



Nanotechnology Powering Industry and Environment

Dotz Nano Limited [ASX:DTZ] Corporate Deck

June 2024



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Dotz in a Nutshell.

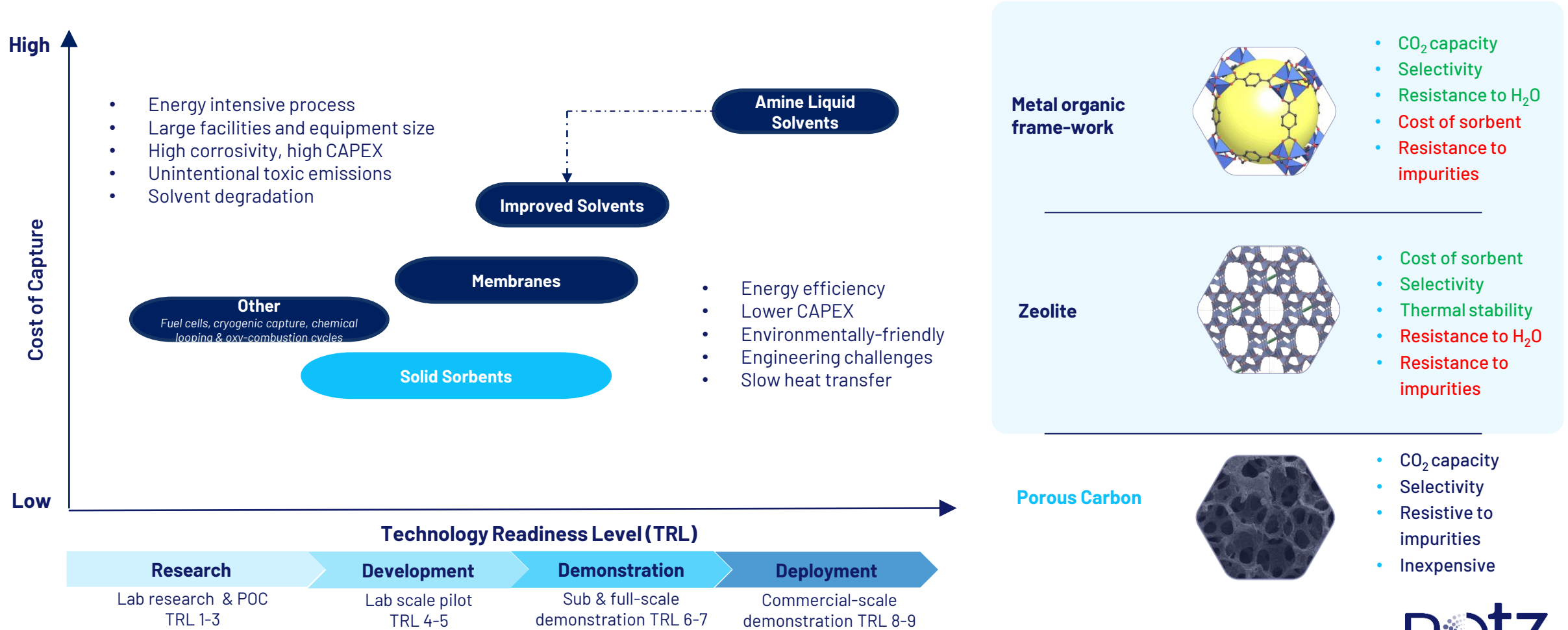
- ✓ **VAST EXPERIENCE IN SYNTHESIS AND SURFACE CHEMISTRY**
- ✓ **PROVEN EXPERIENCE IN PRODUCT COMMERCIALISATION**
- ✓ **SKILLED TEAM**
- ✓ **STRATEGIC PARTNERSHIPS**
- ✓ **CLEAR STRATEGY & ROADMAP**



Strategic partners.

