



LanzaTech

Transforming Carbon. Making Products.

Where does your carbon come from?

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In connection with the Proposed Business Combination, AMCI has filed with the Securities and Exchange Commission ("SEC") a registration statement on Form S-4 (the "Registration Statement") containing a proxy statement and a prospectus of, AMCI. Shareholders and other interested persons are urged to read the definitive proxy statement/prospectus and any other relevant documents filed with the SEC because they contain important information about AMCI, LanzaTech and the Proposed Business Combination. The definitive proxy statement/prospectus and other relevant materials for the Proposed Business Combination have been mailed to stockholders of AMCI as of a record date to be established for voting on the Proposed Business Combination. Shareholders will also be able to obtain free copies of the preliminary proxy statement/prospectus, the definitive proxy statement/prospectus and other documents filed with the SEC, once available, without charge, at the SEC's website located at www.sec.gov, or by directing a request to AMCI Acquisition Corporation II, 600 Steamboat Road, Greenwich, CT 06830. AMCI, LanzaTech and their directors and executive officers and other persons may be deemed to be participants in the solicitations of proxies from AMCI's shareholders in respect of the Proposed Business Combination and the other matters set forth in the registration statement. Information regarding AMCI's directors and executive officers is available under the heading "Management" in AMCI's final prospectus used in its initial public offering, which was filed with the SEC and is available free of charge at the SEC's website at www.sec.gov, or by directing a request to AMCI Acquisition Corporation II, 600 Steamboat Road, Greenwich, CT 06830. Additional information regarding the participants in the proxy solicitation and a description of their direct and indirect interests by security holdings or otherwise, is contained in the proxy statement/prospectus relating to the Proposed Business Combination.

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Certain statements included in this Presentation that are not historical facts are forward-looking statements for purposes of the safe harbor provisions under the United States Private Securities Litigation Reform Act of 1995. Forward-looking statements generally are accompanied by words such as "believe", "may", "will", "estimate", "continue", "anticipate", "intend", "expect", "should", "would", "plan", "predict", "potential", "seem", "seek", "future", "outlook" and similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements include, but are not limited to, statements regarding estimates and forecasts of other financial and performance metrics and projections of market opportunity, expectations and timing related to the rollout of LanzaTech's business and timing of deployments, customer growth and other business milestones, potential benefits of the Proposed Business Combination and PIPE investment (the "Proposed Transactions"), and expectations relating to the Proposed Transactions. These statements are based on various assumptions, whether or not identified in this Presentation, and on the current expectations of LanzaTech's and AMCI's management and are not predictions of actual performance. These forward-looking statements are provided for illustrative purposes only and are not intended to serve as and must not be relied on by an investor as a guarantee, an assurance, a prediction, or a definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and may differ from assumptions. Many actual events and circumstances are beyond the control of LanzaTech and AMCI. These forward-looking statements are subject to a number of risks and uncertainties, including changes in domestic and foreign business, market, financial, political, and legal conditions; the inability of the parties to successfully or timely enter into definitive agreements with respect to the Proposed Transactions or consummate the Proposed Transactions, including the risk that any regulatory approvals are not obtained, are delayed or are subject to unanticipated conditions that could adversely affect the combined company or the expected benefits of the Proposed Transactions or that the approval of the stockholders of AMCI or LanzaTech is not obtained; failure to realize the anticipated benefits of the Proposed Transactions; matters discovered by AMCI or LanzaTech as they complete their respective due diligence investigations of each other; risks relating to the uncertainty of the projected financial information with respect to LanzaTech; risks related to the rollout of LanzaTech's business and the timing of expected business milestones; ability to negotiate definitive contractual arrangements with potential customers; the impact of competitive technologies; ability to obtain sufficient supply of materials; the impact of Covid-19; global economic conditions; ability to meet installation schedules; the effects of competition on LanzaTech's future business; the amount of redemption requests made by AMCI's public stockholders; and those factors discussed in documents AMCI has filed or will file with the SEC, together with the risks described in this Presentation under the heading "Risk Factors."

Additional risks related to LanzaTech's business include, but are not limited to: the Company has not yet deployed its technology at scale in commercial deployments; the long bidding and sales cycle in the industry; the success of the project incorporating the Company's systems, governmental regulation; environmental regulation; most of the Company's sales pipeline is not in the form of definitive agreements; the Company's ability to negotiate and enter into definitive agreements on favorable terms, if at all; construction delays; potential defects in the Company's systems; whether in the design, manufacturing or assembly or otherwise; the impact of competing technologies; intellectual property-related claims; ability to expand operations internationally; ability to attract and retain qualified personnel; ability to continue to source materials and components locally; ability of the Company's systems to provide favorable economic benefits to customers as compared to competing technologies; and the continued demand for renewable energy.

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If any of these risks materialize or AMCI's or LanzaTech's assumptions prove incorrect, actual results could differ materially from the results implied by these forward-looking statements. There may be additional risks that neither AMCI nor LanzaTech presently know or that AMCI and LanzaTech currently believe are immaterial that could also cause actual results to differ from those contained in the forward-looking statements. In addition, forward-looking statements reflect AMCI's and LanzaTech's expectations, plans, or forecasts of future events and views as of the date of this Presentation. AMCI and LanzaTech anticipate that subsequent events and developments will cause AMCI's and LanzaTech's assessments to change. However, while AMCI and LanzaTech may elect to update these forward-looking statements at some point in the future, AMCI and LanzaTech specifically disclaim any obligation to do so. These forward-looking statements should not be relied upon as representing AMCI's and LanzaTech's assessments as of any date subsequent to the date of this Presentation. Accordingly, undue reliance should not be placed upon the forward-looking statements. Neither LanzaTech, AMCI, nor any of their respective affiliates have any obligation to update this Presentation.

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AMCI and LanzaTech and their respective directors and executive officers may be considered participants in the solicitation of proxies with respect to the Proposed Business Combination. Information about the directors and executive officers of AMCI is set forth in the definitive proxy statement/prospectus filed with the SEC. Information regarding the persons who may, under the rules of the SEC, be deemed participants in the solicitation of AMCI stockholders in connection with the Proposed Business Combination is set forth in the registration statement (and will be included in the definitive proxy statement/prospectus). Stockholders, potential investors and other interested persons should read the proxy statement/prospectus carefully before making any voting or investment decisions. These documents can be obtained free of charge from the sources indicated above.

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Agenda

- **Welcome & Speaker Introductions** Omar El-Sharkawy
- **Opening Remarks from AMCI** Nimesh Patel
- **Presentation: Part 1**
 - LanzaTech Company Mission & Overview Jennifer Holmgren
 - Commercial Scale Platform Julie Zarraga
 - Synthetic Biology & Science Capabilities Zara Summers & Michael Köpke
- **Virtual Facilities Tour**
- **Presentation: Part 2**
 - Business Model Overview Geoff Trukenbrod
 - Closing Remarks Jennifer Holmgren
- **Q&A and Wrap Up** All

Welcome & Speaker Introductions



Jennifer Holmgren
CEO – LanzaTech



Julie Zarraga
Executive VP, Engineering – LanzaTech



Zara Summers
VP, Science – LanzaTech



Michael Köpke
VP, Synthetic Biology – LanzaTech



Geoff Trukenbrod
CFO – LanzaTech



Omar El-Sharkawy
VP, Corporate Development – LanzaTech



Nimesh Patel
Managing Director – AMCI Group
CEO & Director – AMCI
Acquisition Corp. II

