



Material Science Shaping Industry and Climate.

January 2026



Shirley Shoshaney-Kleiner, CCO; Shirley.s@dotz.tech



Material Science Shaping Industry and Climate.

- ✓ DEEP EXPERTISE IN SYNTHESIS AND SURFACE CHEMISTRY
- ✓ PROVEN EXPERIENCE IN PRODUCT SCALE-UP & COMMERCIALISATION
- ✓ PATENTED, VALIDATED & SUPERIOR **CO₂ CAPTURE** SORBENT TECHNOLOGY
- ✓ STRATEGIC PARTNERSHIPS

Vision

A leading provider of high-performance materials to enable carbon neutral energy and industrial future

Mission

To design, develop, and deploy practical & cost-efficient materials to support industrial decarbonization and Net-Zero future



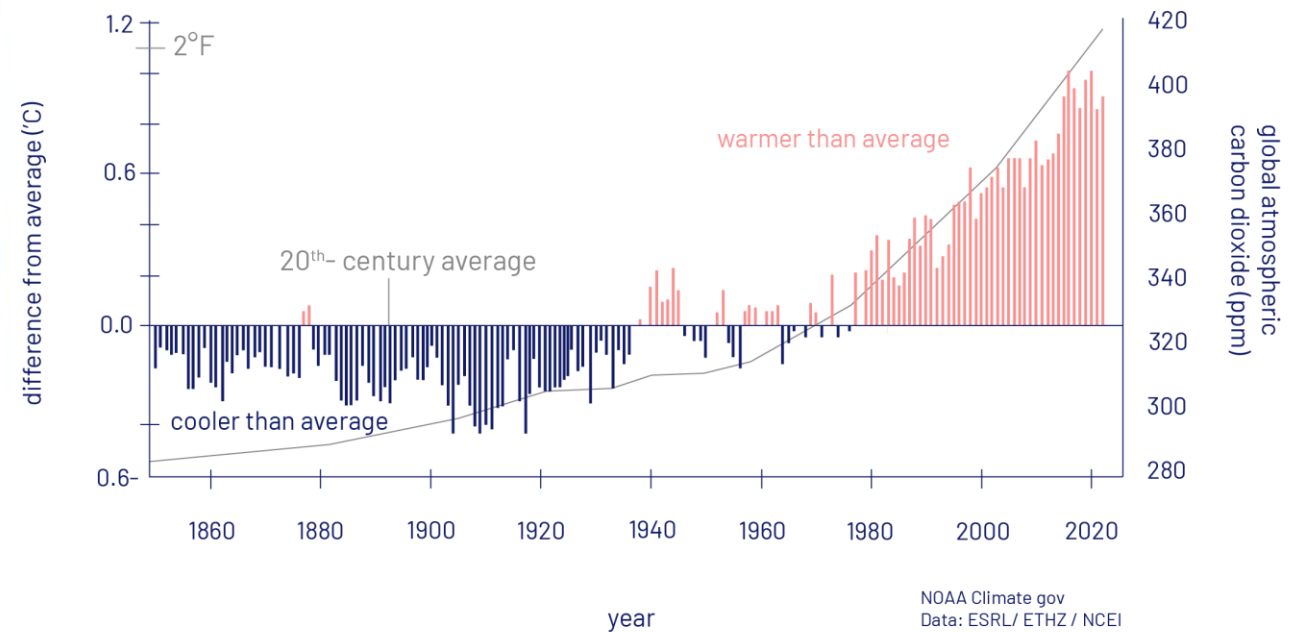
Rising CO₂ concentration in the atmosphere is linked to increasing ambient temperatures.

