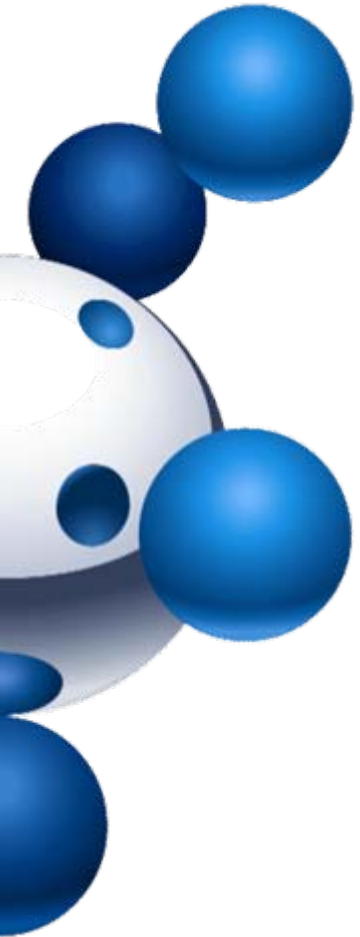
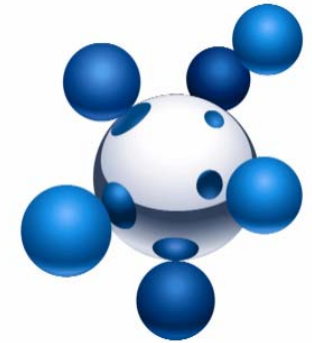


**SASOL**  
*reaching new frontiers*



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## ***Industry perspectives on CCS***

NEET workshop February 2007  
Jaco Liebenberg and Fred Goede, SASOL



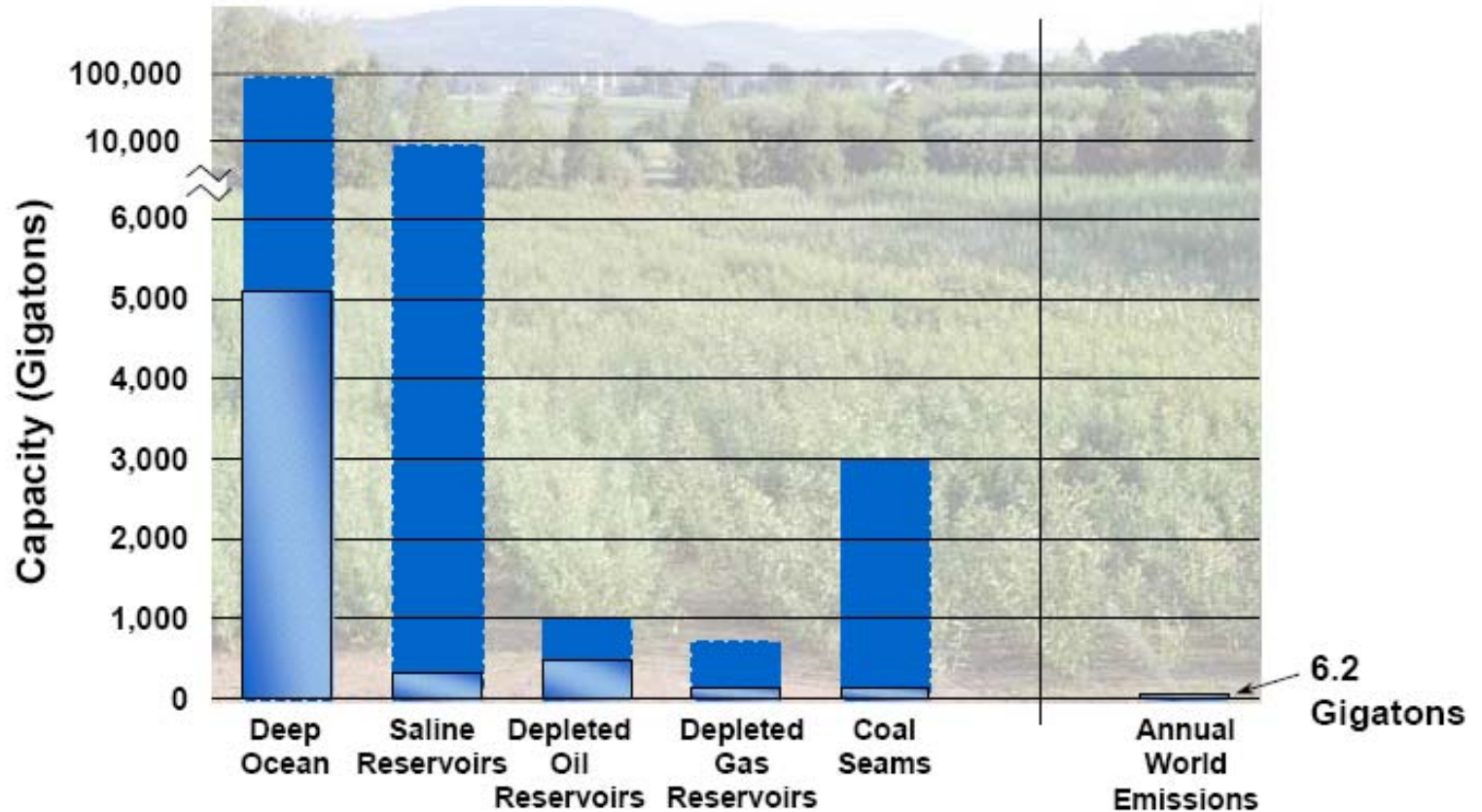
## ***Agenda***

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- Potential for CCS
- “Barriers” to implementation of CCS
- Conclusions