Opening Remarks from AMCI

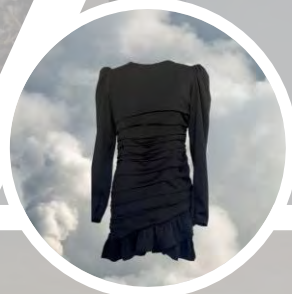
- AMCI is a \$2 billion privately held global industrial holding company with a portfolio of businesses that has operated in the heavy industry value chain for the last 35 years.
- The heavy industry complex has finally recognized the need to decarbonize their operations and this is leading to a new massive capex cycle for industrial decarbonization solutions
- LanzaTech provides an immediate solution to help industrial emitters, such as steel mills, smelters and refiners profitably decarbonize their operations
- The company has numerous blue-chip commercial partners and customers, many of whom AMCI has worked with before
- LanzaTech has an attractive capital light, recurring revenue licensing model
- LanzaTech is well positioned to capture the growing global demand for sustainable chemicals from leading consumer brands and SAF from global airlines
- LanzaTech is led by an exceptional management team with a proven track record

LanzaTech Captures Carbon and Transforms It Into Sustainable Products



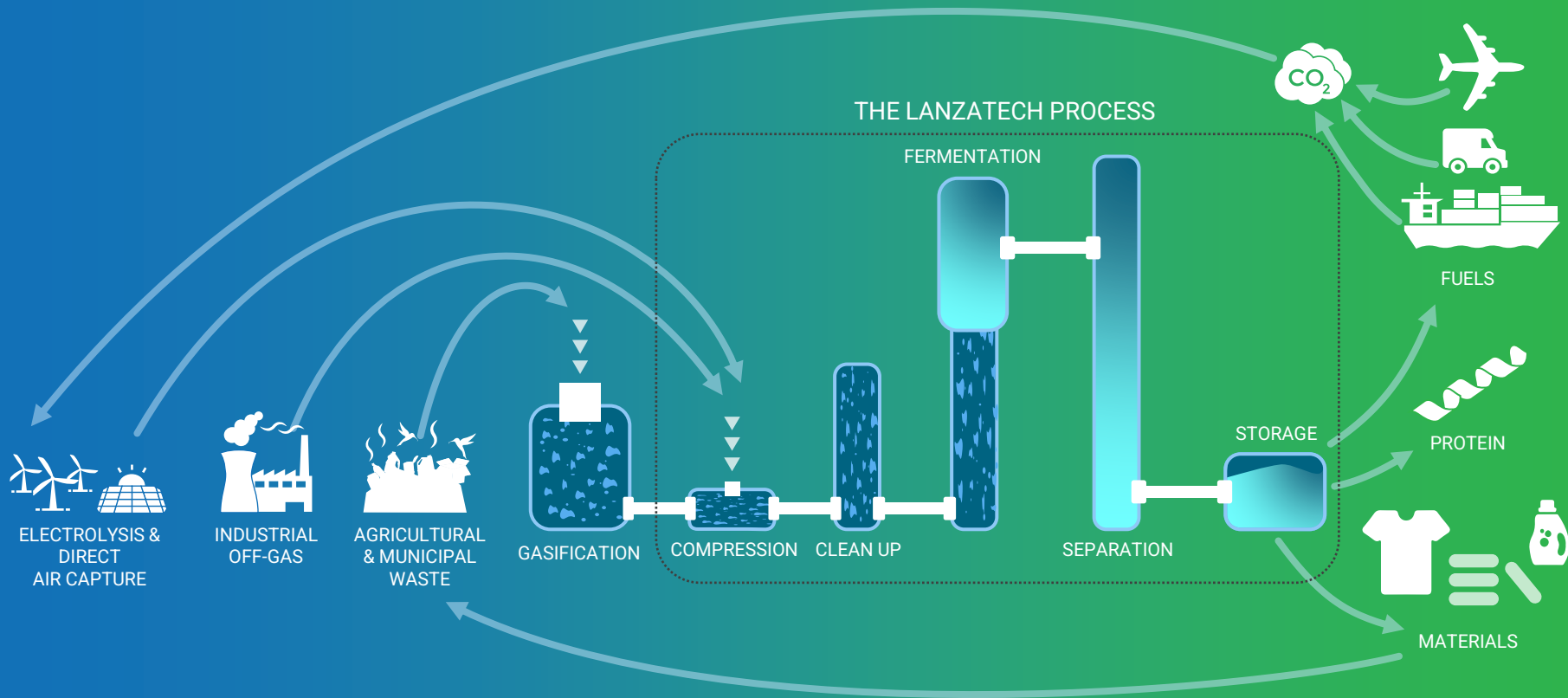
From waste . . .





... to products

LanzaTech's Unique Transformation Process





**Operating at Commercial-
Scale Since 2018**

We Enable Commercial Production of Products People Want to Buy

Purified Ethanol



A beaker of purified ethanol with a CarbonSmart logo, a collection of cleaning products, and laboratory glassware.

PET Fibers




A green PET fabric, a spool of PET fiber with a CarbonSmart logo, and a black dress.

PET Resin



A collection of PET resin bottles and a spool of PET resin with a CarbonSmart logo.

Polyethylene



The first coextruded plastic bottle made from industrial carbon emissions.

EVA Foams



A white EVA foam shoe.

Sustainable Aviation Fuel



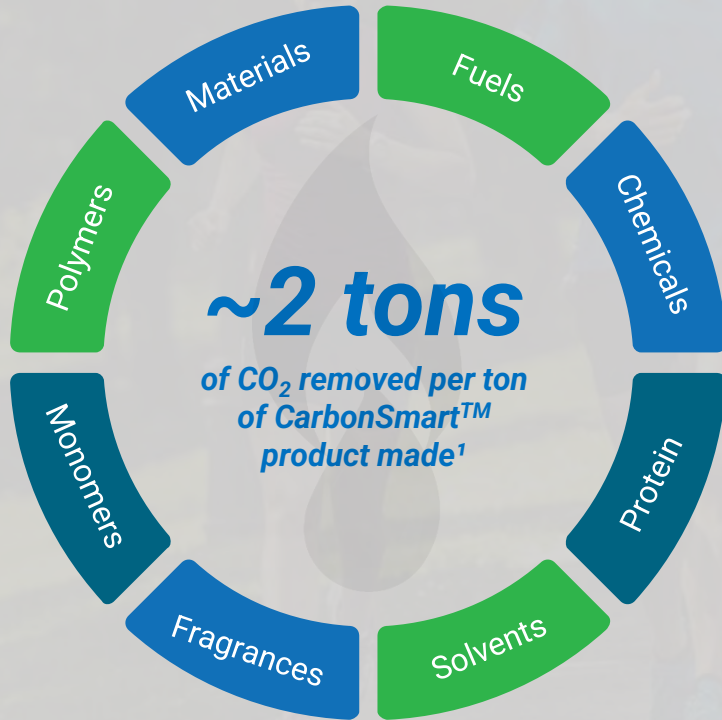
A man and a woman standing next to an airplane, and a Boeing aircraft with a sustainable aviation fuel tank.

Glycols & Surfactants



A collection of glycol and surfactant products including Sunlight, OMO, and Coral.

Being CarbonSmart™



In a CarbonSmart™ world, carbon waste is transformed to nearly everything we use in our daily lives

LanzaTech generates profitable ROIs for partners, accelerating adoption of CarbonSmart™

Products with CarbonSmart™



\$1T Addressable Market²

Potential for **>1 billion** tons/year of product from waste feedstocks

¹ LanzaTech management; ² Per Grand View Research (2019), Allied Market Research (2018), The Business Research Company (2019), Technavio (2019), Fortune Business Insights (2019) and Knowledge Sourcing Intelligence (2020).

