

CSLF -

CCS Technology Gaps Opportunities and Research Fronts



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Geosciences Australia

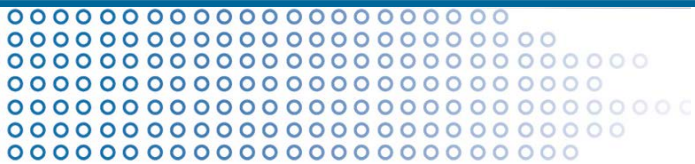
On behalf of Richard Aldous CEO Cooperative Research Centre
for Greenhouse Gas Technologies (CO2CRC)

CSLF - Closing the Technology Gaps

Mandate

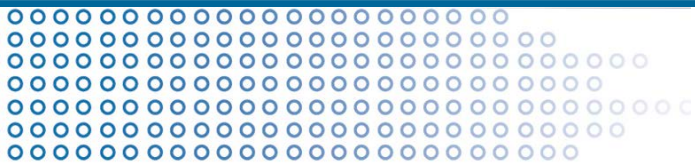
CSLF Action plan 2011 -2016

- 1. The TF will identify and monitor key CCS technology gaps and related issues**
- 2. Determine the effectiveness of ongoing CCS R&D and demonstration for addressing these gaps**
- 3. Recommend any R&D and demonstration activities that address these gaps and issues**



Objectives

- **Assess technology:**
 - Gaps opportunities and research fronts
 - Going forward– what will make a difference?
 - Closing the gaps– what needs to be done?
- **Feed into the Technical roadmap**



Approach to producing document

Taskforce

- **Australia (Lead)**
- **Korea**
- **USA**
- **Norway**
- Each provide 1 person on storage & 1 on capture

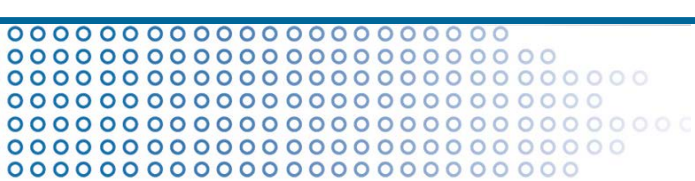
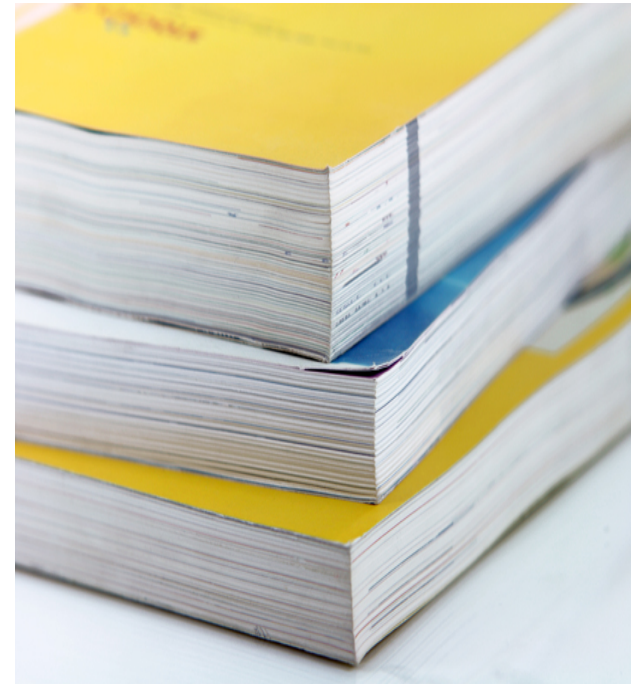
Recommendations

- How to get faster progress
- International collaboration on technology development



