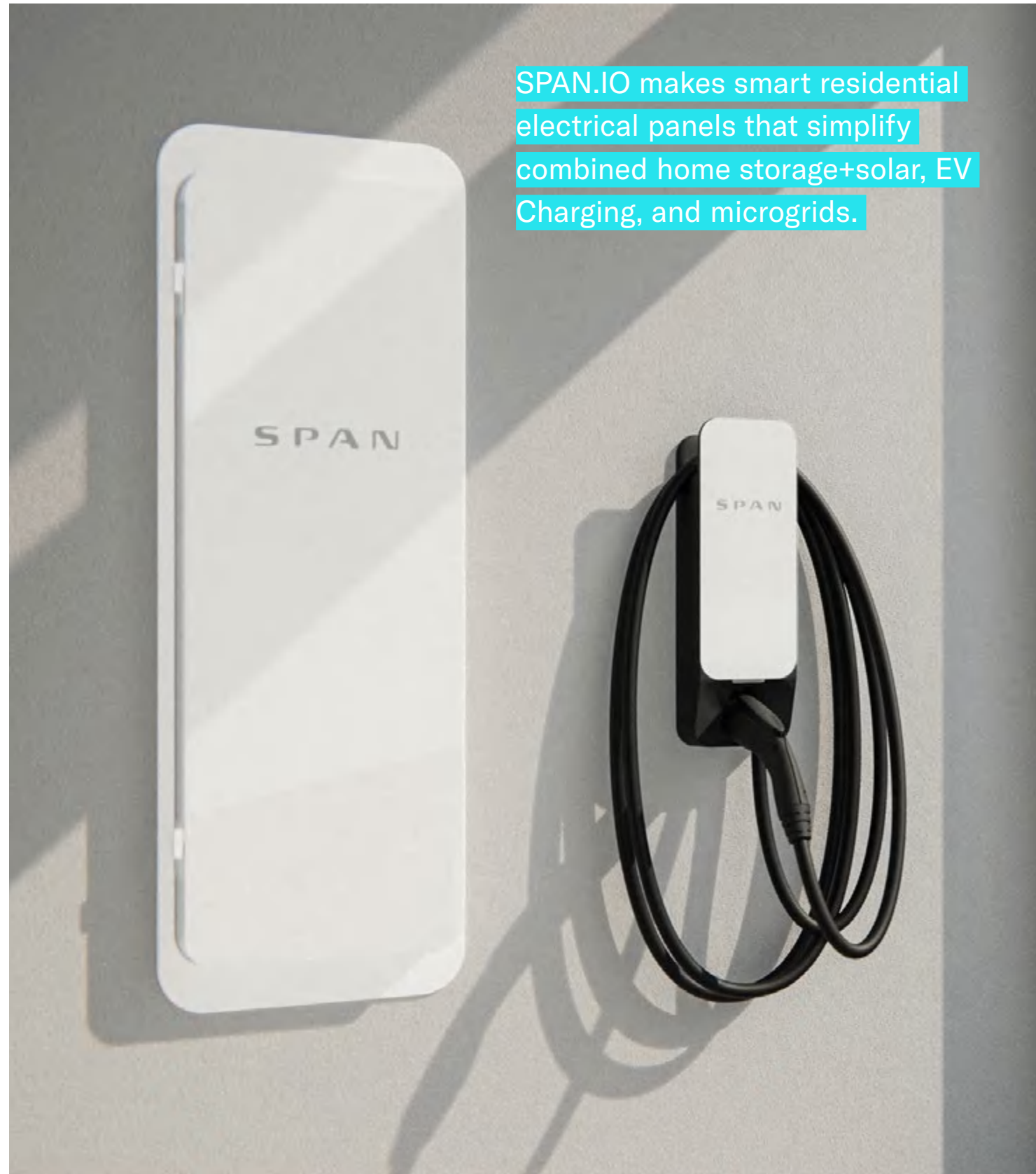
**EMISSION CUTS BY 2030**  
with inflation reduction act



GHGs = greenhouse gases  
Source: Jenkins et al. REPEAT Project (August 12, 2022).

New funding under the Inflation Reduction Act of 2022 for solar, wind, battery storage, carbon capture, hydrogen, sustainable aviation fuel, nuclear, and green manufacturing will spur massive deployment of decarbonization infrastructure, driven by lucrative tax credits such as the ITC, PTC, 45Q, 45U, 45V, and more. However, this new funding comes as tax credits with significant new compliance burdens. To qualify for full credit value, projects must meet and document requirements for prevailing wages and apprenticeship employment hours. To monetize the credits, projects must arrange complex tax equity deals that are laborious to negotiate and finalize. Evergrow makes it simple for the project value chain to comply with these new requirements and maximize tax credit value for the project. The company's software automatically certifies IRA compliance to catalyze project implementation. Evergrow then uses that certified compliance to underwrite credit values and standardize deal terms, giving new buyers confidence to access these high impact tax credits.





SPAN.IO makes smart residential electrical panels that simplify combined home storage+solar, EV Charging, and microgrids.

“SPAN’s award-winning electrification products empower the consumer as they electrify their homes to have greater performance, more convenience, and a drastically reduced carbon footprint.”



**Arch Rao,**  
Founder & CEO,  
Span.IO

SPAN’s solution enables whole home electrification by reducing the need for electric service upgrades when installing EV chargers, heat pumps, and energy storage. Additionally, labor costs associated with installing circuits and sub-panels stifle deployment of distributed storage systems. Span’s solution dramatically reduces storage installation costs, enables circuit level monitoring, allows customers to control household loads, batteries, EVs, and solar, and participate in wholesale energy markets. Drive, Span’s intelligent EV charger designed to seamlessly integrate with the Span panel, unlocks Level 2 charging for any home. Drive’s charge management technology dynamically ramps charging speed up or down based on real-time home energy use, enabling outputs up to 11.52 kW without pulling a service upgrade and maximizing energy efficiency.



Span is a key enabler of home electrification, and its systems are supported by significant subsidies contained in the IRA.



**Solar + storage systems reduce** GHG emissions for single-family homes by up to

**85%.**

**47**  
MWh of **storage** capacity enabled.

**25.3**  
MW of **solar** capacity enabled.

**5.8**  
metric **tons CO<sub>2</sub>** avoided.





Leap's simple, automated software solution enables easy access to demand response and other grid service programs that compensate energy users for reducing electricity consumption when the grid is strained.



**65,996**

Meters managed.

**\$110.4**

billion projected cumulative **US investment** in **DERs** between 2020 and 2025.

**665 MW**

of load **under management**.

**387 GW**

GW total **US DER capacity** by 2025.

**FOUNDERS**

Thomas Folker  
Remco Van Den Elzen

**BACKGROUND**

Enphase, SolCarib, Energie in Huis, MSc in Economics and Business Studies at University of Amsterdam, App Annie, Distimo, SST Software, MSc in Business Administration at Twente University

**SOCIAL MEDIA**

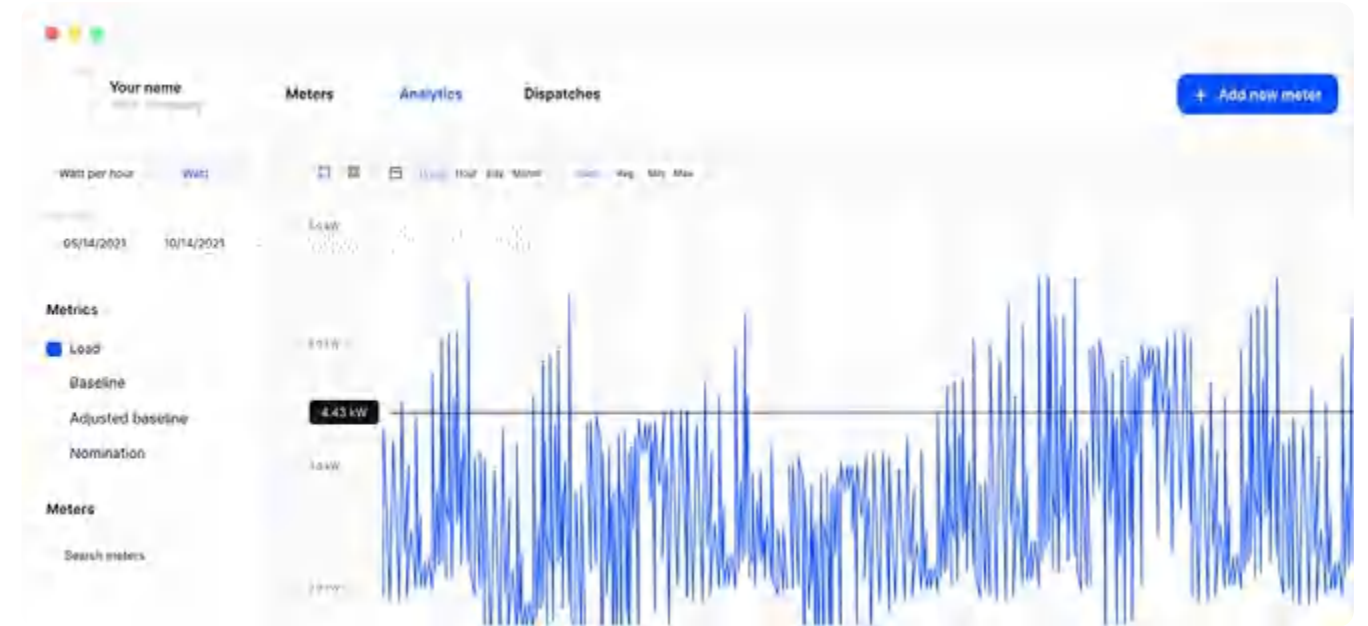
@leapdex  
www.leap.energy

LEAP is the leading platform for generating new value from distributed energy resources (DERs) through integration with energy markets. Leap partners with the developers and service providers of DERs - such as smart thermostats, electric vehicle chargers and battery storage systems

- to help them unlock new revenue streams, increase engagement with their end customers and achieve sustainability goals.

By aggregating across a wide array of flexible energy resources, Leap supplies sustainable, virtual power

plants to help balance the grid and reduce reliance on fossil fuel-based "peaker" plants. Leap is currently active in California, New York, Texas and New England energy markets with over 60 contracted partners representing 65,000+ authorized customer meters on our platform.



“Leap is accelerating the energy transition by harnessing the potential of flexible energy resources to support the grid on a day-to-day basis and enable our power system to accommodate higher penetrations of variable renewable energy sources.”



Thomas Folker,  
Leap Co-Founder  
and CEO



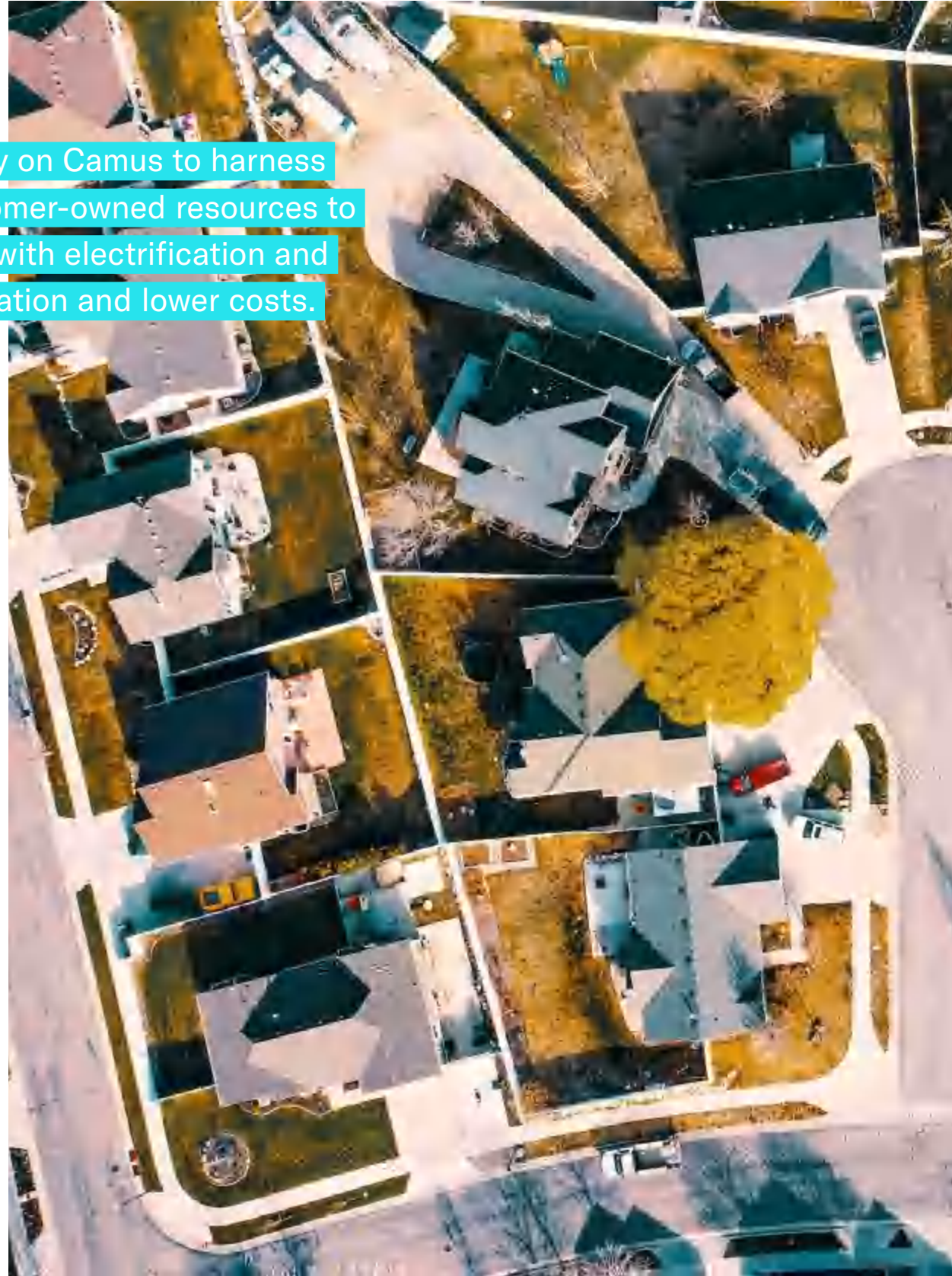
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“Congruent has been an investor since the very beginning of our journey and helped us navigate early pitfalls that could have ended Leap before it really began.”



