



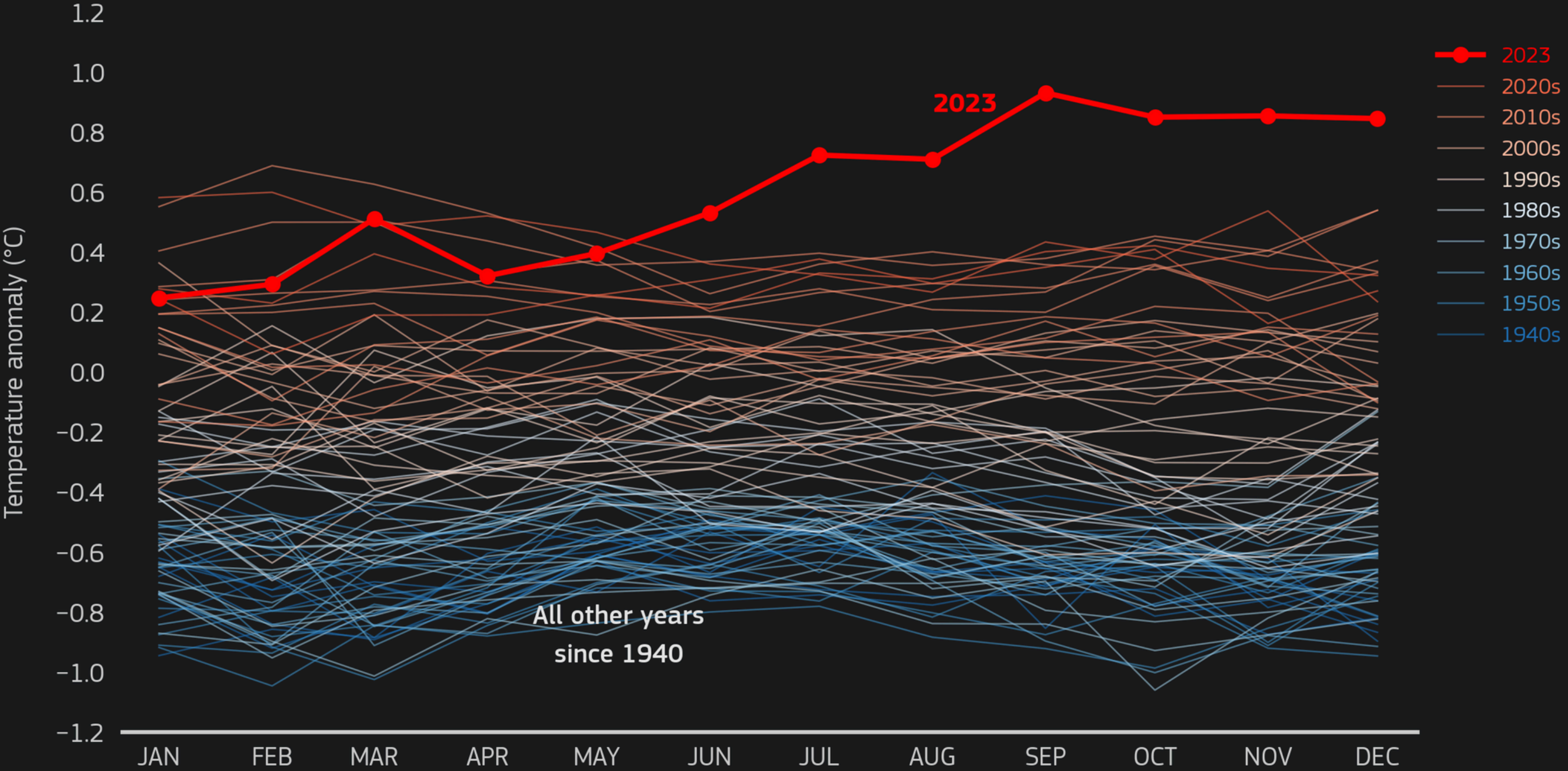
# Décarboniser L'aviation

**CARBON**EXEL



# GLOBAL SURFACE AIR TEMPERATURE ANOMALIES

Data: ERA5 1940-2023 • Reference period: 1991-2020 • Credit: C3S/ECMWF



