

# AUSTRALIA'S CCS TECHNOLOGY ROADMAP

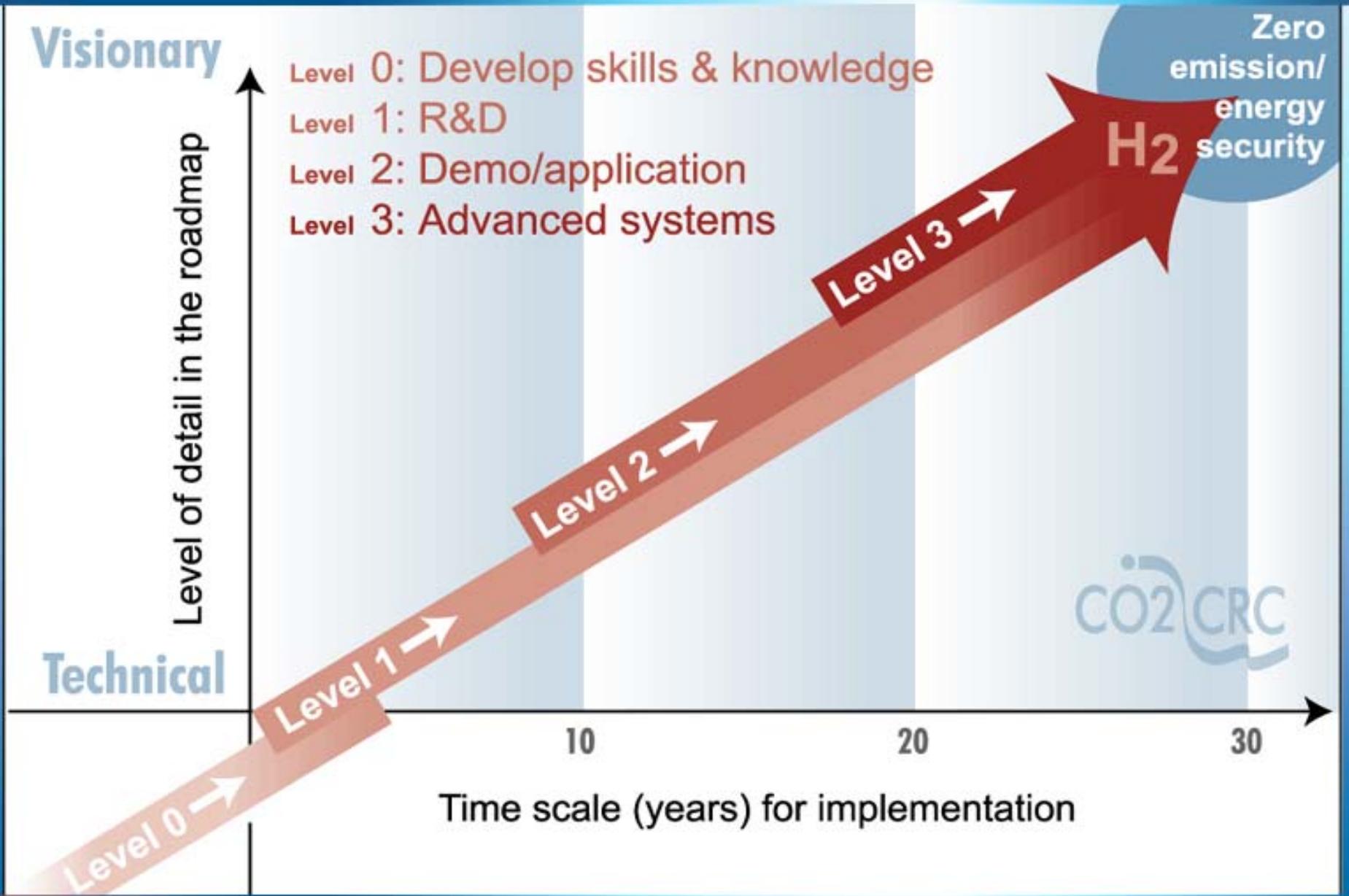
**Peter J Cook and Dennis R Van Puyvelde**

**Cooperative Research Centre for Greenhouse  
Gas Technologies (CO2CRC) ,Canberra Australia**

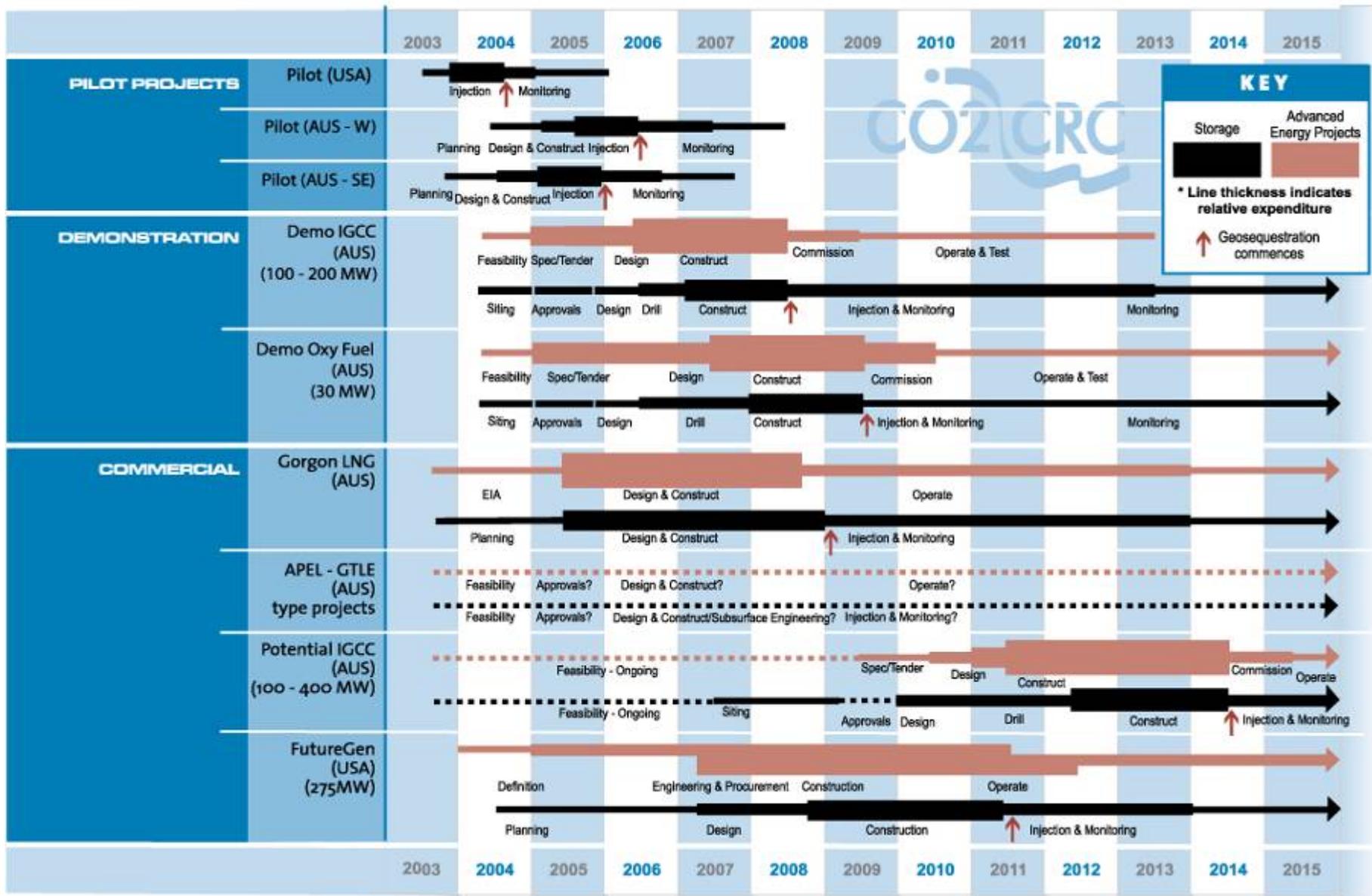
Presentation to the CSLF 3<sup>rd</sup> Capacity Building Workshop