**Thomas Folker,**  
Co-founder and CEO

Utilities rely on Camus to harness local, customer-owned resources to keep pace with electrification and decarbonization and lower costs.



**FOUNDERS**

Astrid Atkinson  
Cody Smith  
Michael Ryan

**BACKGROUND**

Google, E.piphany, Healthcare.gov, NetApp, Xerox

**SOCIAL MEDIA**

@CamusEnergy  
www.camus.energy



**Astrid Atkinson,**  
CEO & Co-founder,  
Camus Energy

“A zero-carbon grid is essential to meeting our planet’s climate goals and the grid itself can serve as a powerful tool for decarbonizing other energy sectors via electrification, especially transportation, buildings, and industry.”

CAMUS helps grid distribution system operators (DSOs) manage grids with renewable and distributed energy resources, balancing local resources in real time. Their solution supports controllable connected loads, flexible generation, and extensive use of sensing, controls, and distributed energy resources enabling high-penetration renewables on the grid.

The company’s responsive, redundant, real time, and connected central control layer is necessary for high penetration renewable generation. Its real-time control and orchestration paves the way for the transition to a clean, resilient, and economic grid.

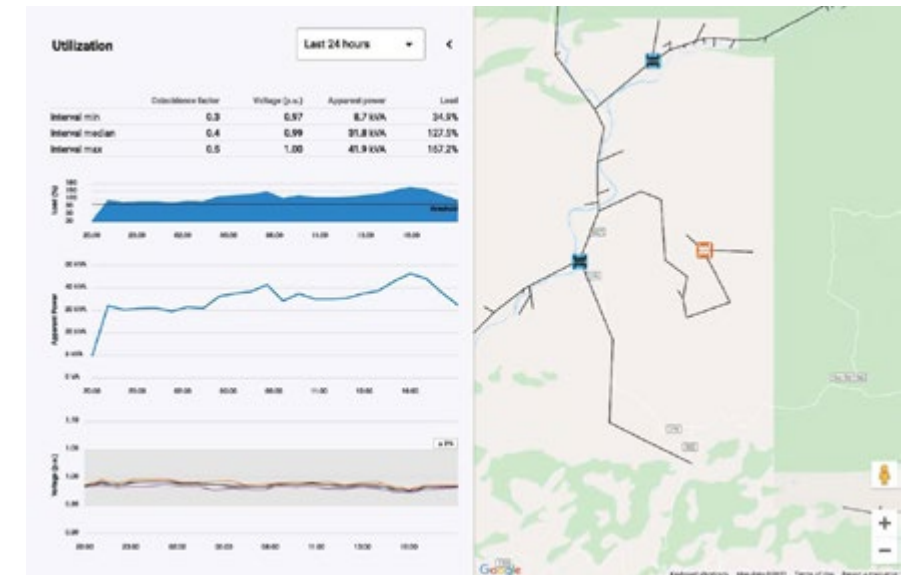
Camus is deployed at grid-scale with community utilities, serving

**2.36 million**

**meters** across their service territories.

**194**

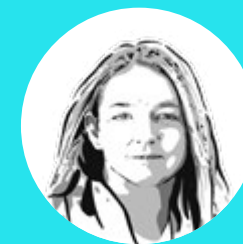
**metric tons CO<sub>2</sub>** avoided.





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“Congruent brings a depth of experience in the sustainability and cleantech space that is rare - they've learned from past cleantech efforts and provide a deeply informed perspective.”



**Astrid Atkinson,**  
CEO & Co-founder,  
Camus Energy

**FOUNDERS**

Kimberly Abrams  
Shivani Torres

**BACKGROUND**

NASA, Lockheed Martin, Ripcord, Brookings Institute, US House of Representatives  
Lemnos, Novonate, Madorra, Intuitive Surgical, Carbon, Stanford University

**SOCIAL MEDIA**

@petraundergrounding  
www.petra.cc



Petra's horizontal directional boring system will drastically reduce the cost of undergrounding utility infrastructure with its Ai1 (all-in-one), all-geologies platform.

“We need to be able to underground utilities more efficiently. Petra is the only company in the world that has made significant technological advancements to the current state of the art of **underground utility construction.**”



**Kimberly Abrams,**  
CEO

**Traditional undergrounding costs** an average of

**\$3.8M/mile.**



**Petra can cut the cost of undergrounding by**

**1/3 in 1/10th**

the time.

Communities need more utility tunnels to fortify their critical infrastructure in the face of climate change. Conventional utility tunneling machines are limited in the types of geologies they can bore through and this drives up the cost of construction, thus preventing communities from undergrounding their infrastructure at scale. Petra is taking a geology-first approach to solving this problem and is the only company in the utility tunneling industry innovating on new “trenchless” tools to drive down the cost of this type of construction. With their multiple patents and innovative product line, Petra is changing the economics of underground utility construction.

2022 to the construction market: a hybrid-powered trenchless “multi-tool” robot - called The Petra Platform - that uses swappable boring modules to reliably construct utility pipelines at a variety of diameters through all geologies, (including difficult ground types that typically drive up the cost of underground construction). It is a singular tool that: 1) replaces an entire product line at competing manufacturers like Vermeer or Toro, and 2) addresses multiple pipeline markets, including the multi-hundred billion dollar markets for water, sewer, fiber and power pipeline construction.

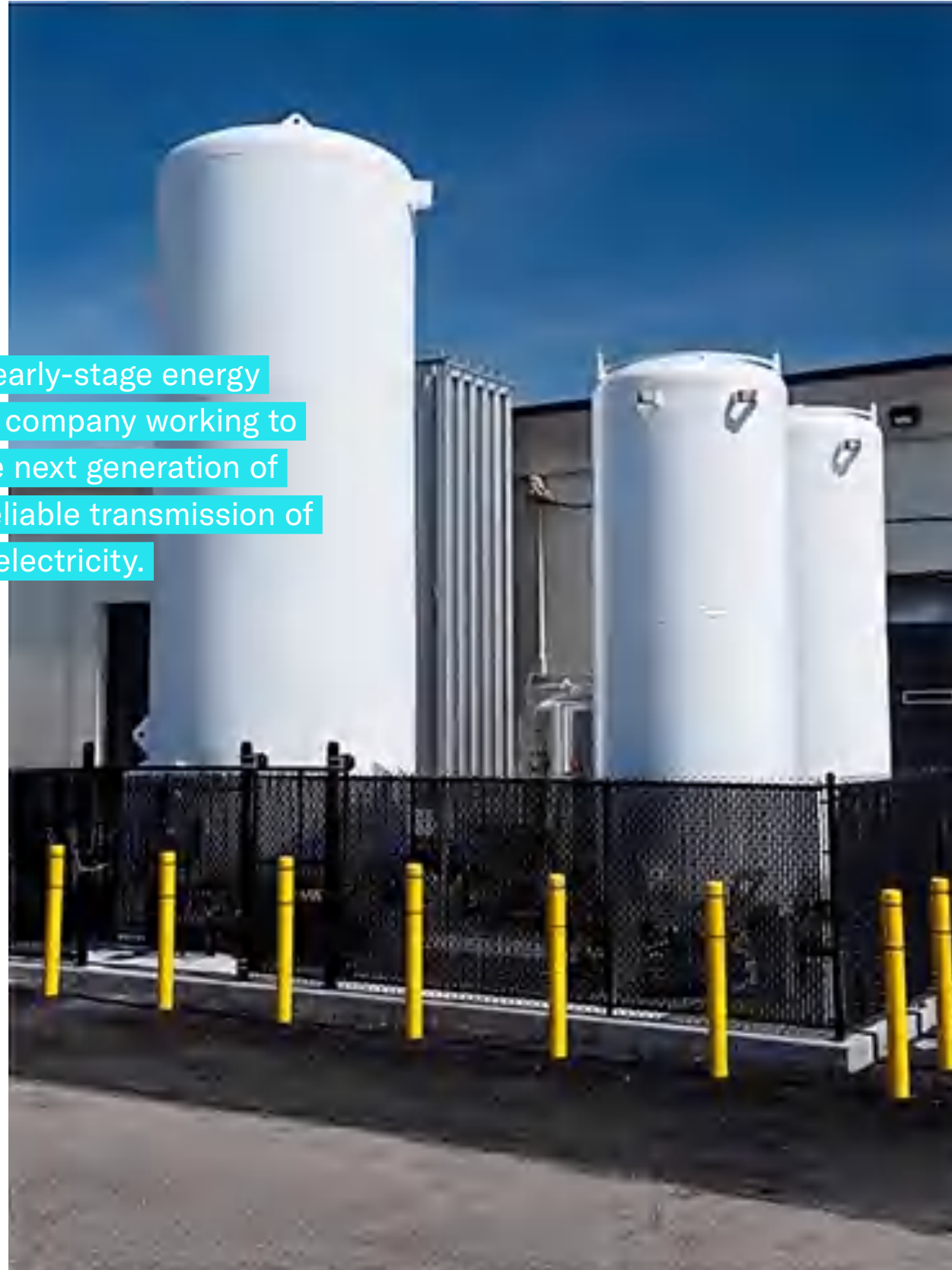
cost and lower-risk construction service and in their first year on the market, completed 28 crossings in the water, sewer and transmission/distribution industries. Petra crews are currently deployed on jobs globally and are scaling out their utility tunneling service across North America in 2023/2024. The company continues to innovate and is in late stages of development for their hard-rock boring module which will be integrated as the 6th module in the Petra Platform in 2023. This module will allow Petra to expand its service offering to geographies and customers who struggle in hard abrasive rock, like contractors serving PG&E in Northern California.

After three years of R&D, Petra introduced their flagship product in

PETRA uses their proprietary technology to provide a lower-



VEIR is an early-stage energy technology company working to develop the next generation of efficient, reliable transmission of renewable electricity.



**FOUNDERS**

Tim Heidel  
Adam Wallen

**BACKGROUND**

ARPA-E, Research Director of MIT Future of the Electric Grid Study, PhD, MS, M.Eng., S.B. at MIT, Breakthrough Energy Ventures, Launch NY, NanoTerra, Bio2Technologies, GEO2 Technologies, MBA at State University of New York at Buffalo

**SOCIAL MEDIA**

[www.veir.com](http://www.veir.com)



**Adam Wallen,**  
Co-founder

“The company’s technology is designed to help meet our planet’s clean energy goals and satisfy growing energy demands by efficiently delivering up to 10 times the amount of electricity from renewable sources as traditional transmission.”

VEIR uses conventional high temperature superconducting tapes in a unique cryogenic cable assembly using a novel cooling system that enables transmission-level power over distribution-scale infrastructure. This alleviates significant electric system pain points like congestion, siting, and renewable integration as well as resilience.

This transmission technology also unlocks the potential for renewable sources like solar and wind to power areas hundreds of miles from where the electricity is needed. An ancillary benefit to such efficient transmission is increased capacity factor through geographic diversification of renewables. The company is currently building its first field demonstration systems and is in discussions on pilot projects.



CONVENTIONAL TRANSMISSION



VEIR TRANSMISSION





AVALANCHE is pursuing conventional and aneutronic fusion pathways which generate minimal radioactive waste.



“Shifting fossil-fired thermal baseload electricity generation to a carbon free fully dispatchable source will enable higher renewable penetration while greening the grid. To achieve that, we are creating fusion power you can hold in your hand.”



**Robin Langtry,**  
Co-founder and CEO

**FOUNDERS**

Robin Langtry  
Brian Riordan

**BACKGROUND**

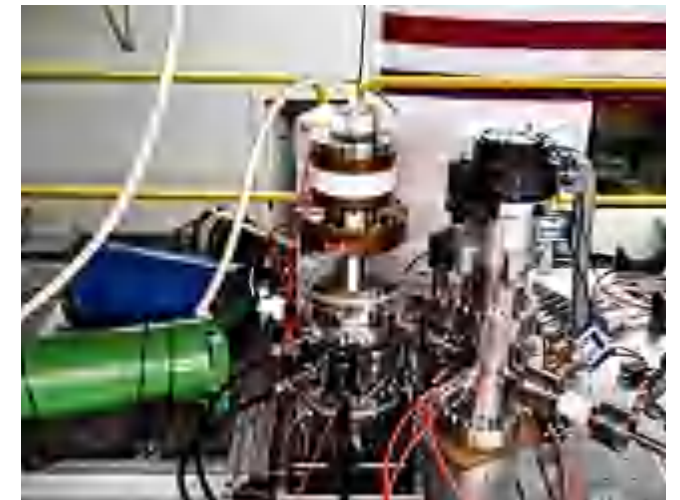
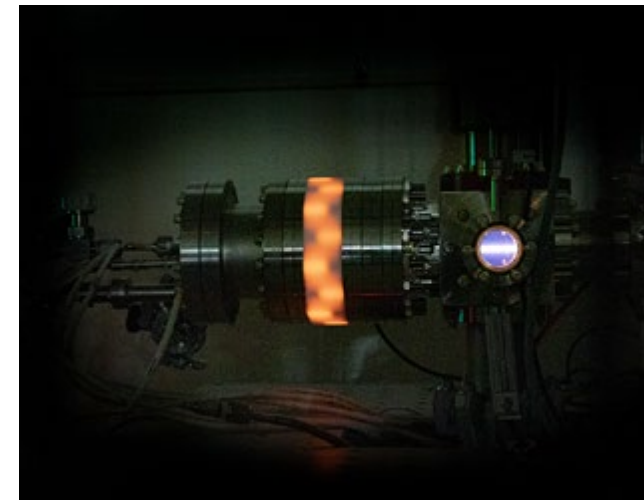
Blue Origin, Boeing, ANSYS, Bachelors of Engineering, Masters in Aerospace Engineering and Research Assistant at Carleton University, PhD in Mechanical Engineering at University of Stuttgart, Technip

**SOCIAL MEDIA**

@AvalancheFusion  
www.avalanche.energy

AVALANCHE ENERGY is developing micro-fusion reactors capable of generating kW-levels of low-cost, carbon-free, dispatchable power. The team has been designing, building and testing micro-fusion reactors that are small enough to fit on a desk since 2021. The reactor’s small form factor enables rapid development cycles at

relatively low cost - a revolution in the burgeoning nuclear fusion industry. Their ultimate target is aneutronic fusion which is difficult to achieve with conventional techniques at small modular scale. The Company’s core IP combines two established physics approaches to dramatically lower the energy required to achieve fusion.





