



LanzaTech

**CELEBRATING
10 YEARS**

Creating a Carbon Smart Future!

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LanzaTech
capturing carbon. fueling growth.

52M

lbs consumed/day

100M

people economically dependent



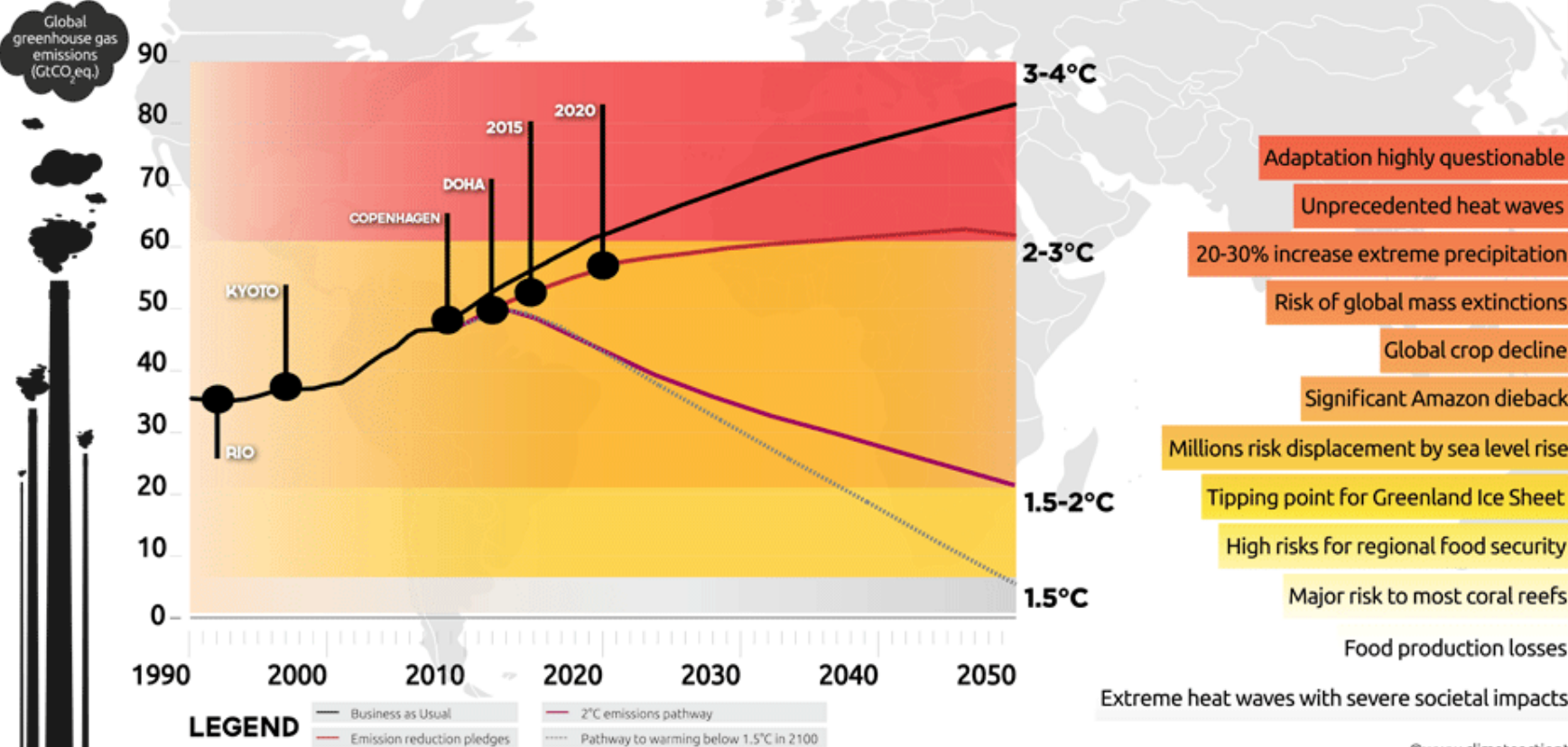
-50%

Reduction in area suitable for
growing by 2050



STAYING BELOW 2°C: THE CHOICES WE FACE

With current pledges on the table to cut emissions, we are heading to a 3.3° C warming future. No further action before 2020 will limit society's choices. As temperatures rise, so do the impacts.