Saudi Arabia, January 2008

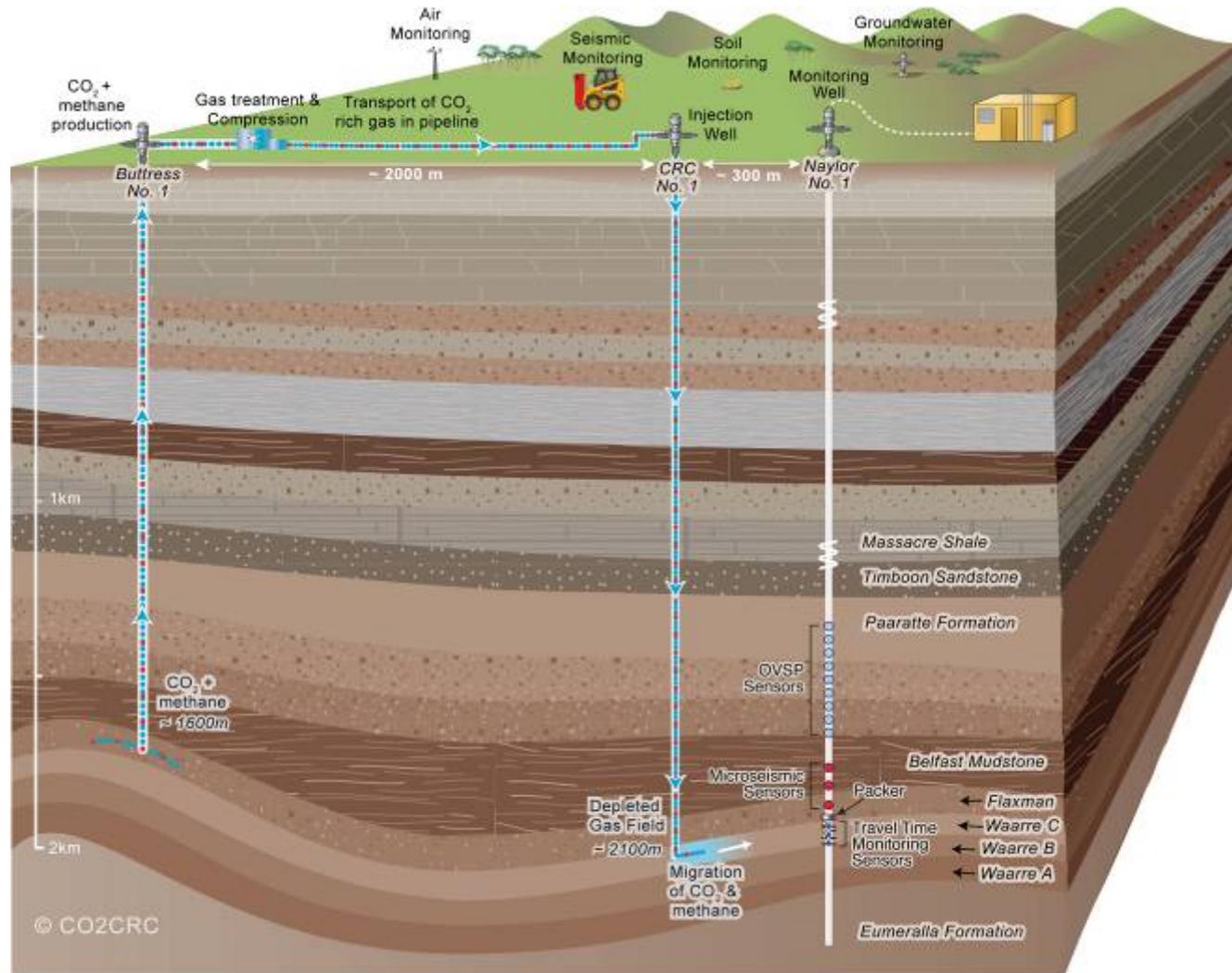




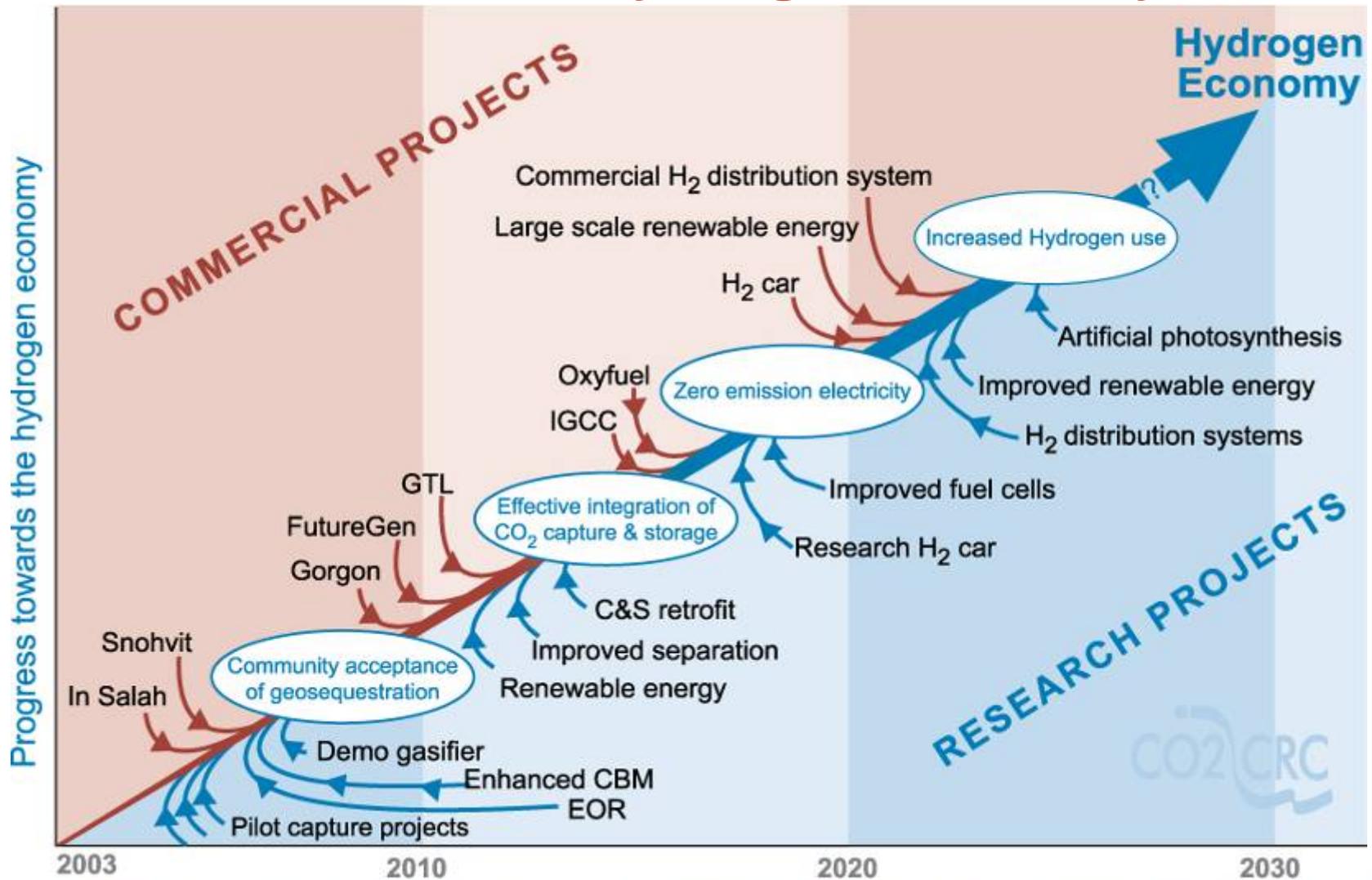
*Schema for the Australian CCS Technology Roadmap illustrating the four levels of mapping related to degree of detail and timing and commercialisation. (developed 2003)*



