GRAVIKY LABS

Modular carbon capture and utilization into everyday products







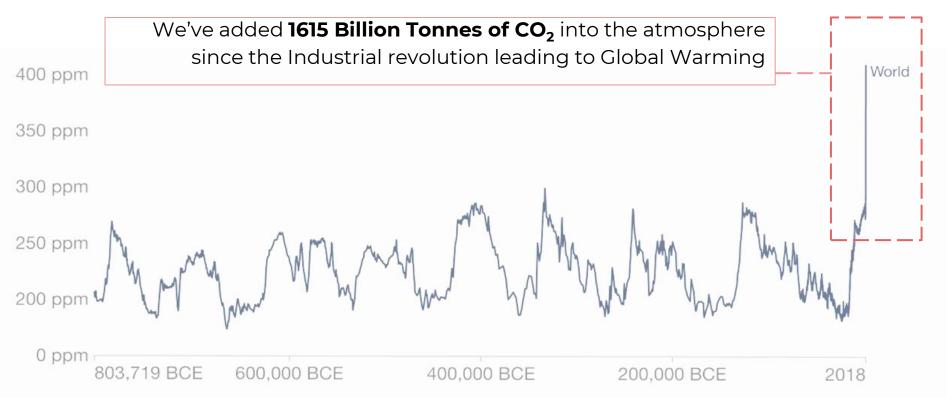


Investor





THE CLIMATE PROBLEM





OPPORTUNITY

Capture and turn Carbon Emissions into the most common materials around us, that would otherwise have been made from petroleum





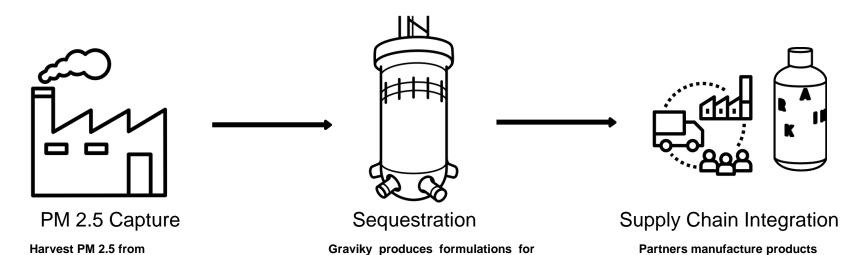


Our Solution

polluting stacks

We turn PM 2.5 emissions into everyday materials

that can scale and compete with conventional materials at price and features



their products by upcycling PM 2.5

to Carbon

based on our formulations.

AIR-INK

World's first commercial grade ink created from air pollution

An industry and consumer recognized brand of inks made by upcycling Carbon emissions.

Our customers replace conventional petroleum based products in their manufacturing via AIR-INK





PANGAIA X AIR-INK®

We partnered with Pangaia to create world's first apparel printed with carbon emissions.

Our partnership now includes developing solutions for other apparel/fashion brands for decarbonizing their printing.





Deal with Dell where AIR-INK is utilized to meet Dell's packaging sustainability needs

*Trial in progress in US and Taiwan









Graviky labs has partnered with Mastercard and Doconomy to create a physical, climate-friendly and biodegradable credit card. Printed with Air-Ink, the card is the first of its kind in the world.

Website: **Doconomy**Cards go out in March



Nathalie Green

Doconomy member. 00000322



RESPONSIBLE CONSUMPTION AND PRODUCTION



I am taking responsibility for every transaction I make to help protect the planet.

Nathalie/Green

Doconomy member. 0 0 0 0 0 3 2 2

5412 7512 3412 3456

VALID THRU

12/30

SECURITY CODE 581

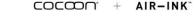
THIS CREDIT CARD IS MADE OF BIO-SOURCED MATERIAL.
PRINTED WITH AIR INK RECYCLED AIR POLLUTION AND
POWERED BY ENVIRONMENTAL DATA FROM ÅLAND INDEX





ÅLANDSBANKEN + 358 204 29011, GEMALTO SGP U0000000A

Antalis strengthens its commitment to sustainable developments with creative partnership between Cocoon and Air-Ink



DRAWN IOGETEE







Dell Technologies has a green vision to stop our love of gadgets killing the planet

By Jess Weatherbed last updated March 08, 2021

We have some work to do











Dell Technologies has a green vision to stop our love of gadgets killing the planet (Image credit: Dell/Future)

"Dell is currently working with Graviky labs on a project to turn diesel exhaust waste into ink"





"The crux of their business is to **"mine unnatural resources"** that should not be in the environment and turn them into useful products"



