



Australian Government

Department of Climate Change, Energy,  
the Environment and Water

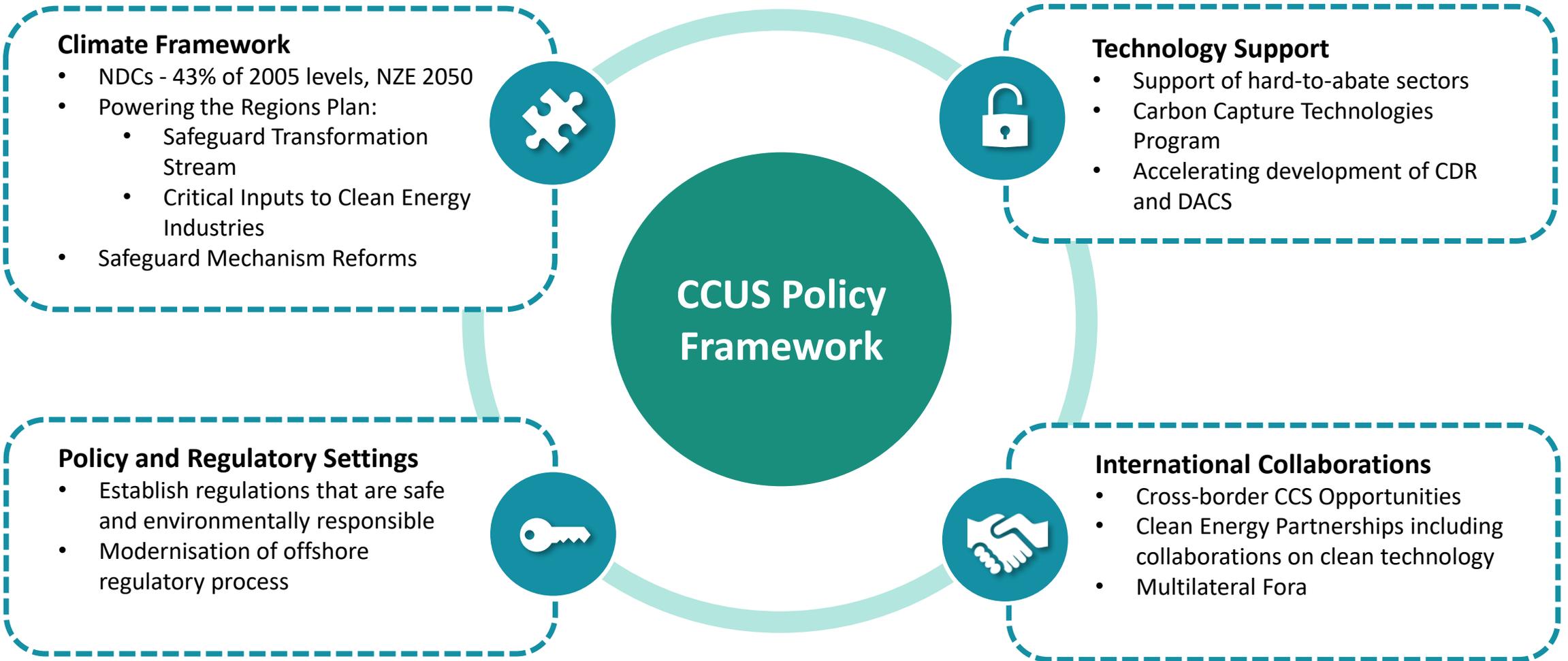
