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Advancing Carbon Capture for a Sustainable Future

GİZEM UYSAL *founder*

Carbon Crisis

the hidden cost we face every year



428 ppm

Atmospheric CO₂ Level



\$138 Billion

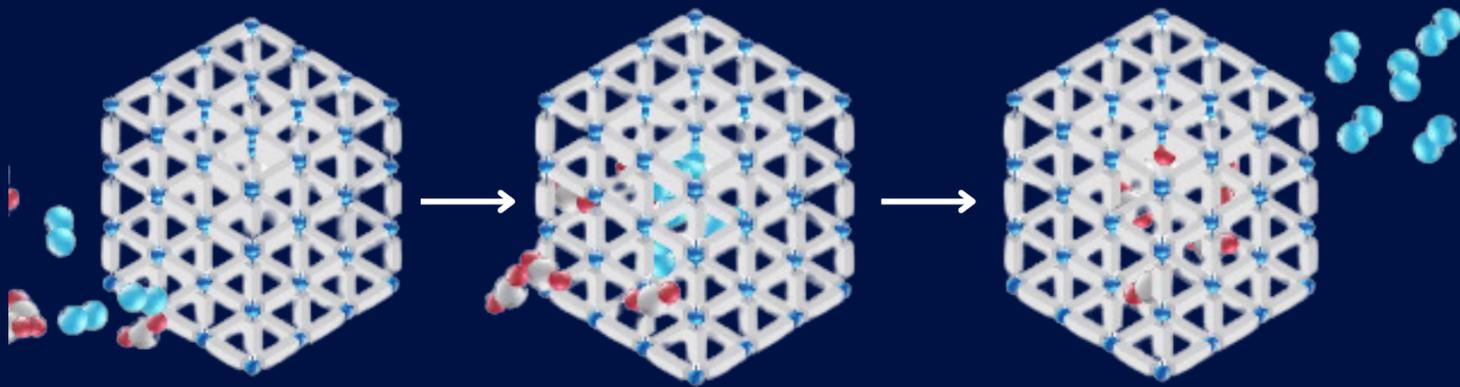
Annual Carbon-Tax Liability



2030

Deadline for 1.5°C

Capturing CO₂ with Metal-Organic Frameworks



High Surface Area



Thermal and Chemical Stability



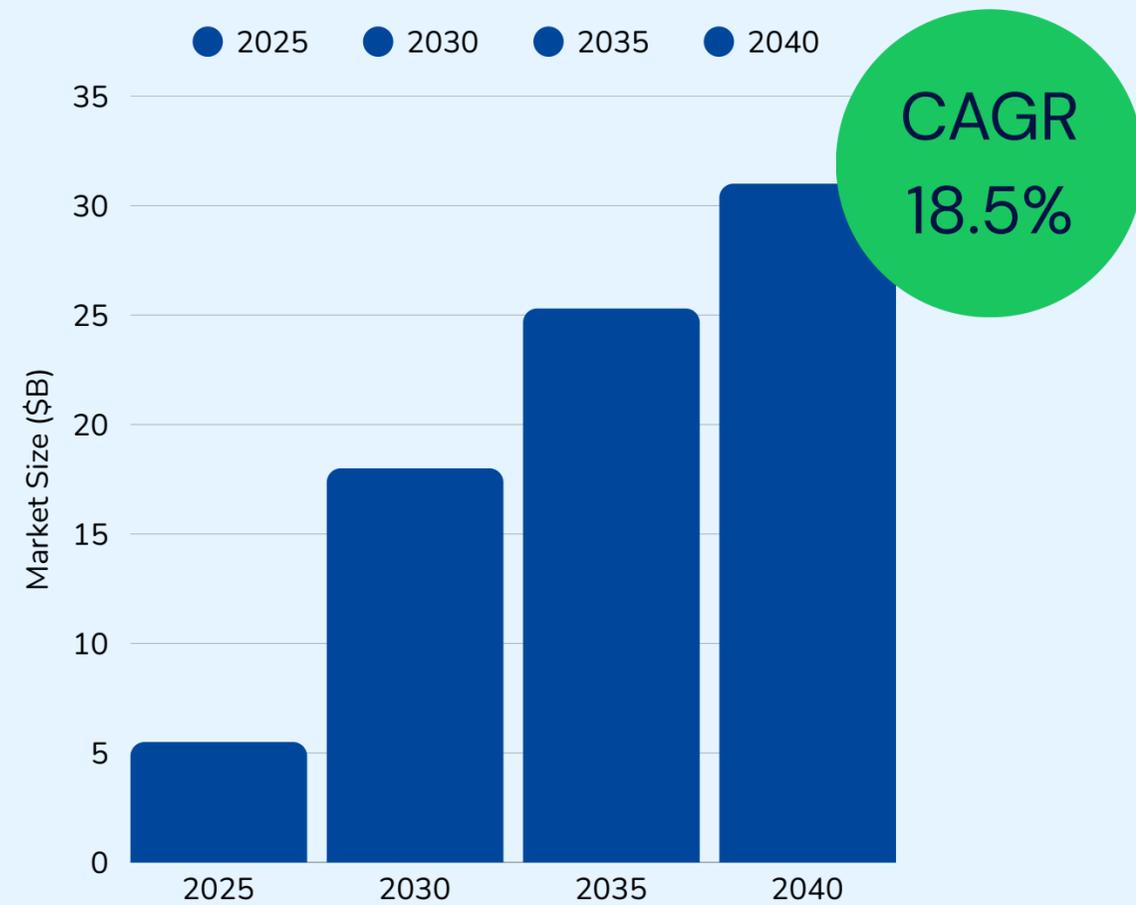
Chemical Modifiability



Reusability

Market Opportunity

Decarbonizing hard-to-abate industries with scalable MOF-based capture solutions



CCUS Market:

From \$5.5B Today to >\$30+B by 2040



Aluminum Producers



Iron & Steel Producers

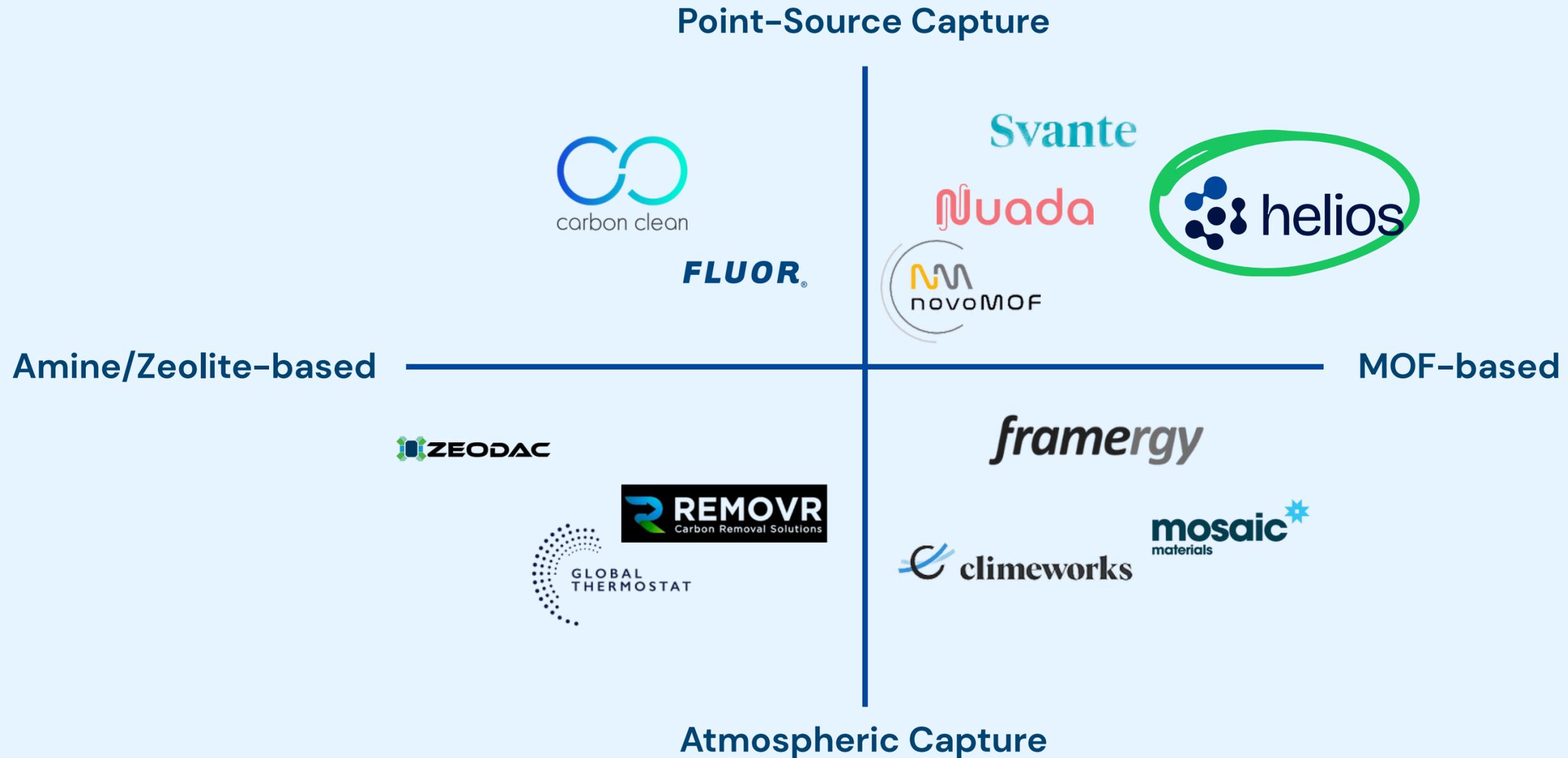


Cement & Building Materials



Energy Providers

Competitor Analysis



Business Model

FROM LAB TO MARKET

**COLUMN
INSTALLATION
& OPERATION**



**PRODUCT
SALES**



**Lab-Scale
130 USD/g**

we offer

Sector-specific MOF technology for targeted CO₂ capture