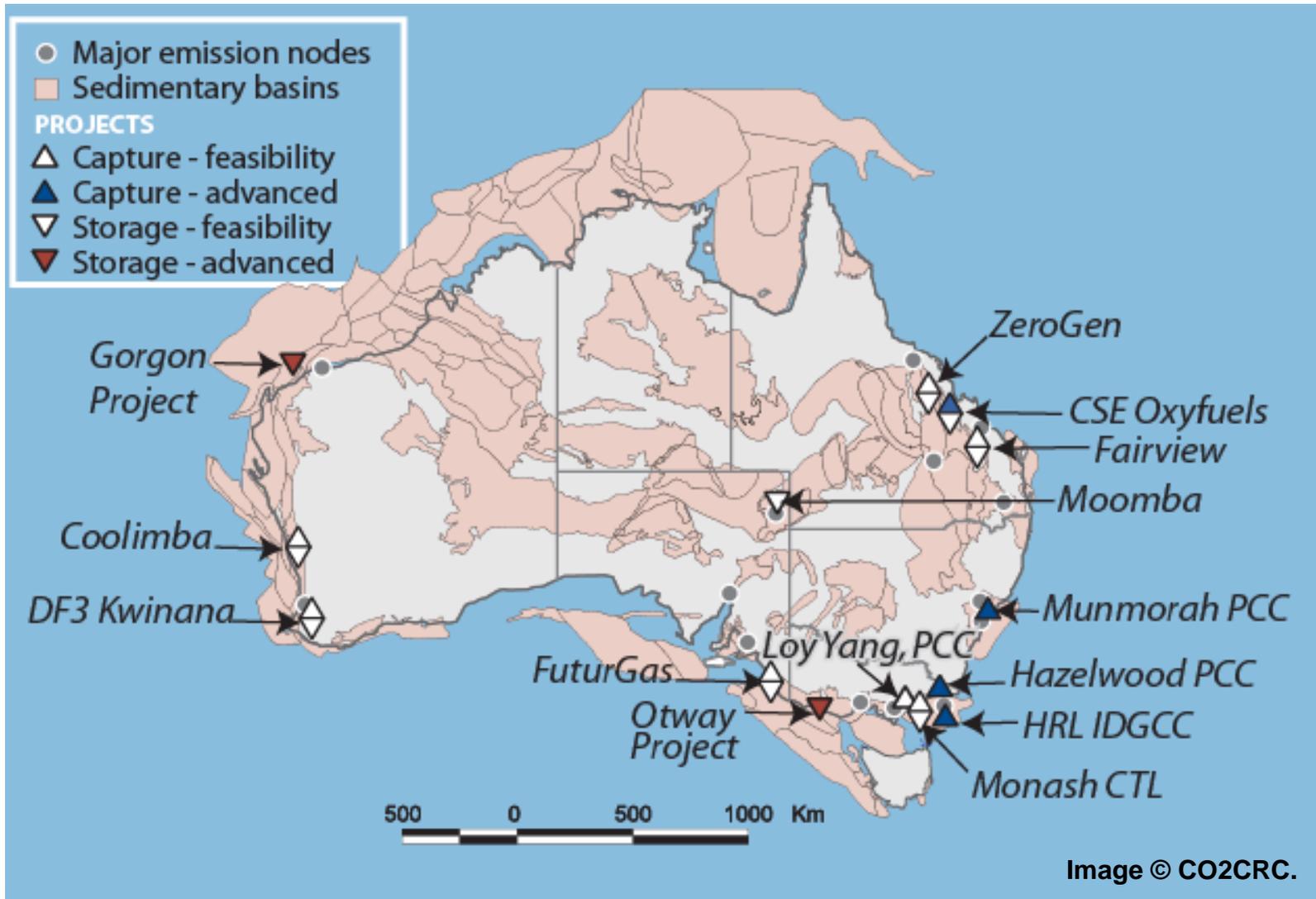
# The CO2CRC Otway Project



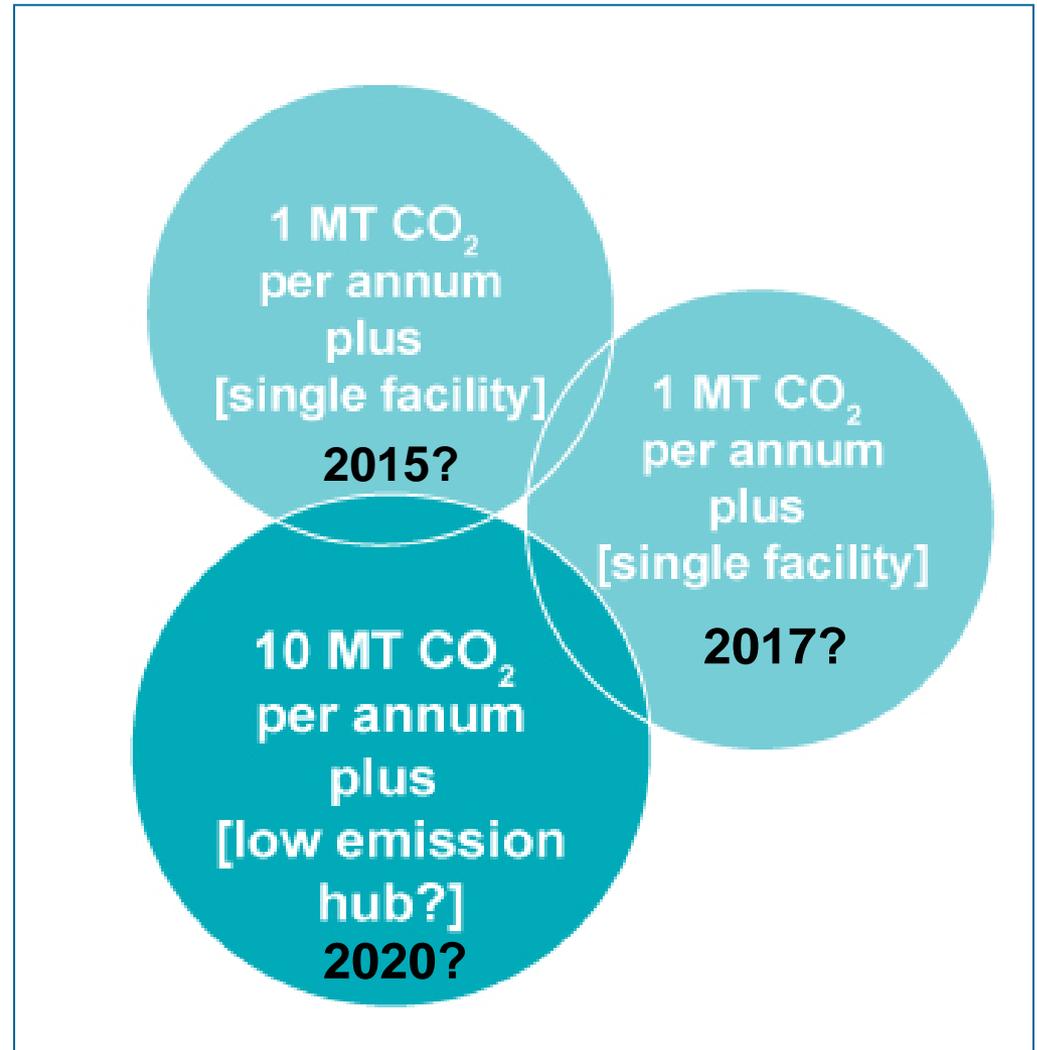
# Towards the Hydrogen Economy



# CCS Projects in Australia



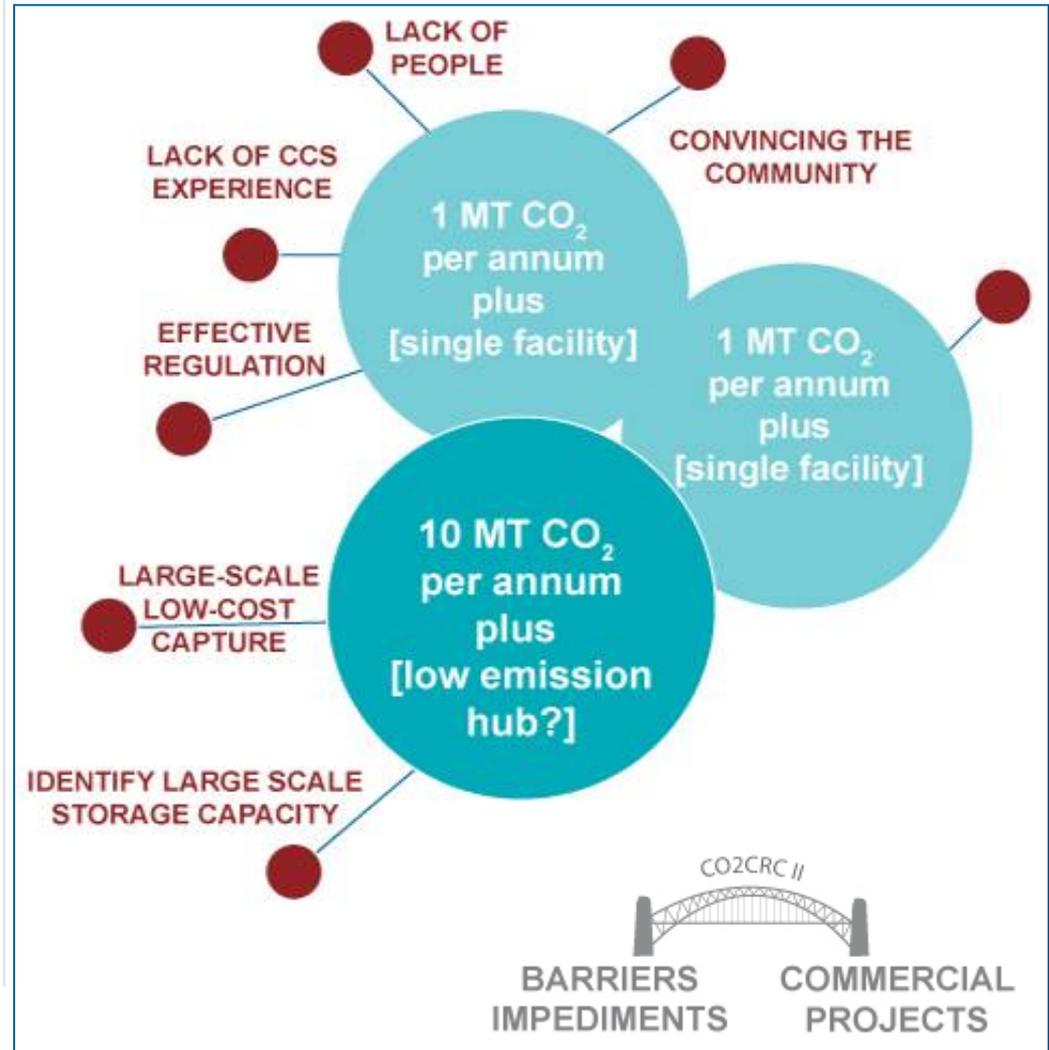
The aim of a new Australian technology road map must now be to accelerate commercial deployment of CCS.....