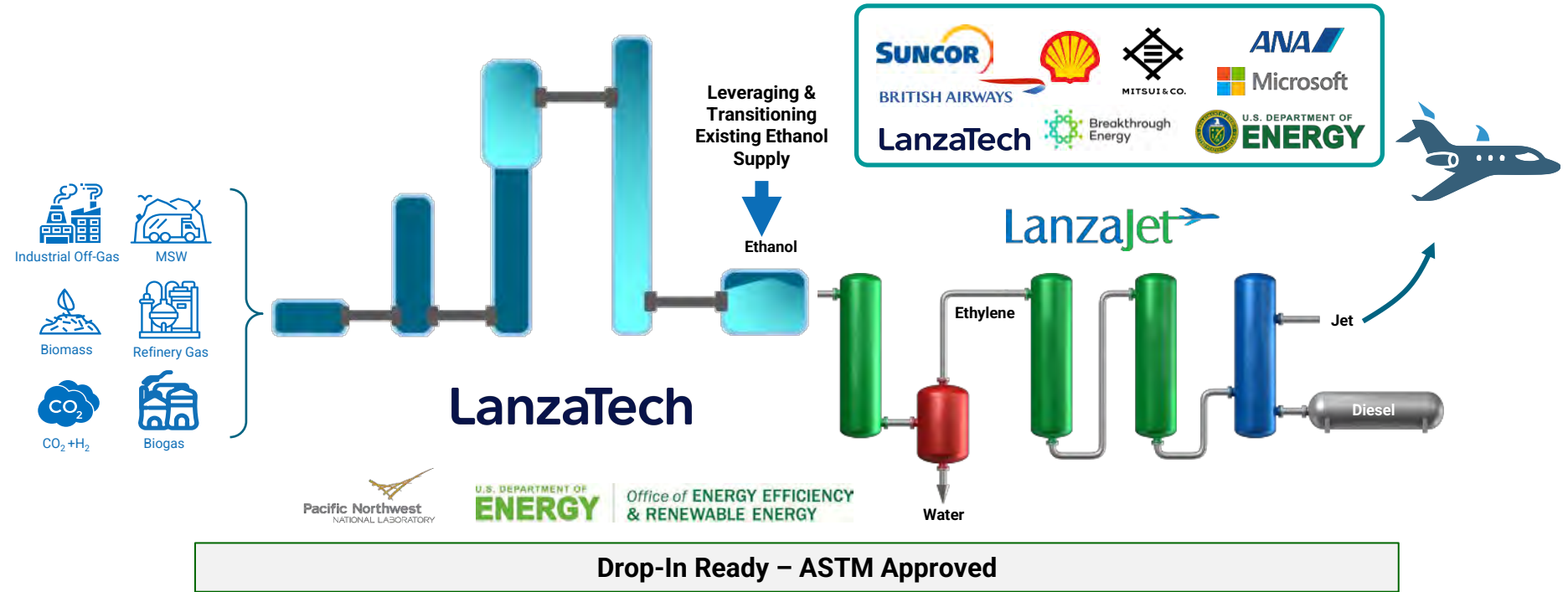
**We produce
chemicals for
everyday
products**



**We produce
SAF through
the LanzaJet
platform**



LanzaJet Turns Carbon Waste to Sustainable Aviation Fuels



We Design and Engineer Commercial Scale Projects



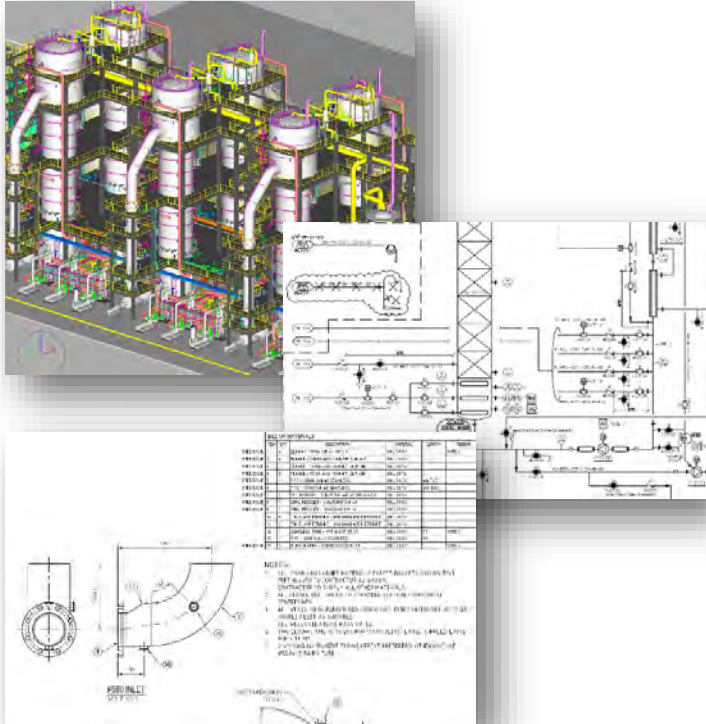


**LanzaTech's engineering platform
delivers commercial-scale plants**

Global Plant Deployment – Projects in Operation, Construction, and Engineering



With Experience Comes Repeatability, Speed, and Efficiency



Knowledge Institutionalized

- Design package standardized & templated
- QA/QC program & work processes at ISO-9000 level
- Industry-standard engineering work products

Leveraging Best Practices

- Firm scope definition and establishment of design basis
- Value engineering
- Increased LanzaTech involvement start to finish
- Employee training

Early Alignment on Project Budget

- Budgeting becoming increasingly accurate and less time consuming
- Existing quotes and established EPC relationships provide higher accuracy

Global Impact – Steel in the Ground



Commercial Plants in Continuous Operation

>150kmta Capacity Across Commercial Scale Facilities

Shougang LanzaTech



- Caofeidian, China
- 1st commercial plant (2018)



Shougang JiYuan



- NingXia, China
- 2nd commercial plant (2021)



NingXia Binze



- NingXia, China
- 3rd commercial plant (2022)





>240,000 tons of carbon dioxide avoided

Demonstration-Scale Plants Support Use of Diverse Feedstocks

Sekisui 1/10th Plant **SEKISUI**

- Kuji City, Japan
- Gasified Municipal Solid Waste (MSW)
- Mechanical Completion (2022) – Commissioning Stage



Sekisui pilot-scale plant in Japan has been producing ethanol from gasified MSW since 2017



Suncor Energies **SUNCOR ENERGY**



- Edmonton, Canada
- Gasified Biomass
- 2nd Generation Bioreactor
- Mechanical Completion (2022)