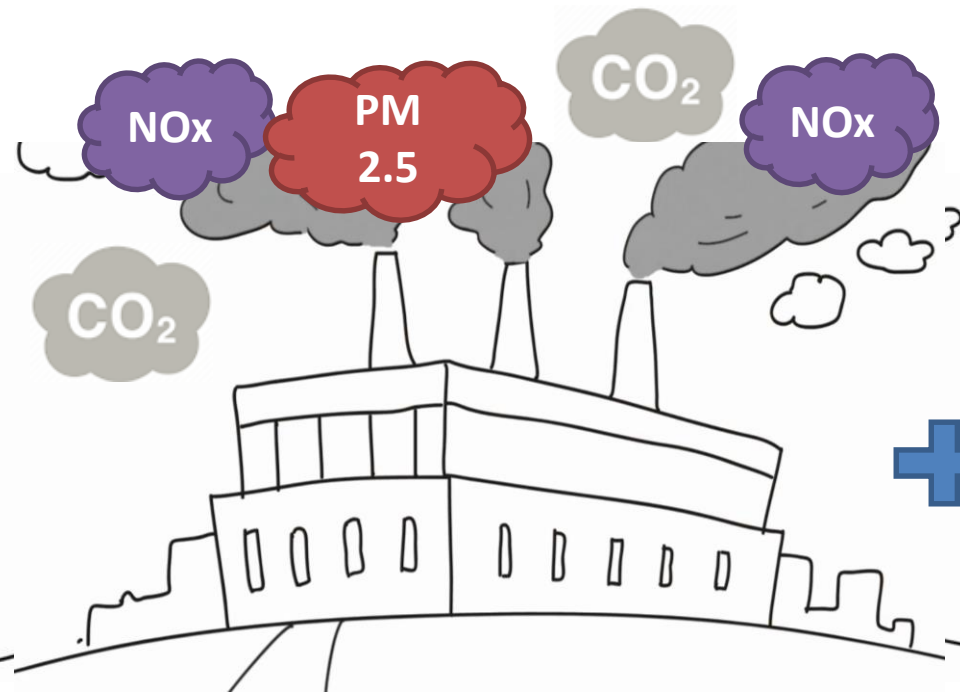


©www.climateactiontracker.org
Ecofys | Climate Analytics | PIK



FOSSIL RESOURCES ARE IN MANY OF OUR DAY TO DAY PRODUCTS... EVEN THINGS WE DON'T REALIZE

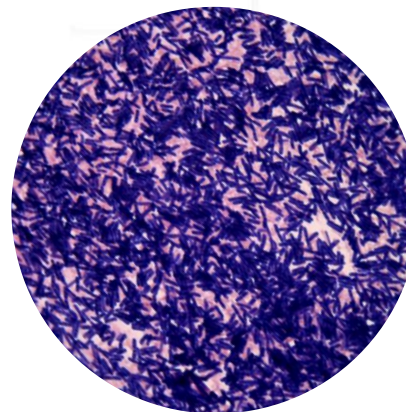




+



Ethanol



CLEAN FUEL, PLATFORM CHEMICAL



RECYCLING CARBON AROUND THE WORLD



首钢朗泽
Shougang LanzaTech

Caofeidian, China

16M
gallons/year



RECYCLING CARBON AROUND THE WORLD



ArcelorMittal

Gent, Belgium

21M
gallons/year

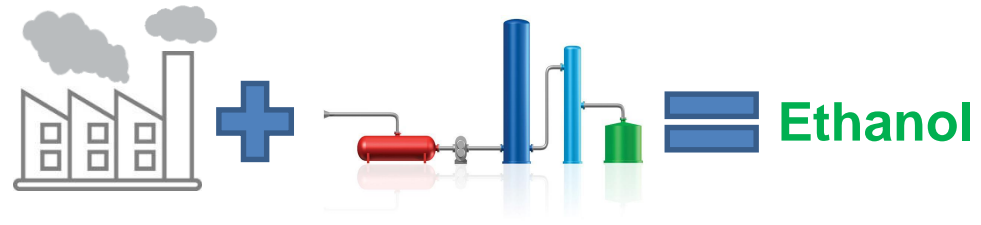


Accelerating the Path to a Low Carbon World.