KEY

- Major commercial project
- Major low emission hub

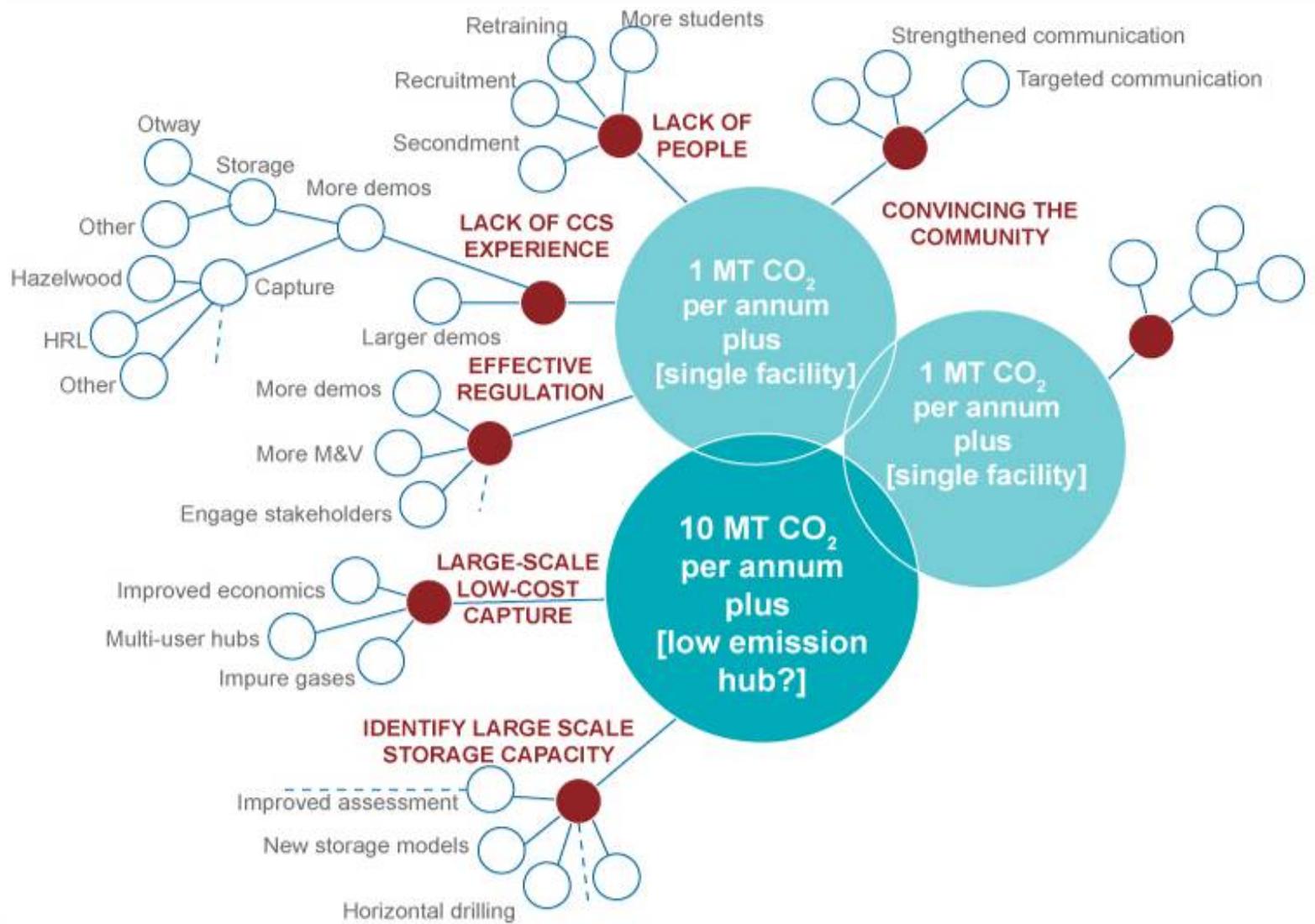
... but there are still barriers to achieving this.