Late-Stage Construction on Other Commercial Projects

ArcelorMittal Ghent

- Ghent, Belgium
- Steel Mill Off-Gas



IndianOil Corporation

- Panipat, India
- Refinery Off-Gas

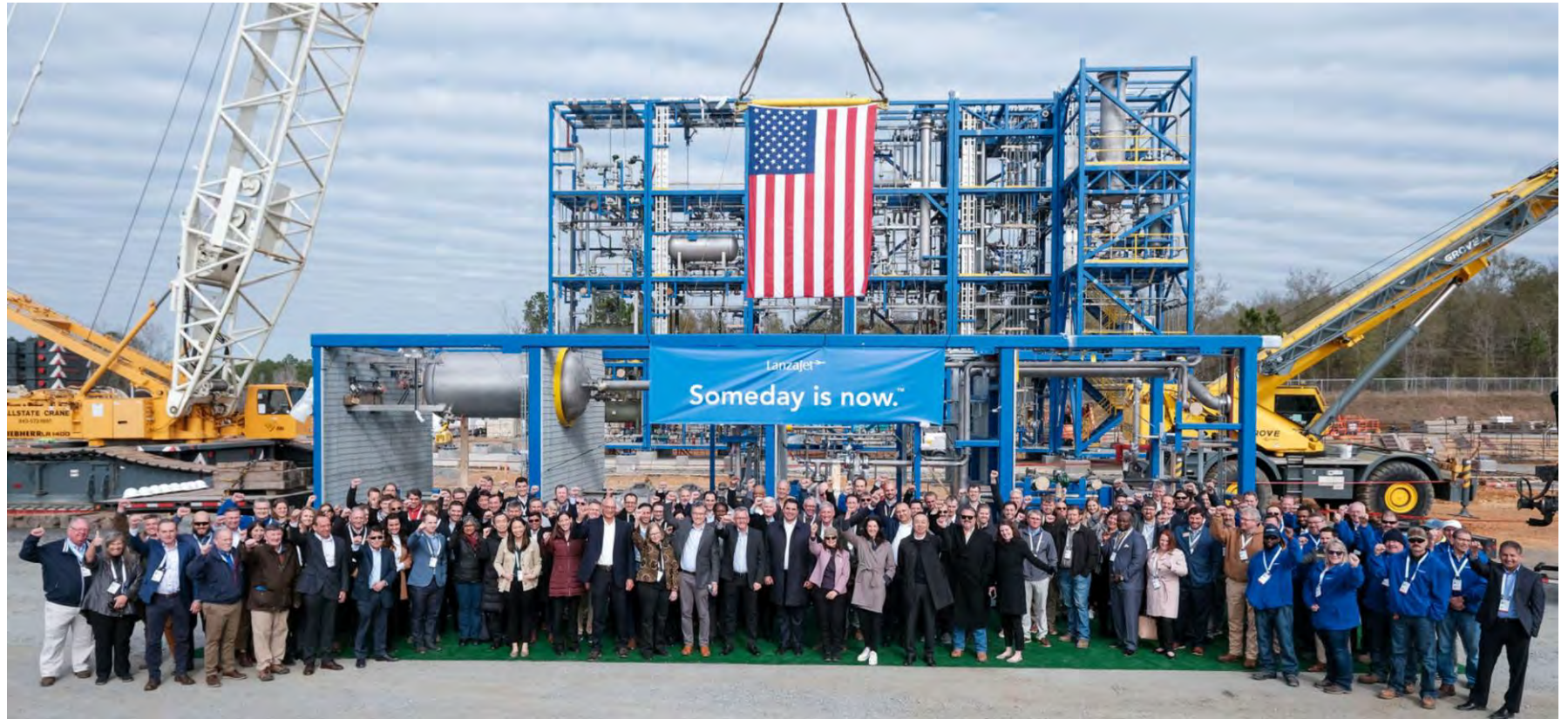


Guizhou Jinze

- Guizhou, China
- Ferroalloy Off-Gas



Major LanzaJet Construction Milestone in December 2022





Gasified Solid Waste

1 1/10th Commercial Scale Facility
in Commissioning



Industrial Off-Gas

3 Commercial Plants in Operation
3 in Late-Stage Construction



Gasified Biomass

1 Demonstration-Scale Plant



CO₂ Direct Air Capture

Future-Ready Platform to Utilize DAC



A photograph of two female scientists in a laboratory. The scientist on the right is wearing a red lab coat, yellow safety goggles, and black gloves, and is holding a petri dish. The scientist on the left is wearing a white lab coat and black safety goggles. They are both looking at the petri dish. The background shows laboratory equipment and shelves.

We Harness Biology

LanzaTech is at the Cutting Edge Across Multiple Capabilities & Processes

Fermentation

Benchtop & Pilot Scale Gas-Fed Reactors with Integrated Analytics & Data Collection



World's First Anaerobic Biofoundry

Fully Automated Engineering & Screening of Thousands of Anaerobic Gas Fermentation Strains