Advanced MOF know-how from lab to industrial scale

Computational chemistry innovation for new material discovery

High-efficiency, low-energy capture solutions

WE NEED



\$ 1 Million



Industrial PoC

TEAM



Gizem UYSAL
PhD (c)-Chemist



CEO, co-founder



Gizem ŞANYILMAZ
MBA, Business Development



COO, co-founder



İlker DEVECİ
PhD-Chemist



CTO

ADVISORS



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TÜBİTAK



KOSGEB



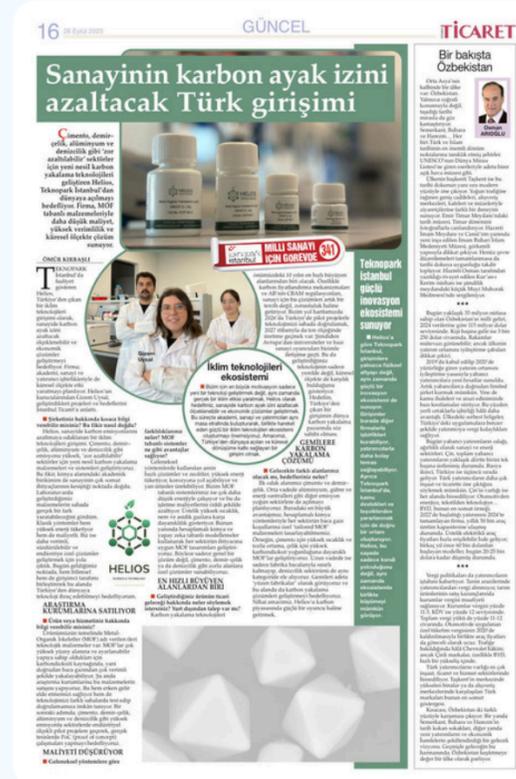
teknopark
istanbul



Traction & Momentum

LAST MONTHS HIGHLIGHTS

Corporate Engagement



Media Recognition

received
LOI



Lab → Industry



\$50K Grant –
from Turkey's Top Tech Foundation



Export Ready –
Global Sales Unlocked





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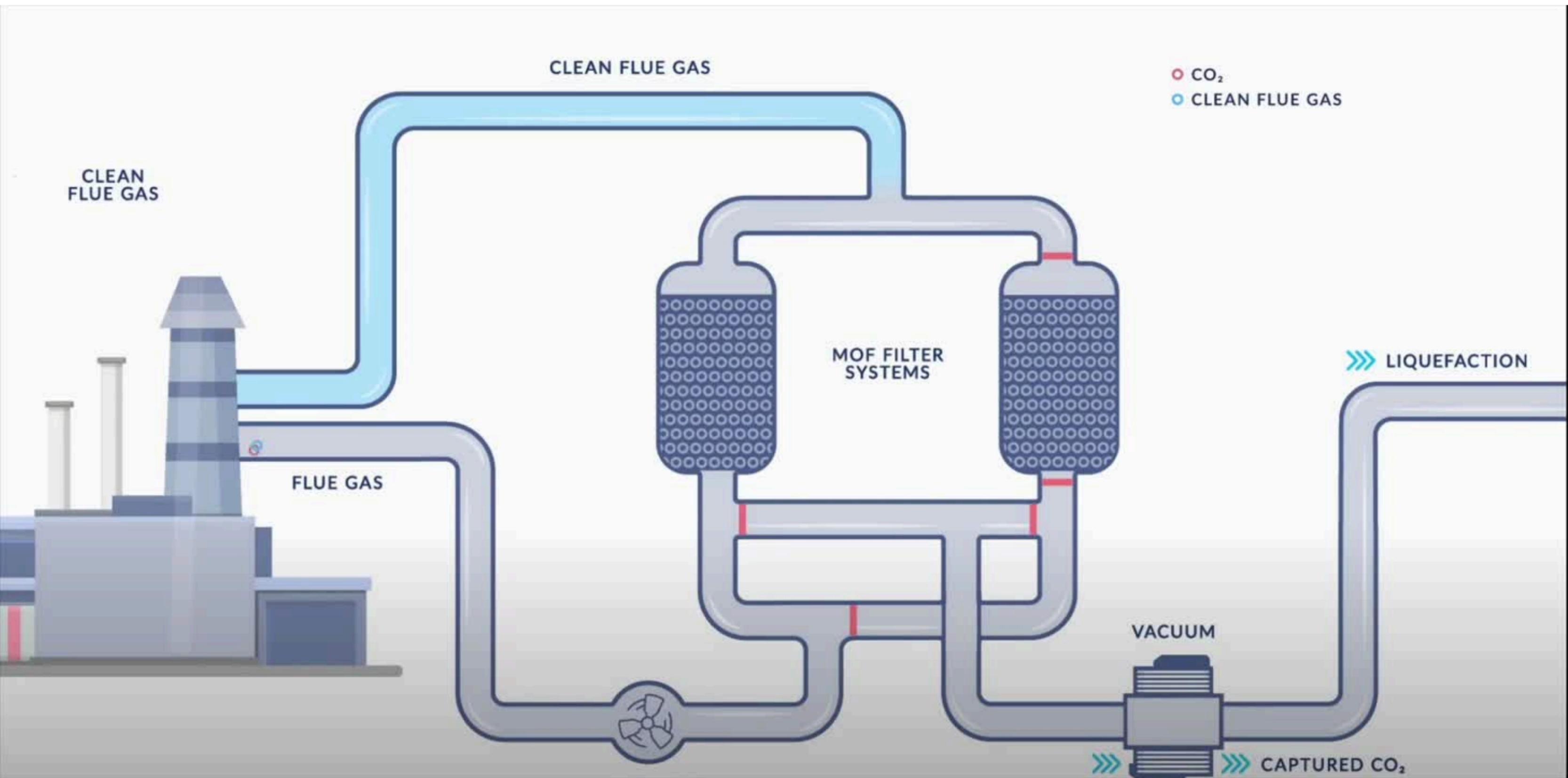


Contact Us:

