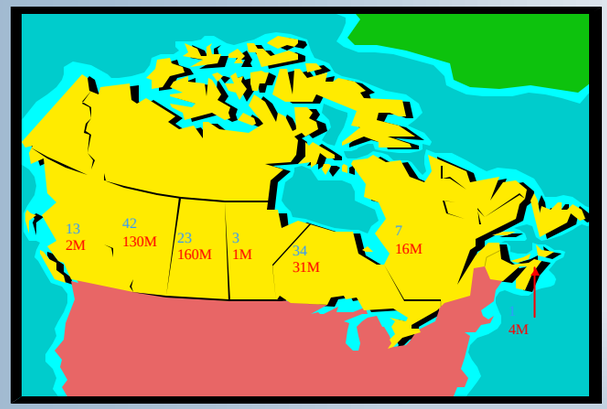
Carbon Dioxide Capture and Storage: A Compendium of Canada's Participation

Graham Campbell, Dubravka Bulut, Kelly Kishiuchi
Office of Energy Research and Development, Natural Resources Canada

PROJECT'S GOALS

- Help CO_2 capture and storage community
  - identify gaps
  - set priorities
  - promote cooperation
- Raise national and international awareness about Canada's participation

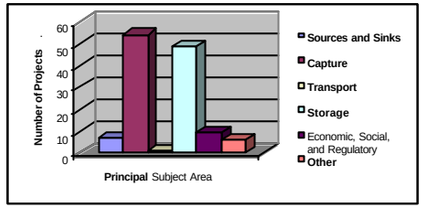
LOCATION OF CCS PROJECTS IN CANADA



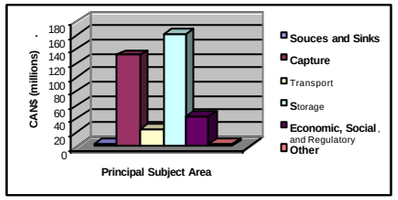
- blue figures denote number of projects
- red figures denote total costs of projects

STATISTICS

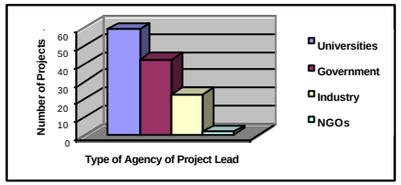
Distribution of Projects (126) by Topic



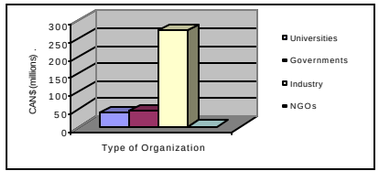
Total Project Costs by Topic Area (estimated)



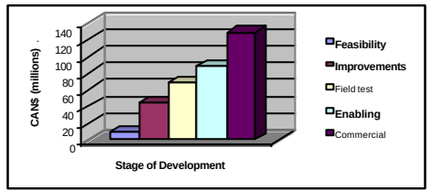
Projects by Type of Lead Performer



Total Costs of Projects by Lead Performer



Stage of Development



Feasibility – assessing potential; measuring basic physical/chemical properties; sharing information
Improvements – improving economic or technical performance; lab-scale pilots; simulation; engineering design
Field test – field trials
Enabling – enabling broad implementation (regulations, validation, safety, outreach)
Commercial – commercial operations

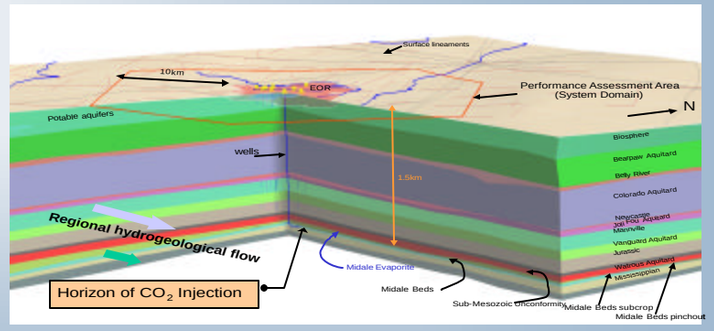
CONCLUSIONS

- large effort in Canada: 83 organizations, 126 projects and $340M
- 50% more investments in CCS storage projects than CCS capture projects
- capture projects focus on earlier development stage compared to storage projects
- long-term regulatory policy, capacity building and public awareness are also key

NEXT STEPS

- further coordinate strategies, programs and funding to maximize collaboration of all players
- develop shared vision and purpose

IEA GHG WEYBURN-MIDALE CO_2 MONITORING AND STORAGE PROJECT



Natural Resources Canada | Ressources naturelles Canada

Canada