# CCUS in Australia

3<sup>rd</sup> Asia CCUS Network

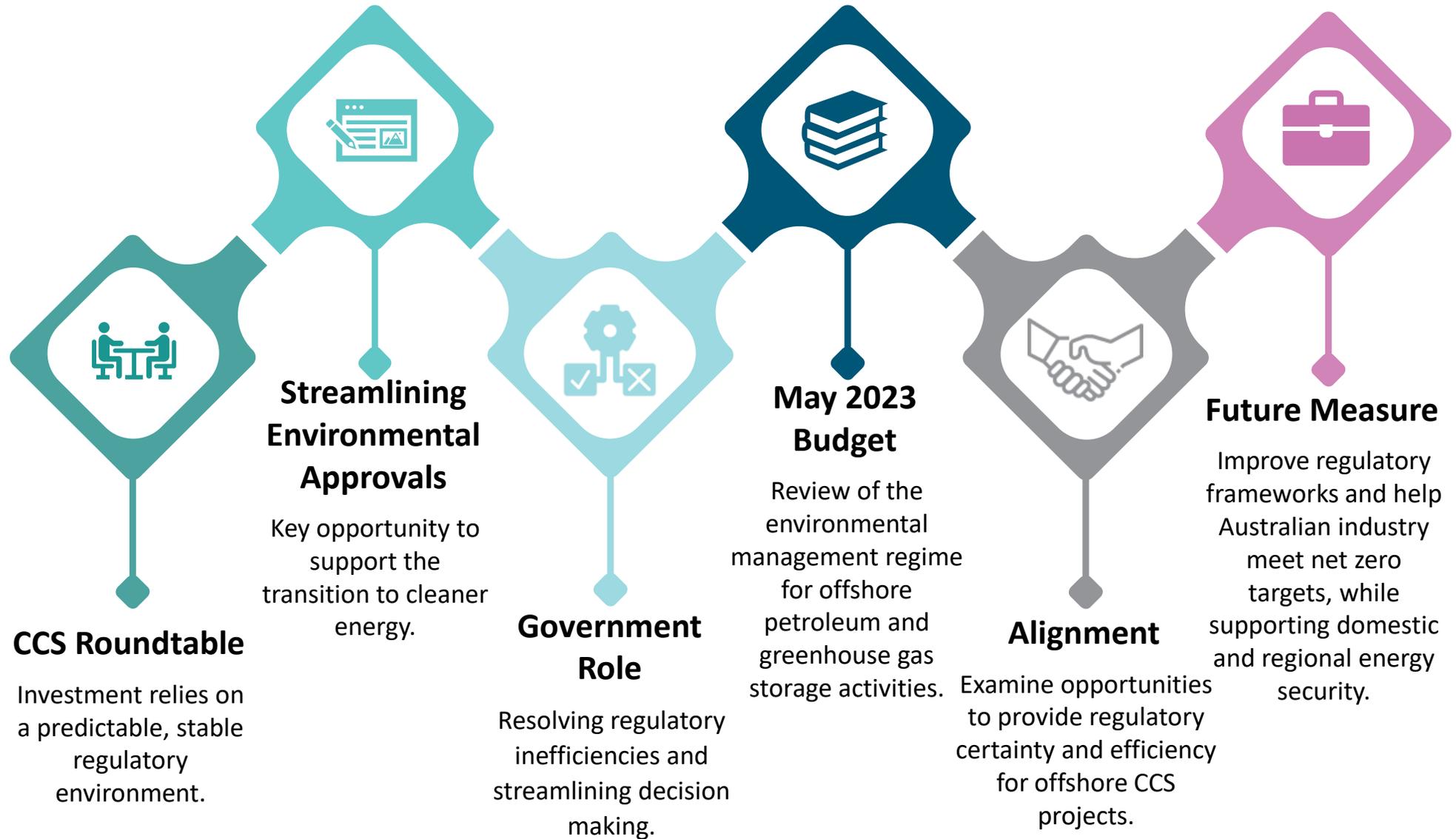
Jocelyn Taylor, Director, CCUS and Hydrogen Collaboration  
September 2023