DEEP SKY

77% OF IPCC CLIMATE SCIENTISTS  
EXPECT A RISE OF AT LEAST

2.5°C

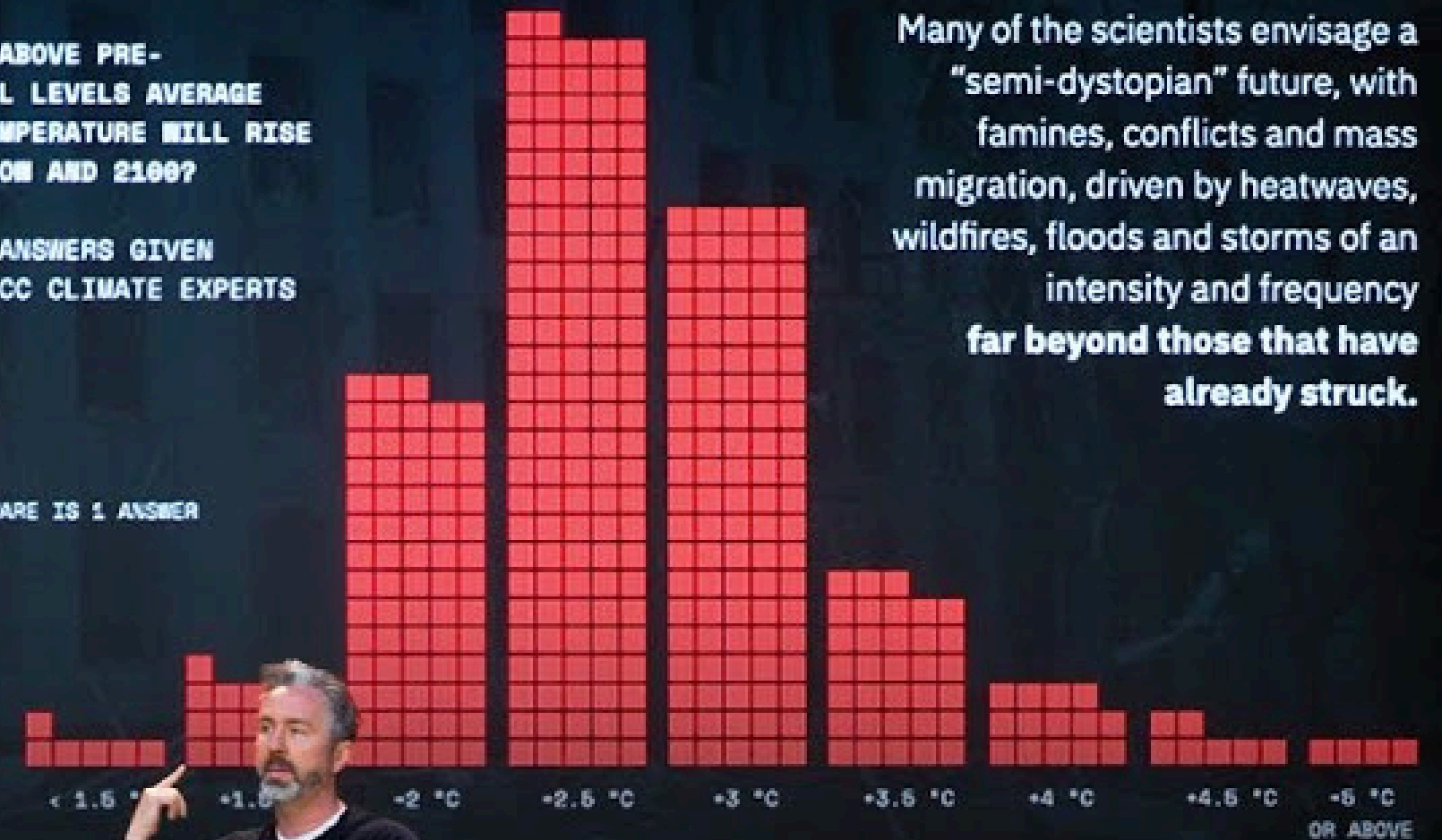
Grégoire Baillargeon  
PRESIDENT BMO FINANCIAL GROUP QUEBEC

HOW HIGH WILL GLOBAL HEATING GO?

