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Engineering for CO_2 geological storage

CO_2 Geological Storage

Key Drivers For Deployment

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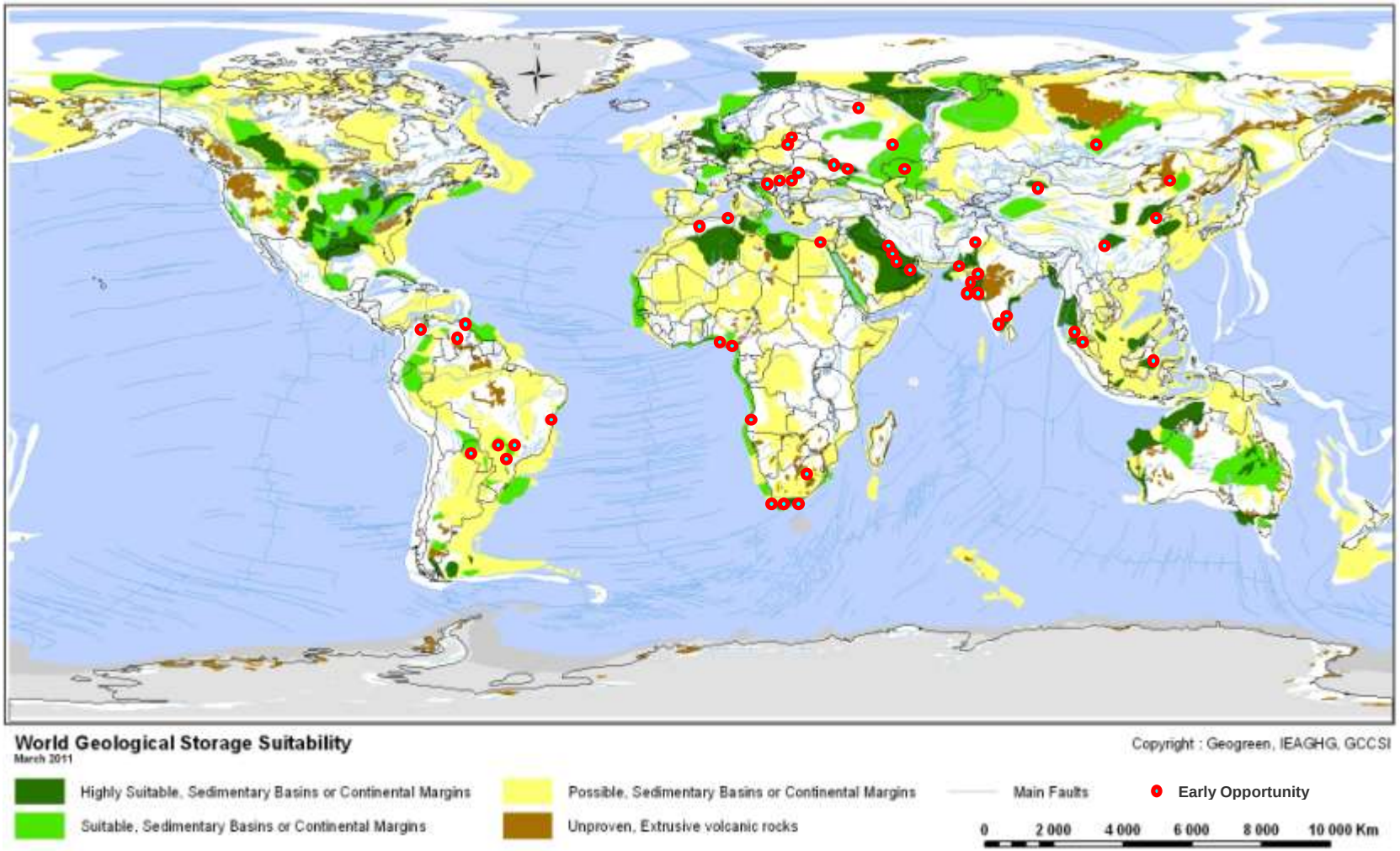
UN-ESCWA-Masdar Institute
Expert Group Meeting on CCUS
November 2013