# A Coordinated Approach to CCUS

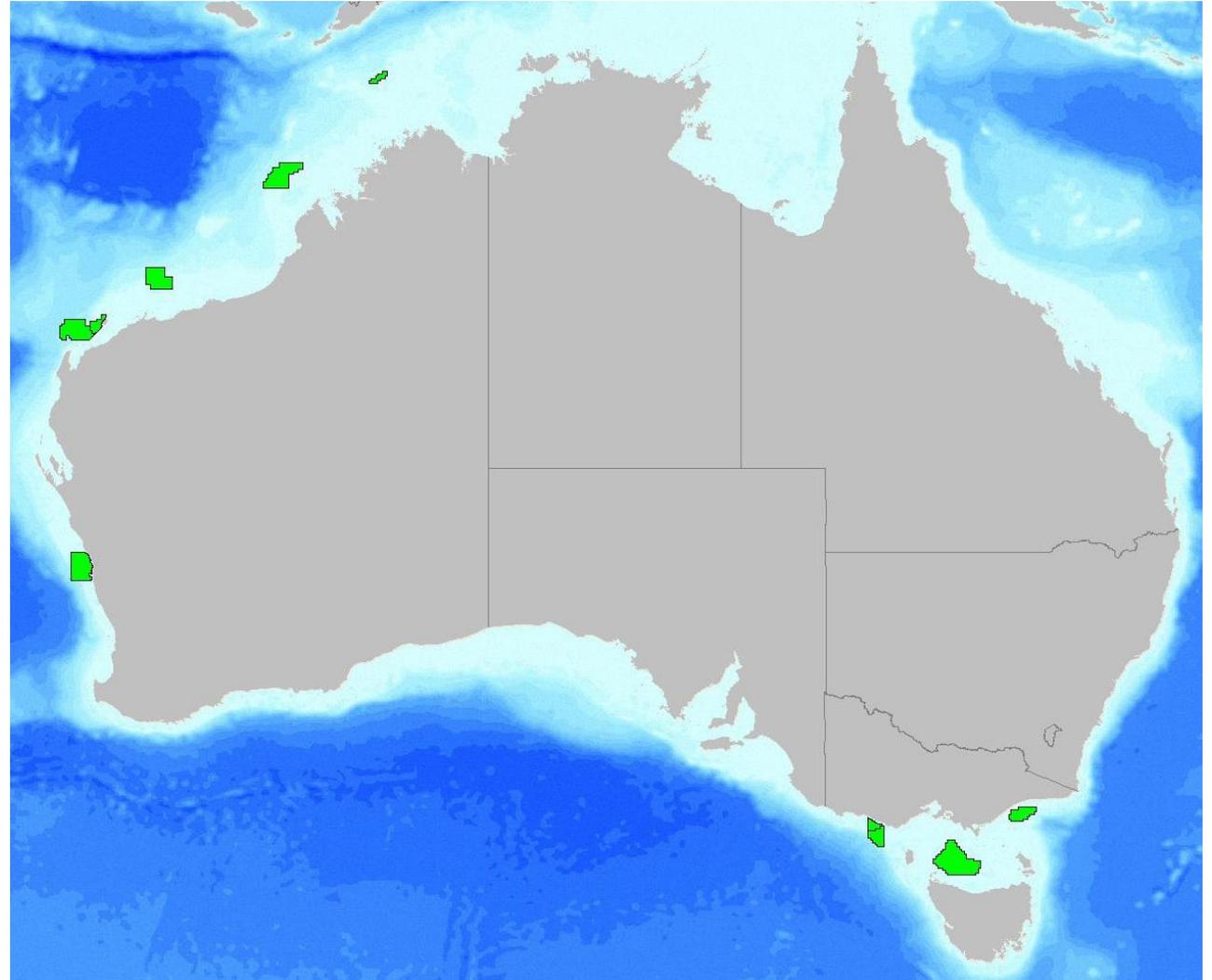


# Alignment of offshore regulatory processes

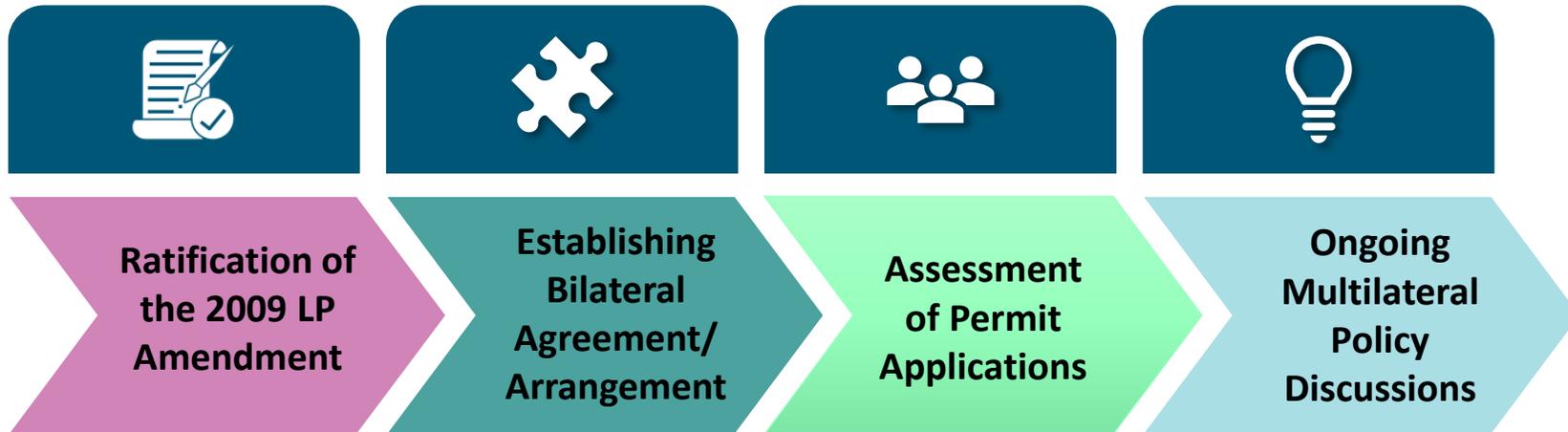


# 2023 Offshore GHG Storage Acreage Release

- The Minister for Resources announced the opening of the new release on 29 August 2023
- 10 areas are available for work program bidding
- Located offshore Western Australia, Tasmania and Victoria
- Bidding period closed 28 November 2023



# Transboundary Movement of CO<sub>2</sub>



## 2009 & 2013 Amendments to the London Protocol

- The Australian Government has introduced a bill to ratify these amendments:
  - 2009 Amendment: remove the prohibition to export CO<sub>2</sub> between countries for offshore geological storage.
  - 2013 Amendment: allow lacement of wastes, or other matter into the sea, for legitimate marine geoengineering research
- The Bill for amendments has passed the House of Representatives on 03 August 2023; and is now awaiting debate in the Senate, which may occur later this year.