Global Leaders in Gas Fermentation

Advanced AI & Modeling

Fully-Integrated Predictive Metabolic & Process Models



World-Class Synthetic Biology Platform

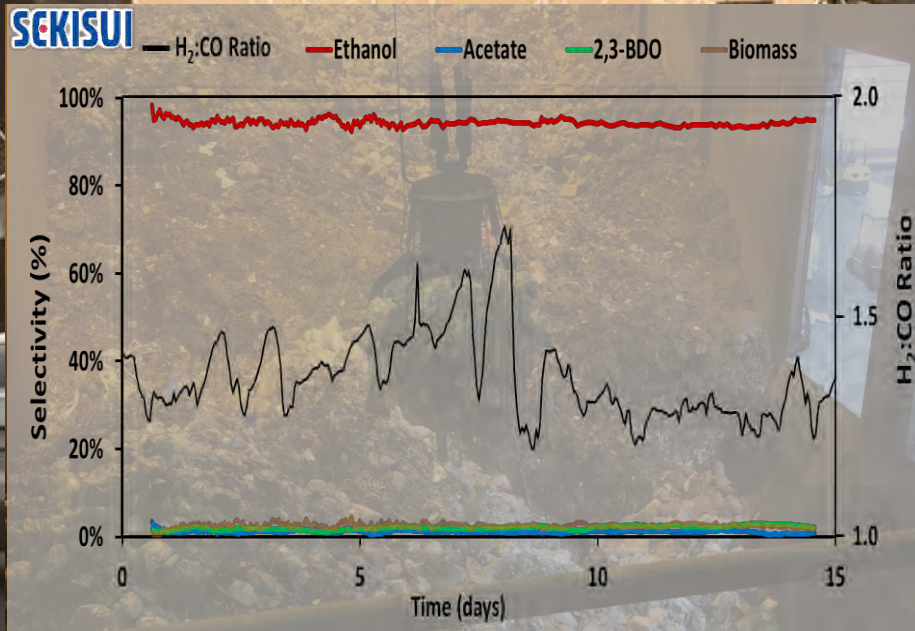
Rapid *In Vitro* Prototyping Platform

Predictive & Low-Cost, Cell-Free Prototyping of Enzymes & Pathway Designs

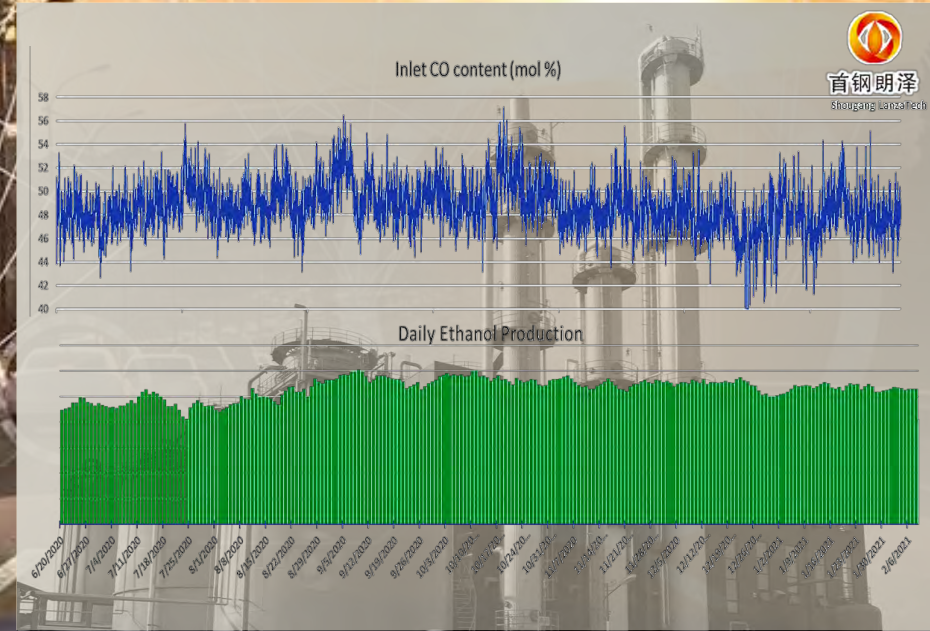


Fermentation Transforms Chaotic Inputs into Selective Outputs

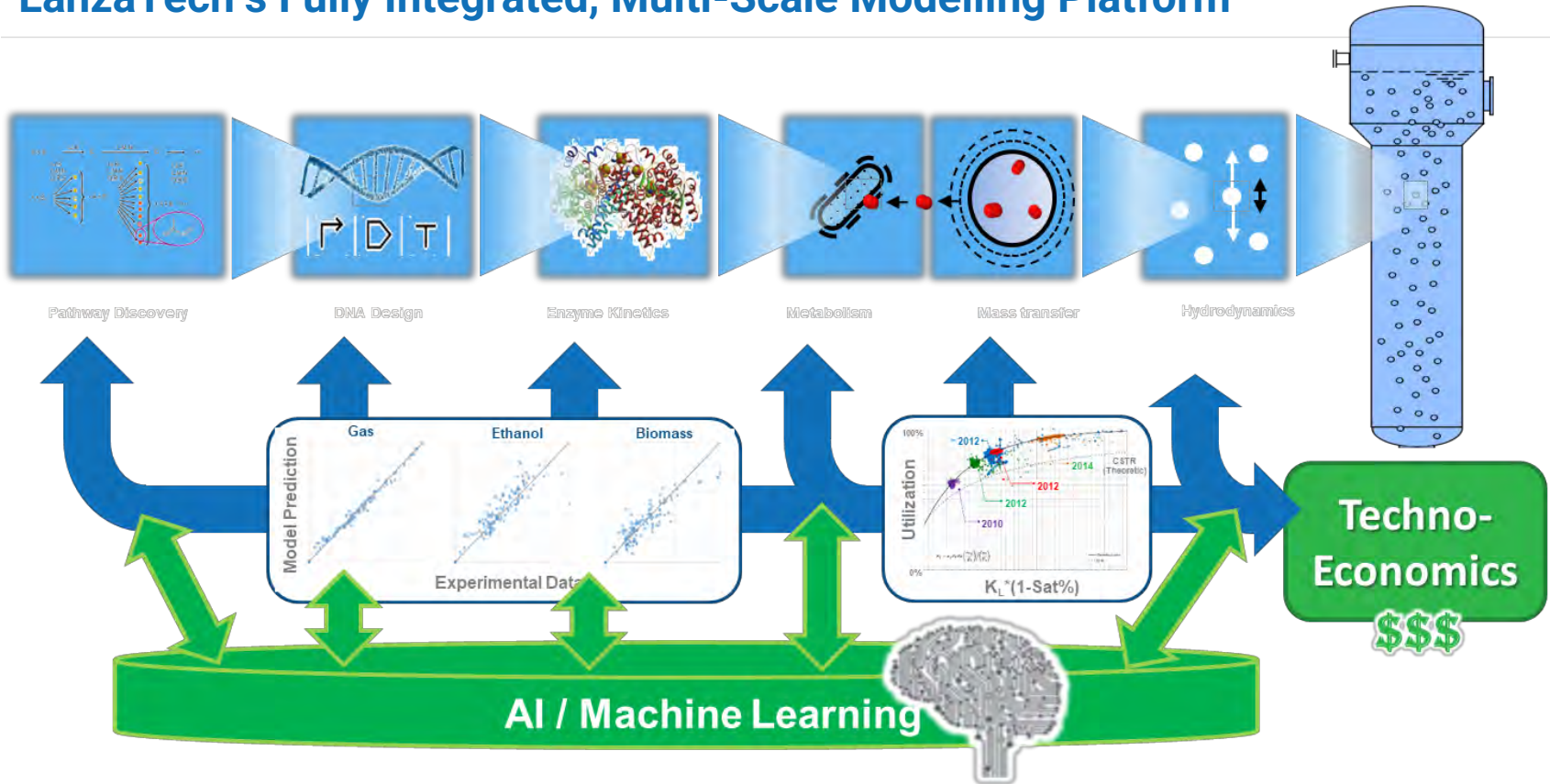
Input: Municipal Solid Waste¹



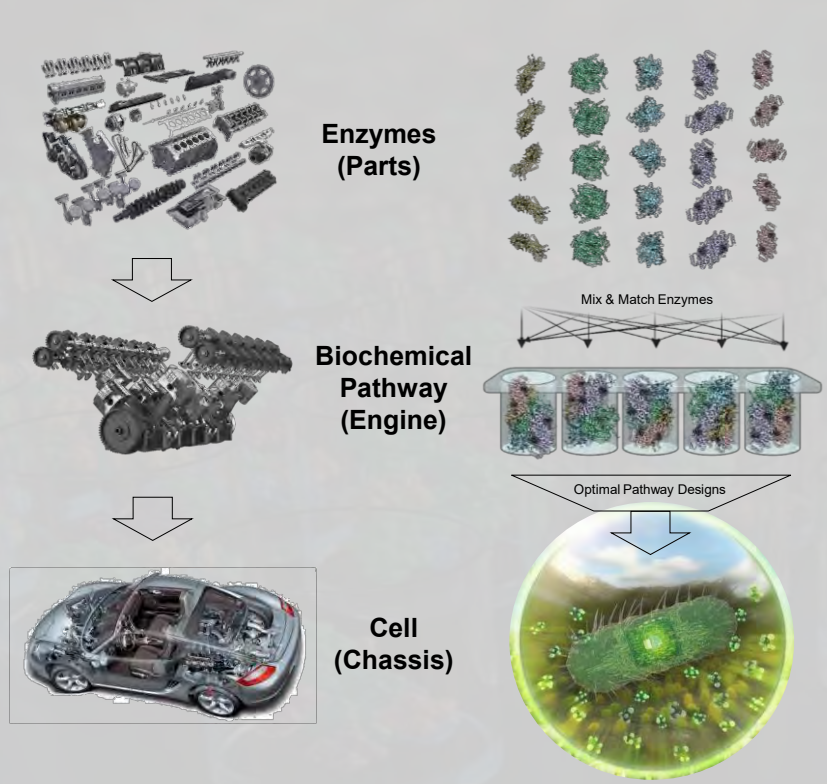
Input: Steel Mill Gas²



LanzaTech's Fully Integrated, Multi-Scale Modelling Platform



Rapid *In Vitro* Prototyping Platform to Inform Cellular Design



Enzymes
(Parts)

Biochemical
Pathway
(Engine)

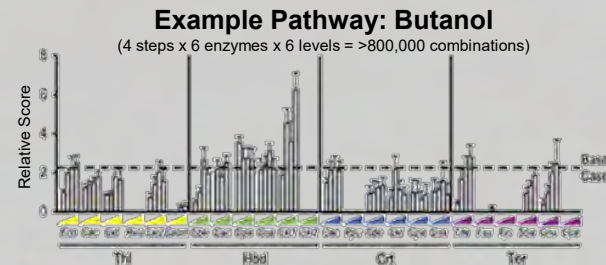
Cell
(Chassis)

