Fueling a sustainable future

Overview

October 7, 2023

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SAF Market Projections through 2030

$20 Billion

USD

>61%

CAGR

Source: Coherent Market Insights Report, July, 2023

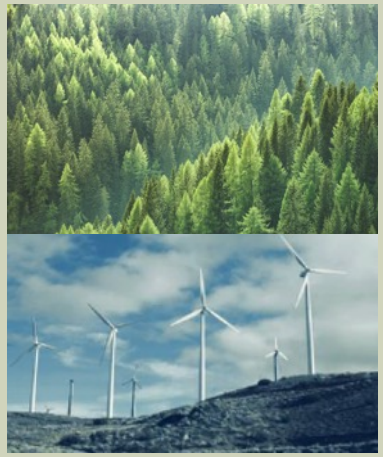
The **global SAF market is growing at a rapid pace**, and this can be attributed to the increasing passenger traffic and growing number of aircraft orders.

Moreover, **growing government support and requirements** for development of alternative jet fuels due to rising environmental concerns are also expected to propel market growth.

SAF is an ideal substitute for petroleum-based jet fuel and it offers several advantages such as lower carbon emissions and greater energy efficiency over conventional jet fuels.

Decarbonizing Aviation to Net Zero – Multiple Levers

OPERATIONAL EFFICIENCY



OFFSETS & MARKET BASED MEASURES

ADVANCED TECHNOLOGY

SUSTAINABLE AVIATION FUEL (SAF)

The industry is aligned that SAF is the single greatest in terms of impact to achieve net. zero – 65%

Building a Global Market

Growing Supply

	USA	WORLD
SAF Production 2022	**16M** GALLONS / YEAR	**119M** GALLONS / YEAR
Fossil Jet Fuel Consumption 2019 (PRE COVID)	**21B** GALLONS / YEAR	**96B** GALLONS / YEAR

+

New...