# International Collaboration – CCUS & Hydrogen

## Clean Energy Partnerships



### JAPAN

- Australia-Japan Partnership on Decarbonisation through Technology
- MoC on Carbon Recycling
- Discussions on cross-border CO<sub>2</sub> policy
- Technical exchange of low-emissions technologies
- Engagement through Asia CCUS Network (hosted by Japan)



### UNITED KINGDOM

- Australia – UK Clean Technology Partnership
- Information exchange on policy, legal and regulatory frameworks and best practice
- CCUS hubs establishment via Net Zero Teesside Project



### REPUBLIC OF KOREA

- Australia-Republic of Korea Low and Zero Emissions Technology Partnership
- Discussions on cross-border CO<sub>2</sub> Policy
- Technical exchange of low-emission technologies



### UNITED STATES

- Australia-United States Net Zero Technology Acceleration Partnership
- Core member of MI:CDR mission
- CEM-GCCA Cement decarbonisation
- Carbon Management Challenge



### NETHERLANDS

- Netherlands Memorandum of Understanding on Cooperation in the Field of Hydrogen



### SINGAPORE

- Australia-Singapore MOU on Low Emissions Solutions
- Discussions on cross-border CO<sub>2</sub> Policy
- Technical exchanges on CCUS technology



### GERMANY

- Australia-Germany Hydrogen Accord
- Cooperation on demonstration projects in hydrogen hubs
- Funding for new projects under HyGate



### INDIA

- Letter of Intent on New and Renewable Energy Technology
- Australia-India Green Hydrogen Taskforce

## Other Collaborative Partnerships



### INDONESIA

- Knowledge exchange and capacity building
- Cooperation under Indo Pacific Economic Framework



### NORWAY

- Information exchange on policy, legal and regulatory frameworks and best practice
- Lessons learned from cross-border CO<sub>2</sub> policy via Northern Lights Project

## International Forums

- Mission Innovation
- G20 - ISA Green Hydrogen Partnership
- Asia CCUS Network (led by Japan)
- CEM CCUS Initiative
- CEM Hydrogen Initiative
- IEA GHGT
- QUAD

# Contact us

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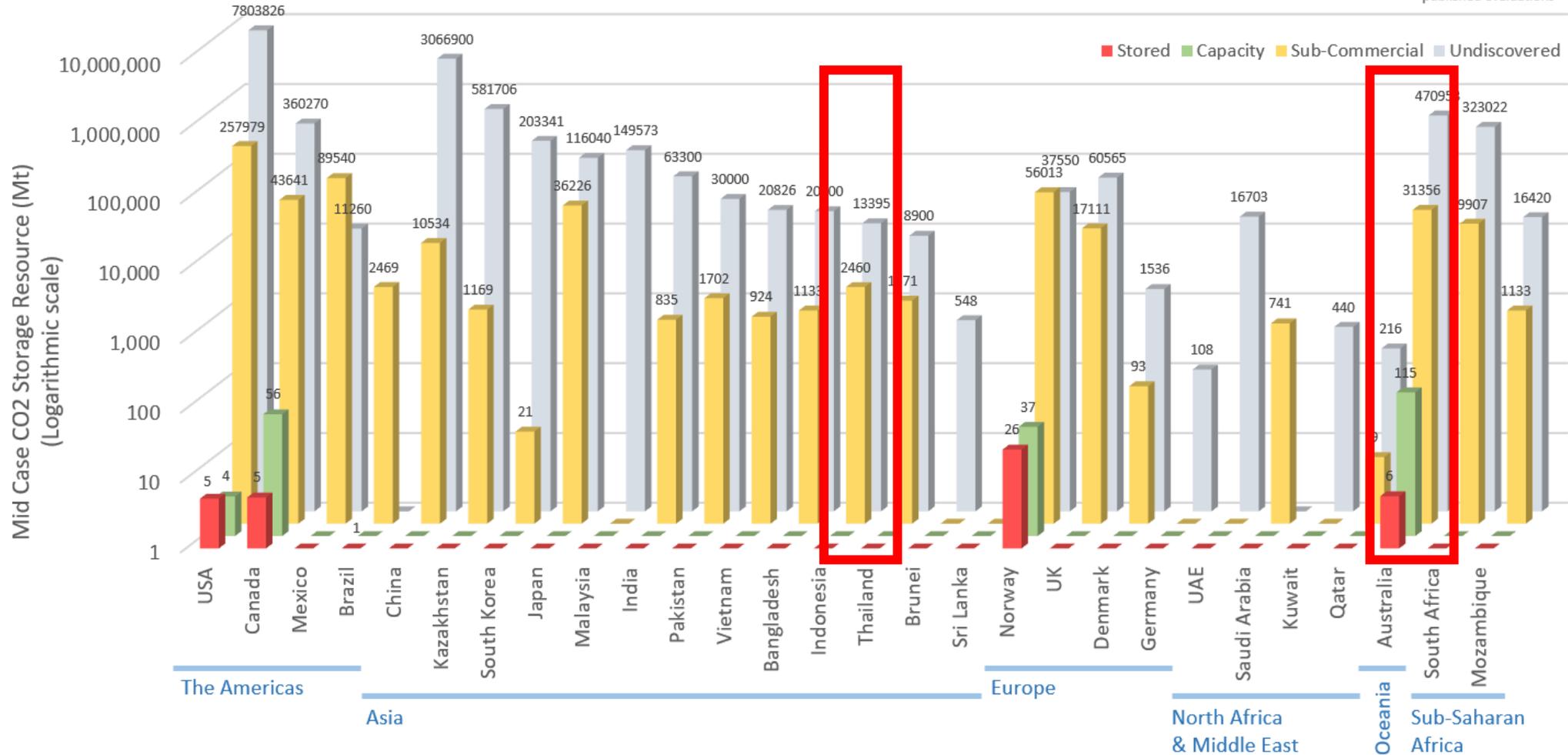
dcceew.gov.au |     