*ONE 20M gpy LanzaTech project can fuel
100,000 cars/ year...
While saving the emissions of 80,000*



FROM MILL TO WING

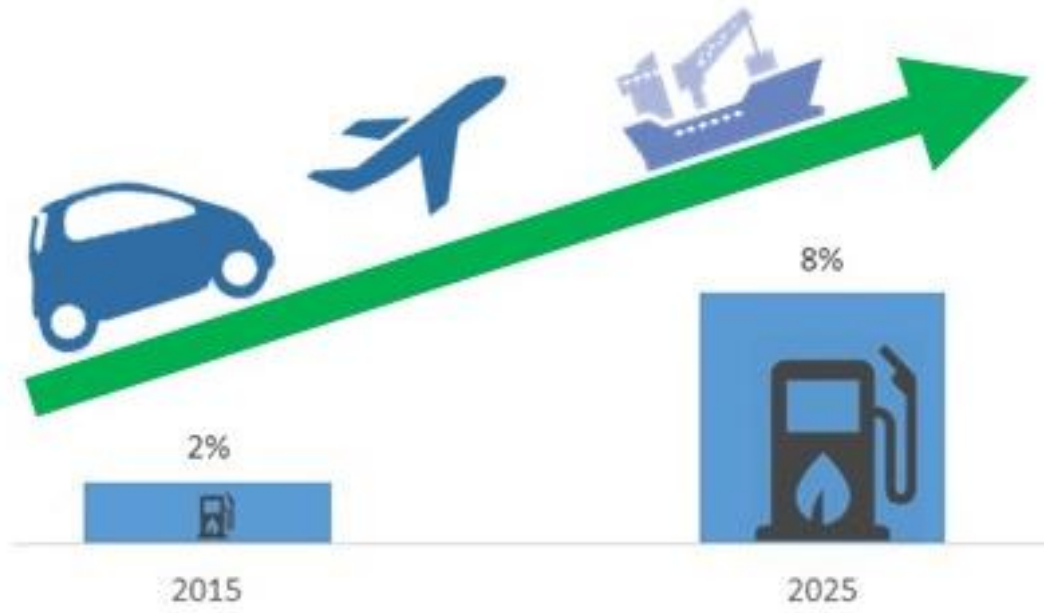


Chemical
Synthesis



Diesel
&
Jet Fuel

A Carbon Smart World



9 years to:

- 95-100% of global road & aviation biofuels
- 400-GWh or 200-Mgal of facilities



below50 Founding Companies

below50 is the beginning of a journey.

Conventional Ethanol

COPERSUCAR
POET
DU PONT
novozymes®

Lignocellulosic Ethanol

DSM
DU PONT
POET
novozymes®
CLARIANT
GranBio

Engineered Photosynthesis

Audi
JOULE

Power to Fuels (gas & liquids)