Storage capacity world wide



IEAGHG-GCCSI, 2011

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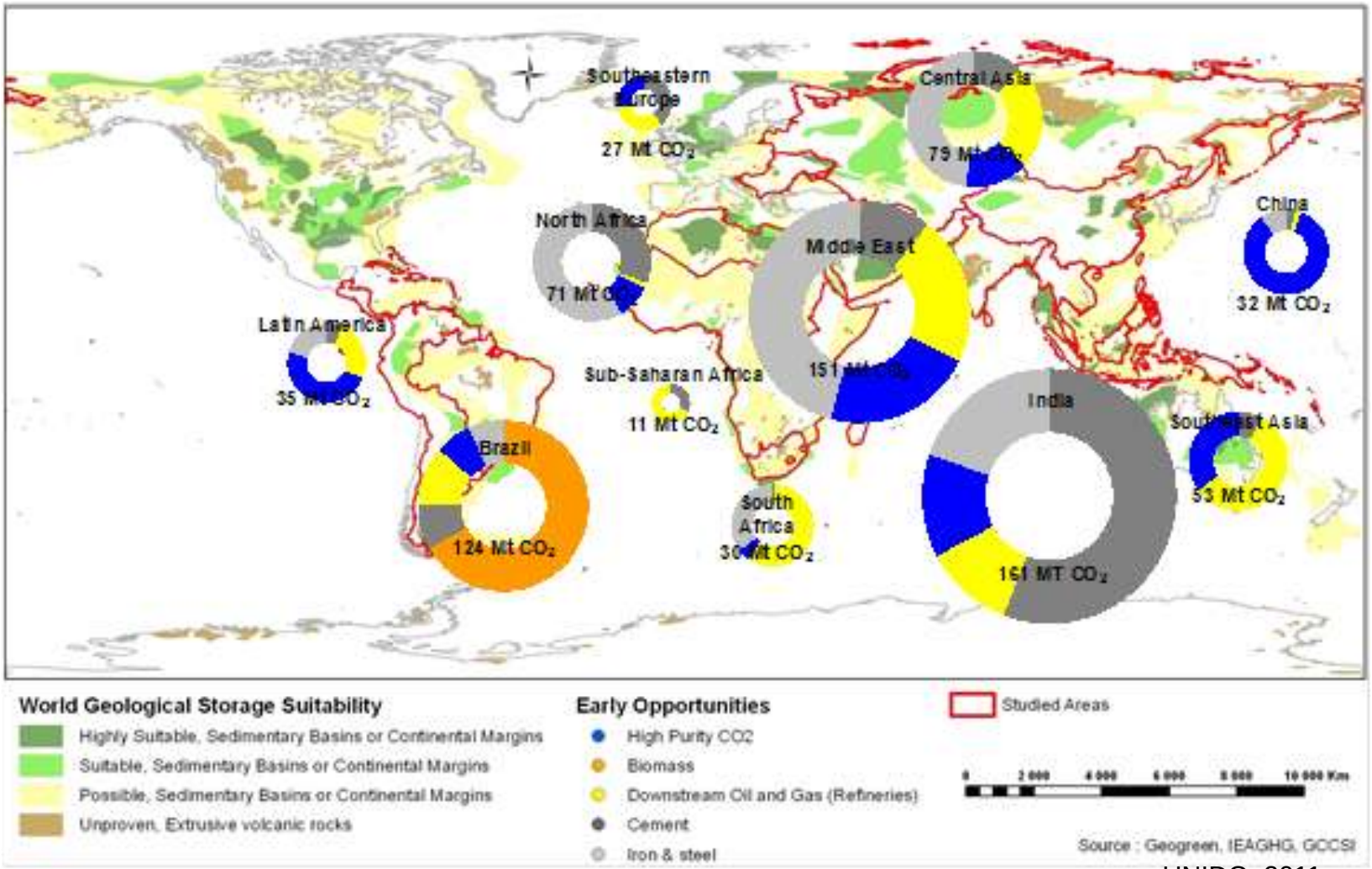
Estimated emissions from early CCS opportunities in 2050 for the industry sectors in the different regions of the study