For Panel discussion –  
Australia's geological  
storage potential  
slides courtesy of  
Geoscience Australia

# Australia's CO<sub>2</sub> storage potential

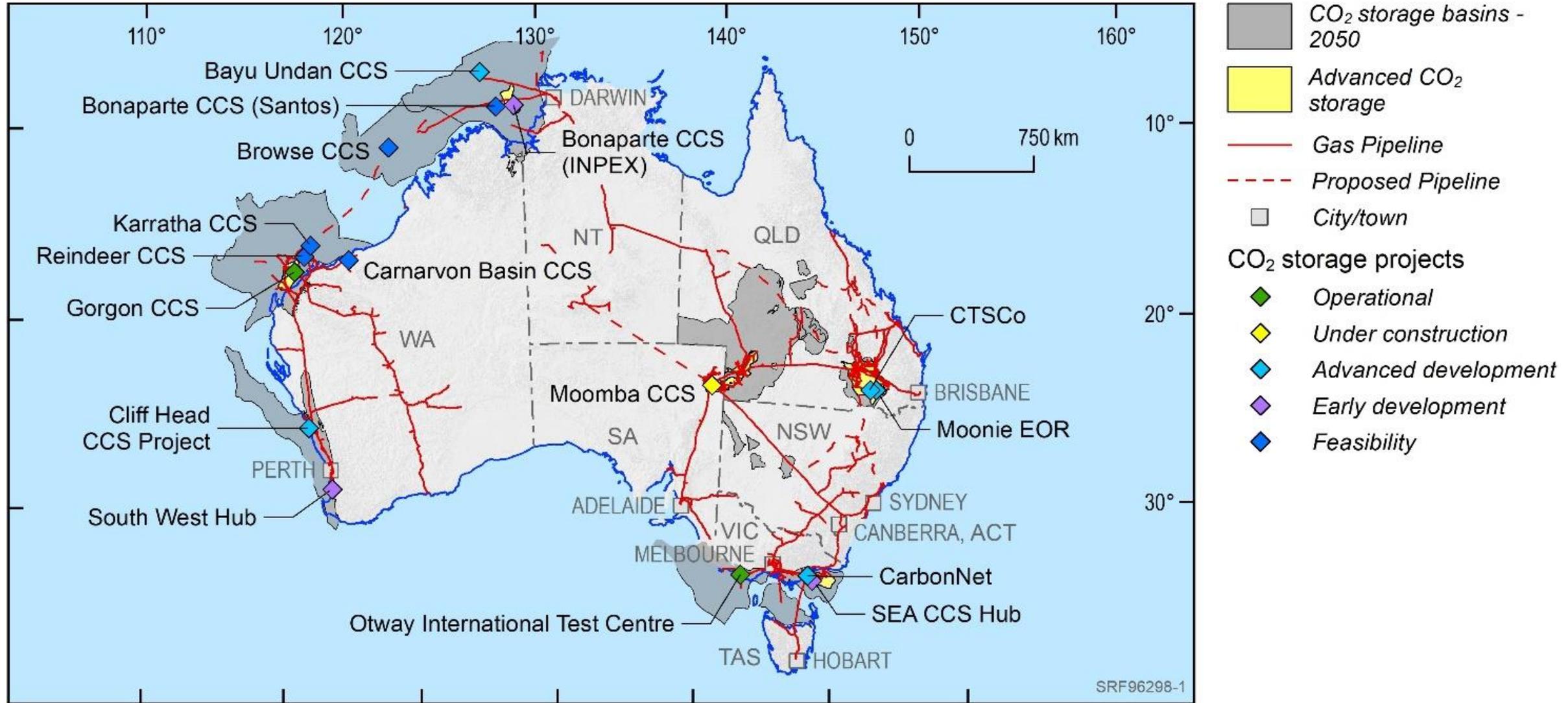
Global Storage Resource Maturity  
(Project and No Project)