Goals

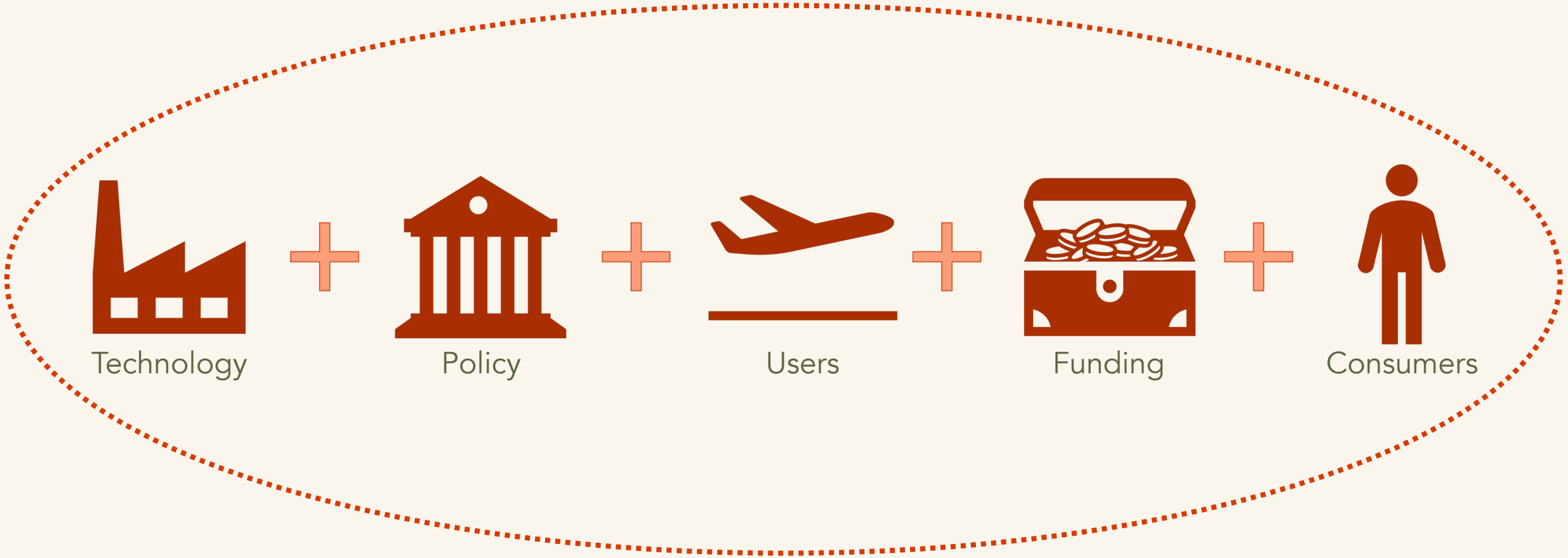
Mandates

Incentives

Scale in Technology & Production

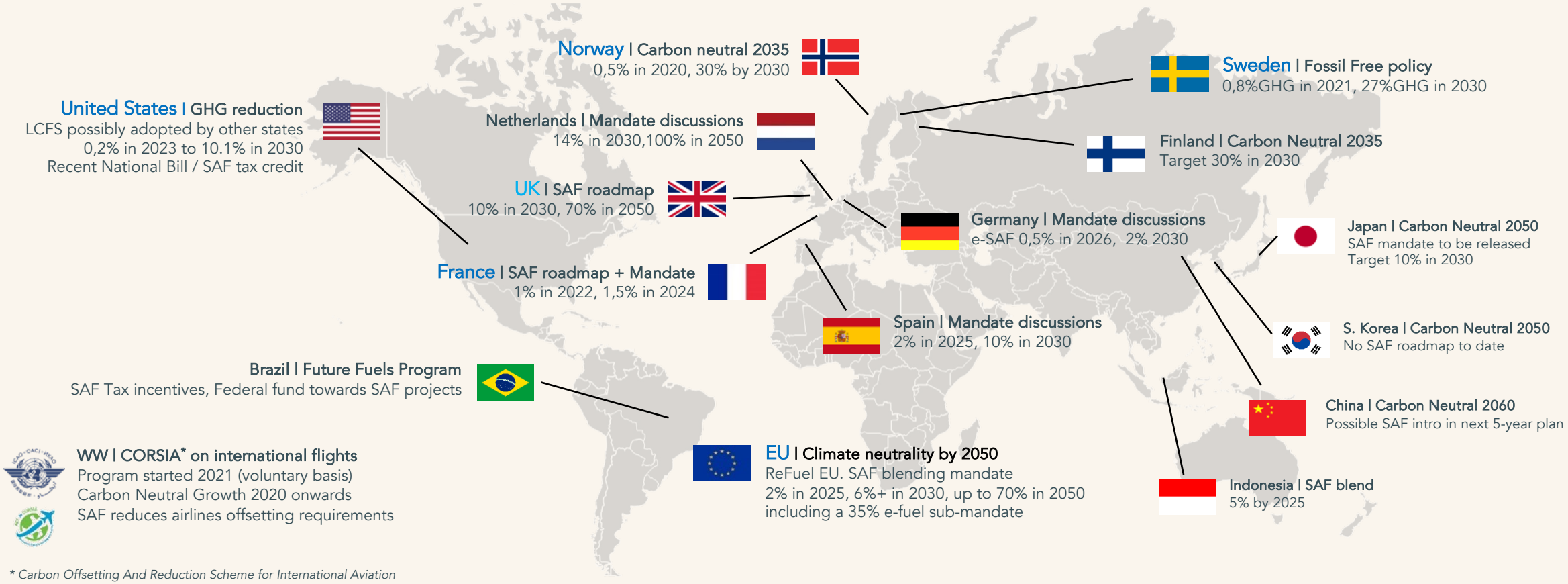
Sources: World = IATA, US = Various including Regulatory Incentives, including RFS

Industry is Making Substantial Progress – More Yet to Do



Stable Long-Term Policy is Important

Legislation already in place.
Legislation soon to be in place.