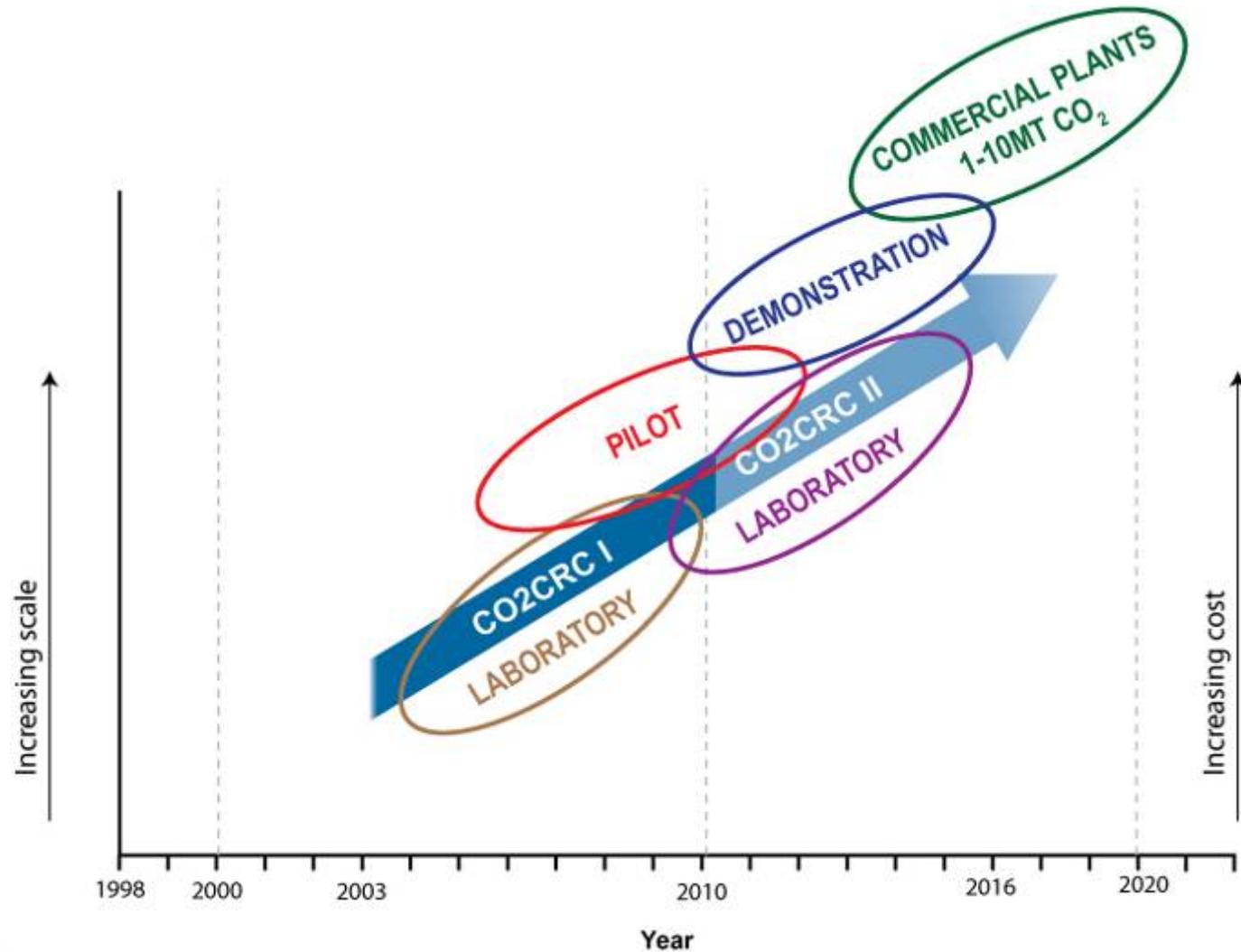
**KEY**

- Major commercial project
- Major low emission hub
- Impediments

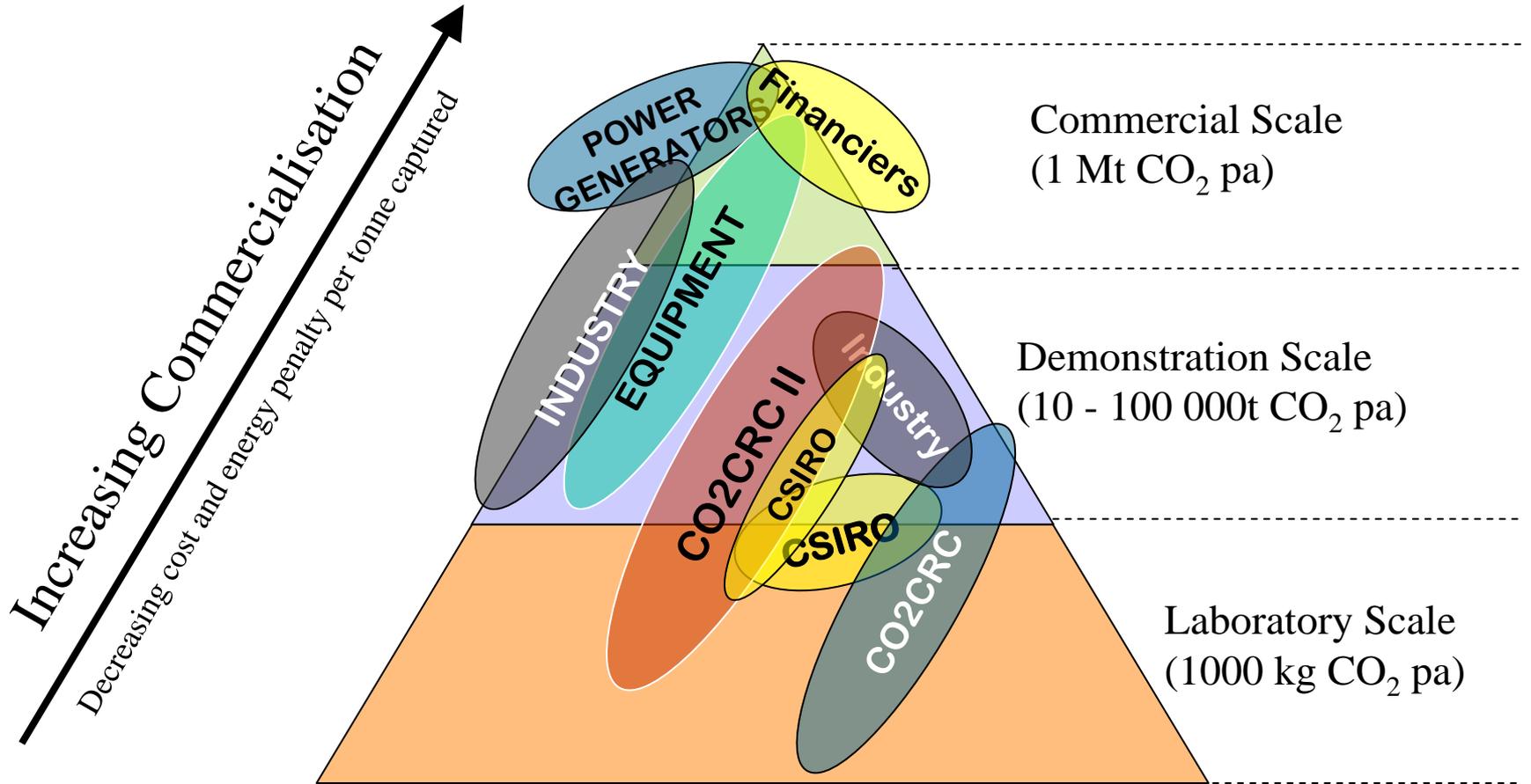