Note: Nigeria and Oman were also assessed but there were no sites in published evaluations

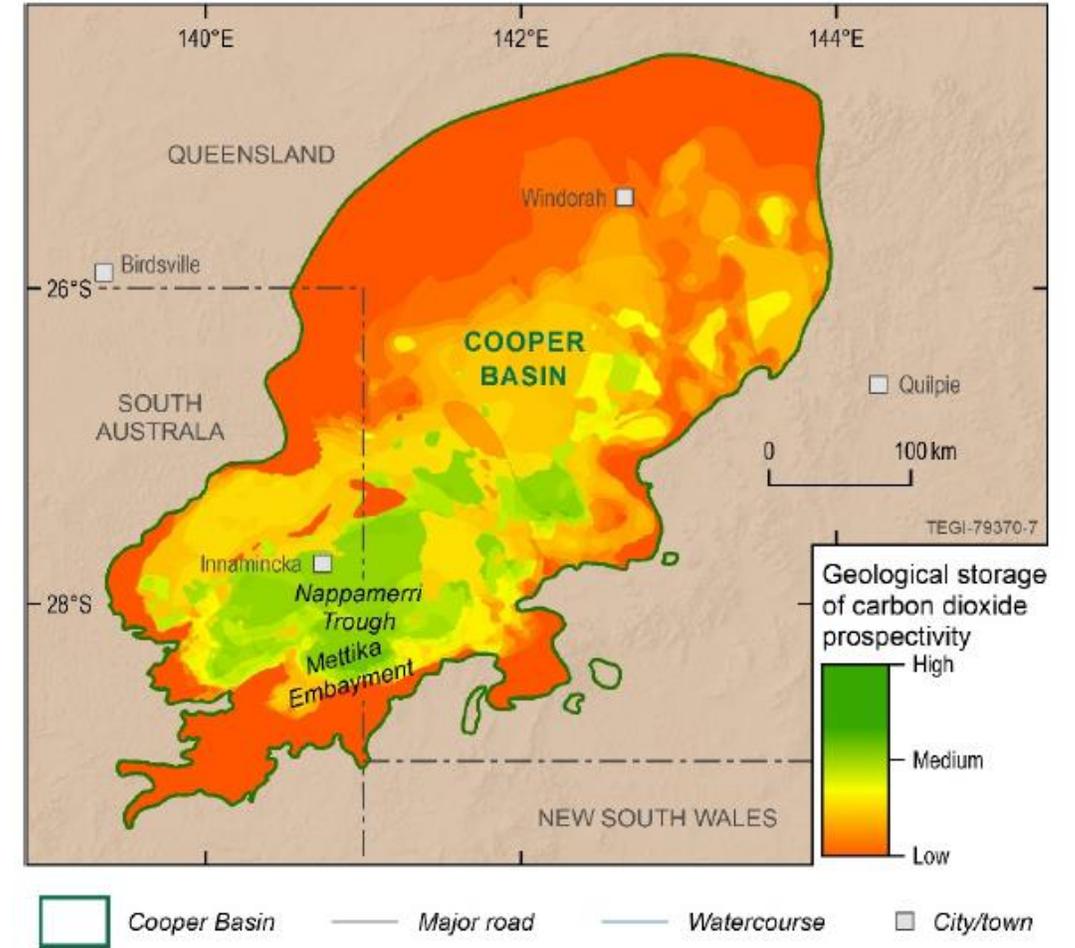
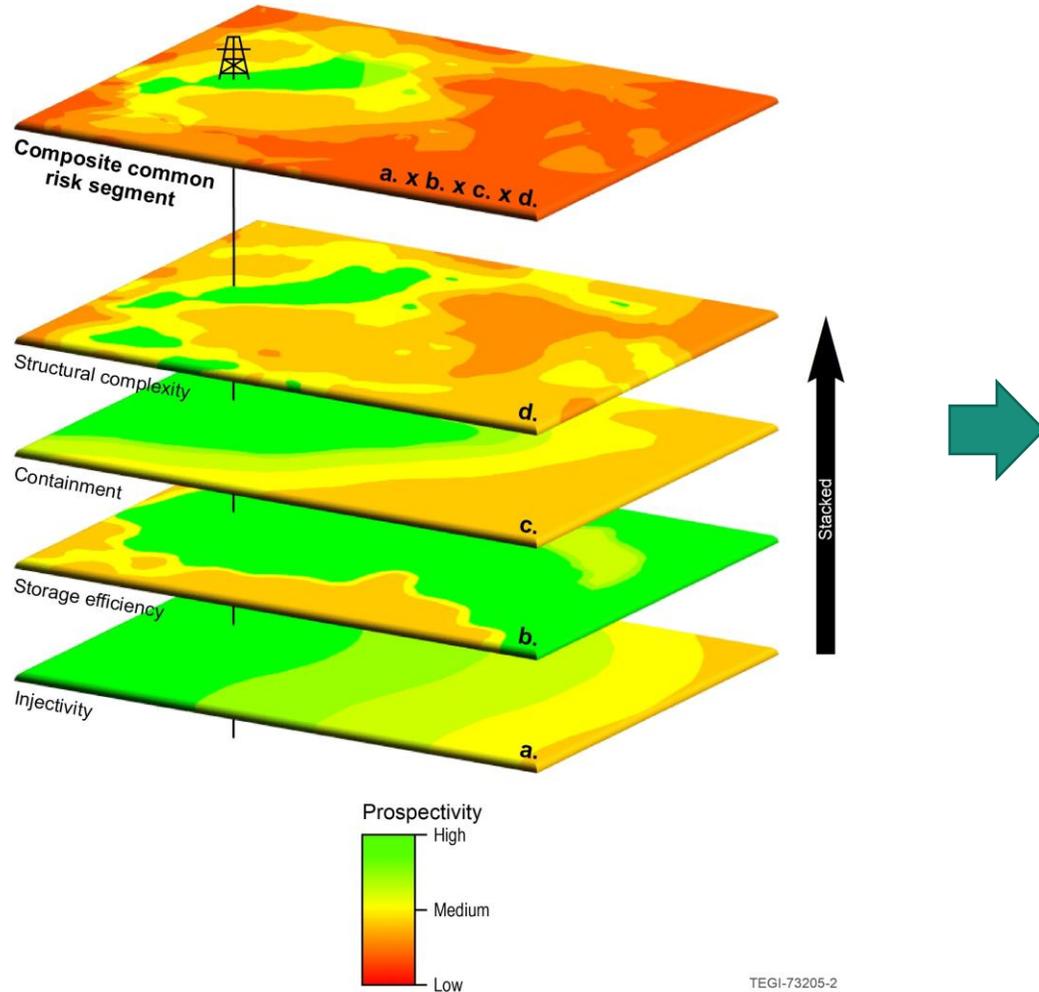


