

SESSION 5: CCUS LEGAL AND REGULATORY FRAMEWORKS IN THE REGION: CO₂ OVERSIGHT/MONITORING, MEASUREMENT AND VERIFICATION.

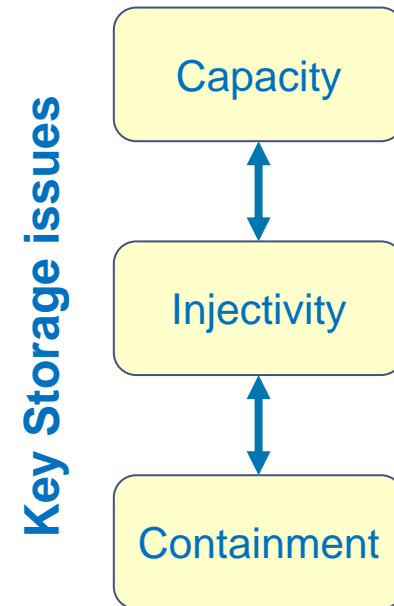


**Expert Group Meeting on “Carbon Capture, Utilization and
Storage in ESCWA Member States.
Masdar Institute – Abu-Dhabi, United Arab Emirates**

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Geological Storage of CO₂

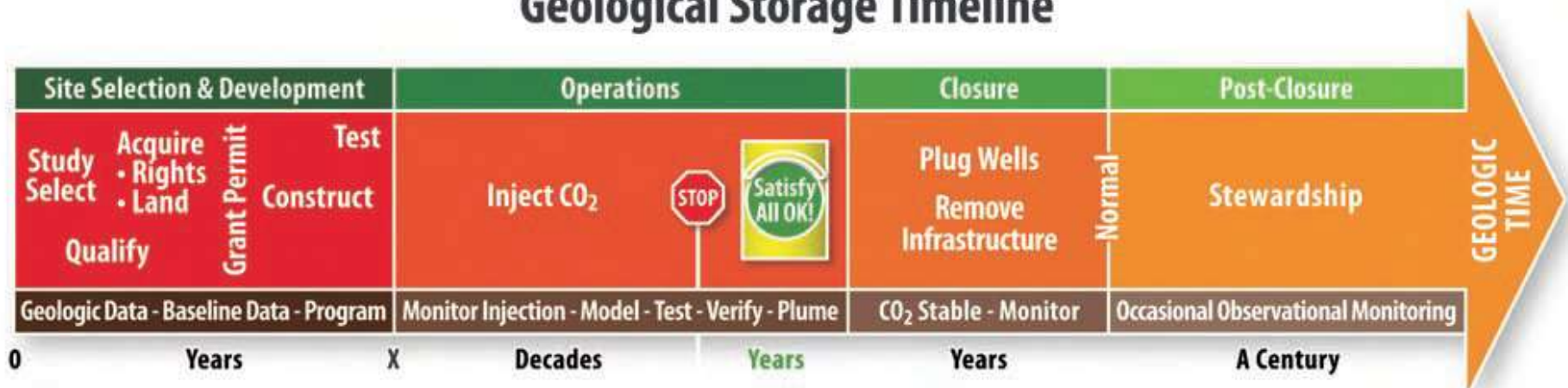
1. The basic concept is to **store captured CO₂ underground** in reservoirs that would otherwise contain water, oil or gas
2. We need to be deep (greater than 800m) to ensure CO₂ is in a dense form – the **super-critical phase**
3. These are also the depths where we are confident that natural gas has been trapped **for millions of years**
4. But the big questions are:
 - Where do we store it?
 - How much CO₂ can we inject?
 - Can we store it safely?
 - Can we store it cost-effectively?



Overall time-line for CO₂ Storage Projects

1. Site Selection
2. Storage Operation
3. Site Closure
4. Post-closure Stewardship

Geological Storage Timeline



There's never been a better
time for **good ideas**

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