# Addressing the barriers to large scale implementation of CCS



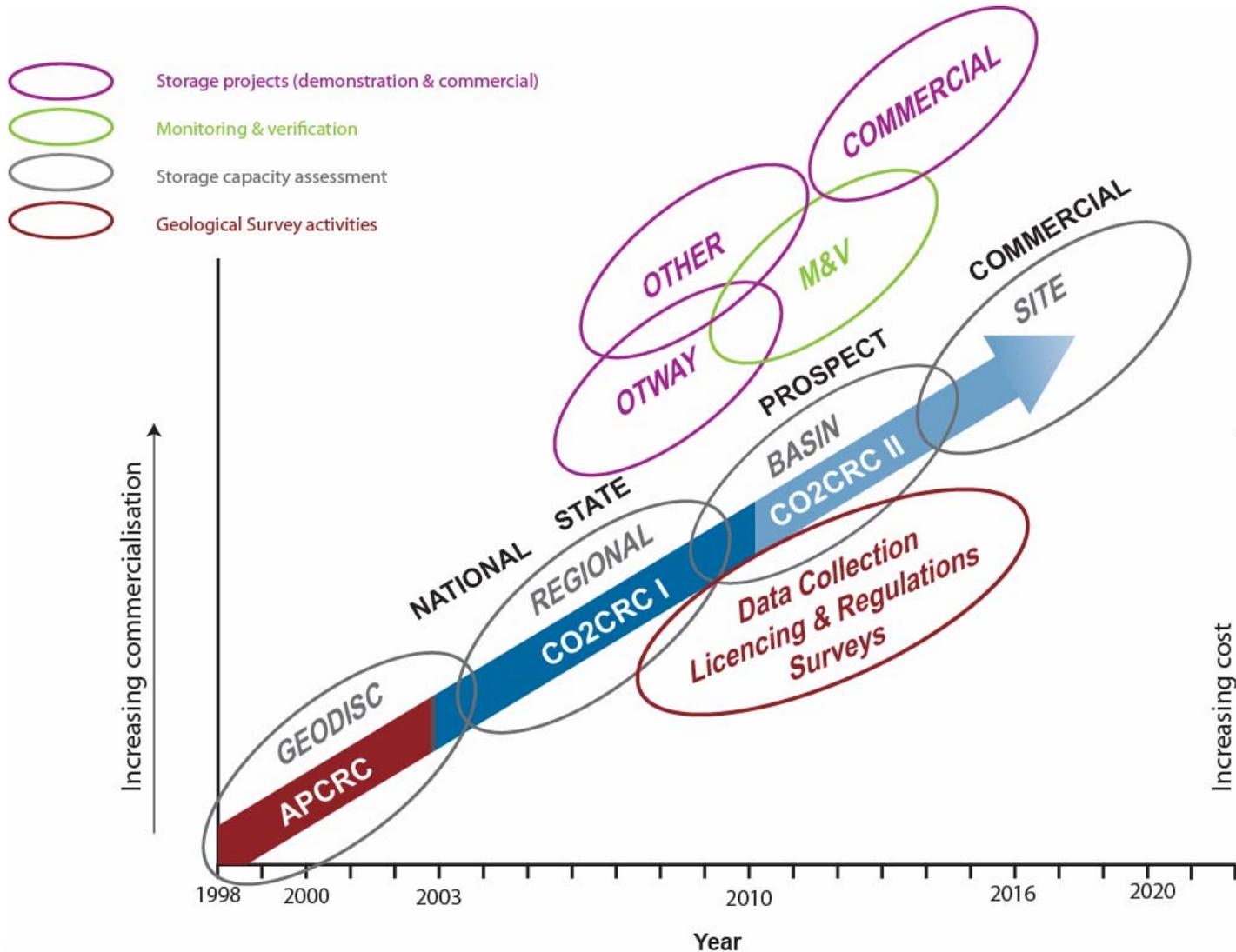
# The CO2CRC Pathway for CO<sub>2</sub> Capture