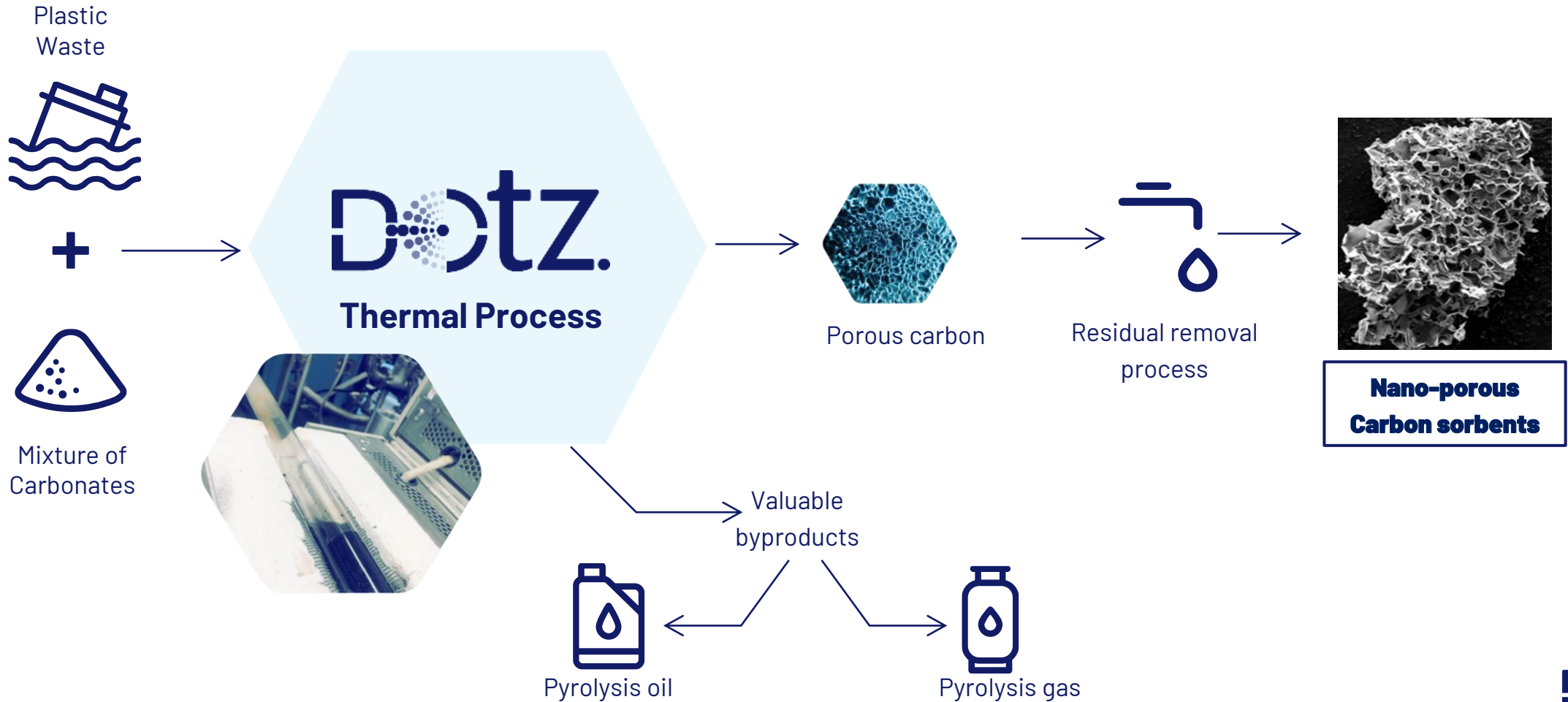


Energy efficiency, resistance to degradation and low cost, make nanoporous carbon sorbent ideal for carbon capture.



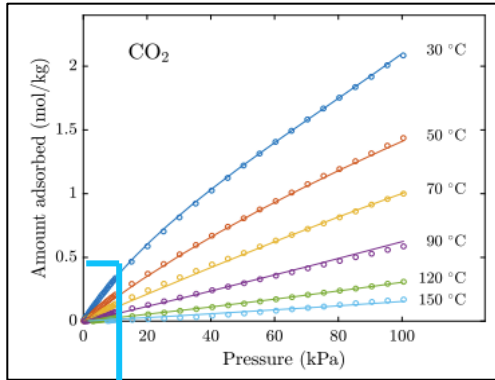
 Superior technology

Patented synthesis method for converting plastic waste into porous carbon sorbents.

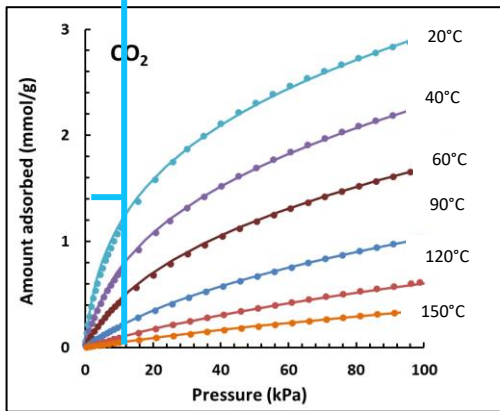


Validation testing and simulations demonstrate preferable performance.