** Carbon Offsetting And Reduction Scheme for International Aviation*

LanzaJet - History of Leadership in SAF

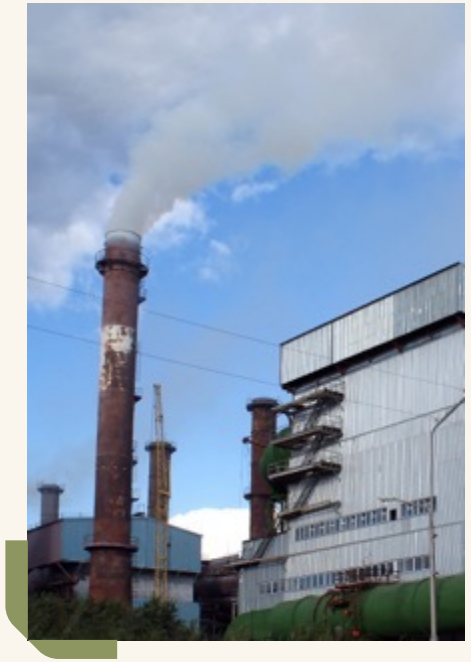
1st TO MARKET	Received ASTM approval for ethanol ATJ in 2018 using LanzaJet ATJ data, followed by commercial flights
BEST TECH	13+ years of technology development now being deployed commercially
INDUSTRY LEADERS	Industry-leading shareholders, supporters and partners
WORLD'S 1st	The world's first ATJ plant, fully funded, committed offtake in place for the next 10 years
1 BILLION+ GPY	Projects around the world: US, EU, UK, Japan, India, Australia, and New Zealand
EXCELLENT ATTRIBUTES	Significant reduction in GHG emissions, 95% reduction in particulates, increase in energy density
WORLD-CLASS	Building for growth and scalability with a world-class team of leaders, engineers, and innovators

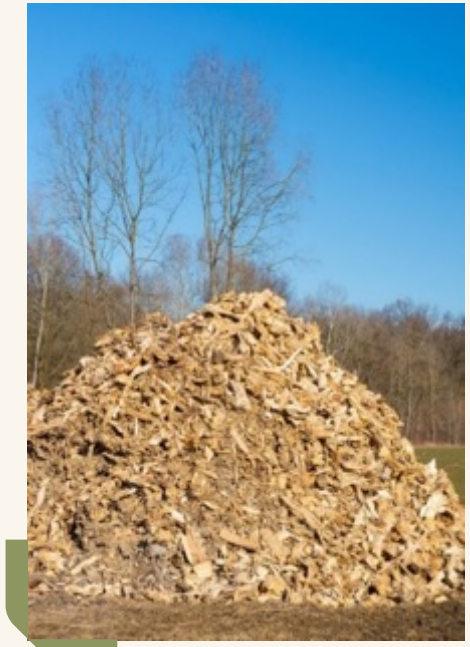
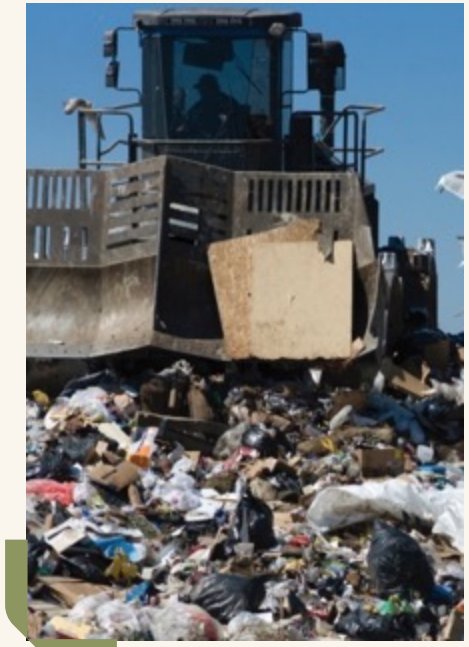
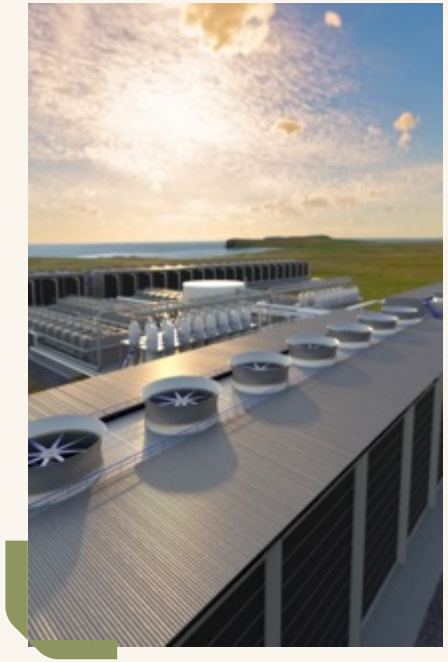
World-Class Funders and Supporters