Audi

Waste Gas to Fuels

LanzaTech

Woody Biomass to Fuels

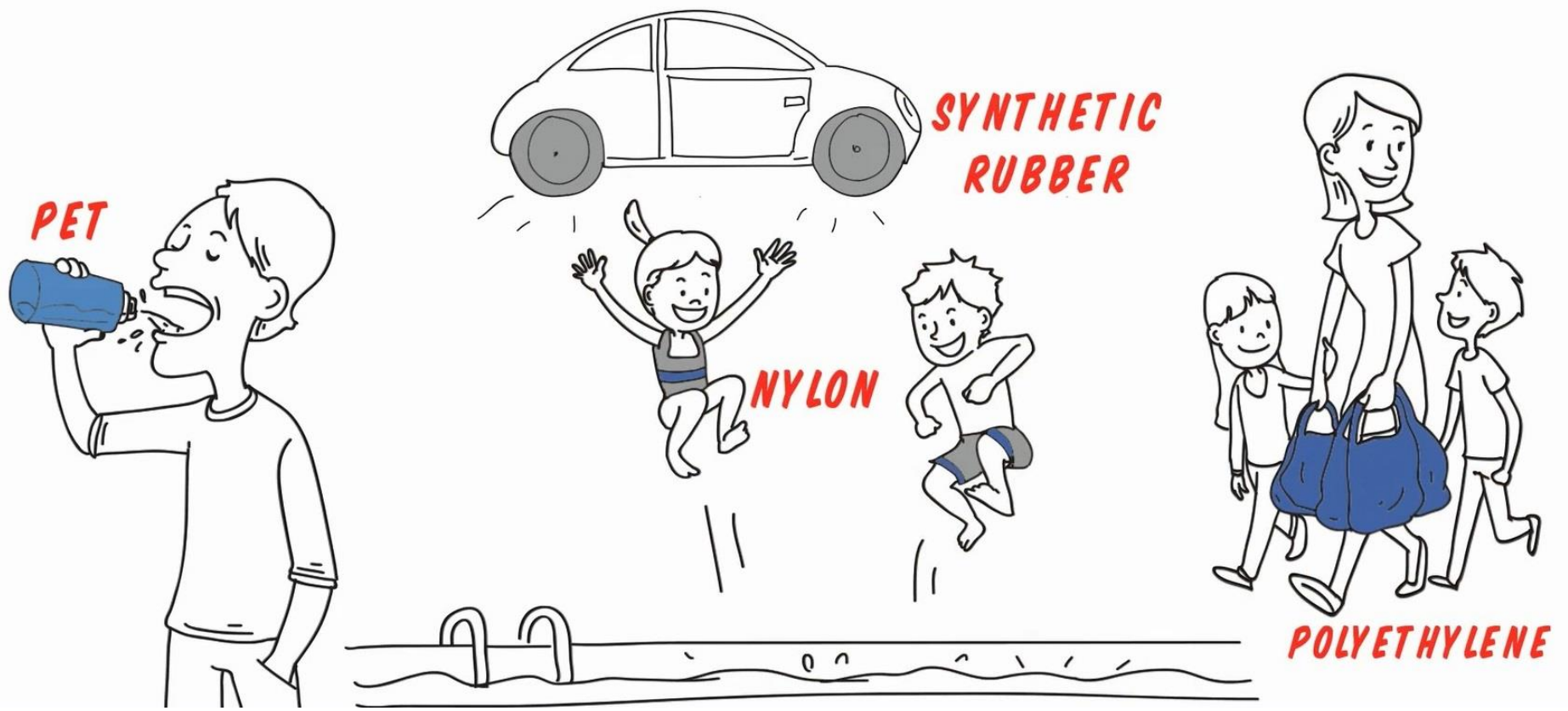
RED ROCK BIOFUELS
LanzaTech

We are all

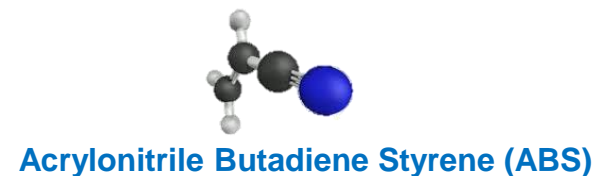
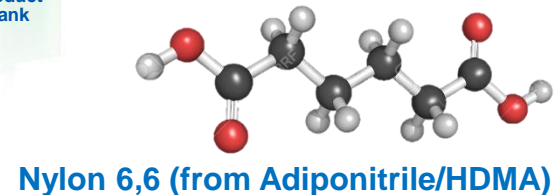
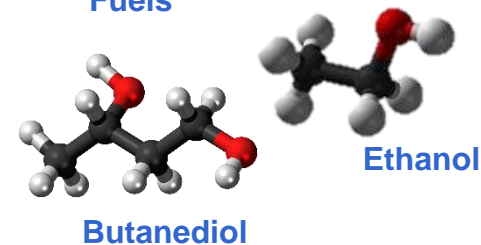
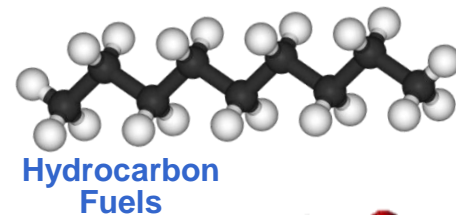
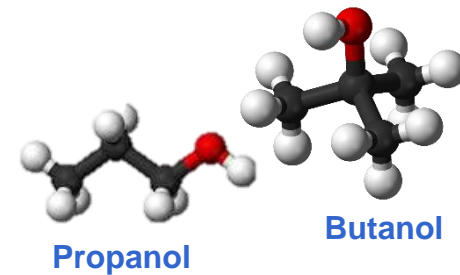
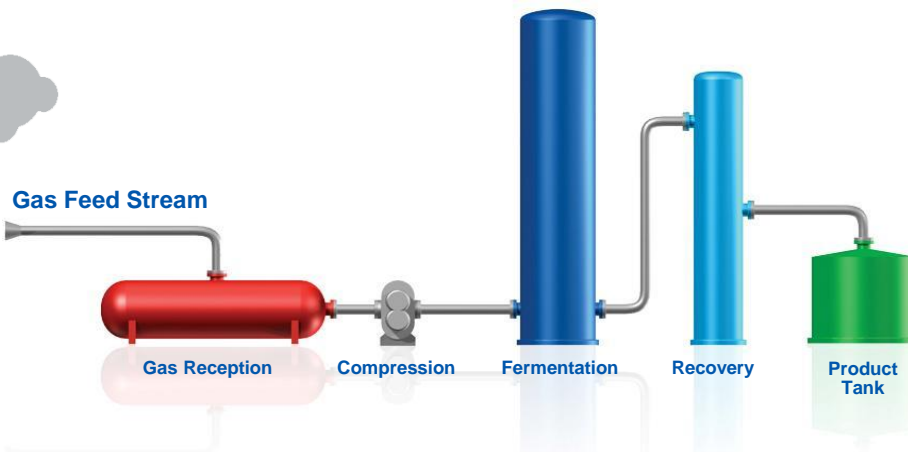
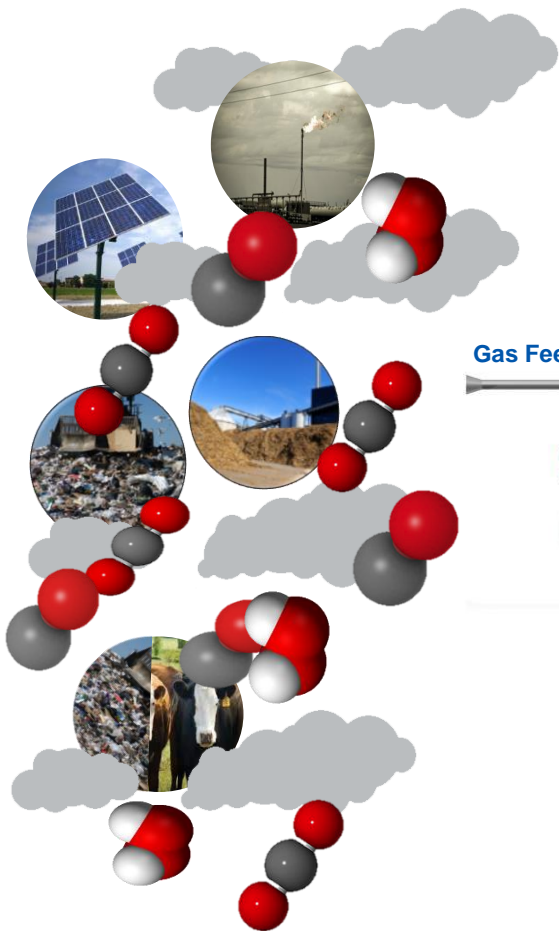
below⁵⁰



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BUILDING A TECHNOLOGY PLATFORM

