

Geological Storage Timeline

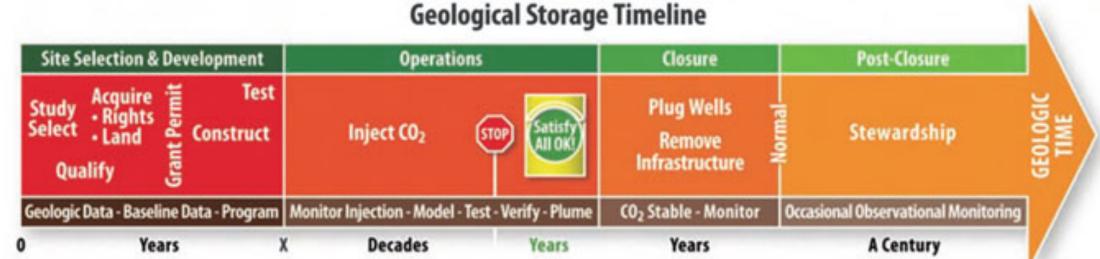


Fig. 2.4 Main phases of a CO₂ storage project (from Cooper et al. 2009; Reproduced with permission, CO₂ capture project, www.CO₂captureproject.org/)

Rock systems are inherently complex define the storage system and the volume around it

- ► The sedimentary basin which contains the proposed storage units;
- The storage complex which defines the storage reservoir(s) and sealing units;
- ► The *storage unit(s)* themselves, referring to specific geological units;
- ► The sealing formations and faults;

- ► Sufficient data shall be accumulated to construct a volumetric and three-dimensional static (3-D)-earth model for the storage site and storage complex, including the caprock, and the surrounding area, including the hydraulically connected areas.
- ► EU defines 'Leakage' as any release of CO2 from the *storage complex*
- ► 'Significant irregularity' means 'any irregularity in the injection or storage operations or in the condition of the storage complex itself, which implies the risk of a leakage or risk to the environment or human health.

 | Significant irregularity' means 'any irregularity irregularity' means 'any irregularity in the injection or storage operations or in the condition of the storage or risk to the environment or human health.