- ✓ Funding commitments
- ✓ Commercial-scale projects commitments
- ✓ Offtake commitments
- ✓ Knowledge, support, and secondees commitments
- ✓ Feedstock supply flexibility commitments
- ✓ Innovative commitments

Ethanol ATJ - Powerful Versatility in Feedstock

Just about any source of waste or pollution…



…can be transformed into SAF using ethanol ATJ

LanzaJet - Leading Ethanol Alcohol-to-Jet (ATJ) Technology

High selectivity to SAF, high carbon conversion, abundant feedstock, and platform versatility

30B Gallons Available Today

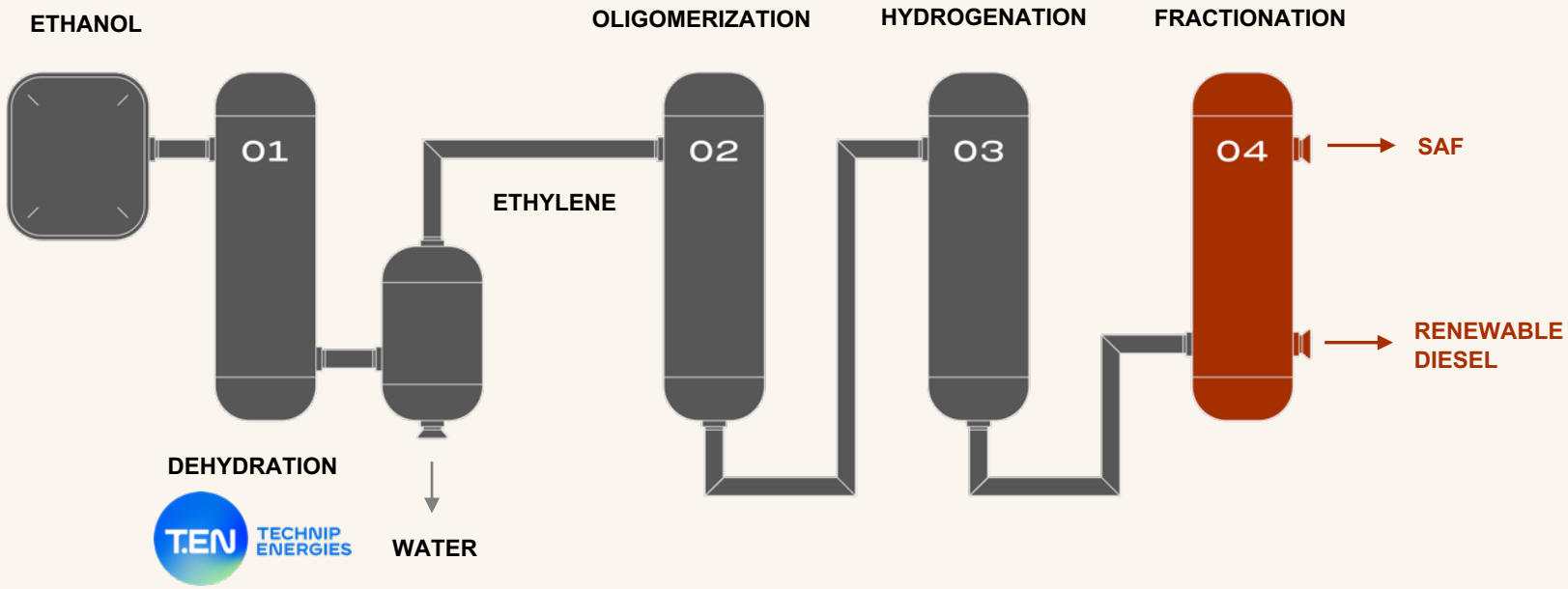
Leveraging & Transitioning Existing Ethanol Supply