RAPTOR MAPS is trusted by hundreds of solar companies and is now active in 48 countries around the world.

RAPTOR MAPS, founded by MIT engineers, is building software solutions that enable the solar industry to scale and meet global climate goals. Its flagship product, Raptor Solar, enables data-driven asset management and an increased rate of return across utility-scale and C&I portfolios. They allow customers to scale with its industry-leading digital twin that enables high-value workflows from the fusion of equipment records, inspection analytics, in-field sensor information, and customer input. Raptor Maps has provided analytics for over 80 GW of solar PV across 48 countries. Their software has detected over 5 million anomalies, correlating to nearly 70 million MWh in incremental production and 50 million tons of GHG emissions avoided throughout the lifetime of inspected assets.

In 2022, they significantly leveled up their product suite, building on their industry-leading data model. While upgrading the user experience for their existing products, including significant improvement to the mobile app, they now offer high-leverage downstream workflows including warranty claim submission, benchmarking, work orders, and equipment records.



**FOUNDERS**

Nikhil Vadhavkar  
Eddie Obropta

**BACKGROUND**

Grad student in Bioastronautics, Aeronautics, and Astronautics at MIT, SpaceX, RompApparel, Manifold Studios

**SOCIAL MEDIA**

@RaptorMaps  
www.raptormaps.com



**Nikhil Vadhavkar,**  
Co-founder and CEO

“Congruent provides unique insights that allow Raptor Maps to make large strides toward our ultimate vision of enabling solar to scale. Abe’s understanding of the solar value chain as well as his ability to distill strategic conversations into clear, impact-filled action is invaluable when operating in a complex and integrated industry like the solar industry.”

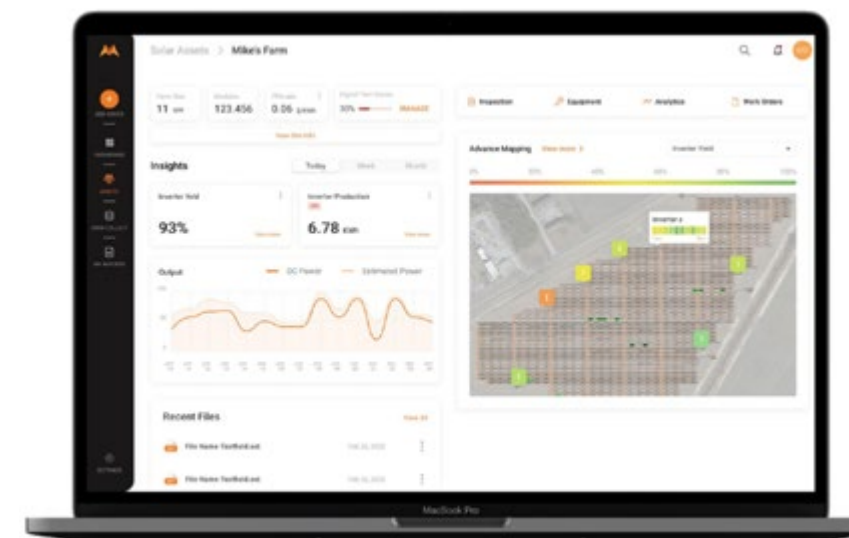
**48,998,382**  
metric tons of **CO<sub>2</sub> avoided.\***

**68,438**  
MW of **energy managed.**

**69,109,143**  
MWh of **incremental solar generation.**

Increasing total output of existing solar assets by just 1%-2% would add  
**10-20 TWh**  
of **global annual clean energy production.**

\*includes asset lifetime estimates





OMNIDIAN typically increases the output of existing solar installations by 1% - 5%+ through ongoing fault monitoring and remediation.

OMNIDIAN provides outsourced performance assurance services for solar and storage systems in the United States. The company monitors assets, provides preventative and corrective maintenance, reporting, and a performance guarantee.

Omnidian uses machine learning and advanced algorithms to continuously identify and categorize performance issues, optimize operations and provide peace of mind for system owners. As more solar assets are deployed and existing systems age, optimizing system output will be increasingly important.

The company has over a GW under management and the largest market share in the sector. Customers include institutional capital providers, residential and commercial developers, commercial owners, and homeowners (through channel partners).



**FOUNDERS**

David Kenny  
Mark Liffmann  
Raymond Szytko

**BACKGROUND**

Sunrun, Metrus Energy, Fotowatio Renewable Ventures, Navigant Consulting, MS in Mechanical Engineering at Stanford, Environmental Entrepreneurs, Clean Power Research, EnergyG2, SunPower, Solar Depot, JD at Harvard and MS in Economics at Harvard, KPMG, RS Consulting, Bank of the West, Washington Mutual Bank, First Chicago NBD Corporation, MBA at UChicago

**SOCIAL MEDIA**

@omnidian  
www.omnidian.com

"Every 1% of solar panel optimization translates into an enormous amount of GHG emissions savings."



**Mark Liffmann,**  
Co-founder and  
CEO



**2,792,223**  
MWh of **energy produced** by solar under management.

**132,215**  
MWh of **incremental solar generation** due to Omnidian.

**1,978,797**  
metric tons of **CO<sub>2</sub> avoided** by systems under management.

**97,950**  
metric tons of **CO<sub>2</sub> avoided** by improved system performance.



“Congruent Ventures is, hands down, the premier early stage investor for companies in sustainability and climate. No other investor has a team as thoughtful and experienced or as well connected in the industry.”



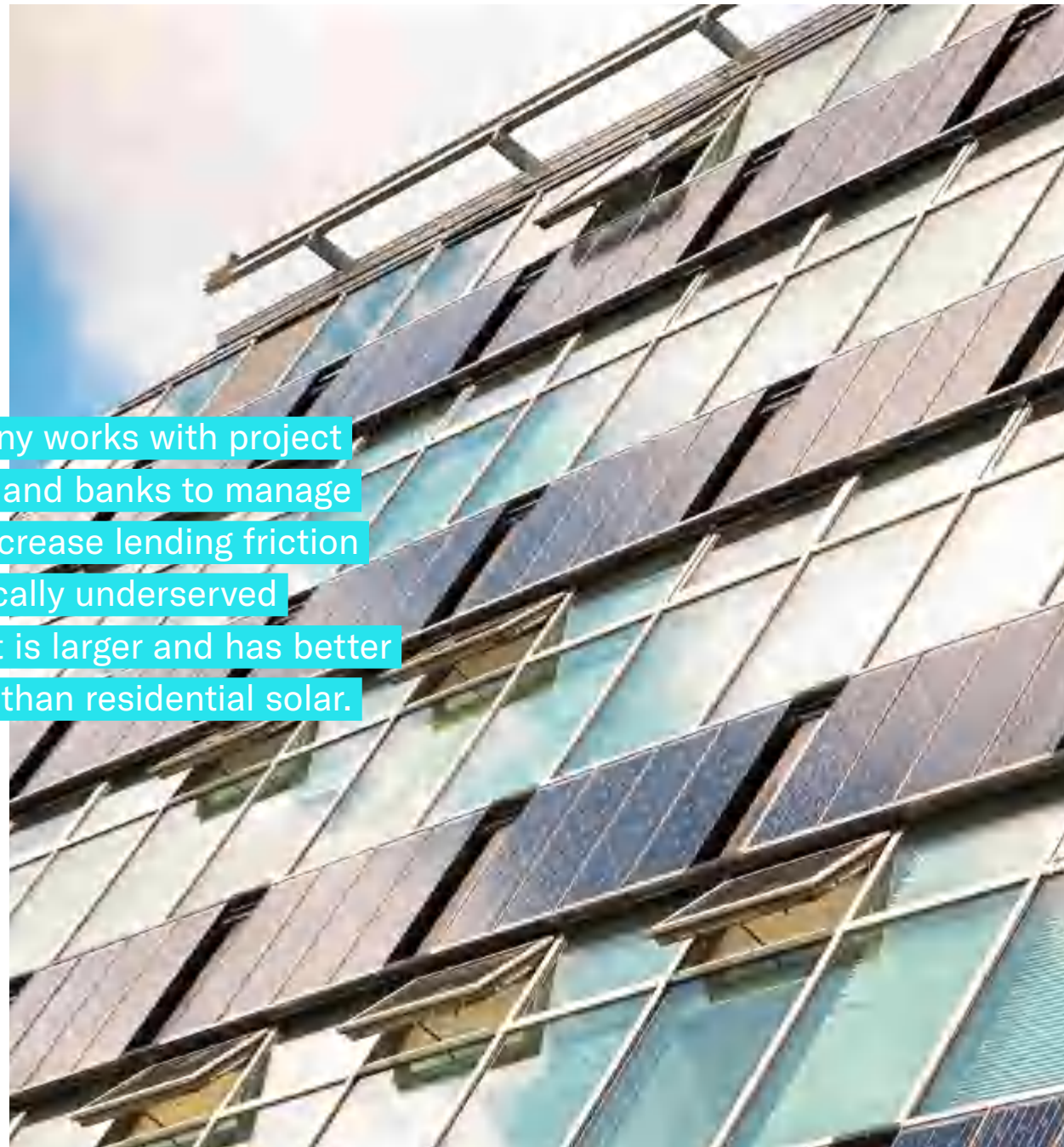
**Mark Liffmann,**  
Co-founder and CEO

ENERGETIC INSURANCE enables lower costs of capital for renewable and energy efficiency projects that include un-rated and sub investment grade corporate energy buyers.

Energetic launched their EneRate Cover Credit insurance policy three years ago and is experiencing

significant traction. Because the policy is backed by a top 5 global reinsurer, it provides predictability in project cash flows so developers and lenders have more confidence in their expected returns. This can boost lenders' ability to deploy more capital to more projects and potentially even reduce bank reserve requirements.

The company works with project developers and banks to manage risk and decrease lending friction to a historically underserved market that is larger and has better economics than residential solar.



**FOUNDERS**

Jim Bowen  
Jeff McAulay

**BACKGROUND**

Lecturer at Olin College of Engineering, Vertex Energia, MassCEC, JD at Suffolk University Law School, ADL Ventures, EnerNOC, Fraunhofer USA, Research at MIT and Boston University

**SOCIAL MEDIA**

@Energetic\_Insur  
www.energeticinsurance.com



**Jim Bowen,**  
Co-founder and CEO

“Congruent Ventures continues to actively support us. We could not have asked for a better partner to help us on this journey.”



**34,600**  
metric tons of **CO<sub>2</sub> avoided.**

**103,500**  
MWh of **energy generated** by company-enabled systems.

**\$88 million**  
of **financing enabled.**

**44.9**  
MW of **solar installed.**

**145 GW**  
of untapped **solar potential on US C&I rooftops.**

**\$500B**  
of market potential for **distributed energy infrastructure.**



**FOUNDERS**

Timothy Latimer  
Jack Norbeck

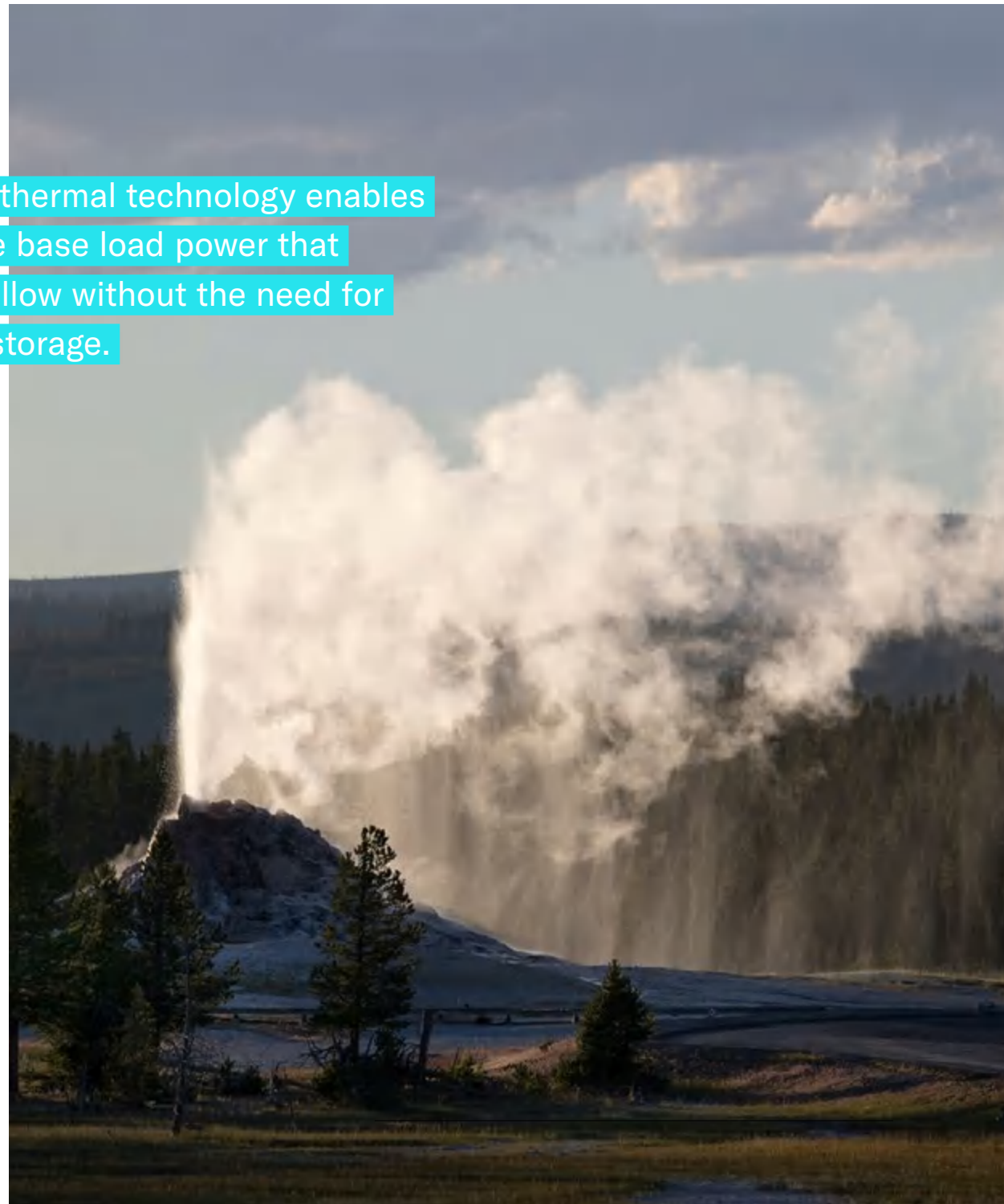
**BACKGROUND**

Biota Technology, Boston Consulting Group, BHP Billiton, Ford, MS in Energy Track of Environment and Resources at Stanford, MBA at Stanford, Berkeley Lab, USGS, Stanford PhD, Colorado School of Mines MA, Calpine, Idaho Nat'l Labs

**SOCIAL MEDIA**

@fervoenergy  
www.fervoenergy.com

Fervo's geothermal technology enables carbon-free base load power that can load-follow without the need for additional storage.



