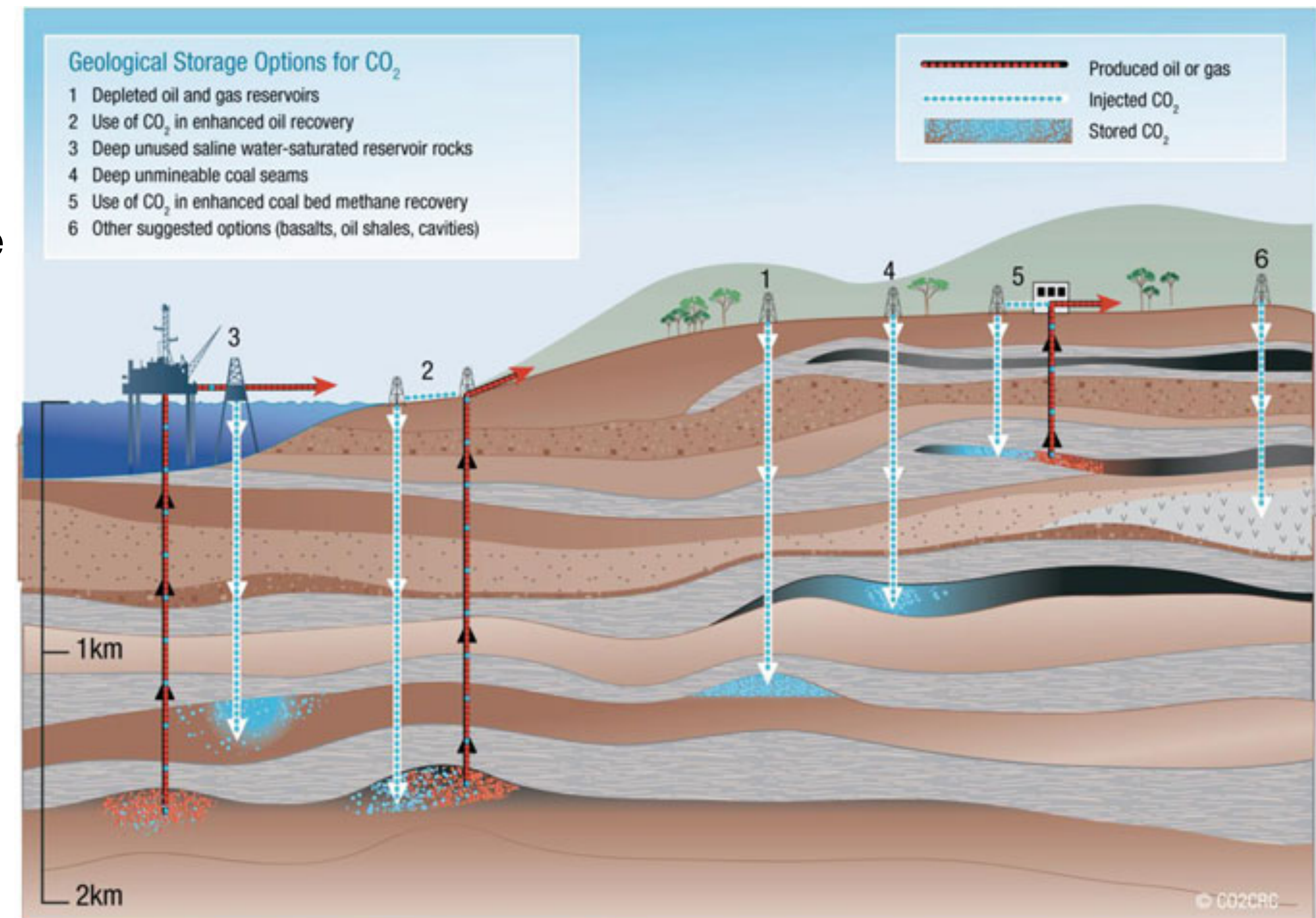


# Overview CCS

1. depleted O&G reservoirs
  - well understood, low pressure, infrastructure in place
2. part of enhanced oil recovery (EOR)
  - part of CCUS, economical
3. saline aquifers
  - largest available volume at sea
4. coal bed
  - not much volume
5. other
  - mineralization of basalt, caverns in salt



**Fig. 1.5** Overview of geological storage options for CO<sub>2</sub> (©CO2CRC, image courtesy of CO2CRC Ltd)

# Application of $\Delta P$ method to global developments

- Projected growth of CO<sub>2</sub> injection wells based on historical hydrocarbon well developments.
- Concept captures industrial maturation phases for global CO<sub>2</sub> storage
- Uncertainty range based on bounds (P10 - P90) from empirical injection rates

## Main finding:

We will need ~12,000 CO<sub>2</sub> injection wells by 2050 to achieve 2DS goal