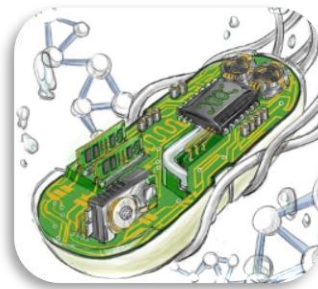


Disrupting Market Cycles

- ✓ Same reactor
- ✓ Same operating conditions
- ✓ Same feedstock

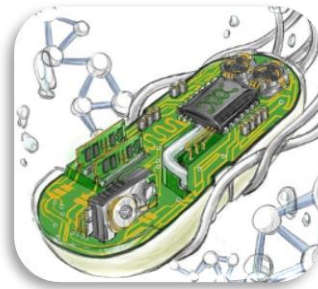


“software”



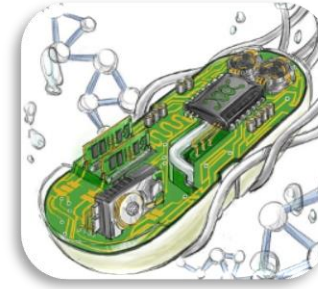
Microbe 1.0

- ✓ Ethanol, 2,3-butanediol



Microbe 1.1

- ✓ improved efficiency, tolerance, ethanol only



Microbe 2.0

- ✓ new product molecule

DISRUPTION = 1) Rapid Reaction to Fluctuating Chemicals Market 2) Feedstock ≠ Commodity



Change the Way you Think about you Car...