HOW HIGH ABOVE PRE-  
INDUSTRIAL LEVELS AVERAGE  
GLOBAL TEMPERATURE WILL RISE  
BETWEEN NOW AND 2100?

COUNT OF ANSWERS GIVEN  
BY 380 IPCC CLIMATE EXPERTS

■ EACH SQUARE IS 1 ANSWER



Many of the scientists envisage a  
“semi-dystopian” future, with  
famines, conflicts and mass  
migration, driven by heatwaves,  
wildfires, floods and storms of an  
intensity and frequency  
far beyond those that have  
already struck.

Fred Lalonde  
CO-FOUNDER & CHAIRMAN DEEP SKY

DEEP SKY

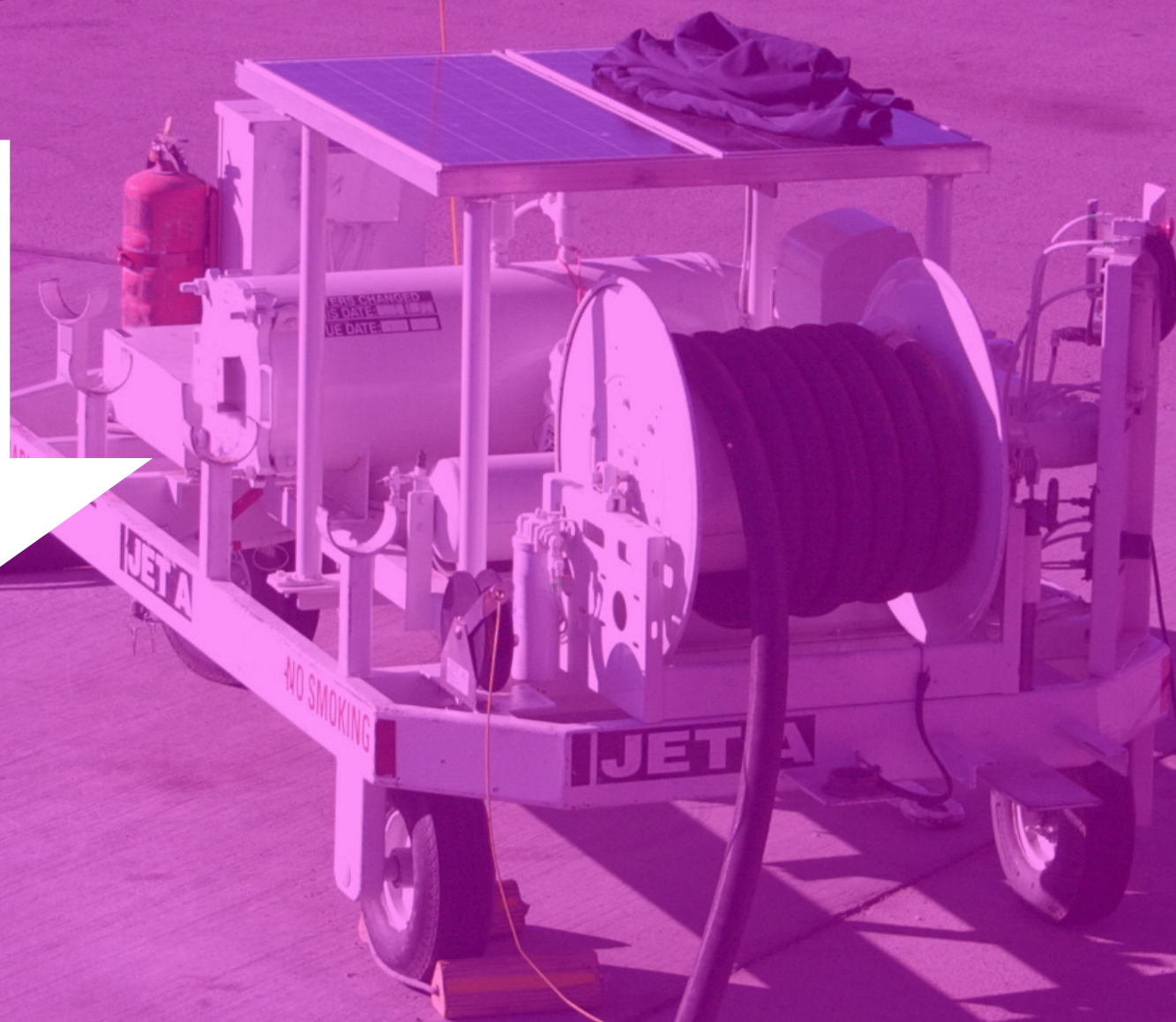
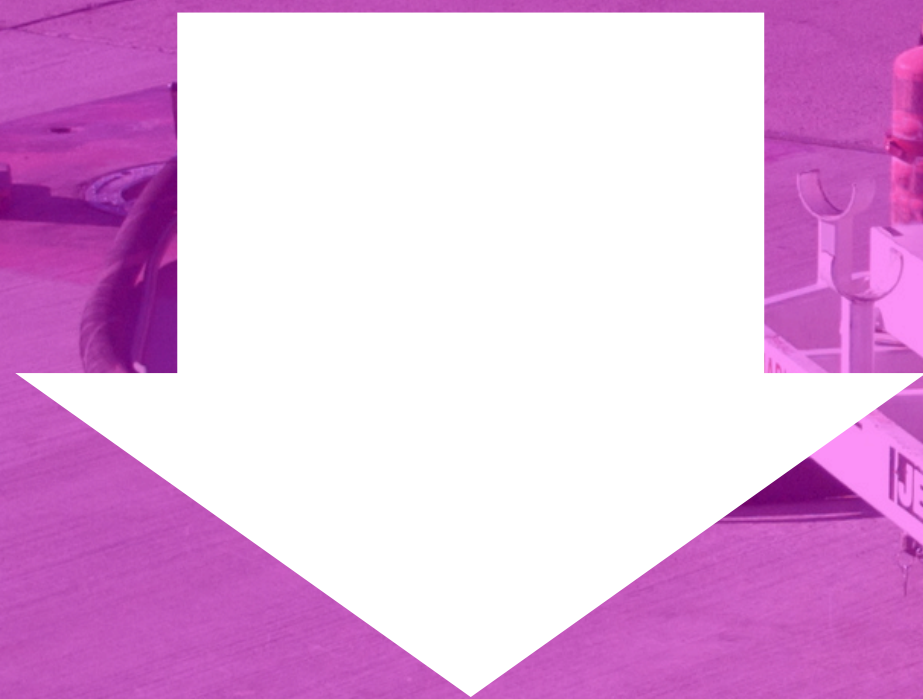