6-9 GT CO<sub>2</sub>

**reduction potential by 2050** by increasing geothermal power from 0.34% to 2.6-2.8% of global capacity.

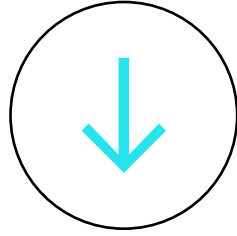
FERVO ENERGY is developing carbon-free baseload geothermal electricity generation technology, leveraging unconventional oil and gas technologies to reduce costs and increase viable thermal reservoir access and legacy field repowering.

Today, global geothermal electricity generation is only 15 GW (0.3% of global capacity). Fervo expects to expand the thermal and geographical window for usable geothermal resources at a reasonable LCOE with the ability to provide 24/7 load-following generation + storage to the grid a \$100B+ market.

Fervo's geothermal technology enables carbon-free base load power that can load-follow without the need for additional storage. It will help integrate a higher percentages of intermittent generation like wind and solar into the grid by assisting with generation shaping and ramp rates without the need for fossil fuel burning spinning reserves.

Fervo is signing power purchase agreements competitive with fossil sources.





“We are grateful for the many hours Congruent Ventures dedicates to supporting us. Startups need much more than just money from investors.”



**Tim Latimer,**  
Co-founder and CEO



Partnership  
with Google



The company signed its first PPA with Google to power its data centers and infrastructure throughout Nevada, including its Cloud region in Las Vegas and is currently contracting with other utilities and project partners for future projects. As part of this agreement, Fervo is partnering with Google to create AI and machine learning that will improve productivity and responsiveness in changes to demand.

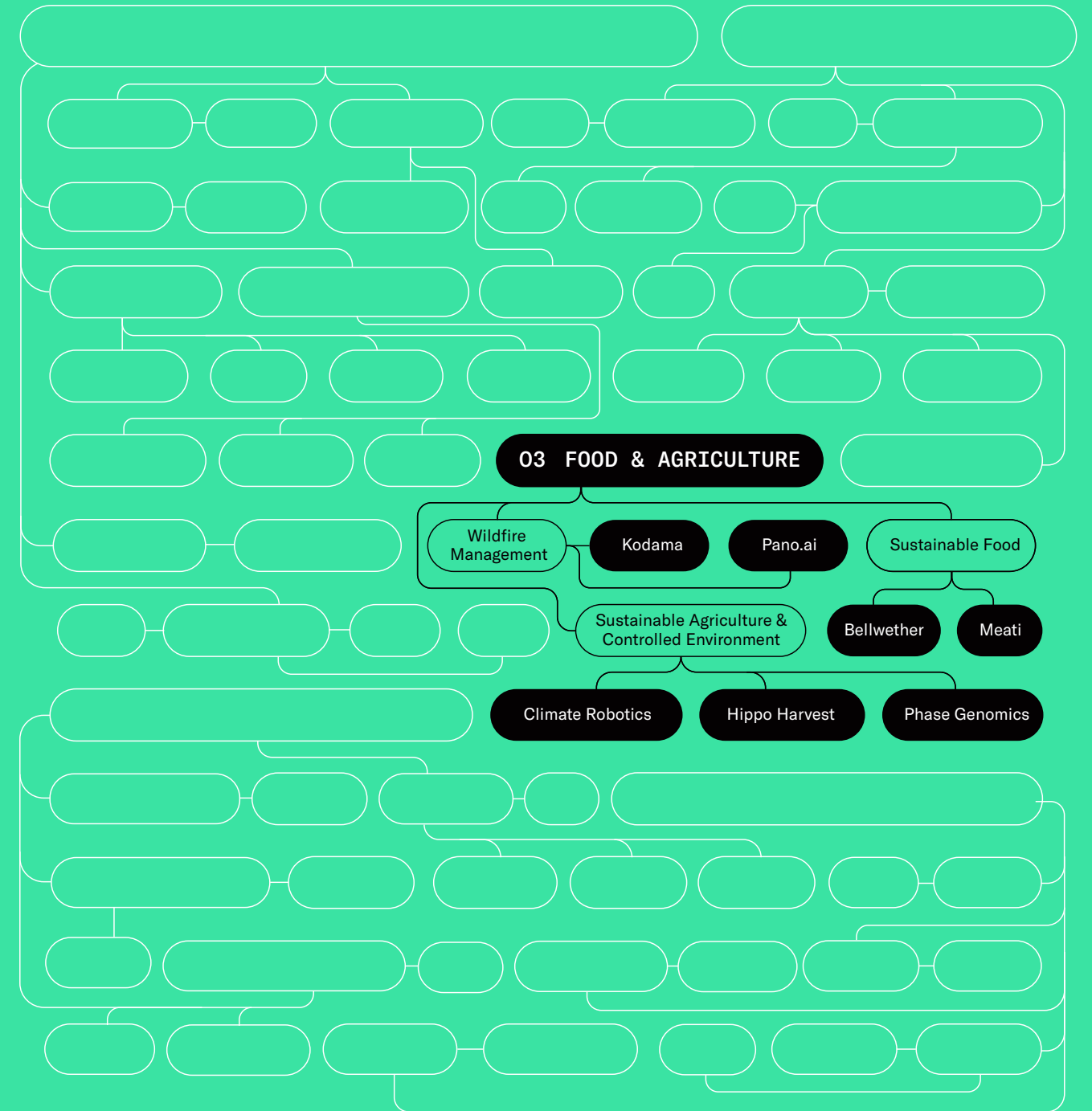


# FOOD & AGRICULTURE

Our current food system creates enormous amounts of food waste and is responsible for almost a third of global GHG emissions. By 2040, the planet will need to feed an additional billion people and do so with ever less per capita arable land.

At the same time, demand for sustainably grown food that doesn't compromise taste or experience is soaring.

Our portfolio companies are meeting this demand and improving our food and agricultural systems at scale.



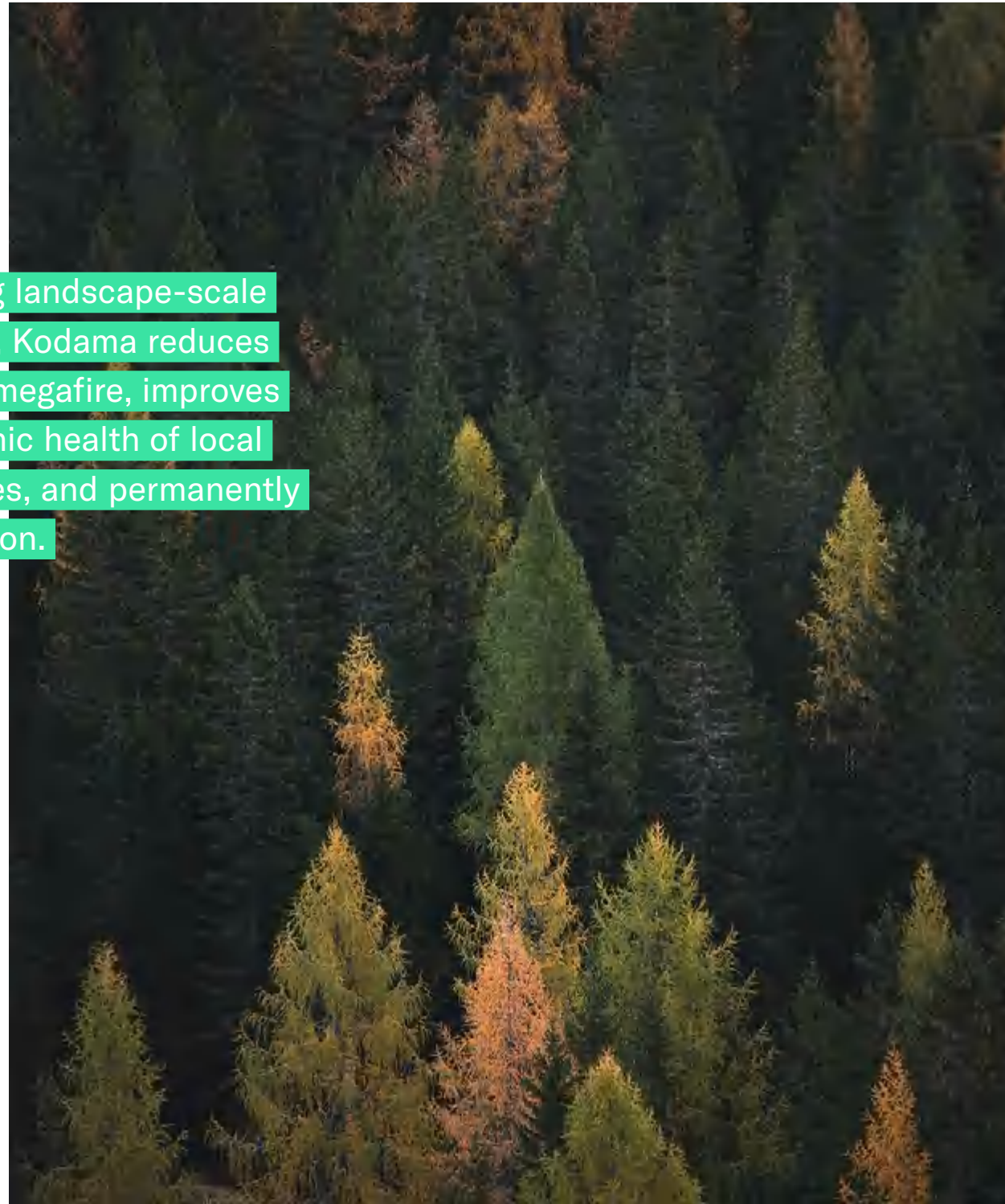
2 companies **preventing mega-wildfires**

1 company **making "meat" from fungi**

1 company **curtailing coffee carbon cost**

2 companies in **robot-enabled agriculture**

1 company focused on **AI/computational genomics**



By enabling landscape-scale restoration, Kodama reduces the risk of megafire, improves the economic health of local communities, and permanently stores carbon.

The **fatal injury rate for loggers** is more than **30X** the rate for all U.S. workers.

**30X**

**FOUNDERS**

Merritt Jenkins  
Matthew Verminski

**BACKGROUND**

Pattern Ag, Plenty, MIT Sloan, Carnegie Mellon, Dartmouth, Desktop Metal, Amazon Robotics, Kiva Systems, mimio, MIT

**SOCIAL MEDIA**

www.kodama.ai

“Mega-fires, fueled by climate change, need to be mitigated before they even start. We’re on a mission to do just that.”



**Matthew Verminski,**  
Co-Founder

KODAMA SYSTEMS is developing and testing approaches for automated thinning technology focused on forest health and reducing the risk and carbon emissions of catastrophic forest fires. As shown in demonstration forests in California, better forest management can mitigate or even eliminate uncontrolled mega-fires. The recent growth of such mega-fires is a combination of climate change and human suppression of

smaller fires over the last century. This effect is manifesting itself not just in historically fire prone regions like California’s inland forests, but in other regions’ temperate and boreal forests as well. Reducing forest fires is equivalent to removing millions of cars from the road not to mention the cost to society from negative health effects.

Kodama Systems is building a sustainable, carbon-negative forestry

operation capable of restoring more than 1M acres of western forest per year. Its automated forestry machine is being tested in the foothills of the Sierras. Kodama plans on measuring three sustainability metrics: acres of forest thinned, wildfire CO<sub>2</sub>e tons avoided from thinning, and CO<sub>2</sub>e tons permanently removed.

Bringing automation to forest management can improve safety and longevity to the most dangerous jobs in the United States.



An average of

**2.3 GT of CO<sub>2</sub>e**

are released every year from wildfires, trending upward year-on-year.



“Our mission is to dramatically reduce the spread of wildfires by significantly improving detection and response time. By doing so, we can help prevent the release of millions of GHG emissions over time.”



**Sonia Kastner,**  
Co-founder and CEO

The Company's rapid wildfire detection system uses AI-enabled 360-degree cameras to create a real time alert system integrated with third party satellite and sensor data.