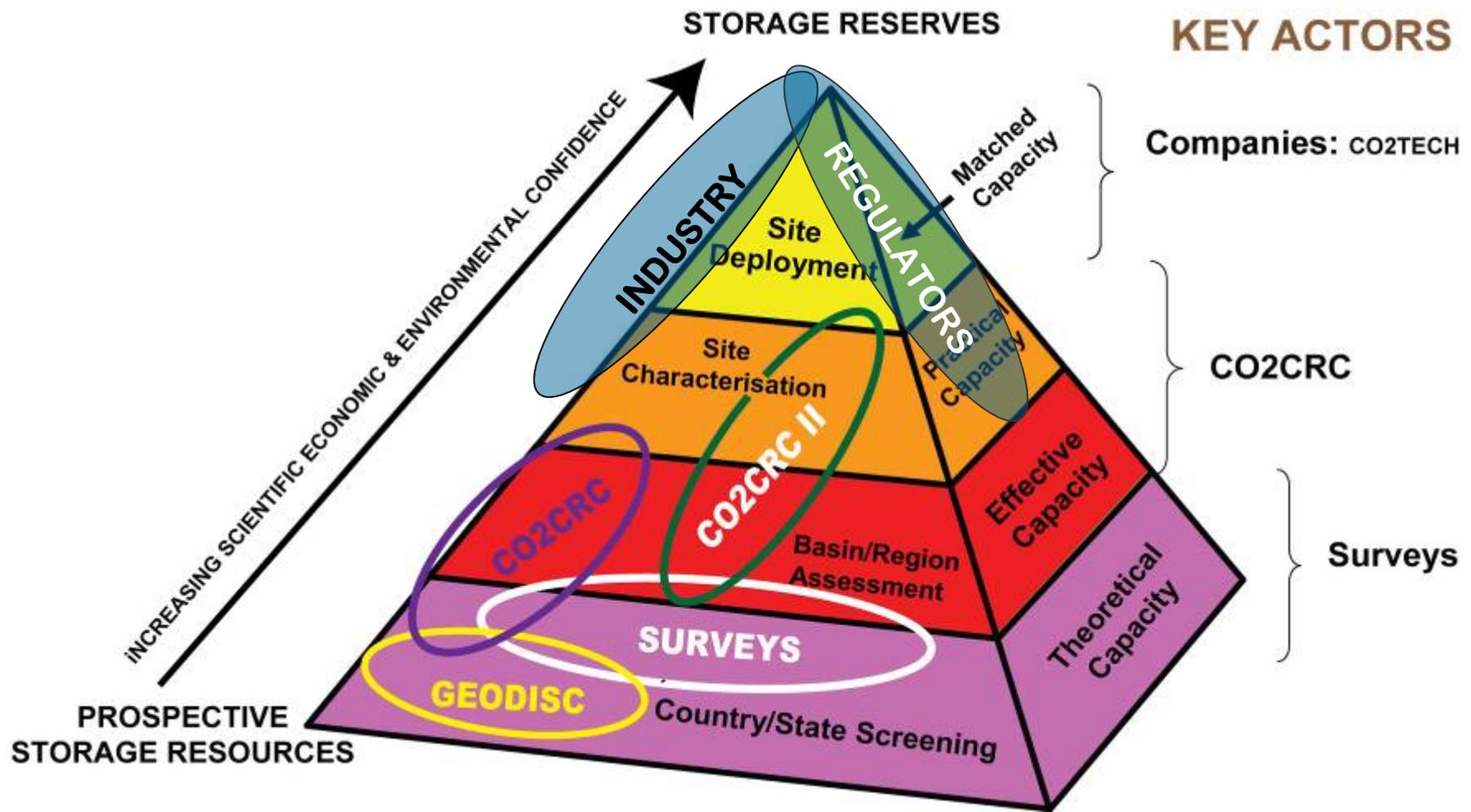
# Capture Actors



# The CO2CRC Pathway for CO<sub>2</sub> Storage



# Storage Actors



# CCS Value Chain Components



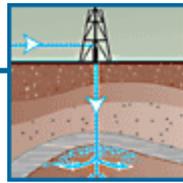
Fuel Supply



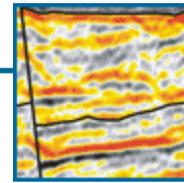
Capture



Transport Infrastructure



Storage



MMV



Closure



Long Term Liability



Coal  
E&P



Generators  
Petrochem  
Industrial



E&P –  
some  
Pipeline  
Public  
Shipping  
Transport



E&P  
Service  
New Co  
Govt



Govt  
Service  
Certification  
E&P



Govt  
Insurance  
Service  
Certification  
E&P



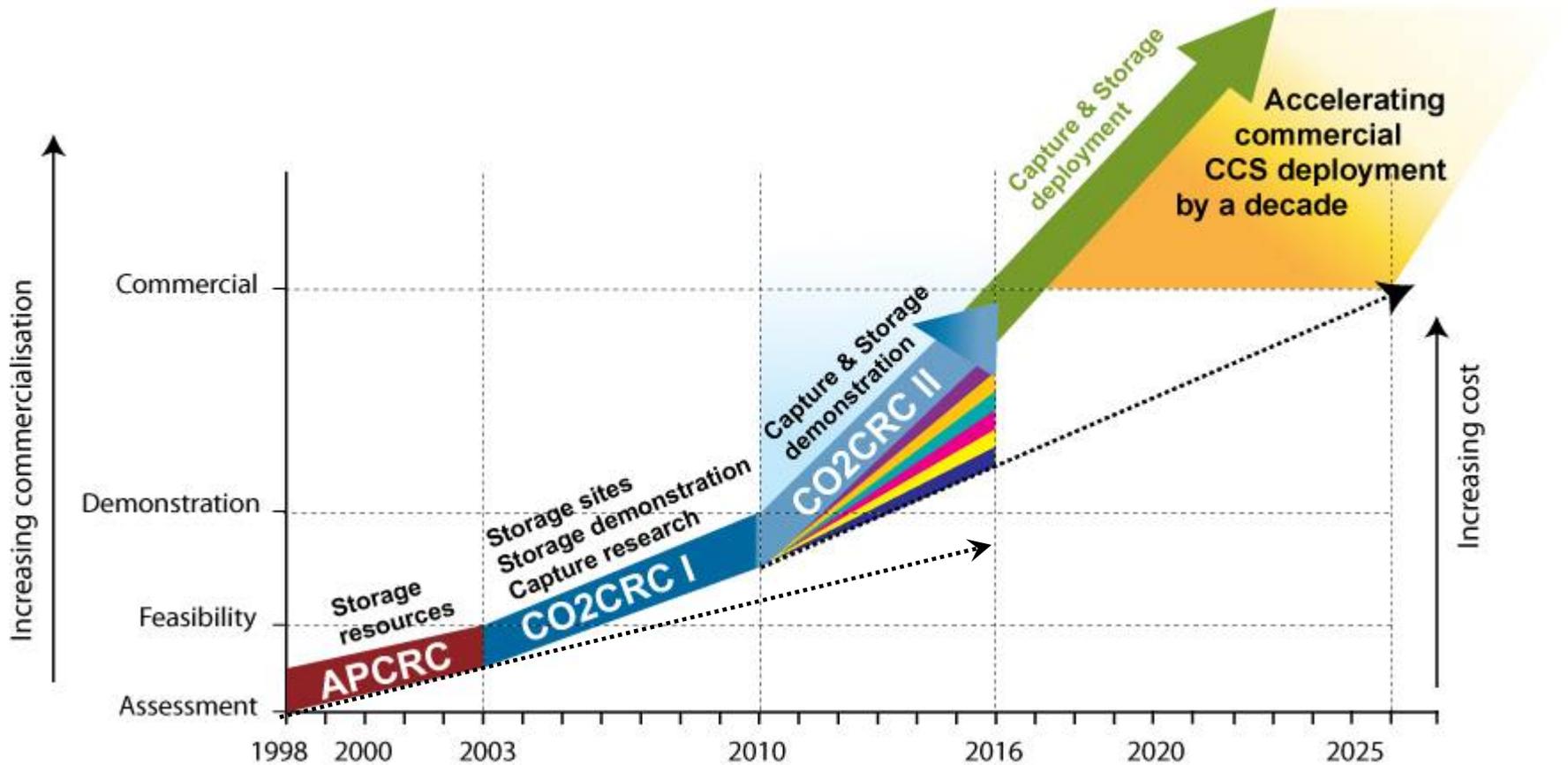
Govt  
Insurance