Average global temperatures
have already risen

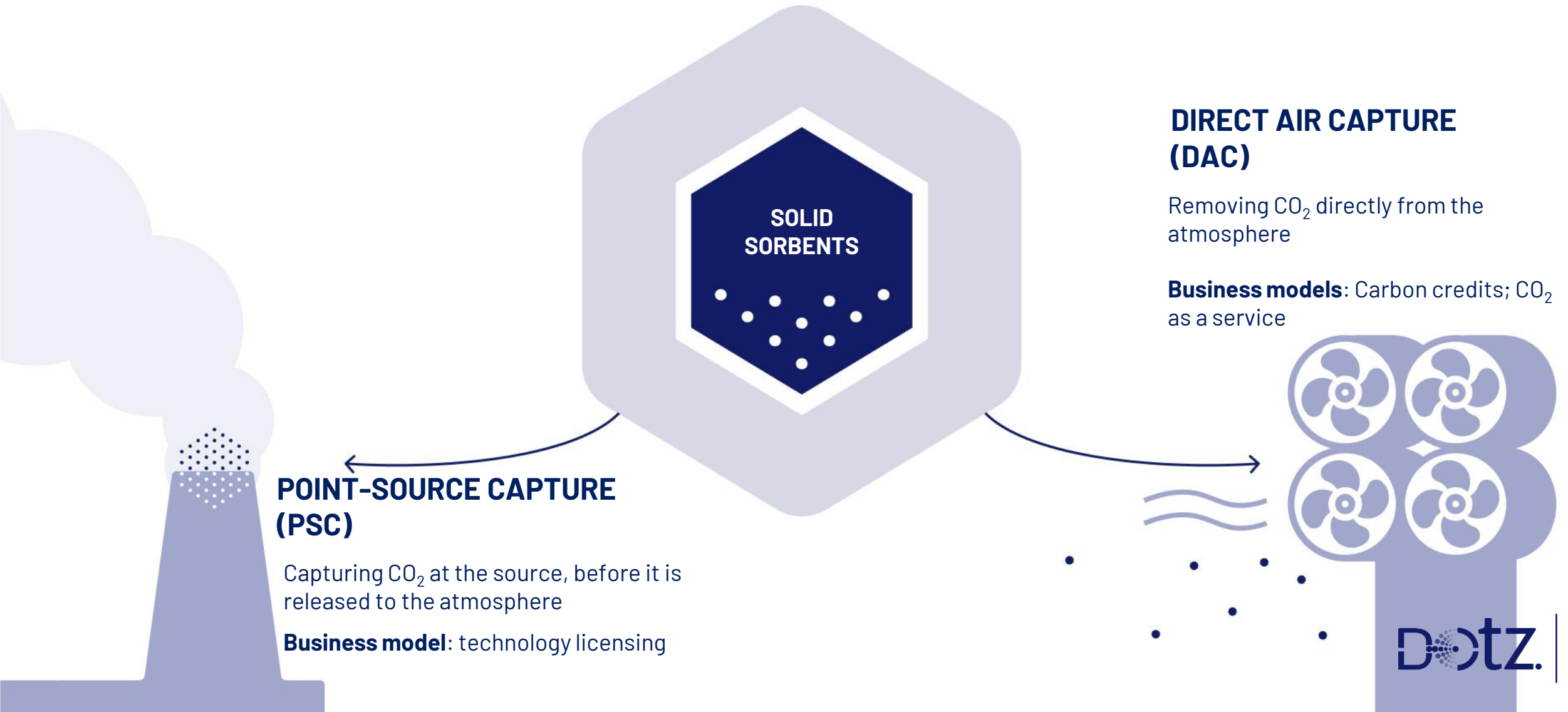
1.7°C

due to increasing atmospheric CO₂
concentration

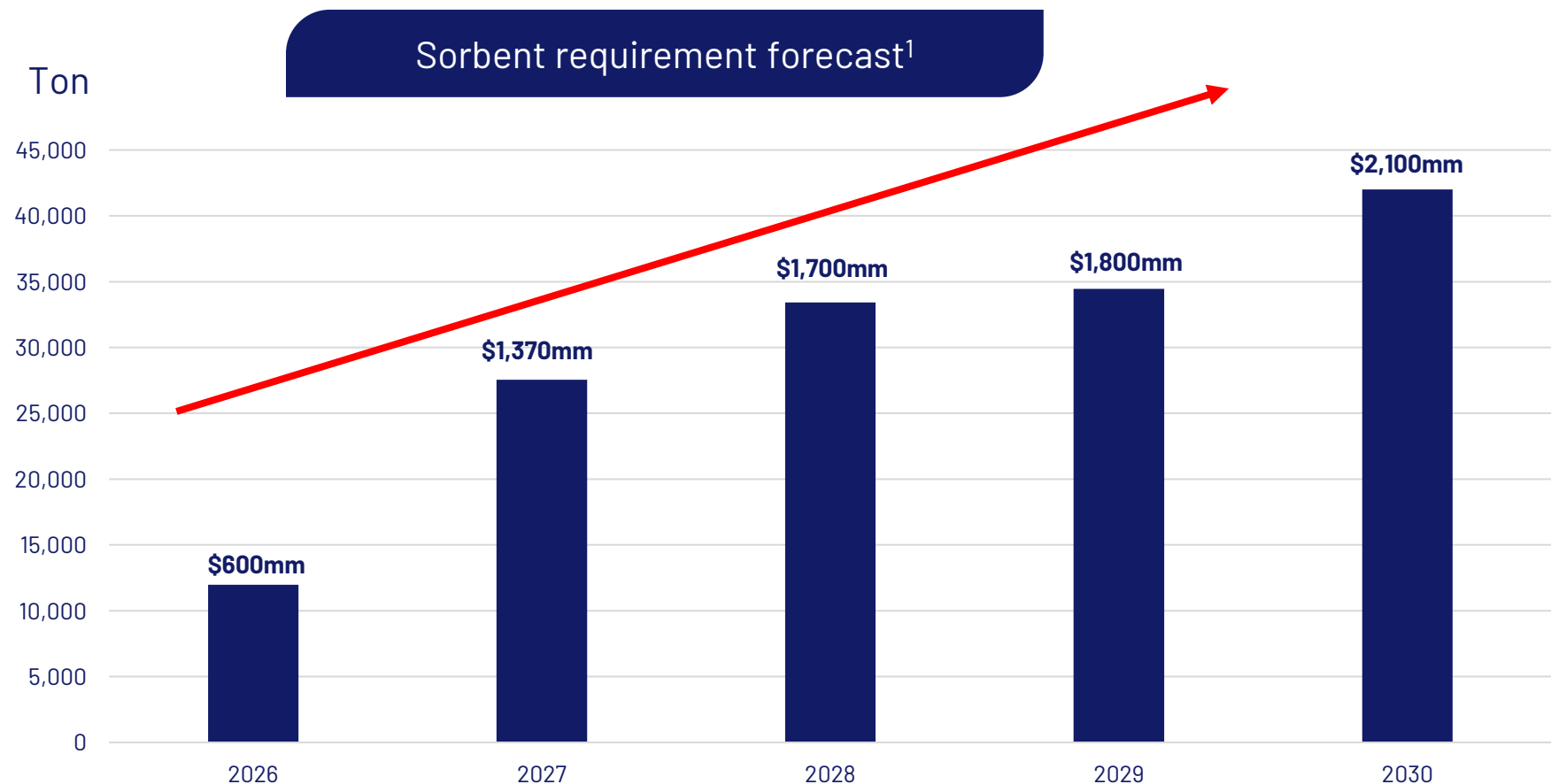
Yearly global surface temperature and atmospheric carbon dioxide (1850-2022)



Sorbent innovation is at the heart of the **CO₂ capture** industry.



Surging global demand for high-performance sorbents .



Companies utilizing commercial sorbents

Logos of companies utilizing commercial sorbents: VW, Climeworks, Sirona Technologies, Shell, Aircapture, Airbus, Aramco, Baker Hughes, Siemens Energy, ExxonMobil, CEC, DACMA, Energy China, CarbonCapture, Skytree, Honda, Kawasaki, Octavia Carbon, Bosch, and Zero Carbon Systems.