**FOUNDERS**

Sonia Kastner  
Arvind Satyam

**BACKGROUND**

Juul, Nest, Whistle Labs, Alta Devices, MYC Economic Development Corporation, BCG, MBA from Stanford, AB in Physics from Harvard, OzoneX Ventures, CoMotion, World Economic Forum, Cisco, Masters in Finance and International Finance from UNSW

**SOCIAL MEDIA**

@Pano\_AI  
www.pano.ai



**Sonia Kastner,**  
Co-founder and CEO

“With most wildfires detected by bystanders and reported via 911, it can take hours to detect a fire, verify its exact location and size, and dispatch first responders. Pano’s mission is to dramatically reduce the spread of wildfires by significantly improving detection and response time.”

PANO.AI is transforming disaster preparedness with an AI-enabled platform for detecting and mitigating climate related events, starting with wildfire detection and response management.

Climate change has made climate-related disasters like wildfires more frequent and extreme. These climate impacts have left businesses and society woefully underprepared, causing over \$210 billion in damages in 2020. Preventing the spread of mega-fires would avoid the release of millions of GHG emissions into the atmosphere.

**California wildfires emitted**

**12 million**

metric **tons of CO<sub>2</sub>** in 2020,  
equivalent to

**~24 million**

cars a year.





From day one, Meati Foods TM has looked to nature for solutions to unlock its power to help sustain our communities.



**FOUNDERS**

Justin Whiteley  
Tyler Huggins

**BACKGROUND**

PG&E, Encon Services, PhD in Mechanical Engineering at University Colorado, US Department of Defense, Agua, Full Sustainability Consulting, US Forest Service, PhD in Civil and Environmental Engineering and MS in Environmental Engineering at University of Colorado

**SOCIAL MEDIA**

@meatifoods  
www.meati.com

Founded in 2017, Meati Foods™ is working to unlock a more delicious, nutritious, equitable, and sustainable food system for everyone. Eat Meati™, the debut product line from Meati Foods, features cutlets and steaks made from mushroom root, a whole-food protein cultivated with a modernized version of ancient and natural processes that have helped preserve Earth's ecosystems for

millennia. After record sellouts online and pilot retail success, Eat Meati is now available in all Sprouts Farmers Market locations nationwide – a major step toward a planned national, omni-channel footprint by late 2023.

Meati Foods' products made from mycelium is animal-free, promising to have remarkably lower carbon, water and land, footprints than its

animal-based counterparts while offering rich nutrition and taste. It is the hope of Meati that by delivering innovation like its Mega Ranch – able to grow a teaspoon of spores into the same amount of food generated by hundreds of cows in just a few days – Meati Foods will challenge the current food system and its ability to make sustainably produced food more accessible.

“As Meati scales and launches nationally, we are not only putting governing mechanisms into place to authentically embed sustainability into our value chain and bring life to our mission, but **the ESG strategy we are developing will also outline the metrics by which we will track our priority focus areas** such as GHG emissions, water and energy use, etc.”

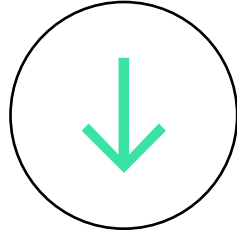


**Justin Whiteley,**  
CTO & Co-Founder,  
Meati Foods

“Meati was founded on a commitment to **evidence-based solutions that are good for people and the planet,** and we are excited to create a category of food that delivers for people without compromise or what is finally an easy choice.”







“Our belief that nature already has the answer to many of today’s challenges allowed us to unlock a new food with Meati at a time when consumers are demanding something different and better. Meati delivers an unparalleled food with its taste, texture, nutrition, and purity, while being sustainably made.”



**Tyler Huggins,**  
CEO & Co-Founder,  
Meati Foods



“Working with Congruent is proof that shared-values partnerships are not just possible but a powerful key to transforming our food system.”



**Catherine Musulin,**  
Head of Sustainability,  
Meati Foods





The company looks at sustainability holistically and will track its use of water, fertilizer, pesticides, energy, carbon, food waste, and land as its operations scale.

**FOUNDERS**

Eitan Marder-Eppstein  
Wim Meussen

**BACKGROUND**

Google, hiDOF, Willow Garage, MS in Computer Science at Washington University, PhD in Robotics at KU Leuven, PhD in Computer Science at UNC

**SOCIAL MEDIA**

@hippo harvest  
www.hippoharvest.com

HIPPO HARVEST is building a next-generation greenhouse hardware and software operating system using off-the-shelf robotics, sensors, a modified hydroponic growing system, and a customized software platform created to natively enable machine learning optimization in greenhouse operations. The company was founded by two long-time robotics engineers and a greenhouse operator with the goal to drive sustainability and efficiency in greenhouse operations. Hippo aims to catalyze the transition of fresh produce from field growing to more sustainable, local, and healthy forms of production and operate a commercial greenhouse using our systems to grow leafy greens in Pescadero, CA. Including land use, and at industry-standard greenhouse yields, Hippo's greenhouse growing represents a GHG emissions reduction potential vs. conventionally grown product. As yields improve over time, Hippo's emissions footprint should further decrease.



Agriculture accounts for ~1/3 of anthropogenic GHG emissions; left unchanged they will consume

**70%**

of the world's GHG budget by 2050.

Potential for

**>50%**

reduction in GHGs vs field production.



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“At Hippo Harvest our mission is to catalyze the transition of fresh produce from field growing to more sustainable, local, and healthy forms of production.”



Eitan Marder-Eppstein,  
CEO



Climate Robotics makes biochar in-field from agricultural harvest residue for use as a soil amendment that remediates soil acidification, improves moisture retention, and sequesters carbon for hundreds of years or more.


**FOUNDERS**

Jason Aramburu  
Morgan Williams

**BACKGROUND**

Baidu Ventures, Edyn, re:char, Research at Princeton and Smithsonian Tropical Research Institute, RSI EnTech, Applied Soils, Navarro Research and Engineering, Biochar Solutions, Edun, Flux Farm Foundation, PhD in Physical Geography/Earth System Science at UC Berkeley

**SOCIAL MEDIA**

[www.climaterobotics.com](http://www.climaterobotics.com)

This biochar is cost-competitive with ag lime which is typically used to treat the 1/3+ of US acreage that is experiencing acidification and can boost yield both initially and over time compared to conventional methods.

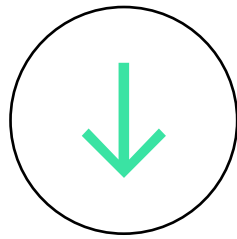
The direct and indirect GHG benefits of high pH biochar are significant. It displaces GHG emissions from ag lime and directly sequesters carbon in relatively 500-1000yr+ forms from soil which can additionally be monetized as carbon credits. As one of the few long-term carbon sequestration approaches

– coupled with the reduced use of GHG-emitting ag-lime – Climate Robotics has the potential to globally sequester gigatons of CO<sub>2</sub> per year at scale.

Carbon Credits: Biochar alone is 70% carbon, but if it replaces ag lime, every ton of displaced lime represents approximately a ton of CO<sub>2</sub> emissions with additional footprint from the mining, transport, and application. Elimination of ag residue decay (including via field burning) products represents 2-3 gigatons of displaced CO<sub>2</sub> equivalent annually.







“Our systems could sequester gigatons of CO<sub>2</sub> per year at scale and with hundreds to thousands of years of permanence.”



**Jason Aramburu,**  
Co-founder and CEO



Partnership with  
Microsoft



Last year, Microsoft entered into an agreement with Climate Robotics to purchase carbon offsets as one of many companies in its carbon removal portfolio. This partnership will help Microsoft achieve its goal of becoming carbon negative by 2030 and drawing down greenhouse gas emissions equivalent to the company's entire operations since 1975 by the year 2050.



Bellwether makes ventless, electric, café-scale coffee roasting systems and manages the green coffee supply chain from farm to café.

2.056lb

of carbon reduced per lb of roasted beans (global market of 21B lb/yr).

2,307

metric tons of CO<sub>2</sub>e avoided.

2,473,291

pounds of coffee roasted.

Coffee roasting accounts for

15%

of the carbon footprint of coffee.



BELLWETHER'S roaster rethinks the coffee supply chain landscape, cutting the carbon footprint of coffee by >50% (11lbs CO<sub>2</sub>/lb coffee to <5lbs) through reduced logistics associated with central roasting and distribution, and the electrification of roasting. It also eliminates VOCs and particulate emissions at the point of roasting that limit where roasting was previously possible. The Bellwether Series 2 roaster launched in February 2022.

Through ethical coffee sourcing and its Farmer Impact Fund program, the company also effects change at the farm level. The company is investing in the future of a healthy, sustainable, and resilient coffee industry by paying

farmers economically ethical prices and providing additional direct income to farmers to invest in their futures.

Bellwether recently signed a contract with a Colombian cooperative using its recently launched Living Income Pricing methodology, the first farmer-centric methodology for pricing green coffee that identifies the prices needed to ensure farmers are able to earn a living income. In 2022, Bellwether implemented this pricing strategy across both Colombia and Guatemala.



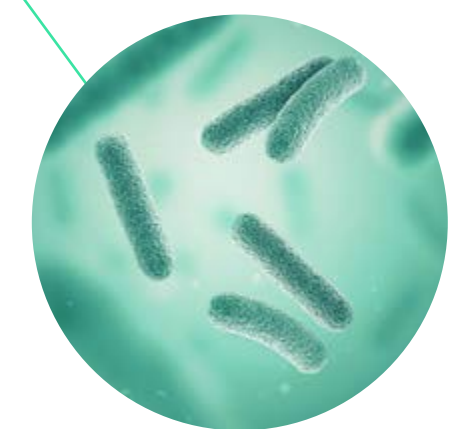
**Ricardo Lopez,**  
CEO, Bellwether Coffee

“Bellwether’s Roaster rethinks the coffee supply chain landscape, cutting the carbon footprint of the coffee roast cycle by 87% through the electrification of roasting. It also eliminates VOCs and particulate emissions at the point of roasting that limit where roasting was previously possible”



The toolset is used in the agricultural sector for traditional crossing activities as well as sampling of soil microbiomes in order to optimize soil microbiota and tailor amendments for specific use cases.

PHASE GENOMICS sells an AI/computational genomics toolset based on a modified Hi-C protocol for sequencing microbiomes and unculturable micro-organisms. The toolset is used in the agricultural sector for traditional crossing activities as well as sampling of soil microbiomes in order to optimize soil microbiota and tailor amendments for specific use cases. More recently, its toolset is increasingly being used for animals, human microbiome analysis, antibiotic resistant microorganism characterization, and digital automated karyotyping for human health. The company continues to broaden the reach of its toolset and has started to focus on its deep trove of microbiome data for other applications.



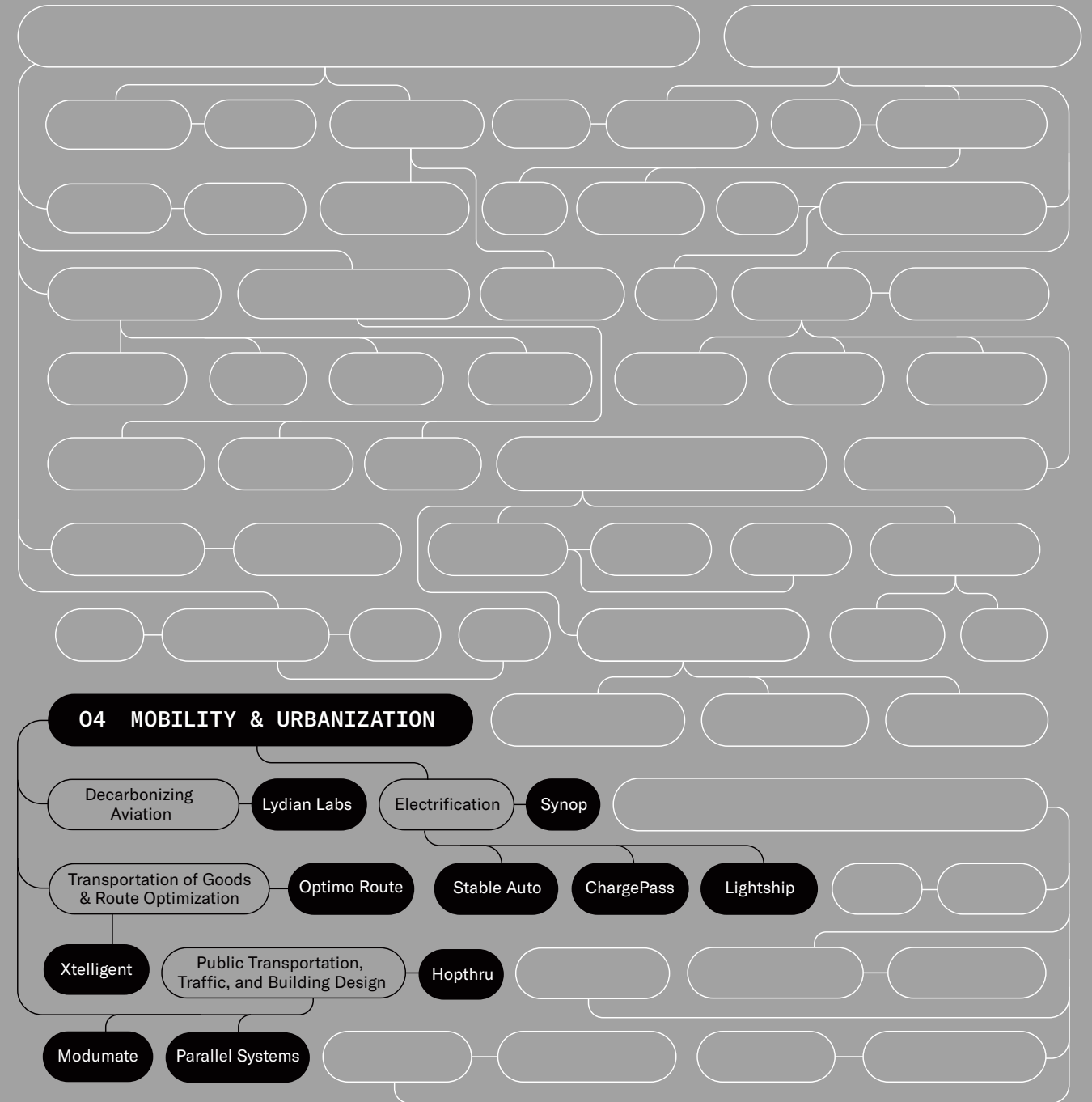
# MOBILITY & URBANIZATION

## Mobility

The future of mobility is electric, intelligent, affordable, and frictionless. It will also reduce fuel cost variability, drop infrastructure development costs, and reduce overall costs per mile to consumers and businesses.

