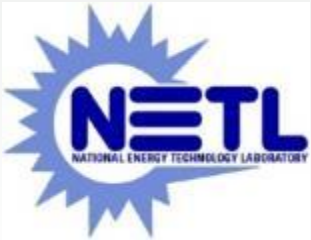


Demonstrating Storage and Assistance for Developing Countries

Dr. Katherine Romanak
Gulf Coast Carbon Center
The University of Texas at Austin

COP 24 – Katowice Poland



Gulf Coast Carbon Center

The University of Texas at Austin

- 20 years experience in geological storage
- Develop and implement monitoring programs for geological CO₂ storage sites
 - ✓ Site selection and permitting
 - ✓ Regulatory compliance
 - ✓ Conformance monitoring
 - ✓ Environmental monitoring
- Monitored >9 demonstration CO₂ storage projects
- Actively monitored over 5 million tonnes of CO₂ in the ground

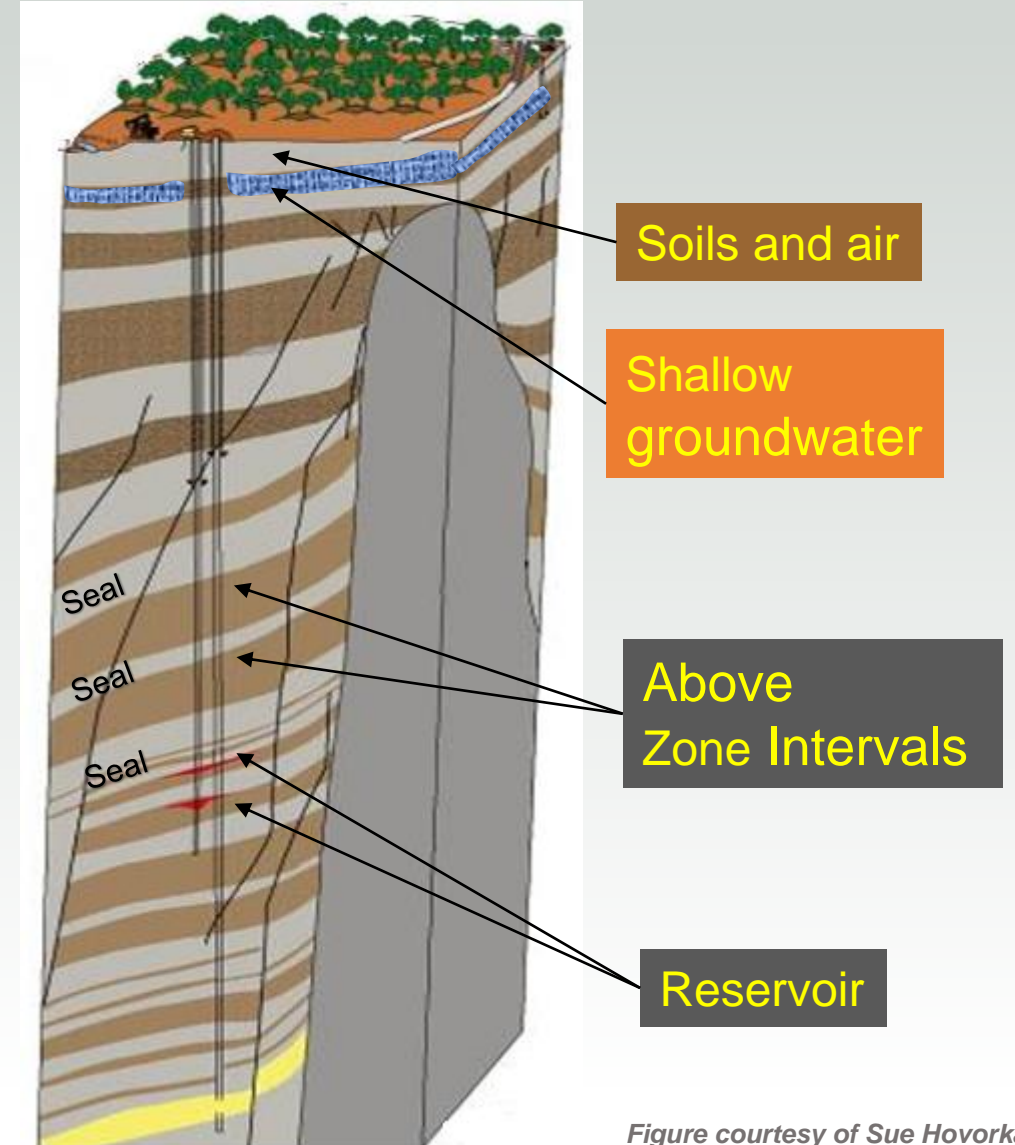
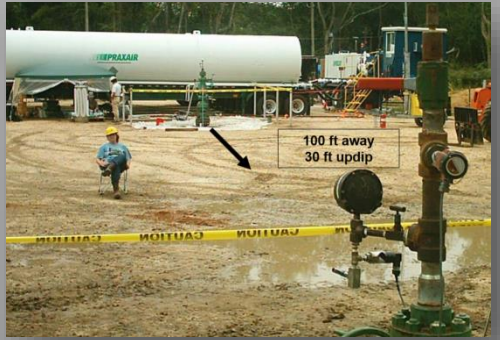