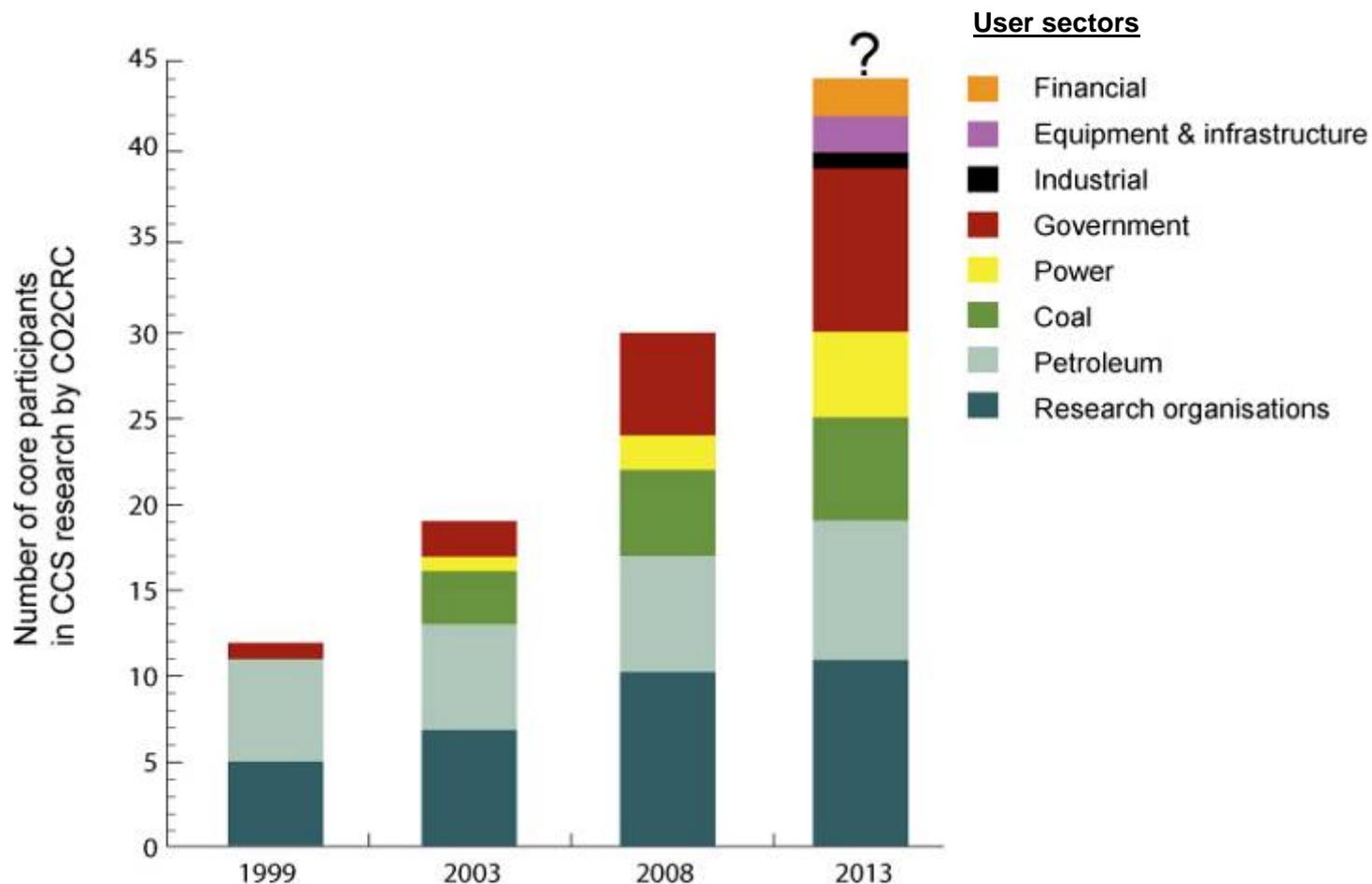
+ Banks, Traders, R&D

# DRAFT

## CO2CRC/ Australian Technology Roadmap

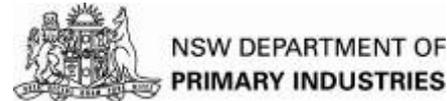


# The changing profile of support for CCS R&D in Australia



The changing profile of support for CCS cooperative research in Australia over the past decade

# CO2CRC Participants



Supporting participants: Australian Greenhouse Office | Australian National University | CANSYD | Meiji University | The Process Group | University of Queensland | Newcastle University |

Established & supported under the Australian Government's Cooperative Research Centres Programme

[www.co2crc.com.au](http://www.co2crc.com.au)