## Urbanization

We believe in a world where environment-neutral buildings are constructed with zero waste in climate-resilient urban centers.



**1**  
company **decarbonizing aviation**

**3**  
companies **making the electric vehicle transition easy**

**1**  
company **electrifying RV/van life**

**2**  
companies **transporting goods or optimizing routes**

**2**  
companies **working on public transportation and traffic reduction**

**1**  
companies **improving building design and construction efficiency**



**FOUNDERS**

Joe Rodden  
Branko Zugic

**BACKGROUND**

Form Energy, BlackRock, Affirm, Harvard MBA, L3 Open Water Power, Orca Sciences, Tufts PhD + Harvard PostDoc (ChemE)

**SOCIAL MEDIA**

www.lydianlabsinc.com

Sustainable aviation fuel is critical to decarbonizing long-duration commercial air travel.



LYDIAN is decarbonizing fuels and chemicals with its novel electrothermal reactor, which will convert CO<sub>2</sub> into valuable products beginning with sustainable aviation fuel. Lydian is targeting gigaton-scale impact in the

long run; aviation alone accounts for at least 1 gigaton of CO<sub>2</sub> equivalent annually (and rising), and other sustainable fuels and chemicals could increase that opportunity to as much as 5 gigatons or more.



“Working with Congruent has been amazing. Josh and Christina are knowledgeable, accessible, and supportive. There is nobody else I'd rather have in our corner as we build Lydian.”



**Joe Rodden,**  
CEO & Co-founder,  
Lydian Labs

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“Lydian is targeting **gigaton-scale impact** in the long run; aviation alone accounts for at least 1 gigaton of CO<sub>2</sub> equivalent annually and rising.”



**Joe Rodden,**  
CEO & Co-founder, Lydian Labs





The Company successfully bridged the gap between legacy chargers, telemetry providers, and modern APIs, allowing for hardware interoperability and rapid deployment.

**7,950**  
metric tons of **CO<sub>2</sub> avoided.**

**722 L2 & L3**  
**EV chargers** installed by customers.

**4,800**  
**MWh energy fueled** to vehicles in 2022.

SYNOP has developed a software system for electric fleet management, incorporating telemetry, charging management, and route planning to allow fleet operators to operate their electric fleets and charging infrastructure.

Enabling the operations of EV fleets and cost containment of vehicles will greatly facilitate the transition to electric transportation and logistics. A unified operating system incorporating telematics, charging, energy, and operations is necessary to increase penetration of fleet vehicles across the economy.

“The team at Congruent has been a supporter of our mission to decarbonize fleets from day one.”

Through their own experiences and backing other companies in climate tech over the years, they've been able to help us understand how to really build a world class business in this space.”



**Gagan Dhillon,**  
CEO & Co-Founder



Software tools that help EV charging companies setup, configure, and operate EV chargers with higher ROIs.



**1,956** potential EV charging sites analyzed in Stable's platform.

**FOUNDERS**

Rohan Puri  
Jamie Schiel

**BACKGROUND**

MIT Media Lab, Avalanche.io, Deloitte, Techstars, UVA, Unison Networks, University of Canterbury Mechantronics

**SOCIAL MEDIA**

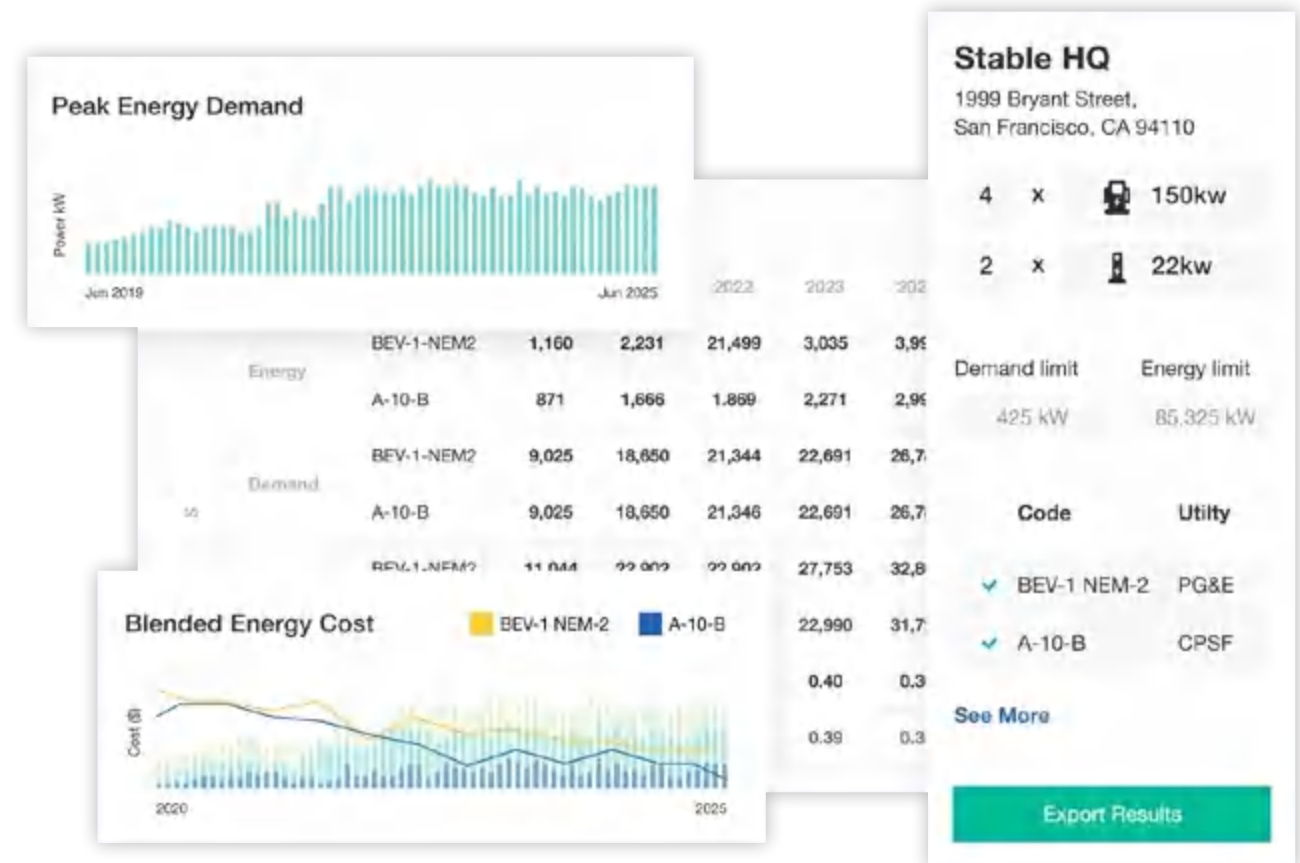
www.stable.auto

STABLE AUTO offers software that helps companies predict and improve EV charging station ROIs via site selection and pricing optimization. Stable's software can predict, with high accuracy, what the utilization of a new site will be by applying ML trained on 33,000 chargers worth of historical

utilization data and 70 different geospatial datasets.

Capital is flowing into deploying public EVSEs (EV Supply Equipment, i.e. chargers) to take advantage of the massively growing market; however, public EVSEs are generally

expensive and unprofitable due to low utilization. The key to profitability is the combination of net costs (Level 3 Fast Chargers are currently \$120k - \$150k/each), utilization, and power pricing.



“EV charging businesses across the country are struggling to make strong returns due to the complexities of finding a location that has the right combination of: high potential utilization, low energy costs, and strong rebates and incentives. Stable makes it easy for developers of new charging locations to intelligently assess and prioritize sites by highest potential ROI. Higher ROI sites means more companies getting into EV charging. More EV charging companies means more EV chargers in the ground, sooner.”



**Rohan Puri,**  
CEO & Co-Founder



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“Stable is working to **accelerate**  
**the transition to electric vehicles**  
by making EV charging a strong  
business.”



**Rohan Puri,**  
CEO & Co-founder

# Charge Pass



## FOUNDERS

Ashwin Dias  
J.J. Raynor

## BACKGROUND

Uber, Zoomin.com, IIM Bangalore, Obama White House, Harvard MBA

## SOCIAL MEDIA

[www.chargepass.com](http://www.chargepass.com)

“A trillion dollars will be invested in charging infrastructure by 2040.

We are building the software platform that will manage these assets and optimize their interface with customers and the energy markets.”



**Ashwin Dias,**  
Co-founder and CEO,  
ChargePass

CHARGE PASS is building a charging experience to accelerate the mass adoption of electric vehicles, starting with fleets and professional drivers. The Company's platform will dynamically match charging demand and supply, providing a reliable and affordable experience for drivers while improving asset utilization for charging networks and owners. Ashwin & JJ led electrification initiatives at Uber where they were responsible for negotiating and executing the deal with Hertz for 50k Teslas.

“Abe and Jackie immediately understood the problem we wanted to solve and how our platform could help accelerate EV adoption. In our short life as a company, they've been immensely helpful - generous with introductions, thoughtful with advice and always curious about the details.”



**J.J. Raynor,**  
Co-founder,  
ChargePass

10x

more EVs in the U.S.  
by 2030.

Uber and Lyft have  
committed to

100%

electric rides by 2030.



As small trucks and passenger vehicles transition to electric, Lightship will allow for passionate RVers to own an electric RV with no compromise.



LIGHTSHIP is taking RVing into the electric age by building the first all-electric recreational vehicle (RV) towable by an EV without an insurmountable range reduction while providing a modern, technology-centric experience. Ben & Toby's vision is to bring electrification to new demographics and new demographics to RVing.

The Lightship team has grown to thirty-two strong, a group of professionals from the EV and automotive industries with expertise across engineering, design, brand and marketing, manufacturing and operations. The Lightship team just unveiled their first product, the L1, to the world this year at SXSW in Austin, Texas.

**FOUNDERS**

Ben Parker  
Toby Kraus

**BACKGROUND**

Tesla, Dartmouth Formula Racing, BA in Engineering Sciences from Dartmouth, Tesla, Proterra, Morgan Stanley, BS in Biomedical Engineering and Economics from Duke

**SOCIAL MEDIA**

www.lightshiprv.com  
@LightshipRV



**Ben Parker,**  
CEO & Co-founder

“We love RV road trips and camping and we think the future of this awesome pastime (enjoyed by us and 50 million other Americans) includes vastly simplified, modernized, clean and all-electric products alongside seamless travel experiences offered under a single exciting brand.”



Transportation accounts for ~29% of global emissions; as the US transitions to EVs, a purpose-built vehicle is required for RVs to survive the transition away from ICE towing vehicles. As small trucks and passenger vehicles transition to electric, Lightship will allow for passionate RVers to own an electric RV with no compromise.

11M US households now own RVs, and the industry has seen significant growth since the start of the pandemic.





Parallel's mission is to decarbonize freight by building a cleaner, automated rail future.



“Congruent Ventures has been supporting us every step of the way. We are grateful to have found an investor that truly understands us and our mission.”



**Matt Soule,**  
Co-Founder & CEO

**FOUNDERS**

Matt Soule  
John Howard  
Ben Stabler

**BACKGROUND**

SpaceX, Northrop Grumman Corporation, Lockheed Martin, Moog, MS in Electrical Engineering at USC, MS in Material Science at Stanford, MS in Electrical Engineering at Stanford

**SOCIAL MEDIA**

[www.moveparallel.com](http://www.moveparallel.com)

PARALLEL is developing a new rail transportation system that addresses economic and operational limits of conventional rail transportation, such that it can serve existing trucking markets, and is currently assembling their second generation vehicle.

Parallel Systems enables railroads to move cargo in a more granular fashion

across the network while reducing carbon footprint, cost, and time when compared to existing trucking and conventional train operations.

By electrifying, lowering costs, and fixing the operational limitations of rail freight, Parallel Systems has the potential to move substantial trucking volume to rail, drastically

reducing the associated GHG and particulate emissions. Parallel's solution also complements future trucking by relieving long-haul truck battery range challenges and reducing new electricity demands on the grid as we move to an electrified transportation economy.



Rail already uses approximately 1/4 the amount of energy of trucking to move freight. **Parallel's electrification approach would cut that down to**

**1/12**  
the amount of CO<sub>2</sub> vs trucks.

**Diesel PM2.5**

**pollution can be dramatically reduced** in low-income areas.

A shift of just **25%** of trucks to rail for a single freight lane can save

**13.1M** tons GHG emissions annually.



The company's solution saves a substantial amount of fuel, reduces congestion, and reduces customer operating costs through improved asset utilization and operations.



**FOUNDERS**

Marin Saric  
Frane Saric  
Goran Kukulj

**BACKGROUND**

Google, Yelp, MSc KTH Royal Institute of Technology, medals in international programming competitions, FER, IBM, MSc University of Zagreb, medals in international programming competitions

**SOCIAL MEDIA**

@OptimoRoute  
www.optimoroute.com

OPTIMOROUTE optimizes routes and schedules for the mobile workforce. Its algorithms allow customers to use an unprecedented number of real-world constraints and plan at volumes and time-scales dramatically higher than those of conventional systems. The company has thousands of customers and is growing rapidly.