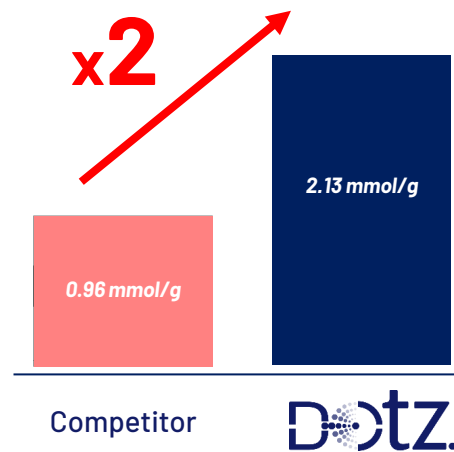
¹ Management; Key assumptions: sorbent durability of 3,000 cycles, 3-hour cycle, low-temp TVSA process, DAC unit capacity of 1 ton per annum, \$50k/ton sorbent

Next-generation sorbents with best-in-class performance.

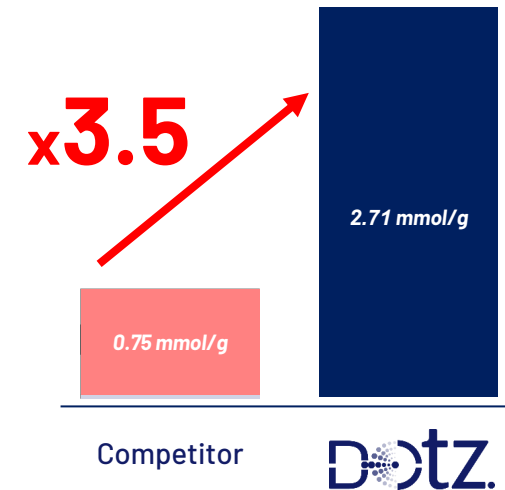
- ✓ **Superior** performance
- ✓ **Simple**, scalable production process
- ✓ All raw materials are **low-cost, commercially available** at scale
- ✓ **Strong IP**
- ✓ **Continuous development** of enhanced sorbent materials



CO₂ adsorption capacity with dry air
(at 400 ppm, 25°C)