- Existing low-CI ethanol production
- Cellulosic ethanol
- Waste-based ethanol

Unlimited Feedstock Potential

Building New Waste-Based Ethanol Supply

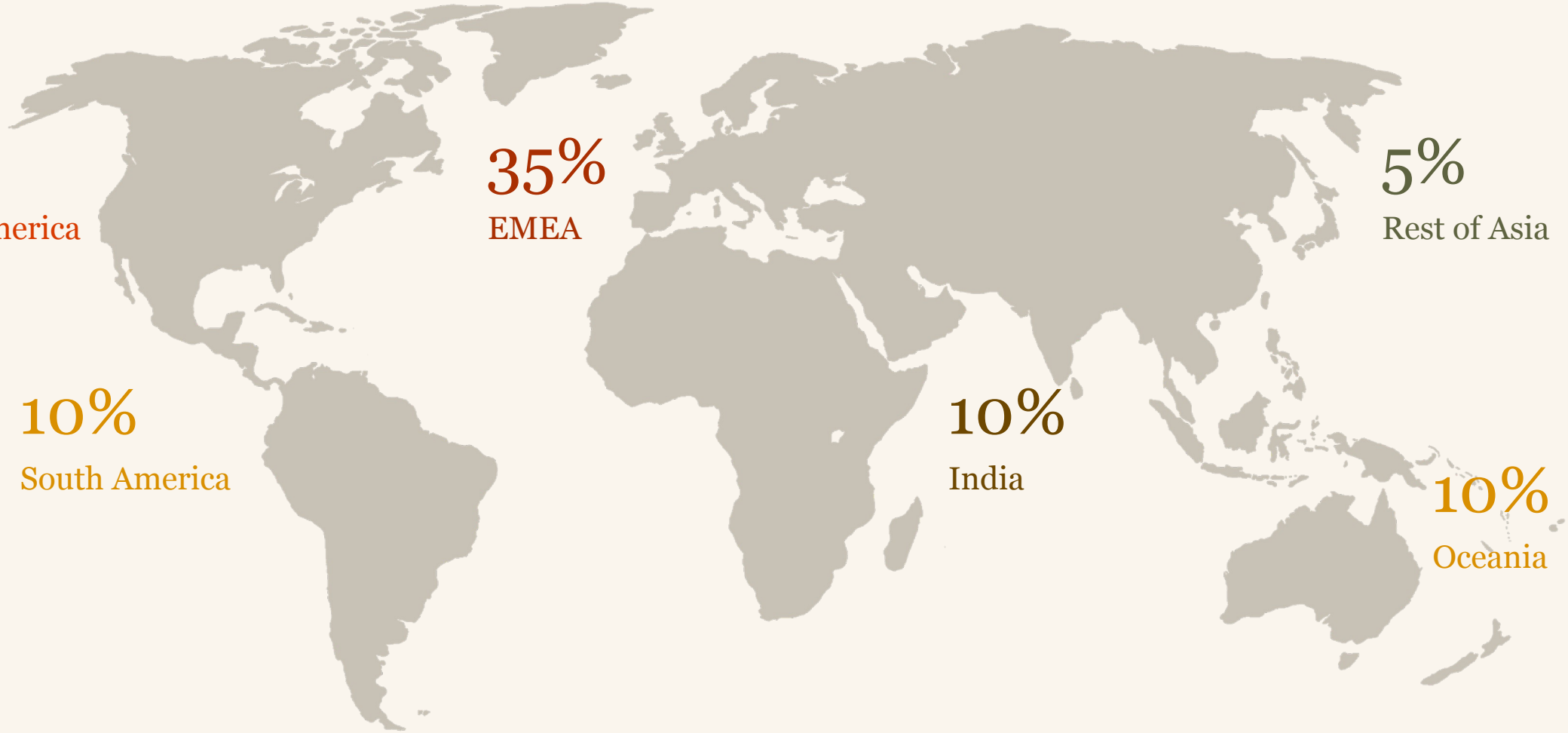
- Industrial / landfill off-gasses
- Agricultural waste and residues
- Municipal Solid Waste (MSW)
- Corn fiber cellulose / sugarcane bagasse
- Direct Air Capture (DAC) – CO_2 + H_2