OptimoRoute **increases delivery capacity by**

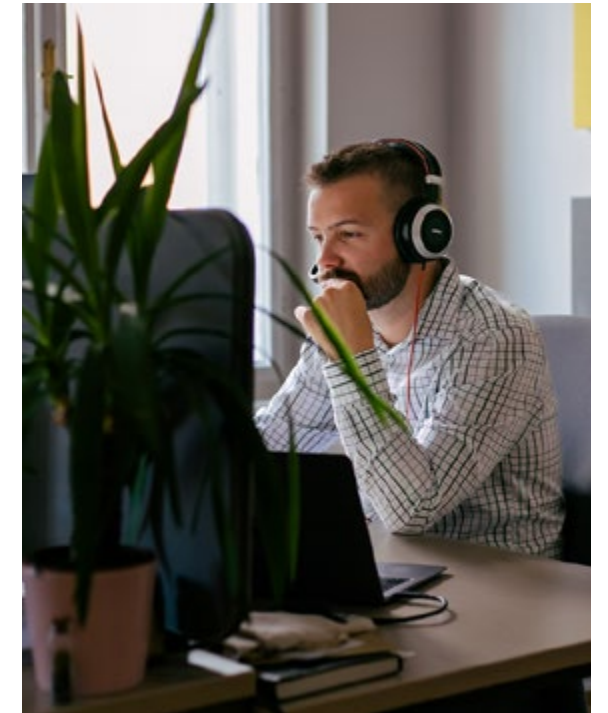
**14%.**

Light-duty trucks account for

**20%**

**of U.S. on-road vehicle emissions.**

The company's solution saves a substantial amount of fuel, reduces congestion, and reduces customer operating costs through improved asset utilization and operations. As transportation moves towards an electric and autonomous future, these routing algorithms will become increasingly important for electric fleets and path planning.







**FOUNDERS**  
Cole Calhoun  
Daniel Radding

**BACKGROUND**  
Salesforce, PocketSuite, Ripple

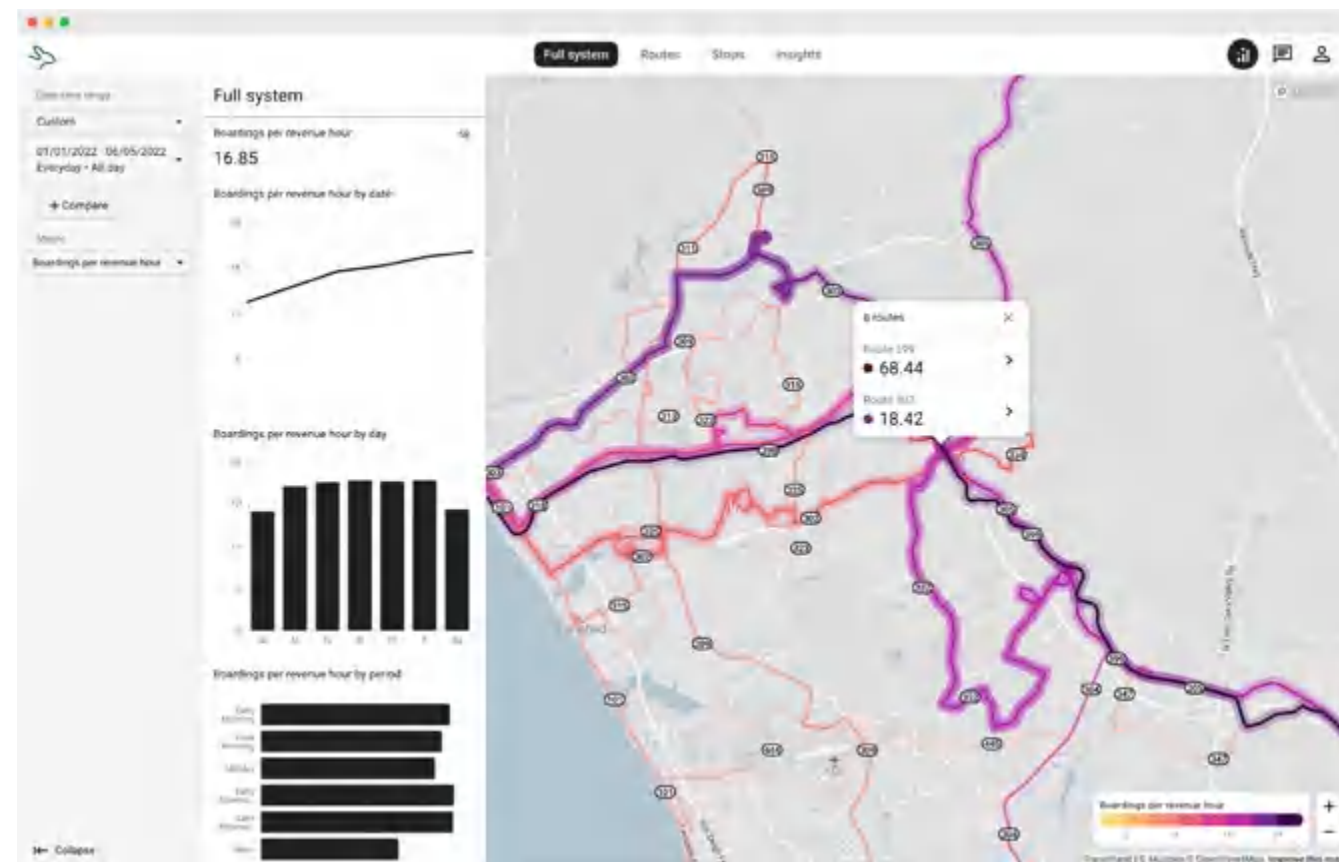
**SOCIAL MEDIA**  
@hopthru  
www.hopthru.com

The company has deployed in a number of transit agencies and is growing quickly.

HOPTHRU sells a software platform to improve operational efficiency in public transit, driving higher utilization and increasing passenger miles traveled. Insights and analysis from transit data will drive down costs and increase passenger miles traveled on public transit through data-driven improvements to the service, taking cars off the road and increasing efficiency, a key feature in the face of challenged municipal budgets.



**2x** more GHG efficient (public transit vs private auto).



**FOUNDERS**  
Andrew Powch  
Michael Lim

**BACKGROUND**  
Seraph, Strathspey Crown Holdings, Kore Infrastructure, McKinsey, US Navy, MBA at Harvard, Connected and Autonomous Vehicle Senior Advisor to City of LA, Lazard, Jeffries, United Nations, MBA at UPenn and INSEAD

**SOCIAL MEDIA**  
www.xtelligent.io

The company has developed a light-footprint deployment model with traffic-management-as-a-service at a 90% lower cost than incumbents.



XTELLIGENT develops advanced traffic signal control algorithms that leverage ML approaches and data from sensors, connected cars, and cellular sources to continuously manage traffic lights' timing to minimize congestion. By reducing congestion and increasing carrying capacity of existing infrastructure, Xtelligent's software reduces emissions, automotive wear-and-tear, and transit times through an area.

**420,000,000**

metric tons of potential **reduction in traffic congestion.**

**40%**

potential **increase in carrying capacity** of existing infrastructure.



**FOUNDERS**  
Richman Neumann

**BACKGROUND**  
Urban Fabrick, Solomon Cordwell Buenz, Licensed Architect by USGBC and California Architects Board

**SOCIAL MEDIA**  
@modumate\_inc  
www.modumate.com

MODUMATE is building the first 3D Building Information Modeling (BIM) software package that creates and enforces modular building models, allowing for the ongoing analysis of building performance and energy efficiency as a core feature. Residential and commercial buildings account for 40% of US primary energy consumption, more than transportation or industrial uses. Ongoing retrofits and new building standards continue to push the efficiency of the building stock in the US towards lower energy consumption, but none of the architectural tools available to the Architecture, Engineering, and Construction (AEC) community are natively designed to allow for building performance simulations.



Residential and commercial buildings account for 40% of US primary energy consumption, more than transportation or industrial uses.

**20%-40%**

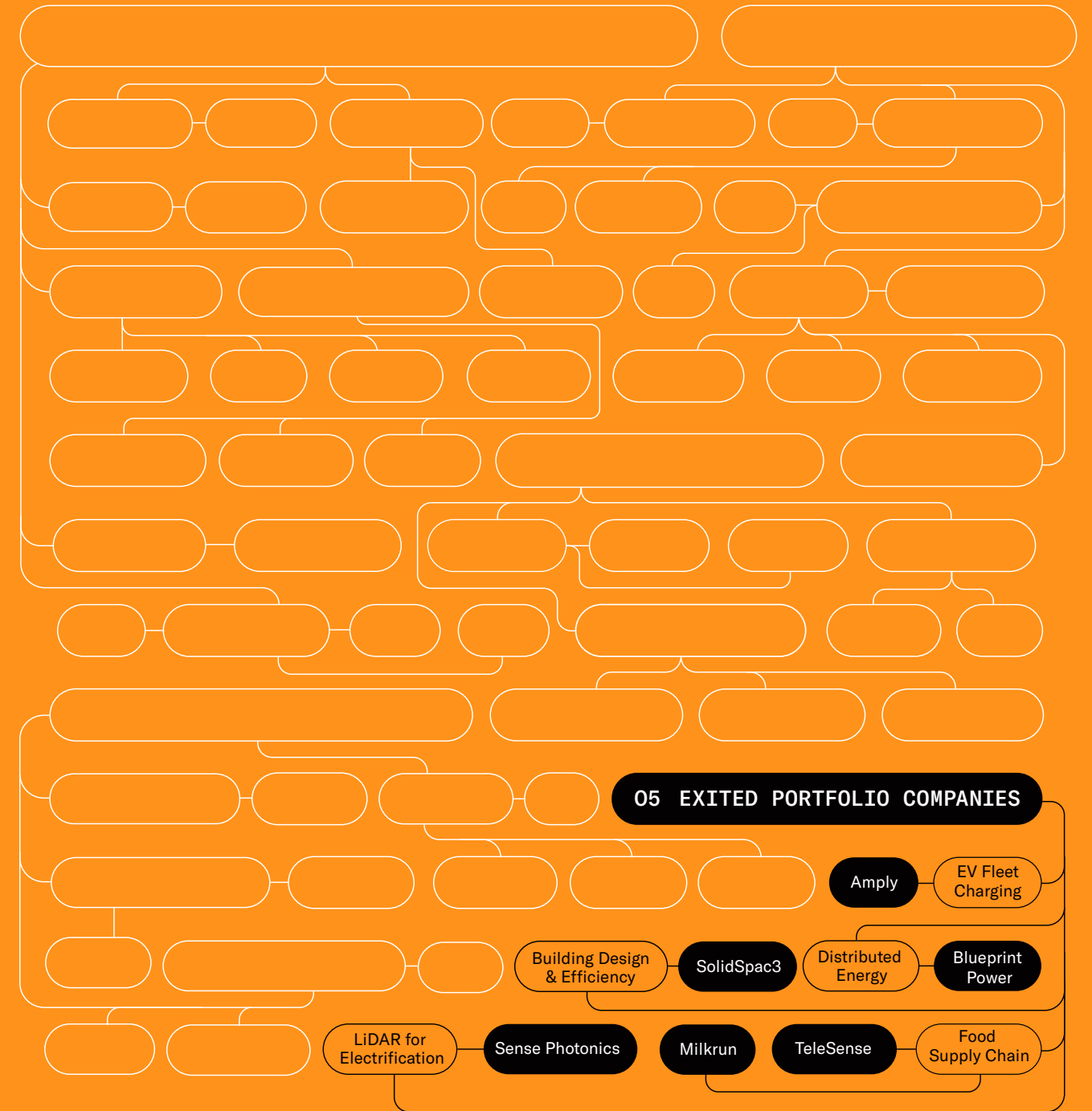
potential **reduction in resource consumption.**



→05

# EXITED PORTFOLIO COMPANIES

Congruent Ventures has exited its positions in six companies. The following companies span across our Mobility and Urbanization, Energy Transition, and Food & Agriculture sectors.



- 1 company running **EV fleet charging software** (acquired in 2021)
- 1 company enabling **distributed energy resources for commercial buildings**
- 1 company **enabling next gen LiDAR for automation and efficiency**
- 1 company **reducing food waste** with sensors and analytics
- 1 company **building a national farmers' market**
- 1 company **reducing construction waste**



**FOUNDERS**  
Vic Shao  
Simon Lonsdale

**BACKGROUND**  
New Energy Nexus, Engie, MobileAria, Oracle,  
MBA at UC Berkeley, ChargePoint, IBM

AMPLY provides turn-key services for outsourced charging of large electrified fleets. Amply manages all infrastructure and power procurement, takes responsibility for actively managing the meter (energy, demand charges, renewable energy credits, etc.), and sells electrons to customers. Handling infrastructure and fuel (electrons) is one of the most significant challenges to the adoption of fleet electrification projects. Managing power rates, procurement, sighting, etc., is not the core competency of most agencies and companies.

– AMPLY was acquired by BP in 2021.



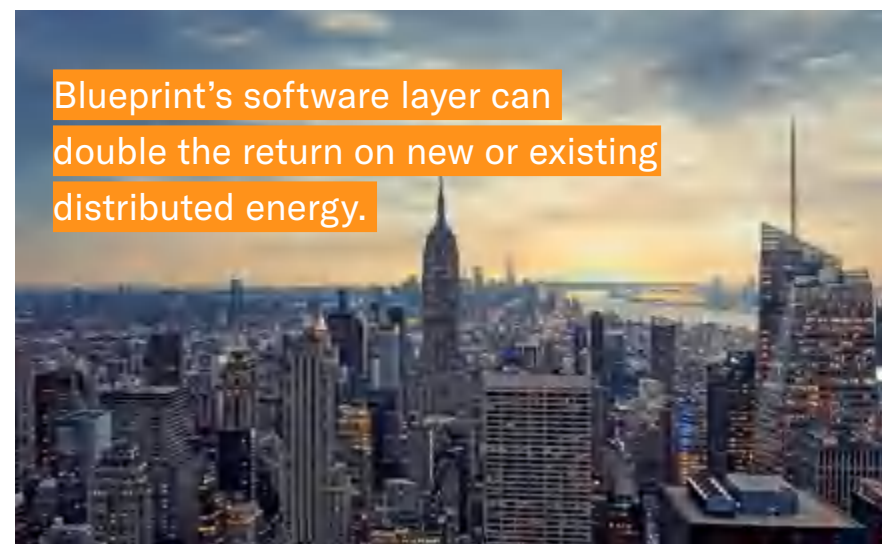
AmPLY enables the rapid and scaled deployment of low-carbon fleets while providing significant cost savings.