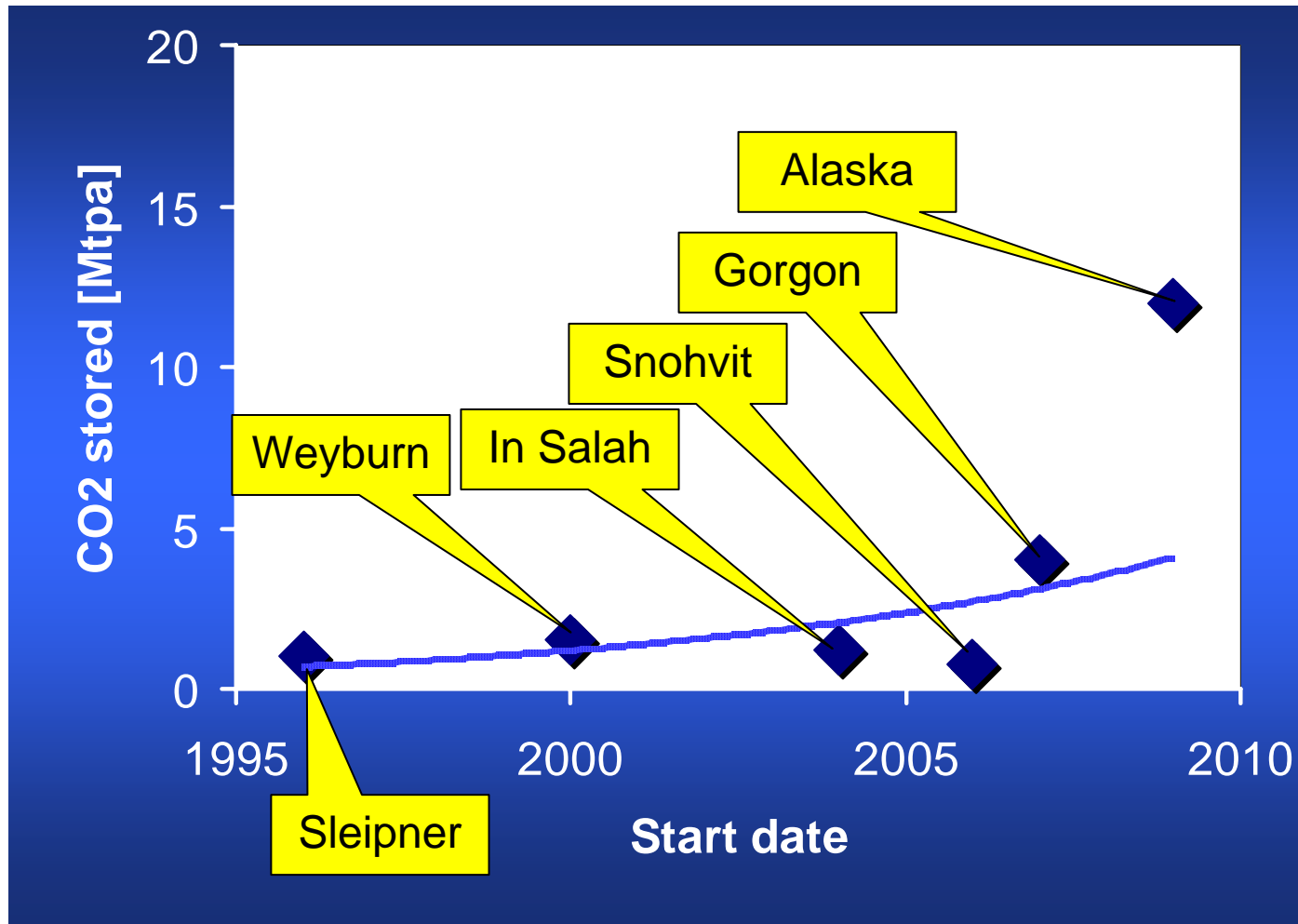
## Large potential storage capacity



*Storage Options: IEA Greenhouse Gas R&D Program;  
Advanced Resources International estimates for coal seams  
World Emissions: International Energy Outlook 2000, Table A10*



## Storage projects are growing slowly





## ***Potential Challenges to Deployment***

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- Technology
  - *Further technology development required especially considering the current scale of developments*
- Financial
  - *Economic and financial infrastructure not yet in place*
- Regulatory
  - *The legal and regulatory foundation incomplete.*
  - *Public may be inadequately informed to ensure acceptance*
- Viable mechanisms for international projects are lacking



## ***Public awareness***

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Research shows:

- public concerns relating to CCS generally exceed acceptance
- increased knowledge is likely to reduce perceptions of risk
- public's main concerns: potential risks (post injection and post closure stage) – not technology

Hence:

- strong legal framework for the whole life-cycle is needed
- involve the public at all stages of regulatory development
- Public's concerns must be adequately addressed through consultation and regulation/legislation



## ***Conclusions - requirements***

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- Collaboration and joint efforts from stakeholders (government, industry, society etc)
- Predictable policy and tax regimes
- International Emission Trading Schemes in place and working
- Long term liability in CO<sub>2</sub> storage adequately addressed
- Building large scale infrastructure for CCS is well established
- CCS is not the answer but an interim solution therefore:
  - *industrial utilisation of greener fossil fuels technologies*
  - *Renewable remains on the map*