(Oil and Gas Climate Initiative, CO<sub>2</sub> Storage Resources Catalogue Cycle 3 Report, March 2022)

# Regions with CO<sub>2</sub> storage potential

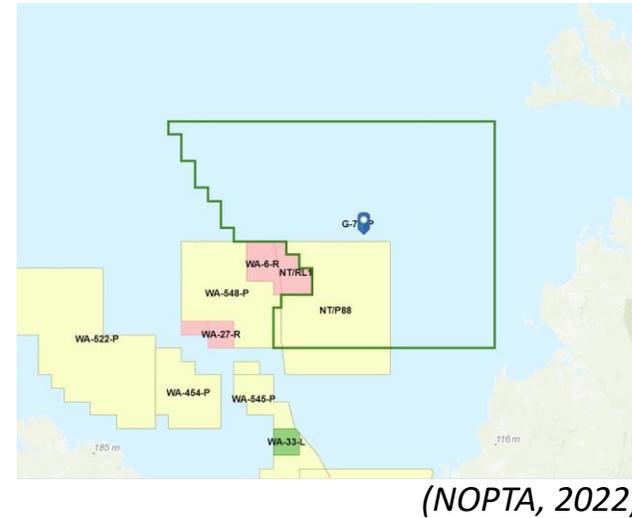
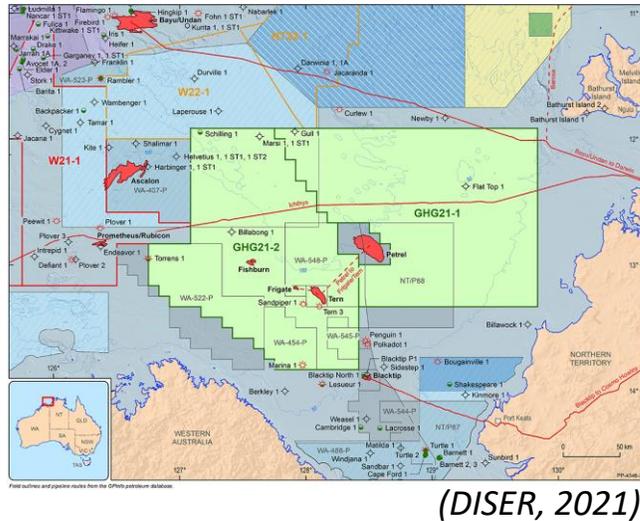
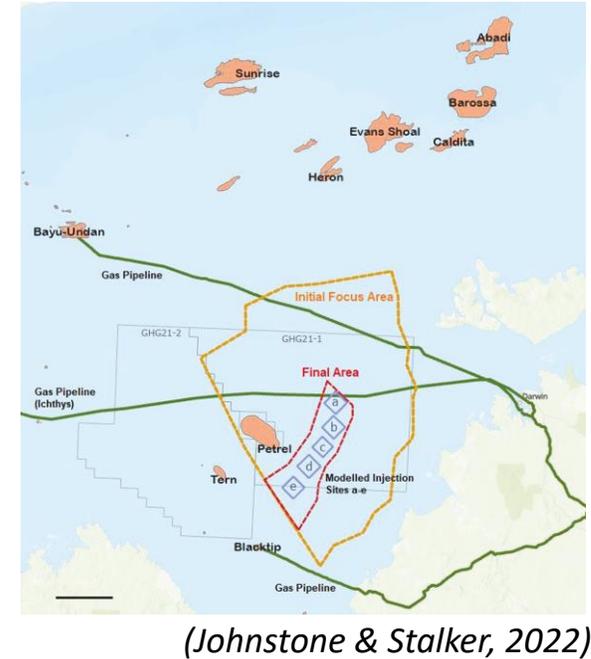
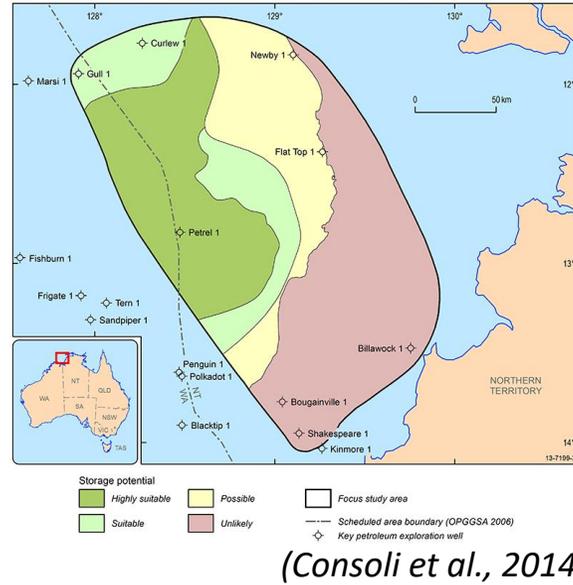
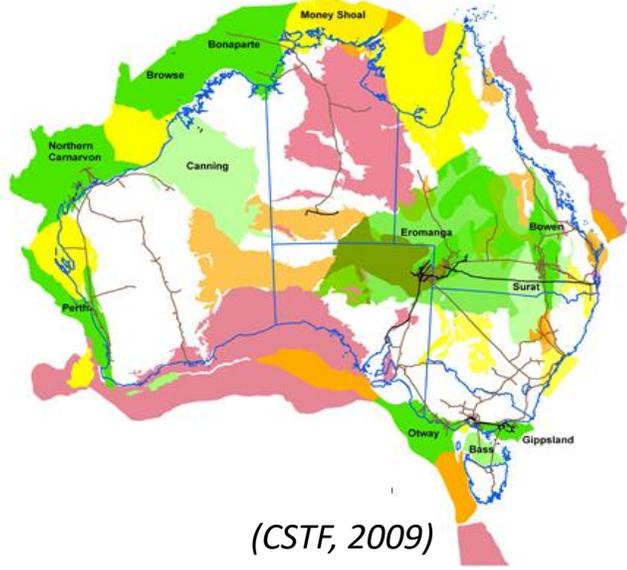


# Building the portfolio – play-based assessments



Toolachee Play example, Cooper Basin (GA, 2023)

# Precompetitive work to GHG acreage award – Petrel Sub-basin example



Aug 2022: First GHG assessment permit in Bonaparte Basin awarded to Inpex (& Total, Woodside)

\$159m + 6m work program  
3D seismic, 2 appraisal wells