Figure courtesy of Sue Hovorka

Evolution of Experience

Pilots → Demonstrations → Industrial

500 T



Frio Brine Storage Pilot 2004



SECARB Early Test- Cranfield Mississippi

Hastings Project

BUREAU OF ECONOMIC GEOLOGY

NRG Petranova Project

1.6 MMT/year

Scientific Evidence Base on Geological CO₂ Storage

- It works –
 - CO₂ is easily stored and trapped in deep geological formations
- It is safe –
 - Permitting and site selection ensure safety
 - no adverse outcomes have been seen
- It is ready for deployment now

CCS Needs Upscaling

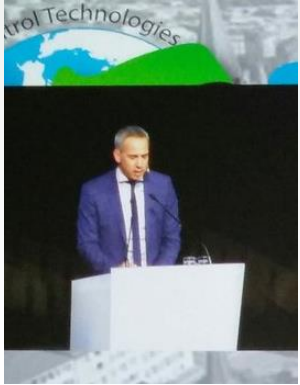
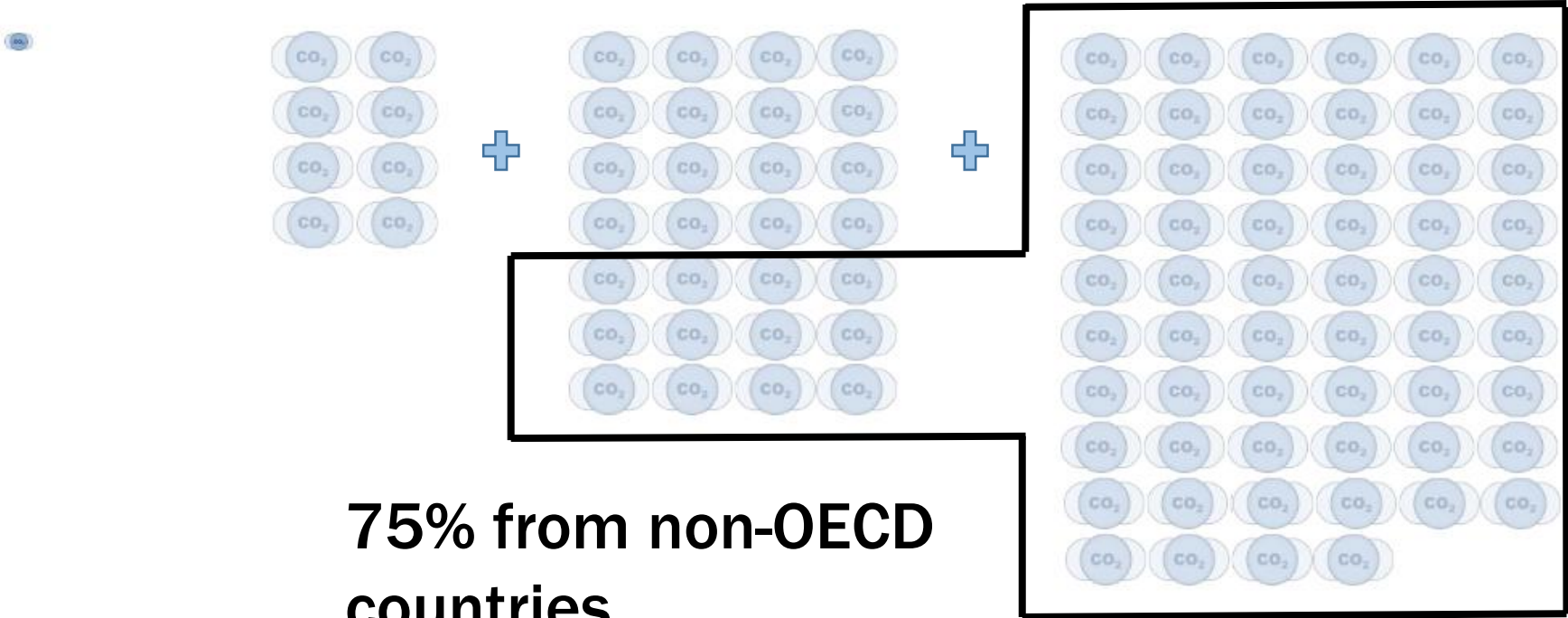
A total of 94Gt captured and stored through 2050 in IEA 2DS

1996-2016:
< 1 Gt
verifiably stored

2017-2030:
8 Gt

2031-2040:
28 Gt

2041-2050:
58 Gt



1 Gt = 1 billion tonnes

Modified from Jean-François Gagné, IEA, 2016 GHGT-13

An Invitation to Countries

- Opportunities are available at all levels for “getting on the path” to CCS.
- Explore your potential for geological storage of CO₂
- Utilize new funding mechanisms to build your capacity in CCS – e.g. CTCN and GCF
- Attend capacity building workshops
- Become involved in the Carbon Sequestration Leadership Forum
 - Ministerial-level international initiative supporting CCS development
- Explore memberships with experienced organizations



http://www.cslforum.org/publications/documents/OffshoreStorageTaskForce_FinalCombinedReport.pdf

Thank you

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