3%

CARBON<sup>EXEL</sup>



# 85%

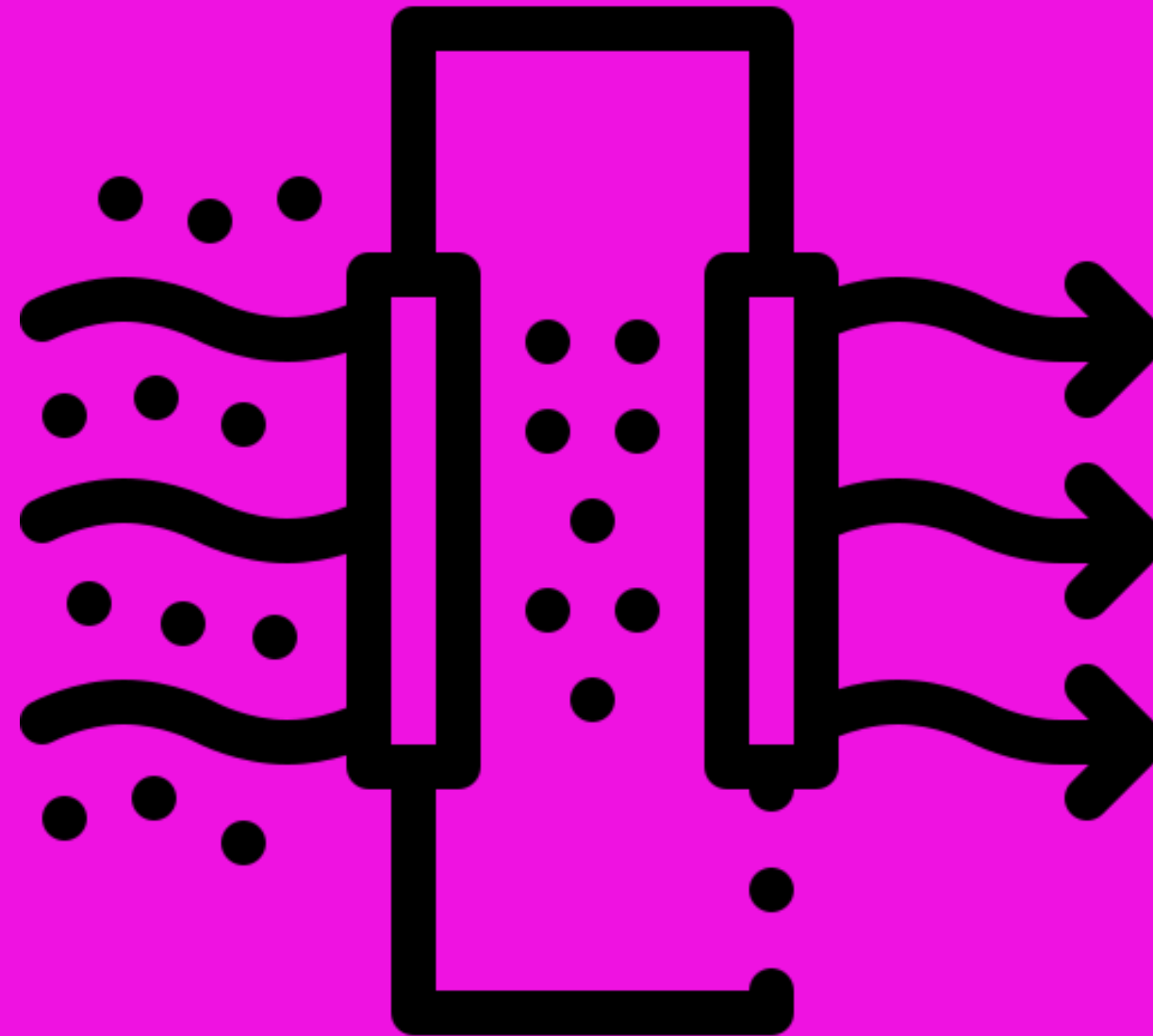


**CARBON**EXEL

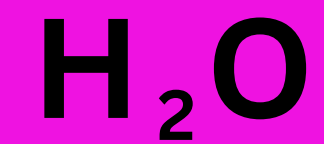


# Processus en 1 étape

Réacteur



Carburant  
D'aviation  
Durable



235 Litre / Tonne de  $\text{CO}_2$

CARBON<sup>EXEL</sup>



**\$994 B**

**2021**

**3.45%**

**\$1336 B**

**2030**

**CARBON**EXEL



# Les prochaines étapes

Un pilote industriel d'ici **2027**



## TRL 5 - Q3 2025

Finalisation de la  
réacteur catalytique  
à membrane

## TRL 6 - Q1 2026

Test catalytique  
membrane en  
laboratoire

## TRL 7 - Q3 2026

Prototype pour  
pilote industriel



# Nos humains

## CEO

Christopher Panaritis, ing., Ph.D



## COO

Daria Boffito, ing. Ph.D.



## CTO

Ergys Pahija, Ph.D.





# MERCI!

On reste en contact?  
[hello@carbonexel.com](mailto:hello@carbonexel.com)

**CARBON**<sup>EXEL</sup>

Accelerating Society to Net-Zero