Current Status of Report

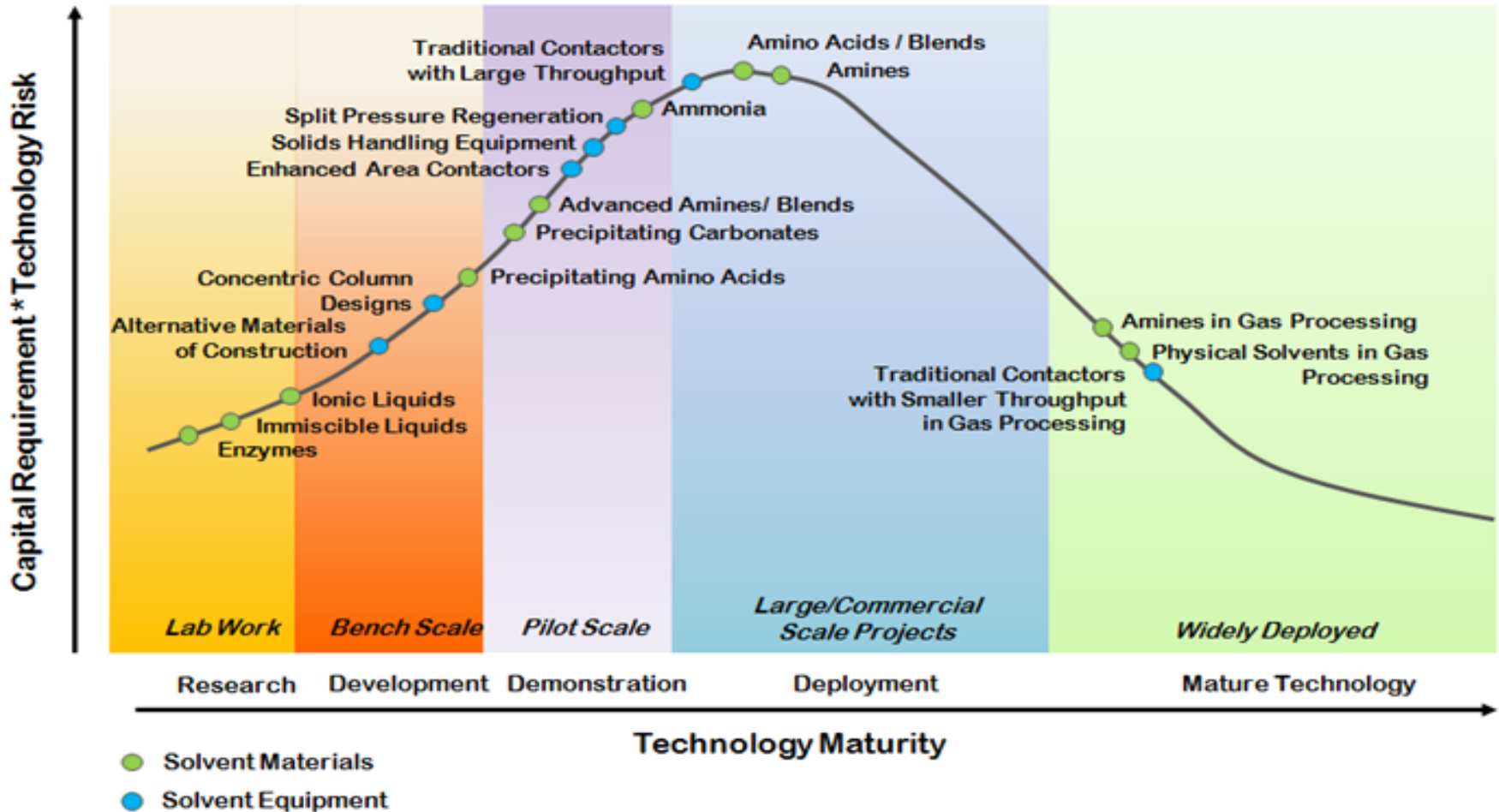
- The three main sections completed to a high level are: Capture, Transport, and Storage.
- Two further sections to be included, and also looking for input, are Biomass and Oxyfiring.
- Report distributed to Task Force members (April, 2013)



We have used a general qualitative approach to the status of technologies

- rather than TRL eg:

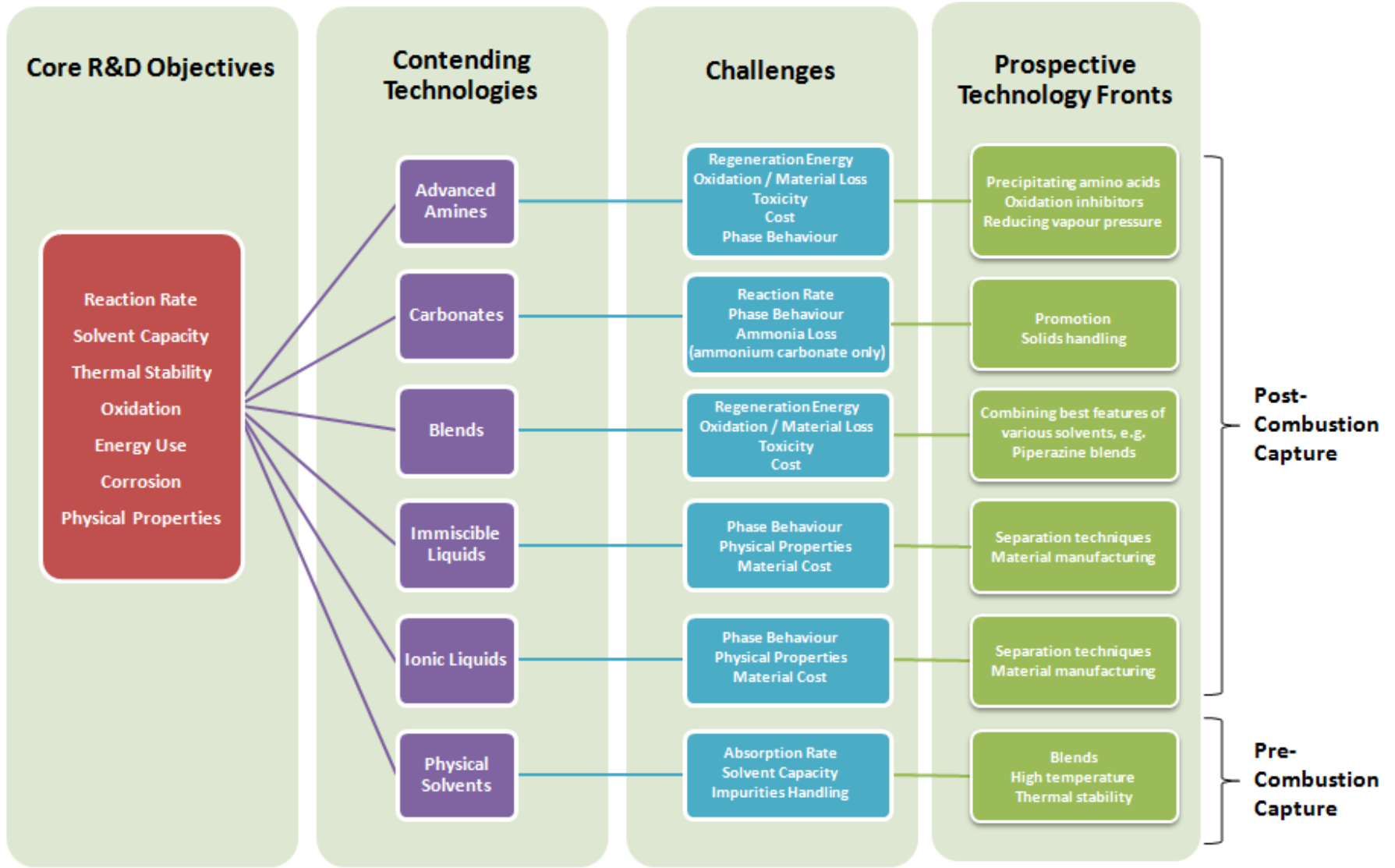
Development Status of Solvent Technologies for CO₂ Capture (at 2013)



CSLF - Closing the Technology Gaps

We have also used diagrams highlighting the Prospective Technology Fronts:

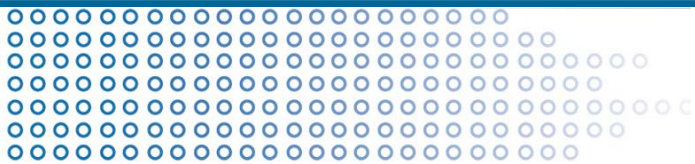
Solvent Absorption - Materials



Report on Task force Meeting

Draft Report circulated

- Comments to be forwarded to Chair and TF members



Next Steps

Approximate Timeline:

- **Collection, collation and analysis of data April / May 2013**
- This phase to include the following activities:
 - Feed back from participants
 - Phone hook ups and integration of data
 - Prepare status and assessment
 - Recommendations for implementation

Prepare draft report

- **Circulation to CSLF Technical committee**
- **Approval Process. July 2013**
- This phase will include the following activities:
 - Hearing round with critique, comments and validation by CSLF TF members
 - Revision
 - Presentation to Ministerial meeting fall 2013

