

Geosequestration Needs Analysis
Australia
CSLF Rome 2004

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Greenhouse Gas Technologies



Key Issues for CO₂ Capture

Technical issues

- how?
- at what cost and what efficiency?
- what to do about contaminants?
- regional hubs?

Community issues

- will higher power costs be acceptable
- will 'do nothing' be acceptable?

Key Issues in CO₂ Storage

(excluding ocean storage)

Technical issues

- where can we store?
- how much can we store?
- at what cost?
- with what degree of confidence?
- for how long?

Community issues

- is it safe?
- is it ethical?
- is there a better way?

Value of Australia's fossil fuel & energy intensive exports (2000-2001)

	A\$billion
LNG + Petroleum	6.0
Coal	13.5
Aluminium/alumina	9.0
Total value of exports	A\$28.5 billion

CO2CRC involves the following organisations:



Australian Government

Geoscience Australia

Australian Greenhouse Office

Department of Industry, Tourism and Resources



ACARP



ChevronTexaco

THE UNIVERSITY OF MELBOURNE



Schlumberger

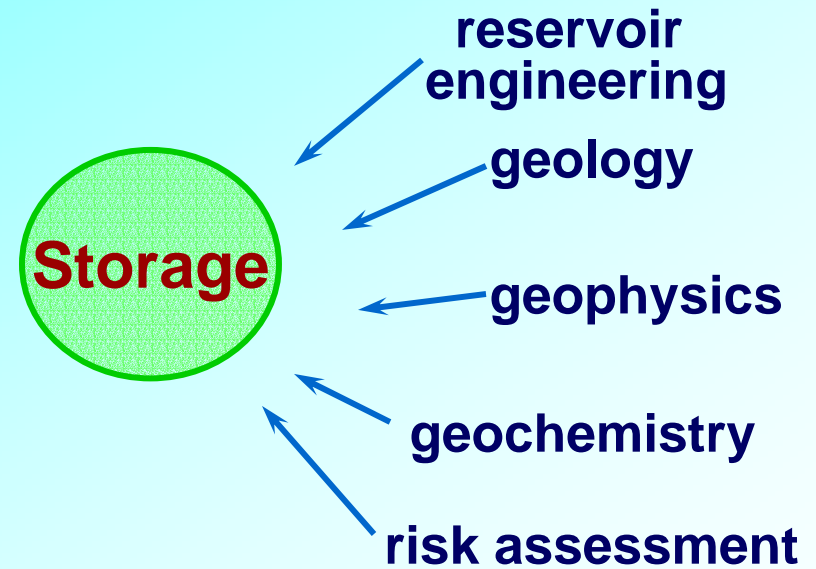


Natural Resources and Environment

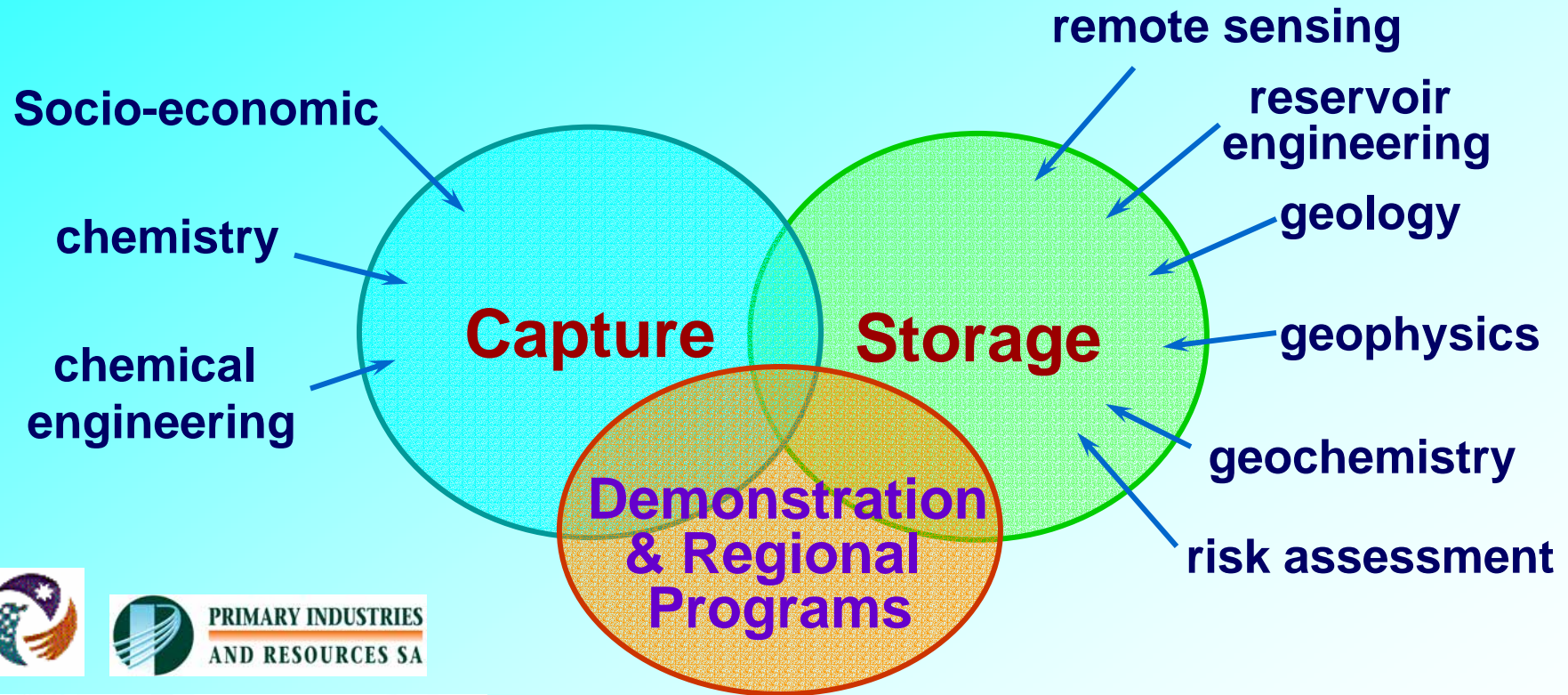


PRIMARY INDUSTRIES AND RESOURCES SA

GEODISC Research



CO2CRC Research



PRIMARY INDUSTRIES
AND RESOURCES SA



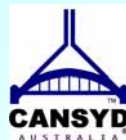
Department of
Mineral and Petroleum Resources



process group

URS

MONASH
UNIVERSITY



CO2CRC PROGRAMS

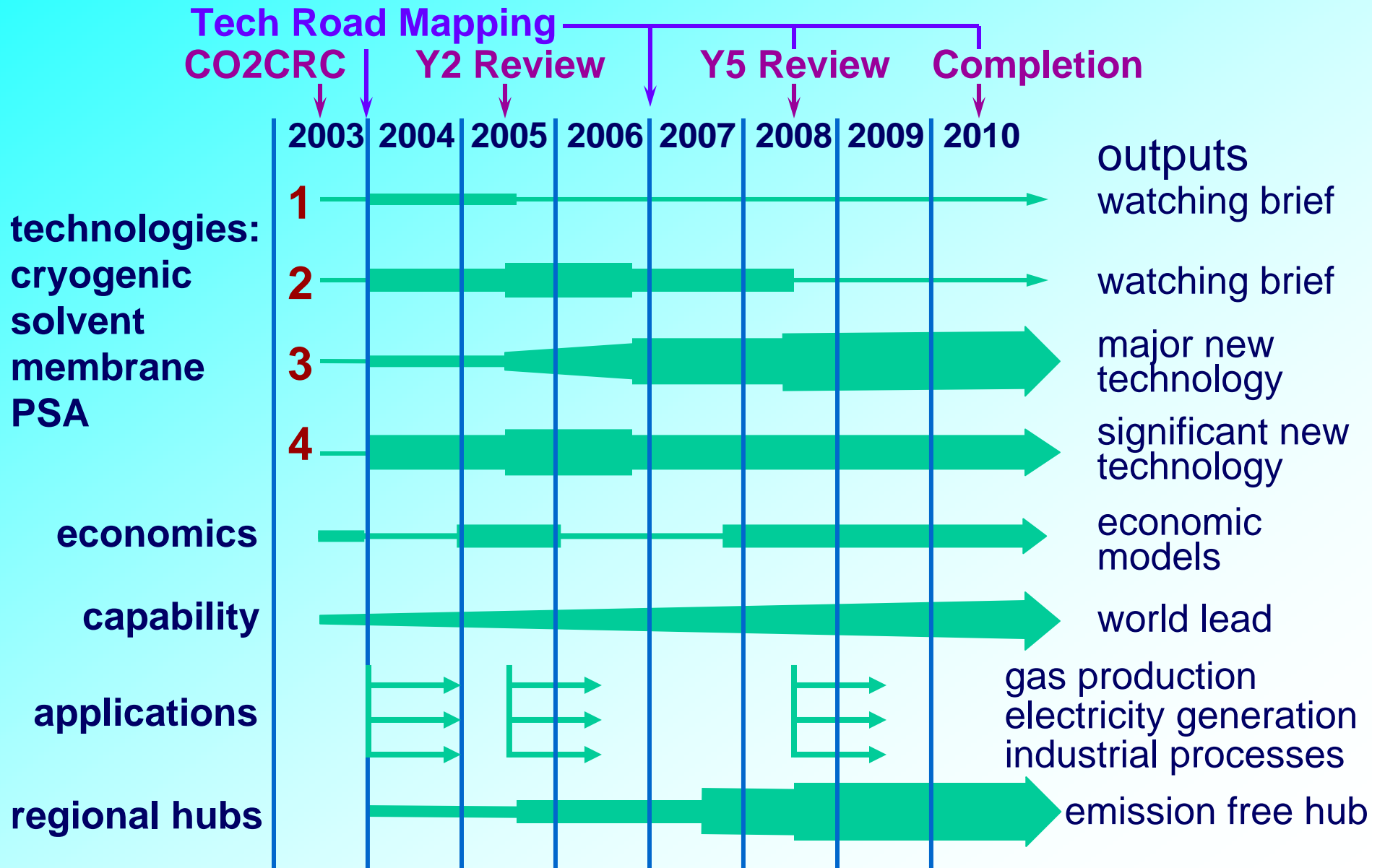
- STORING CO2
- CAPTURING CO2
- USING CO2
- DEMONSTRATION PROJECT
- REGIONAL STRATEGIES
- EDUCATION AND TRAINING