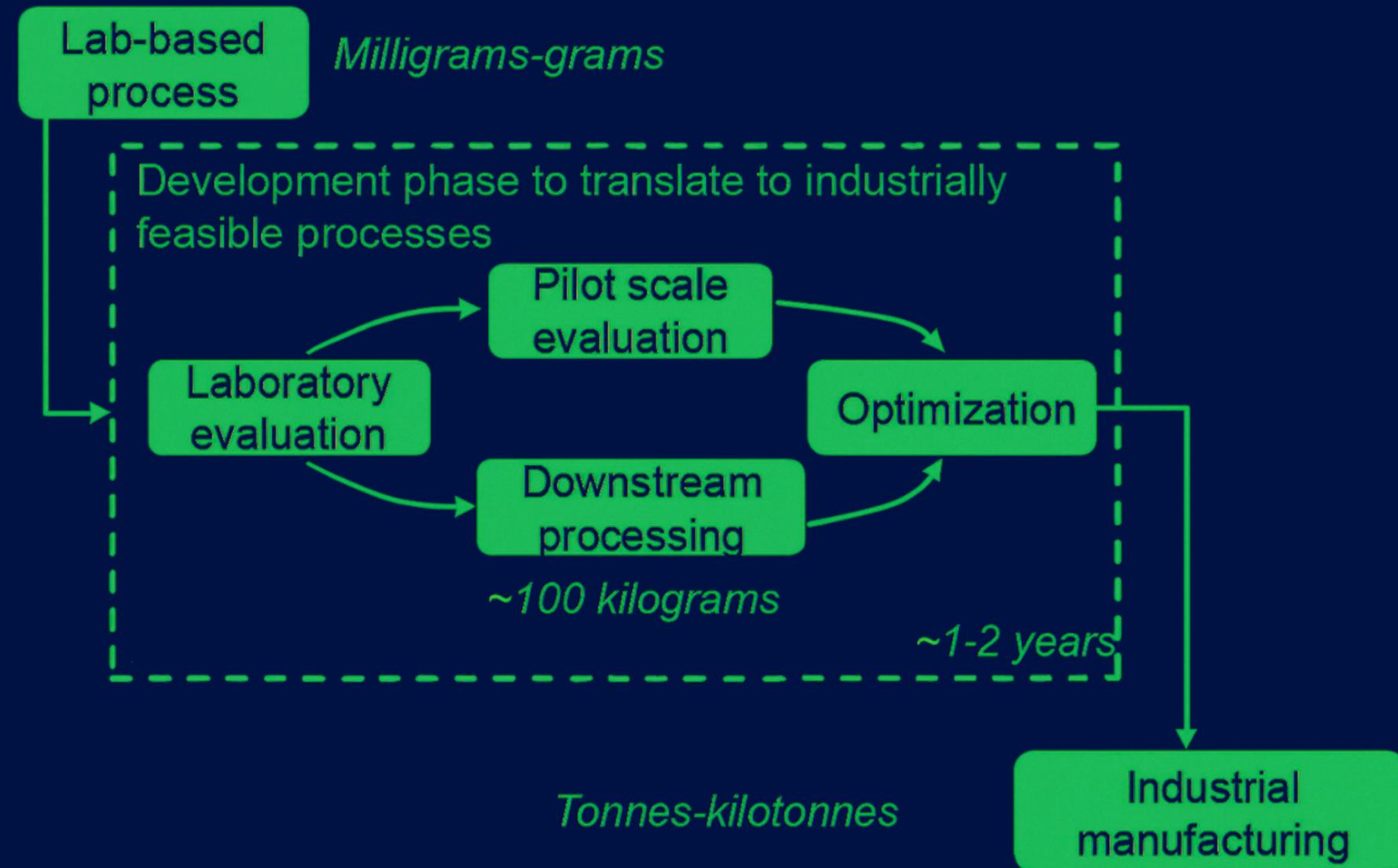
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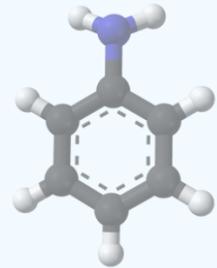
APPENDIX



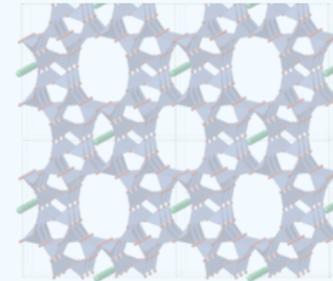
From Lab to Market



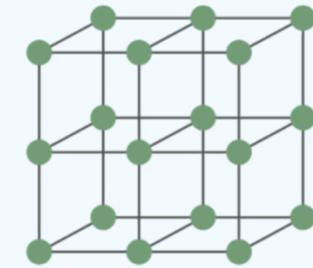
The Advantage



Amine



Zeolite



MOF

Surface Area (m²/g)

1-10

500-900

1,000-10,000+

CO₂ Capacity (mmol/g)

2-4

2-3

4-8+
(High CO₂ adsorption capacity)

Desorption Temperature

120-150 °C

~300°C

100 °C
(33% less energy than zeolite)

Cost

\$ *high regeneration!*

\$\$

\$\$ *falling with scale*

Customization

Limited

Low

High