Cell-Free Synthetic Biology

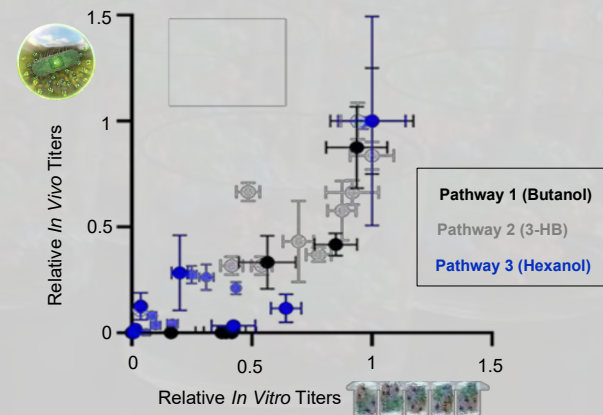
Rapid prototyping of optimal enzyme combinations for a biochemical pathway before going into cells

Predictive to cellular performance across many pathways

Magnitude increased speed and lower cost



Correlation *In Vitro* to Cells

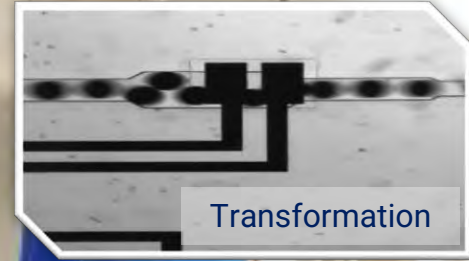
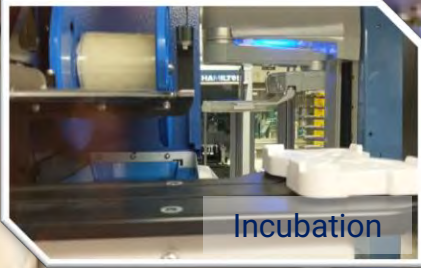


Source: Karim, et al (2020) Nature Chemical Biology 16: 912-919, Voegeli et al (2022) Nature Communications 13: 3058. Cell image credit: Justin Muir. Other images generated with Biorender.com.

LanzaTech's World-First Anaerobic Biofoundry

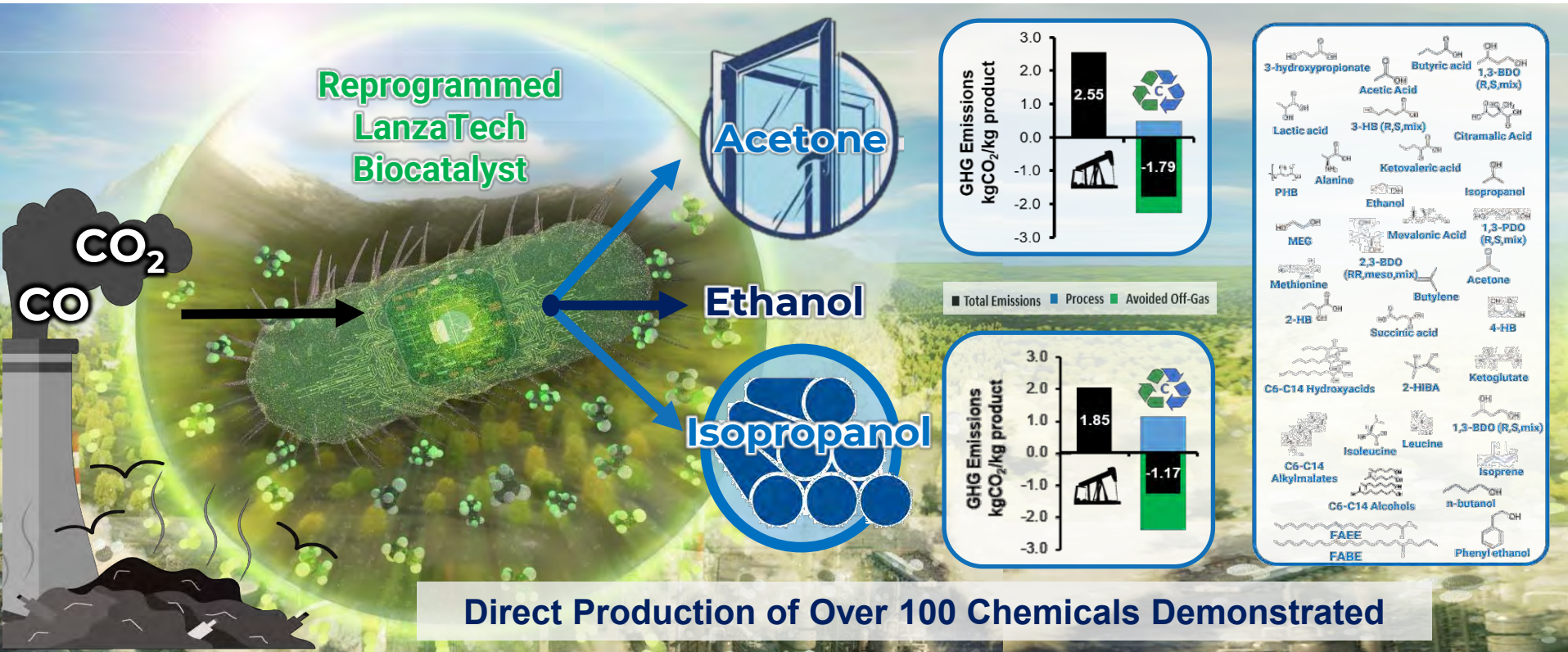
Modular & Fully Integrated

Automated Strain Screening



Automated Strain Construction

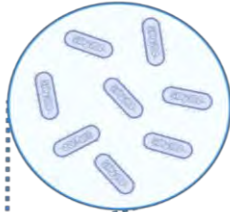
Enabling Carbon-Negative Chemical Production from Industrial Gasses



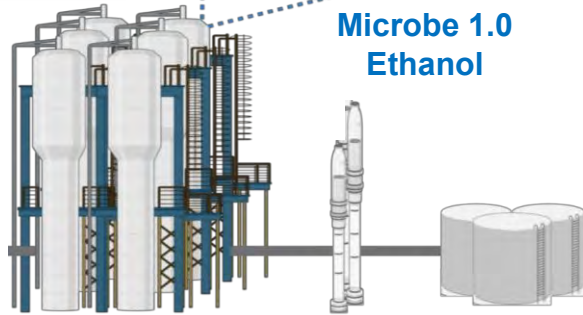
What Do You Want To Make Today?