TRACTION

Pilots in progress

















Executed pilots worth 1.5M USD for Decarbonizing packaging and fabric printing

Upcoming pilots







Q2 2022 Pilots for Decarbonizing fashion materials

IMPACT

Replaced 20 Tonnes of Conventional Inks. > 10 Tonnes of CO₂ Mitigated

Grants/Investors and Accelerators











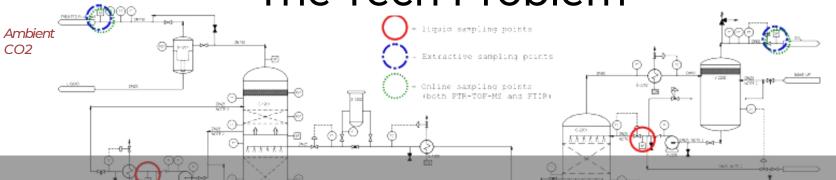


\$ 170K Raised via SAFE and grants

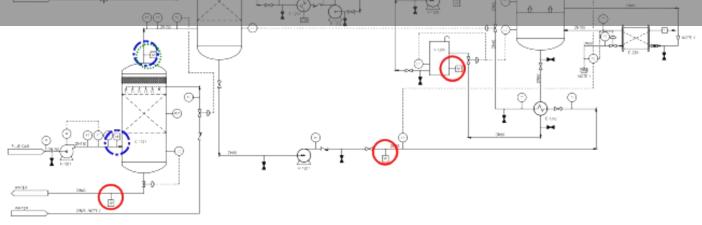




The Tech Problem

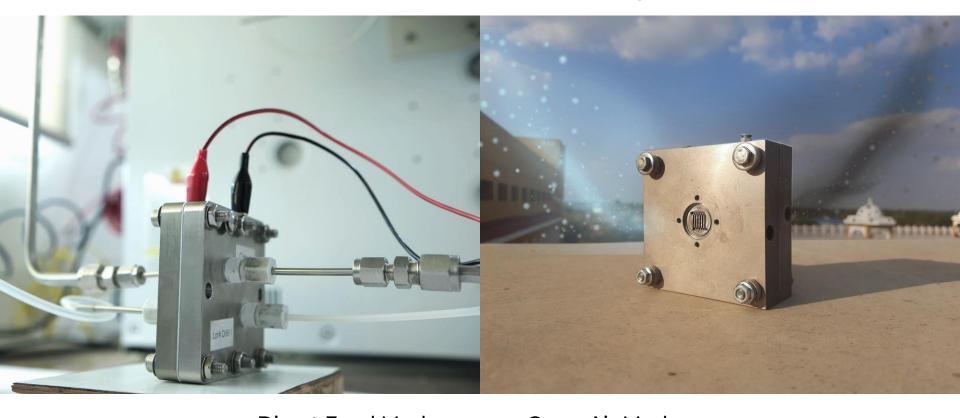


Conventional PSA/TSA based Carbon Capture relies on Complex Tech involving Absorber, Desorber, High Temperatures + Pressures and Toxic Solvents





CONVENTIONAL ELECTROCHEMISTRY V/S AIR SYNTH

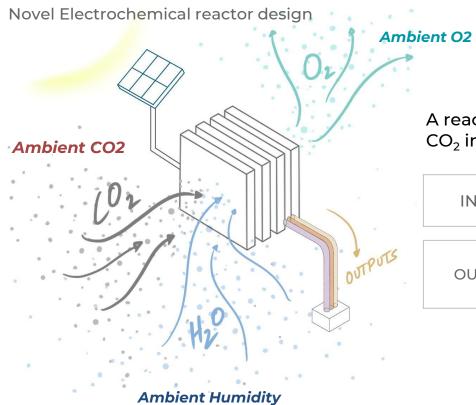


Direct Feed Mode
Pipes feeding Concentrated CO₂and H₂O
& directing Resource Output + O₂

Open Air Mode Ambient CO_2 and H_2O exposed to cell & directing Resource Output + release O_2



AIR - SYNTH REACTOR



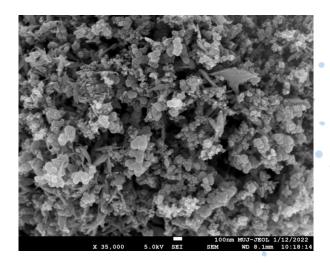
A reactor stack that can be configured for a range of CO_2 inputs

INPUT	CO ₂	Humidity	Solar Energy
OUTPUT	Petrochemicals (Ethanol, Ethylene, Formic Acid)		Oxygen