Leading the Way – World's First Ethanol ATJ Plant

- The first and only SAF company to have funded and constructed a commercial ATJ biorefinery; construction complete in 2023
- Located in Soperton, GA – 100 miles West of Savannah, GA
- Total SAF/RD production of 10M GPY (90% SAF / 10% RD)
- Ethanol feedstock is multiple including sugarcane ethanol, cellulosic ethanol, and waste-based ethanol
- Site sits on 18 acres of land

Strong Global Activity

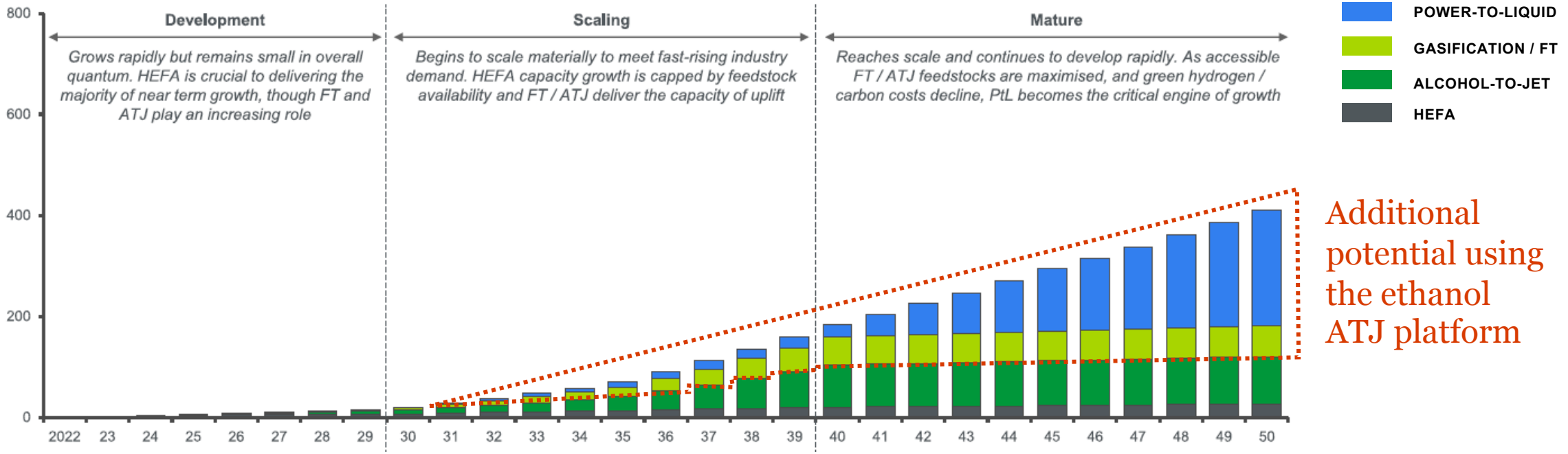


LanzaJet Progress in Japan

ATJ Technology – Global Growth Potential

ATJ has the significant potential for supply growth as others hit capacity limits

SAF PRODUCTION BY TECHNOLOGY PATHWAY (2022-2050)
MILLIONS OF TONNES



Additional potential using the ethanol ATJ platform

Source: LEK report Fueling the future of aviation (2023) with sources from Bergero et al. (2023), IATA, ATAG (2020), WEF (2021).

Someday is now.

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