“Hardware”

Existing Commercial Plants



Microbe 1.0
Ethanol



“Software”

New Strains To Expand Product Portfolio & Efficiency



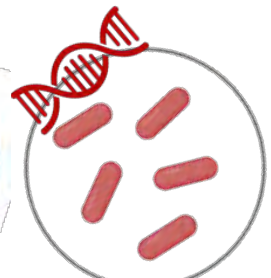
Microbe 2.0
Isopropanol



Microbe 3.0
Acetone



Microbe 4.0
MEG



etc

✓ Same reactor ✓ Same feedstock ✓ Same process

DISRUPTION =

1) Rapid Reaction to Market Fluctuations 2) Feedstock ≠ Commodity

Providing Solutions To Industry Leaders Across Sectors

Tailored Microbes for Specific Applications



Joint News Release
 LanzaTech and BASF achieve first for chemical production
 Industrial exhaust gas used to produce ethylene glycol
 White biotechnology enables carbon capture
 May 17, 2021

LanzaTech, with the support of Danone, Discovers Method to Produce Sustainable PET Bottles from Captured Carbon
 Proof of concept for direct production of monoethylene glycol (MEG), a key building block in sustainable PET production, is achieved
 Givaudan
 May 26, 2022

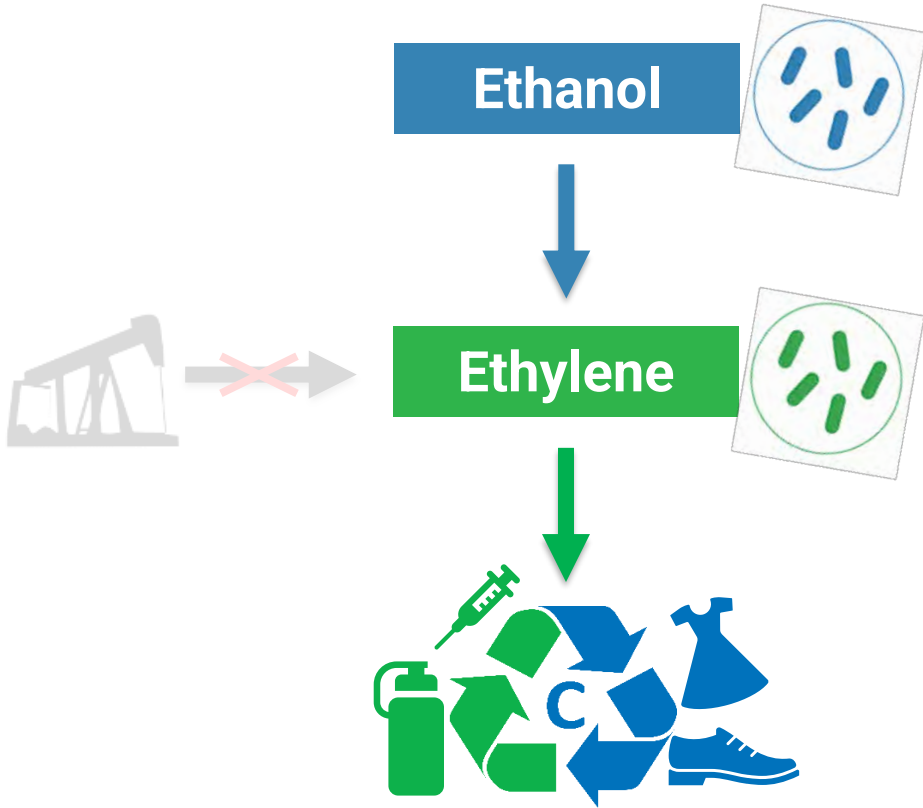
Givaudan and LanzaTech announce their collaboration on developing sustainable fragrance ingredients from renewable carbon

etc

Case Study: Continuous Ethylene Production from CO₂



Case Study: Ethylene via Ethanol Pathway



- Ethylene is a key building block for PE, MEG, EVA, and surfactants
- LanzaTech's CarbonSmart products are made via dehydration of ethanol to ethylene
- Direct production reduces process cost and energy
- Global ethylene market¹:
 - 200 MTA in 2021
 - \$170B market by 2030

¹<https://www.marketresearchfuture.com/reports/ethylene-market-931>;
<https://www.statista.com/statistics/1067372/global-ethylene-production-capacity/>





Virtual Facilities Tour

Business Model Overview

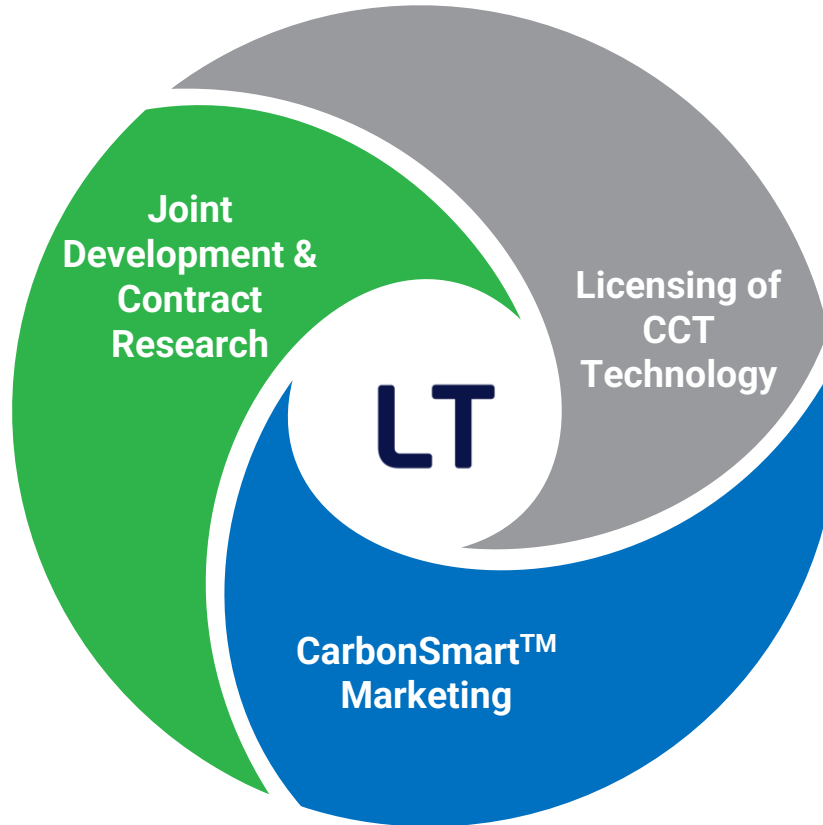


Business Model

Integrated and Complementary Business Model

Joint Development & Contract Research

- Leverages LanzaTech's synthetic biology, AI, and machine learning expertise to develop new products
- Expands addressable product markets and drives demand for CCT facilities
- Facilitates LanzaTech's continued investment in disruptive synthetic biology platform



Licensing of CCT Technology

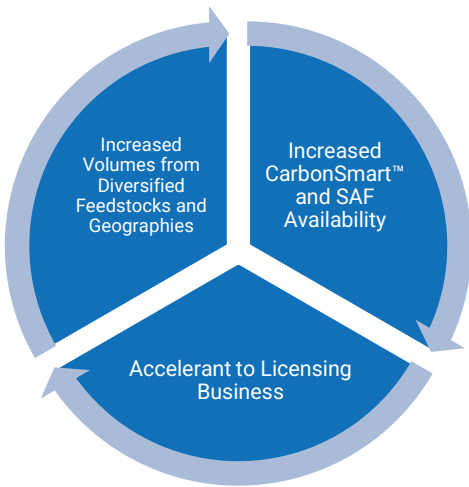
- Combination of one-time and recurring revenues to deploy LanzaTech carbon capture and transformation (CCT) plants
 - One-time revenues - equipment, engineering and startup services
 - Recurring revenues - royalties, microbes and media sales, and software licensing

CarbonSmart™ Marketing

- Offtake from CCT plants to supply brands with sustainable products
- Upgrade products with conversion partners into a huge variety of drop in polymers, materials, and fuels

Transformative Partnership with Brookfield

- Brookfield Framework Agreement **unlocks sophisticated infrastructure capital** to invest in projects and **further validates the LanzaTech technology platform**
- **Capital-light solution** providing much-needed supply for the **massive, immediate, and rapidly growing demand** from CarbonSmart™ and SAF customers



Brookfield Partnership Revolutionizes LanzaTech Co-Development Strategy

+\$500mm

Equity commitment to invest in CCT projects meeting pre-agreed milestones; LanzaTech participates in project upside