**40%** Potential of **annual energy cost savings vs traditional charging.**



**FOUNDERS**  
Robyn Beavers

**BACKGROUND**  
Lennar, NRG Energy, Google, Stanford GSB



Blueprint's software layer can double the return on new or existing distributed energy.

Up to **\$1.00/SF** incremental net operating income for commercial buildings.

BLUEPRINT sells a software control layer to help commercial building operators optimize energy production of onsite energy assets (solar, storage, combined heat, and power, generation) so that they can better manage behind the meter energy use, exports, or wholesale energy market participation. Blueprint's software layer can double the return on new or existing distributed energy while bringing low-carbon, historically non-participating energy assets into the wholesale markets, providing grid flexibility.

– Blueprint Power was acquired by BP in 2021.



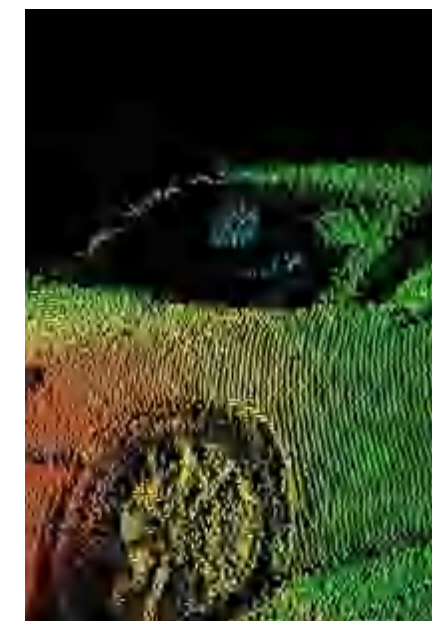
**FOUNDERS**  
Scott Burroughs  
Shauna McIntyre  
Russell Kanjorski

**BACKGROUND**  
Semprius, Santur, Optovia, Google, Honeywell, Ford, MBA at Harvard, MS in Mechanical Engineering & Material Science at UC Berkeley, Semprius, Abound Solar, Boston Consulting Group, Federal Home Loan Bank of Pittsburgh, JD at UPenn

SENSE PHOTONICS is democratizing LiDAR for a safer, greener and more productive world. The company's proprietary Flash architecture creates a new paradigm in 3D vision and transforms what's possible for assisted and automated driving. Sense's proven architecture built on scalable VCSEL & SPAD technology leapfrogs competitors in terms of range, data-density and cost effectiveness. New vehicle platforms are overwhelmingly electrified and, compared to human-operated equipment, have much higher rates of utilization and thus

a lower environmental footprint. They also operate more efficiently from an energy consumption standpoint and increase the carrying capacity of existing infrastructure. Improvements in LIDAR technology enables energy savings across several sectors, including automotive, food and ag, and manufacturing.

– Sense Photonics was acquired by Ouster in 2021.



**-23%** potential **reduction in average fuel consumption** due to automated vehicle technologies.

**-76%** potential **energy savings** by enabling automated, dark warehouses.



**FOUNDERS**  
Naeem Zafar

**BACKGROUND**  
Faculty Member at UC Berkeley, electrical engineer (Brown University) Oracle, Pyxis Technology, Honeywell

TELESENSE provides wireless monitoring solutions for grain storage and transportation. Using IoT sensors and data analytics, Telesense helps reduce waste and spoilage in the global grain and seed supply chain, boosting effective yield per arable acre of land. The company is focused in North America, Europe, and Australia, and has worked with customers from farm-level to multinational grain and seed companies. The company also indirectly decreases GHGs by early spoilage detection, mitigating methane emissions from rotting grain and seeds.

– TeleSense was acquired by UPL.

TeleSense helps avoid storage and transportation-related incidents like mold and fire, significantly minimizing post-harvest losses.



**30%-40%** of our food supply is lost or wasted in the US.



# ACHIEVING A BETTER AND MORE SUSTAINABLE FUTURE FOR ALL

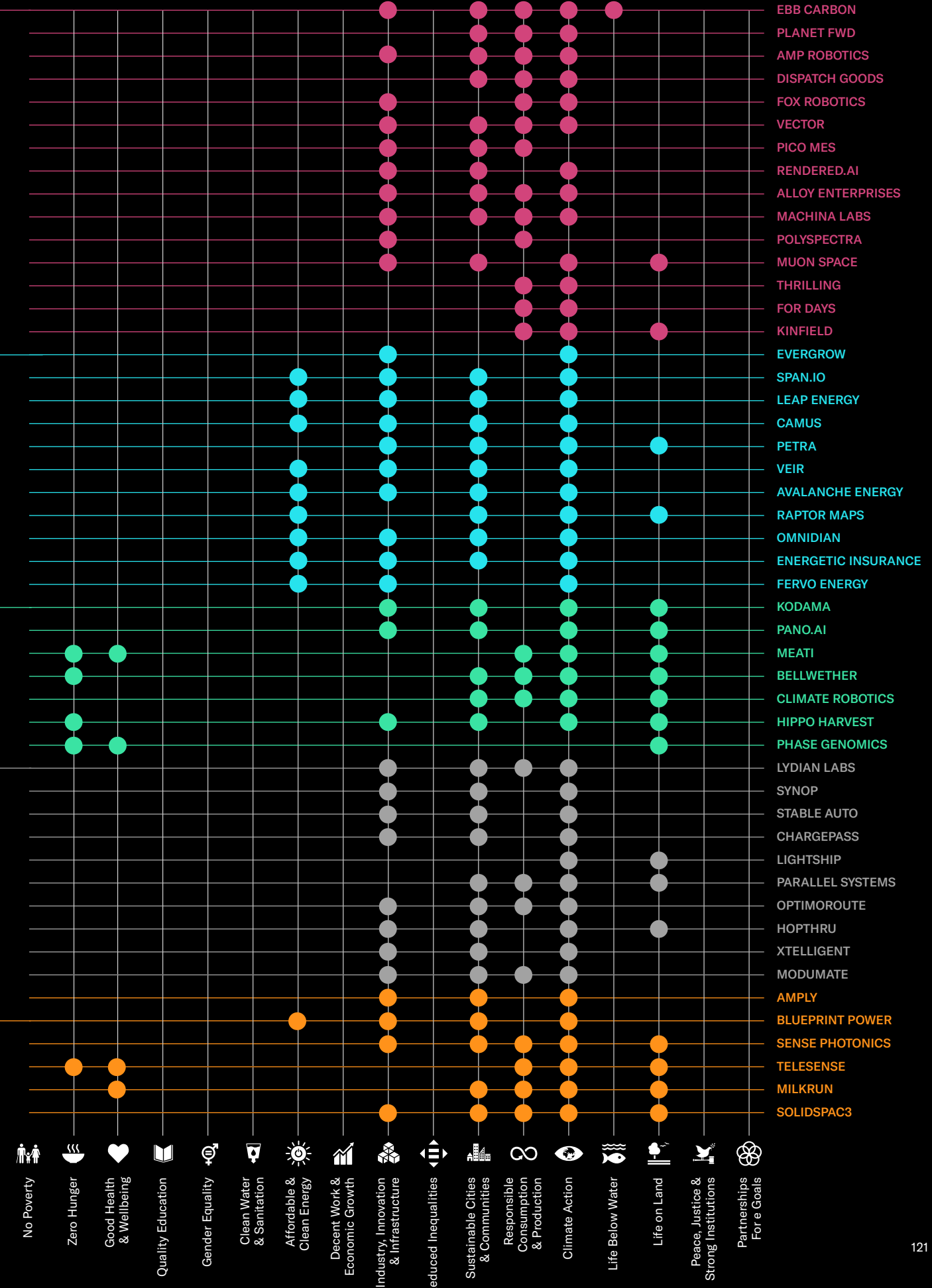
## Sustainable Production and Consumption

## Energy Transition

## Food and Agriculture

## Mobility and Urbanization

## Exited Portfolio Companies



# SOURCES

## Sustainable Production and Consumption

### PLANET FWD

<https://www.conference-board.org/press/climate-disclosures-gap>  
<https://www.alliedmarketresearch.com/emission-management-software-market-A13105>

### AMP ROBOTICS

<https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials#NationalPicture>  
<https://www.science.org/doi/10.1126/sciadv.1700782>

### DISPATCH GOODS

<https://sustainablereview.com/environmental-impact-of-takeout-food/>  
<https://yaleclimateconnections.org/2019/08/how-plastics-contribute-to-climate-change/>

### FOX ROBOTICS

<https://ouc.bizenergyadvisor.com/article/warehouses>

### VECTOR

<https://www.transportdive.com/news/the-best-way-trucking-can-cut-carbon-emissions-now/627675/>

### PICO MES

<https://www.mckinsey.com/industries/metals-and-mining/our-insights/decarbonization-challenge-for-steel>

### ALLOY ENTERPRISES

<https://www.gminsights.com/industry-analysis/automotive-lightweight-materials-market>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8588011/>

### MACHINA LABS

[https://www.energy.gov/sites/default/files/2018/12/f58/Rapid%20Freeform%20Sheet%20Metal%20Forming%20Technology\\_0.pdf](https://www.energy.gov/sites/default/files/2018/12/f58/Rapid%20Freeform%20Sheet%20Metal%20Forming%20Technology_0.pdf)

### MUONSPACE

<https://abc7news.com/california-wildfires-cost-of-cal-fire-stanford-wildfire-research/6897462/>  
<https://gacc.nifc.gov/sacc/predictive/intelligence/NationalLargeIncidentYTDRreport.pdf>

### THRILLING

<https://www.wsj.com/articles/the-high-price-of-fast-fashion-11567096637>  
<https://www.nature.com/articles/s41558-017-0058-9>

### FOR DAYS

<https://www.waterfootprint.org/media/downloads/Report18.pdf>  
<https://www.weforum.org/agenda/2019/02/how-the-circular-economy-is-redesigning-fashions-future/>

## Energy Transition

### EVERGROW

<https://www.climatecentral.org/climate-matters/inflation-reduction-act>

### SPAN.IO

<https://www.pv-magazine.com/2021/02/26/batteries-double-co2-savings-of-households-with-pv-systems/>

### LEAP

<https://www.woodmac.com/news/editorial/der-growth-united-states/>

### PETRA

<https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/infrastructure/electric-reliability/undergrounding-program-description>

### RAPTOR MAPS

<https://www.irena.org/publications/2021/March/Renewable-Capacity-Statistics-2021>

<https://www.grandviewresearch.com/industry-analysis/solar-panels-market>

<https://www.iea.org/reports/global-energy-review-2021/renewables>

### ENERGETIC INSURANCE

<https://www.greentechmedia.com/articles/read/the-us-has-145-gigawatts-of-untapped-commercial-solar-potential>

### FERVO ENERGY

<https://www.drawdown.org/solutions/geothermal-power>

## Food and Agriculture

### KODAMA

<https://www.psu.edu/news/research/story/loggers-landscapers-face-deadly-danger-felling-trees-forests-and-urban-areas/>

### PANO.AI

<https://www.munichre.com/en/company/media-relations/media-information-and-corporate-news/media-information/2021/2020-natural-disasters-balance.html>  
<https://news.bloomberglaw.com/environment-and-energy/californias-2020-wildfire-emissions-akin-to-24-million-cars>

### HIPPO HARVEST

<https://www.wri.org/insights/5-questions-about-agricultural-emissions-answered>

### CLIMATE ROBOTICS

<https://puro.earth/CORC-co2-removal-certificate/american-biocarbon-100216>

### BELLWETHER COFFEE

<https://www3.epa.gov/ttnchie1/ap42/ch09/final/c9s13-2.pdf>

## Mobility and Urbanization

### LYDIAN LABS

[https://unfccc.int/sites/default/files/resource/156\\_CAN%20ICSA%20Aviation%20TD%20submission.pdf](https://unfccc.int/sites/default/files/resource/156_CAN%20ICSA%20Aviation%20TD%20submission.pdf)  
<https://www.oemoffhighway.com/engines/engines/article/22314724/clearflame-engine-technologies-the-fastest-path-to-emissions-reduction-for-heavy-duty-diesel-engines>

### CHARGEPASS

<https://www.uber.com/us/en/drive/services/electric/>  
<https://www.lyft.com/blog/posts/leading-the-transition-to-zero-emissions>  
<https://www.bloomberg.com/news/articles/2022-09-20/more-than-half-of-us-car-sales-will-be-electric-by-2030>

### LIGHTSHIP

[https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions&sa=D&source=docs&ust=1642617318474334&usg=AOvVaw3c\\_UBLpsgKEfbIEfLkrJ9Y](https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions&sa=D&source=docs&ust=1642617318474334&usg=AOvVaw3c_UBLpsgKEfbIEfLkrJ9Y)

### PARALLEL SYSTEMS

<https://www.aar.org/wp-content/uploads/2020/06/AAR-Sustainability-Fact-Sheet.pdf>

### OPTIMOROUTE

<https://www.epa.gov/system/files/documents/2021-12/420f21076.pdf>

### HOPTHRU

<https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/PublicTransportationsRoleInRespondingToClimateChange2010.pdf>

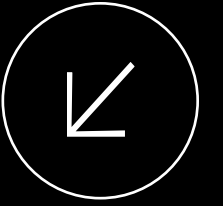
### XTELLIGENT

<https://escholarship.org/uc/item/07n946vd>

### MODUMATE

<https://www.eia.gov/tools/faqs/faq.php?id=86&t=1>





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Contact info

General press and other  
info@congruentvc.com

Creative Direction & Design  
Draft Design | www.draft.cl

Illustrated Portraits  
Andrés Rodríguez

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