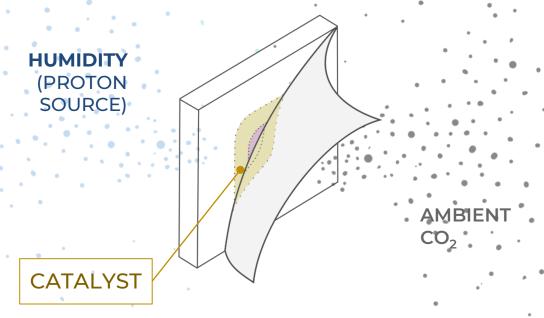


AIR - SYNTH CATALYSIS

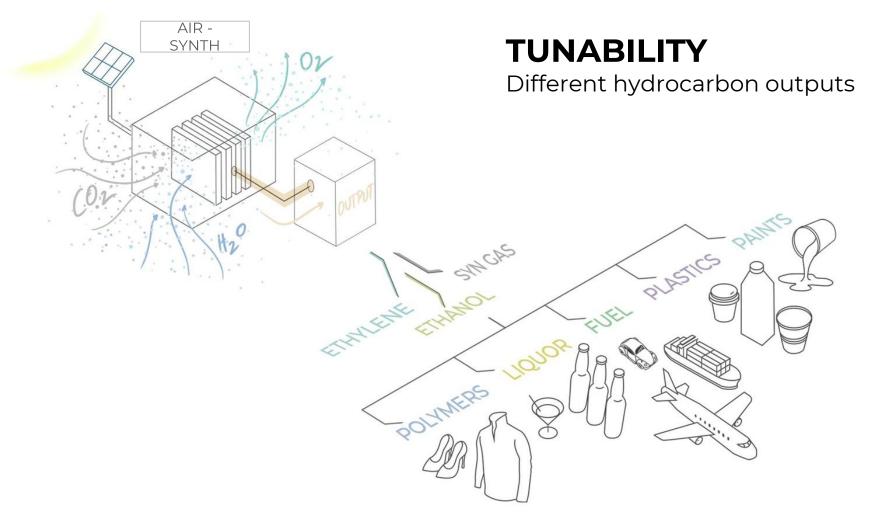
Patent pending catalyst membranes + with the ability to efficiently interact with ambient CO₂ and ambient water vapors