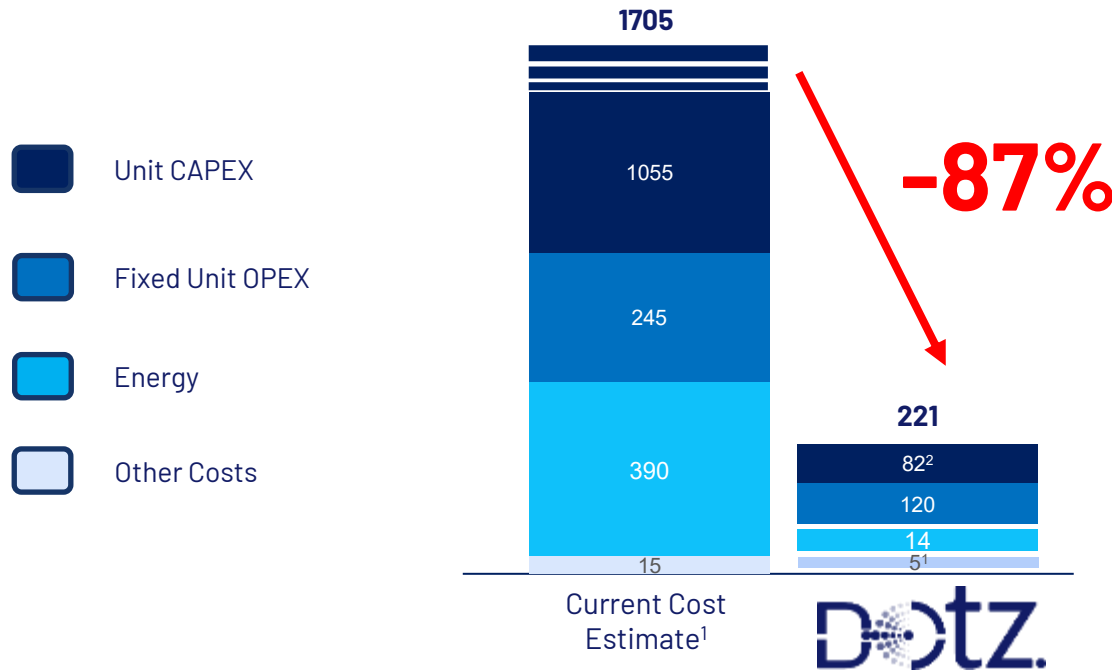


CO₂ adsorption capacity with wet air
(at 400 ppm, under similar conditions)



Sorbent innovation driving down the costs of CO₂ capture.

Direct Air Capture Costs in \$ per ton of CO₂



Cost reduction key drivers:

CO₂

High CO₂ working capacity

Low energy penalty

Reduced CAPEX & cost of sorbent

Sources:

1. BCG Report (2023): BCG Analysis (Exhibit 1)
2. Fixed unit capex based on: Fasihi M, Efimova O, Breyer C, Techno-economic assessment of CO₂ direct air capture plants, *Journal of Cleaner Production* (2019)

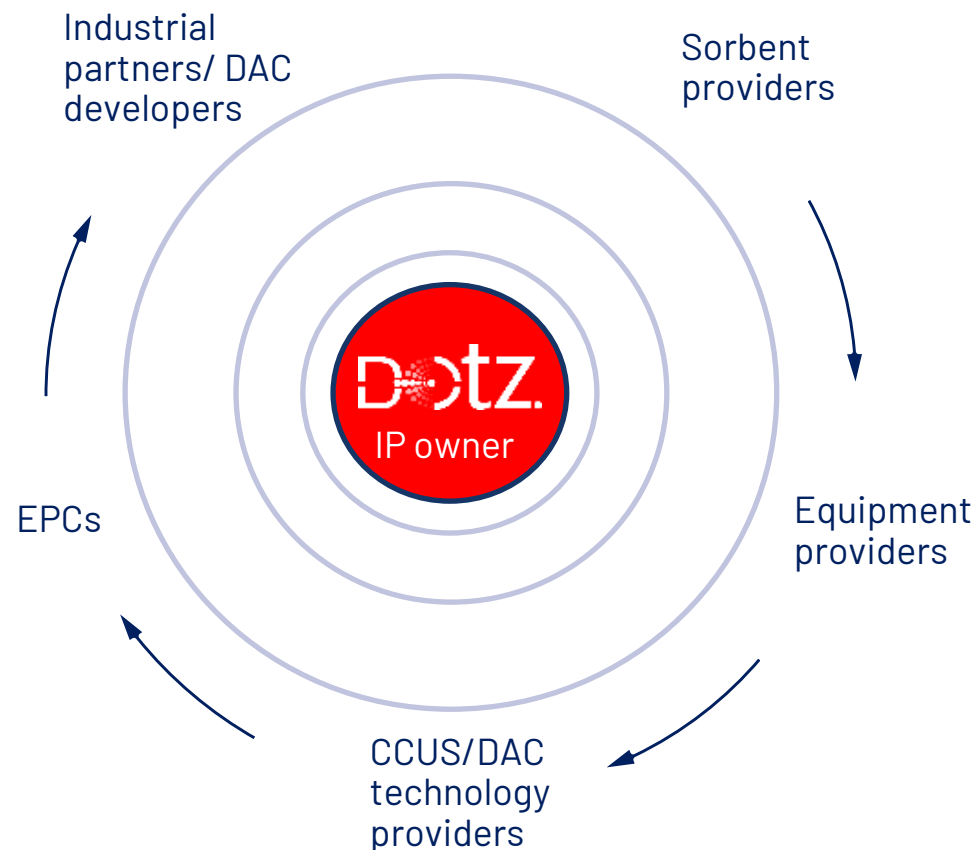
Broad partnerships opportunities along the supply chains.