The Australian CCS Technology Roadmap has identified...

- Areas of technology strength
- Areas of technology weakness
- R&D that is of critical importance to Australia
- R&D that will be pursued
- R&D where a watching brief will be maintained
- R&D where Australia will seek international collaboration

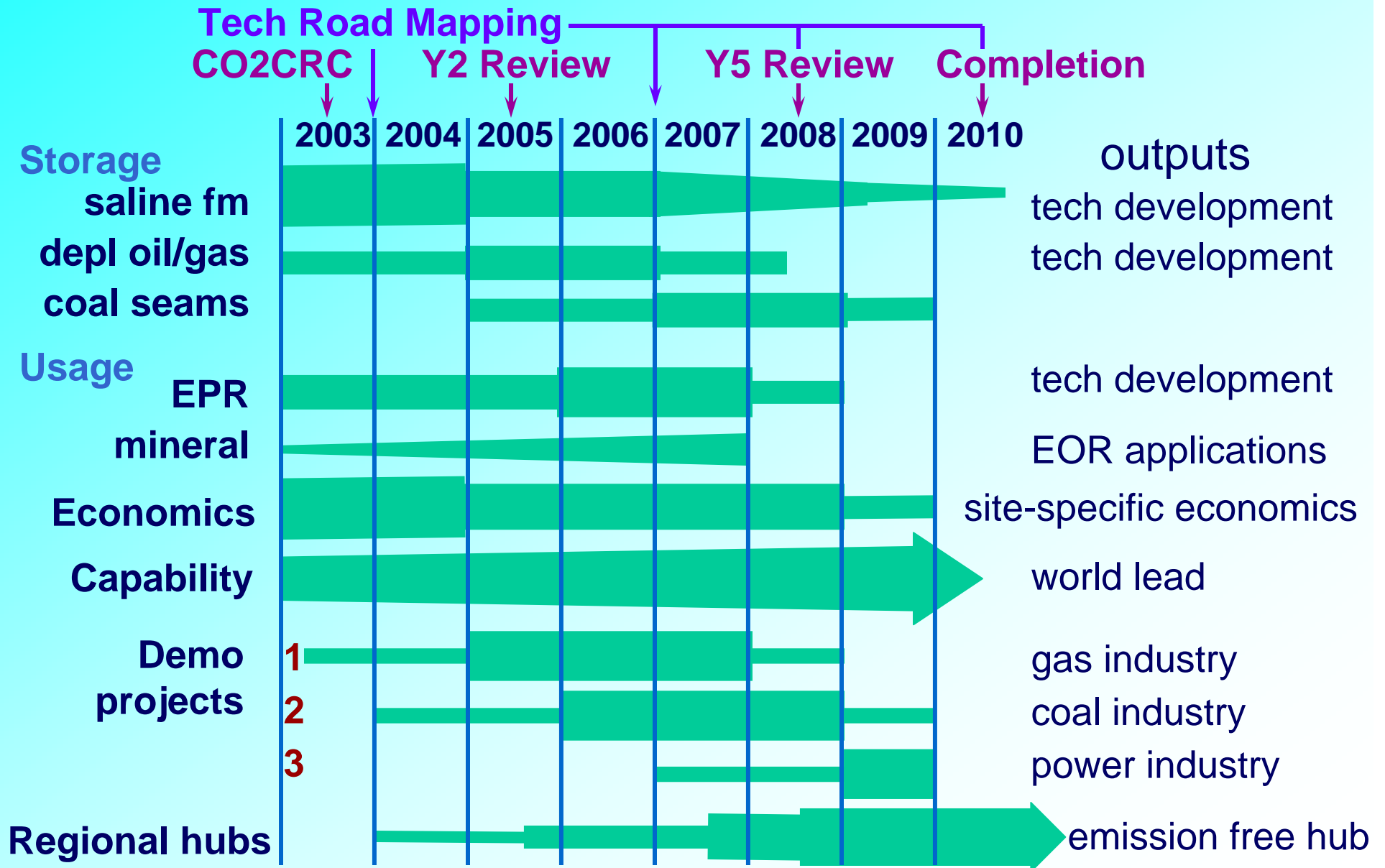


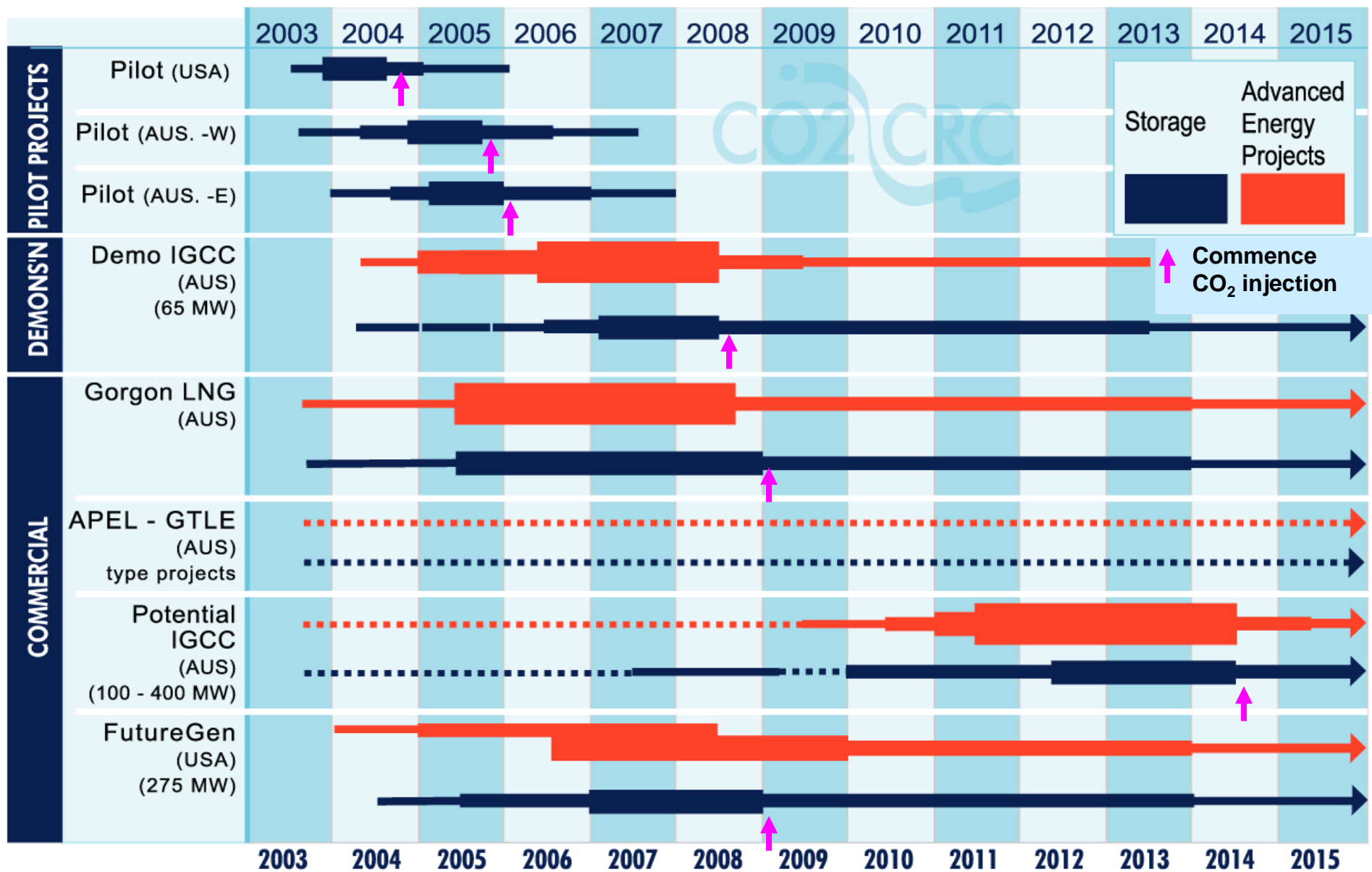