Drives Revenue

LanzaTech receives its one-time and recurring project-related revenue

Brookfield

Broad Scope

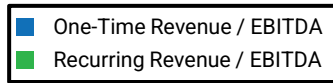
Global focus enables broad deployment of CCT technology

50% Offtake

LanzaTech eligible to take up to 50% of the offtake

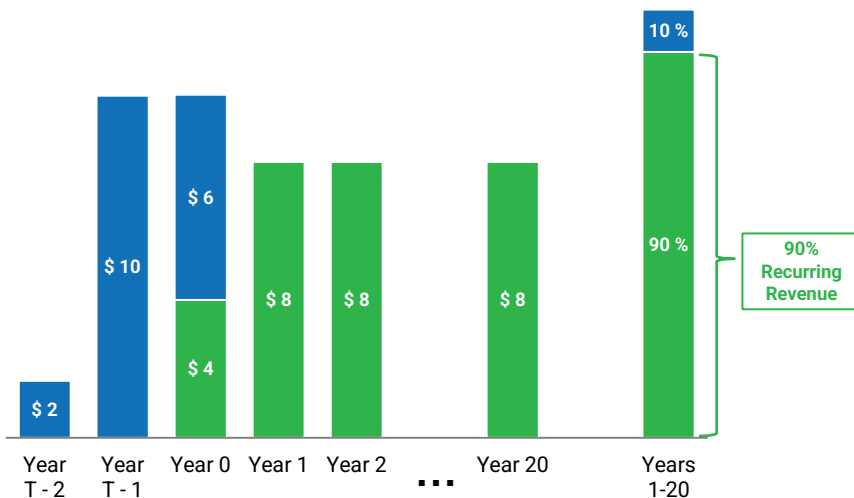
LanzaTech Unit Level Economics

(\$ in millions)

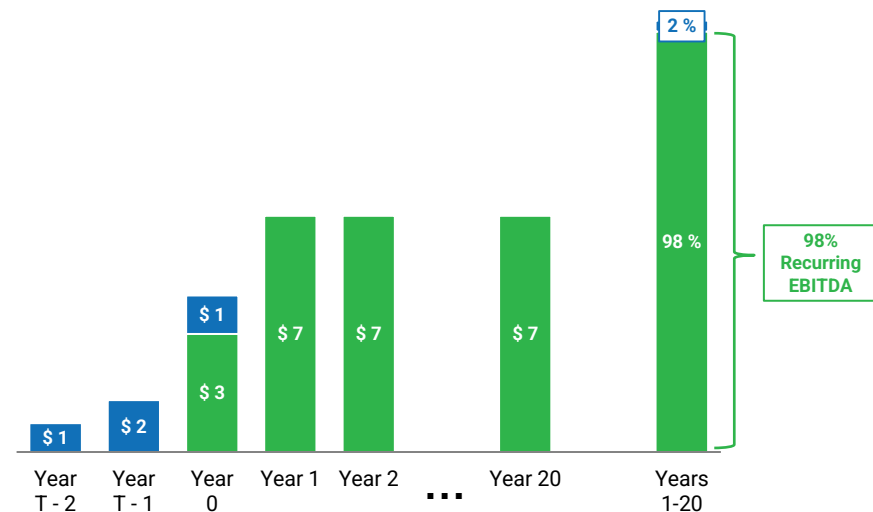


- Each carbon capture and transformation plant generates a combination of both one-time and recurring cash flows to LanzaTech
 - **One-Time Cash Flows:** Engineering Services, Startup Services, and Equipment Sales
 - **Recurring Cash Flows:** Royalties from Licensing, Microbes & Media, Monitoring & Software, and CarbonSmart™ related marketing fees

Expected Plant Level Revenue to LanzaTech



Expected Plant-Level EBITDA to LanzaTech



Source: LanzaTech management. Plant economics vary by region, size, feedstock, etc. The above is intended to be exemplary of the unit economics of plants that are currently being engineered or constructed

Customer Unit Level Economics

- Plant economics vary by region, feedstock, and chosen product
- **Economics are expected to be attractive** for plant sponsor, **exclusive of the benefit of carbon emission reductions**
- Further upside to plant economics from:
 - **Feedstock costs represent up to 40% of cost structure; as cost of carbon increases, this is expected to decrease substantially**
 - Price of carbon abated is excluded
 - Direct production of higher value chemicals

LanzaTech's 1st customer is building its 4th plant

Expected Carbon Transformation Plant Economics

Plant Level Data

Production (mtpa / million gpy)	50,000 / 16.7
Carbon Captured (mtpa)	~100,000
Project CapEx (\$mm)	\$150

Potential avoided cost of \$10mm per annum to the plant assuming a carbon price of \$100/mt

	Current (\$/mt)	Carbon Upside (\$/mt)
Revenues	\$1,115	\$1,115
Feedstock Costs	\$(250)	+\$100
OpEx Costs	\$(375)	\$(375)
Total Cash Costs	\$(625)	\$(275)
Cash Margin	\$490	\$840
Gross Cash Margin (\$mm per year)	\$25	\$42

Source: LanzaTech management. Plant economics vary by region, size, feedstock, etc. The above is intended to be exemplary of the unit economics of plants that are currently being engineered or constructed. The Company expects to continue to innovate around its platform technology in order to reduce operating expense and capital expenditures, but those innovations are not reflected in these estimates.



Closing Remarks

A Few Predictions

1876

“That’s an amazing invention, but who would ever want to use one of them?”

President Rutherford B. Hayes to Alexander Graham Bell

1895

“Heavier-than-air flying machines are impossible”

Lord Kelvin, President Royal Society

1943

“I think there’s a world market for maybe five computers”

Thomas Watson, Chairman IBM

1949

“Computer in the future may weigh no more than 1.5 tons”

Popular Mechanics forecasting the relentless march of science

1977

“There is no reason anyone would want a computer in their home”

Ken Olson, President, Chairman and Founder of Digital Equipment

1981

“640K ought to be enough computer memory for anyone”

Bill Gates

An aerial photograph of a large industrial facility, possibly a refinery or chemical plant. The site is filled with various structures, including large cylindrical storage tanks, complex piping networks, and several buildings. A prominent feature is a tall, orange crane or distillation column on the right side. The facility is surrounded by a mix of greenery and paved areas. The text is overlaid on a semi-transparent grey background.

*Predictions are simply extrapolations
of the past...*

*...innovation expands
the 'art of the possible'*

*...today's 'unimaginable' is tomorrow's
'conventional wisdom'*

Busted Myths About Gas Fermentation

1992 *All gas fermenting acetogens make acetate as their sole product*

2000 *Gas fermentation of CO/H₂ is inherently mass transfer limited, preventing commercial use*

2009 *Gas fermenting acetogens are genetically inaccessible*

2016 *The complexity of working with anaerobic acetogens is too high for high-throughput engineering to become possible*

2019 *Other than acetate or ethanol it is impossible to make any other product at high selectivity through anaerobic gas fermentation*



Integration

is at the core of what we do
at LanzaTech



We harness biology

CONFIDENTIAL

**We produce
chemicals for
everyday
products**



We Design and Engineer Commercial Scale Projects



Our success leverages world-class acumen



finance, legal, commercial, and operations



**We are on a
journey to change
the way products
are made**

钢朗泽

SHOUBANG
LANZATE

Join Us on This Journey

**>47 Million Gallons
of Ethanol Produced**



**3 Commercial Plants
In Continuous Operation**



**World Class Partners Making
Commercial Products**



**>365 Global Employees
Top Tier Talent**



Where does your carbon come from?