FE - SEM image of the Catalyst

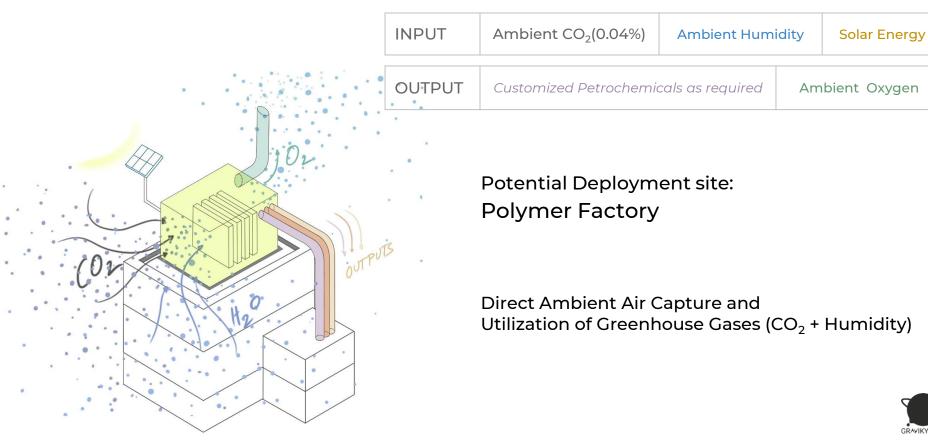




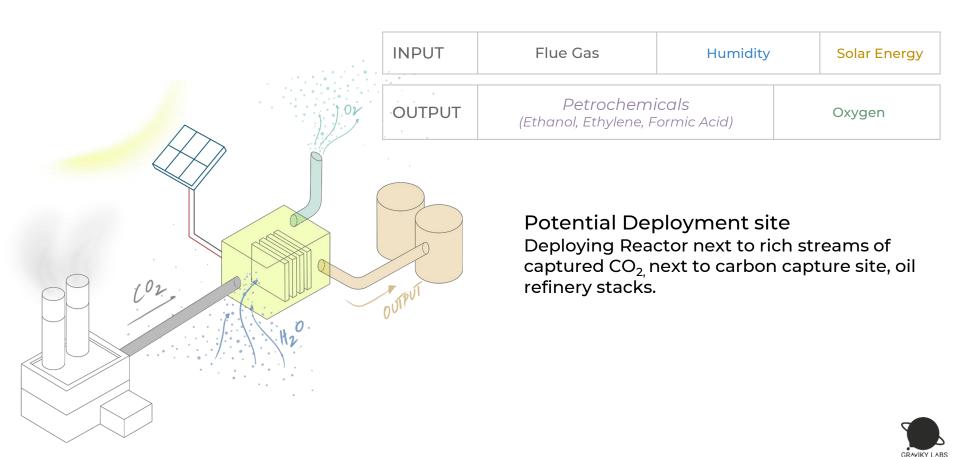


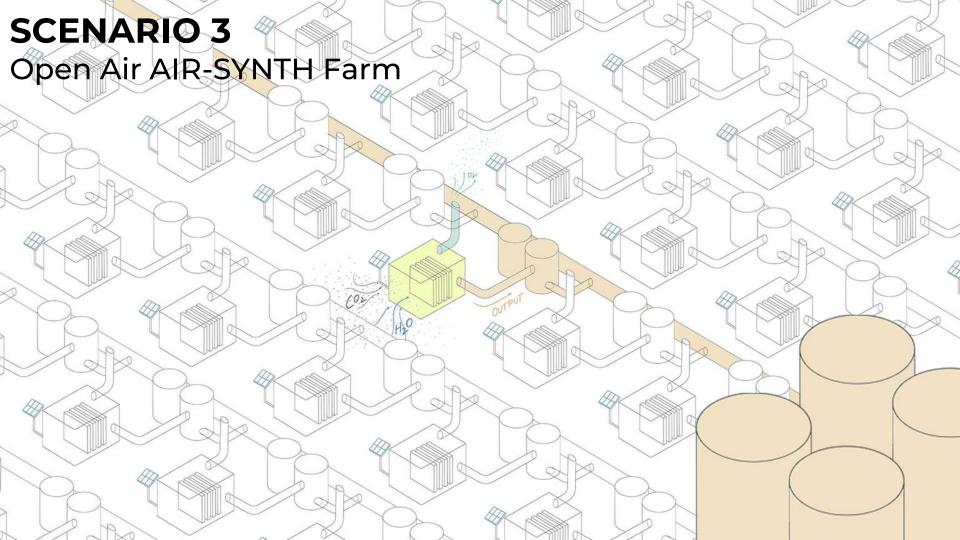


SCENARIO 1 - Onsite Air to Petrochemical



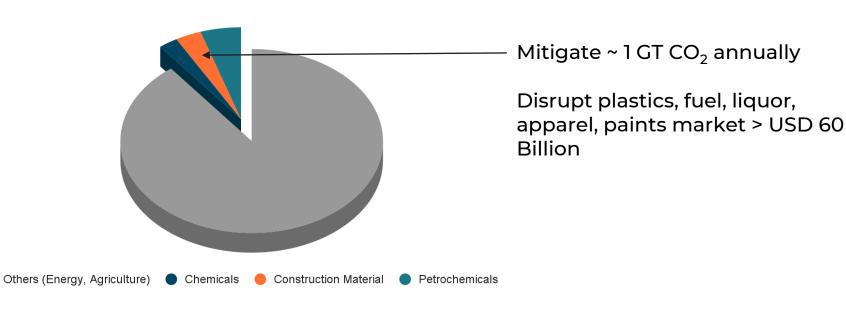
SCENARIO 2 - CO₂ Upcycling





MISSION 2030 AND ONWARDS

Green House Emissions by Sector





MEET THE TEAM



Anirudh Sharma Co-founder & CTO MIT Alum, Forbes 30 under 30, MIT TR 35



Nikhil Kaushik Co-founder & CEO CPA, EY Alum, FP 100 Leading Global Thinkers



Dr Ravi Kumar Lead Electrochemist PhD, IISER Pune



Dr Ajay Saini Lead Chemist



Aishwarya Das Head of Strategy



Rajdeep Savenkar Industrial Designer

Advisors





Dr Pattie Maes Director, Fluid Interfaces



Dr Christine Ortiz, Professor MIT



Dr Terry Clayton Director, EFI Imaging

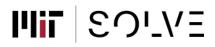


Appendix



AWARDS & RECOGNITION



























Dell Technologies has a green vision to stop our love of gadgets killing the planet

By Jess Weatherbed last updated March 08, 2021

We have some work to do











"Dell is currently working with Graviky labs on a project to turn diesel exhaust waste into ink"





"The crux of their business is to **"mine unnatural** resources" that should not be in the environment and turn them into useful products"





Naomi Campbell stunts in the latest pieces from the Pangaia X AIR-INK® by Jenke Ahmed Tailly collection.



Naomi Campbell launches **Pangaia** x **AIR-INK** Collaboration 2021 Product: https://thepangaia.com/pages/airink