CO₂ Capture 2003-2010





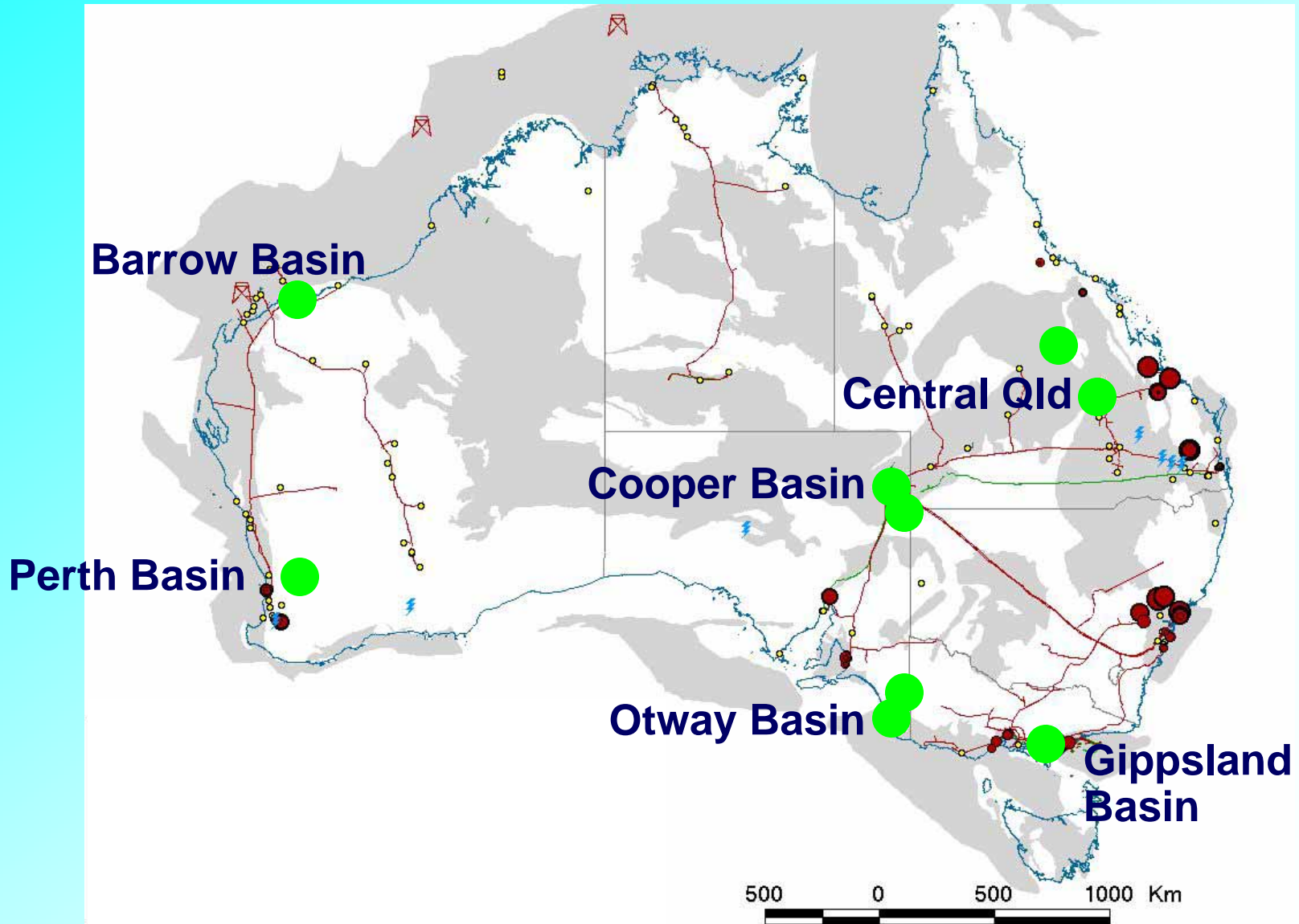
CO₂ Storage 2003-2010

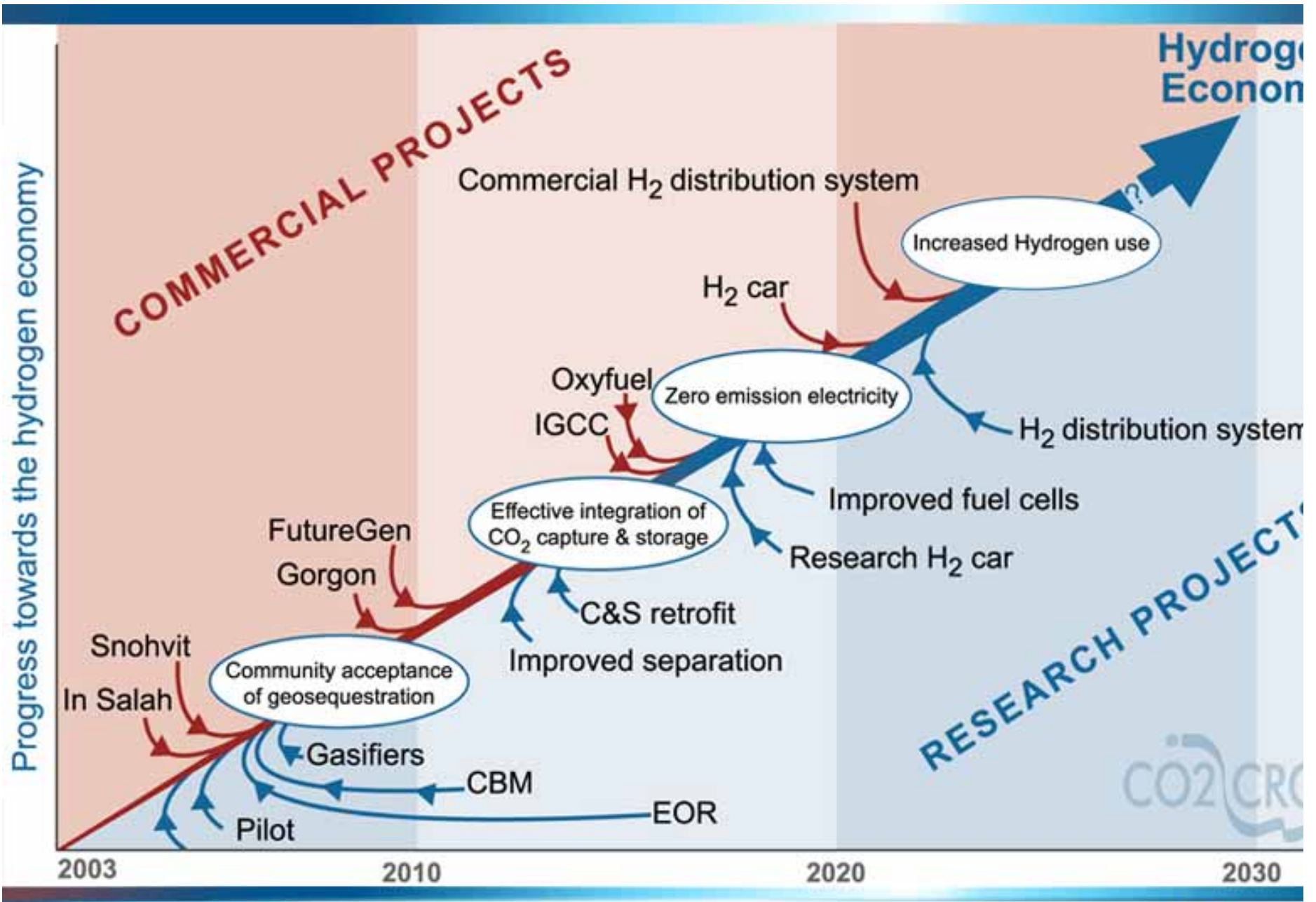




Technology roadmap (Level 2) showing pilot (5-10,000 tonnes), demonstration (50-100,000

Possible Locations for Demonstration Projects





Level 3 technology roadmap for CCS showing likely progress towards the hydrogen economy