Commercial activated carbon*



Dotz's nano-porous carbon sorbent



3X higher adsorption capacity (at 10-20 kPa)

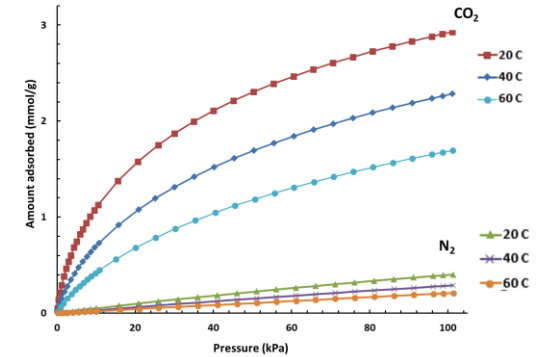
Process simulation performed on SINTEF's Moving Bed Temperature Swing system (WtE, Cement scenarios)

Process performance and main operating conditions

		Comm. AC WtE	DotzShield WtE	DotzShield Cement
Amount of circulating sorbent	kg/h	650	360	552
CO ₂ purity	%	97.2	98.1	99.8
CO ₂ capture rate	%	90.8	93.5	96.74
CO ₂ captured	kg/h	8.26	8.6	15.3
System footprint	m ²	203	-63% → 75	112
External heat duty (sorbent regeneration)	kW	47	29.5	48.6
External cooling duty	MW	46	28	45
Specific heat duty	GJ/t CO ₂	5.7	-40% → 3.4	3.2

High CO₂/N₂ selectivity

Dotz's nano-porous carbon sorbent



TARGET PERFORMANCE CRITERIA:

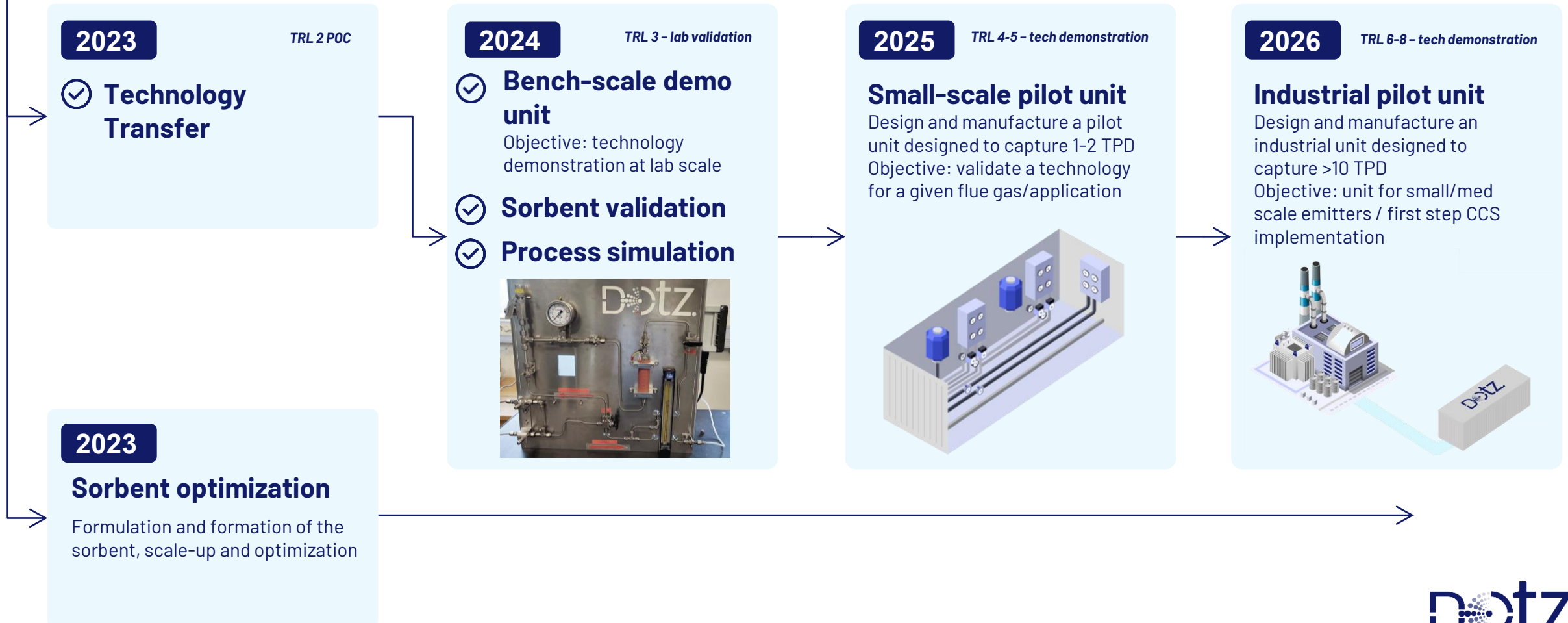
Cost of sorbent:
<20 USD/Kg

Energy requirement:
<2.5 GJ/t CO₂

Cost of carbon capture:
<50 USD/t CO₂

🕒 Clear growth pathway

Technology development roadmap: clear value creation development milestones.





Join our Journey