Phased Go to market strategy

Initial focus on early evaluation partners/customers

Converting early evaluation customers into collaboration agreements and supply orders for piloting and demonstration

Long-term commercial agreements in 2027+



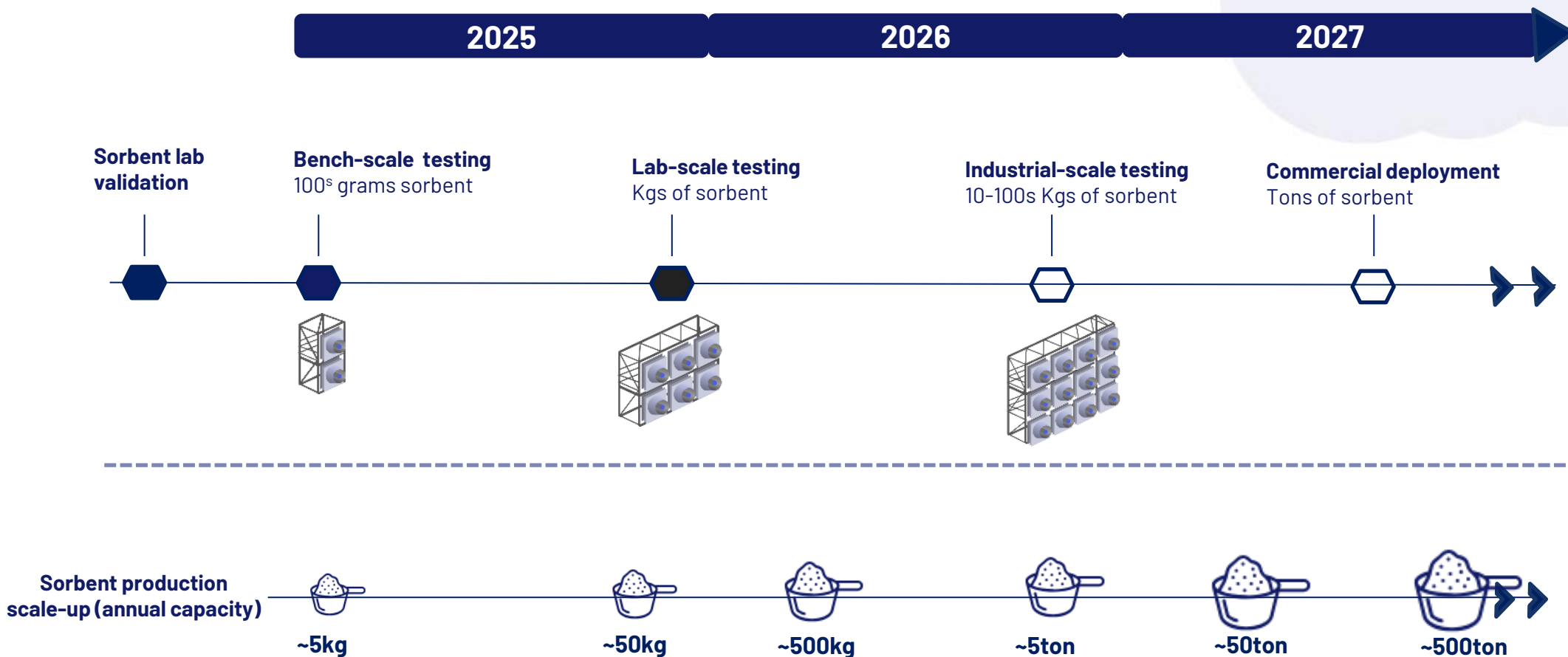
Hybrid engagement model

Paid pilot programs with performance-based milestones

Long-term supply contracts or tech licensing after validation

Joint development agreements for integration into existing tech

Scaling up to meet the growing demand.





We're looking for partners to join us in our journey to bring our innovations to market:

- Climate investors
- Co-development partnerships
- Scale-up partners

Join our Journey.