UNIDO, 2011

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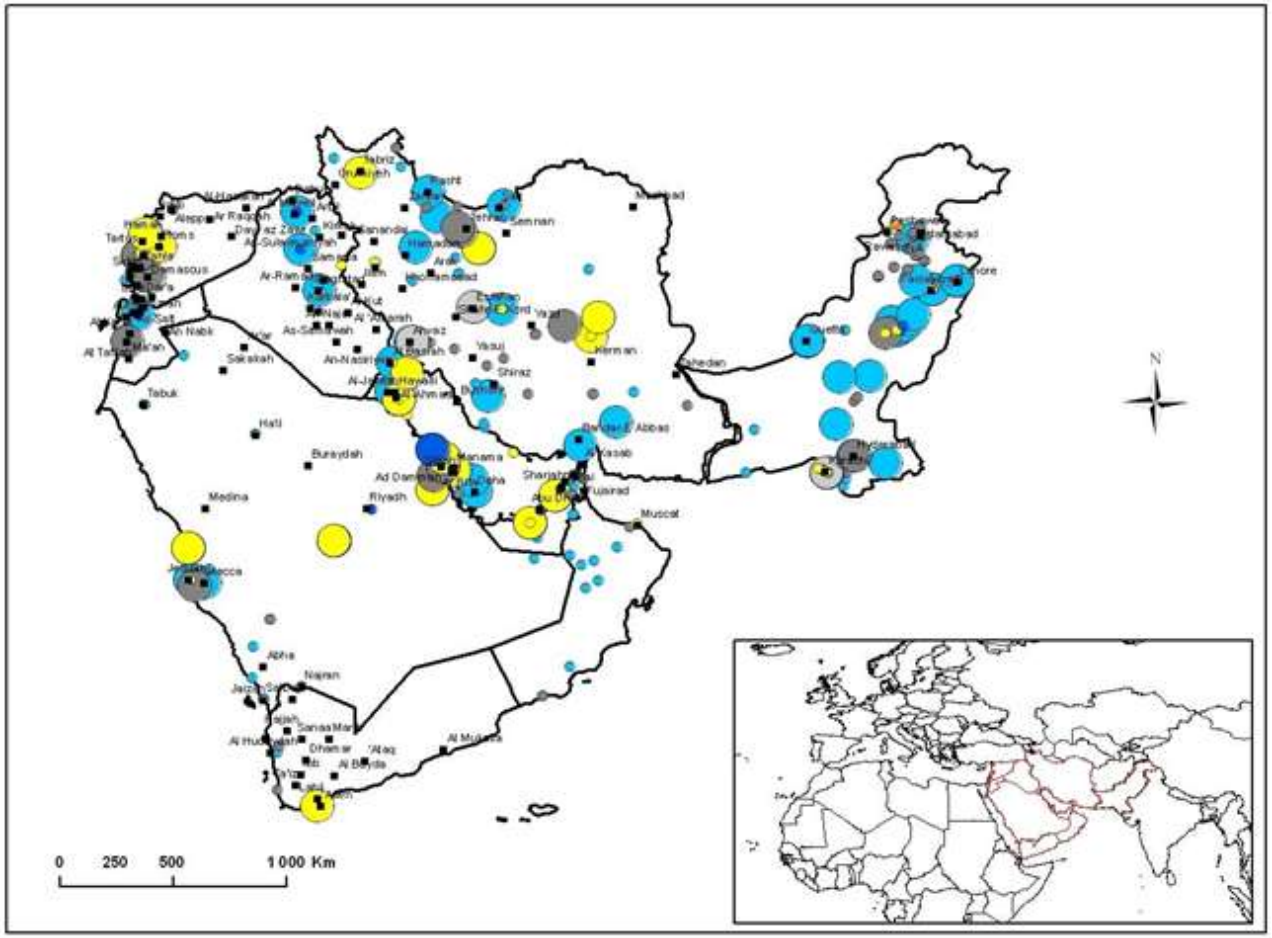
Annual CO_2 emissions in the Middle East



IEAGHG 2009

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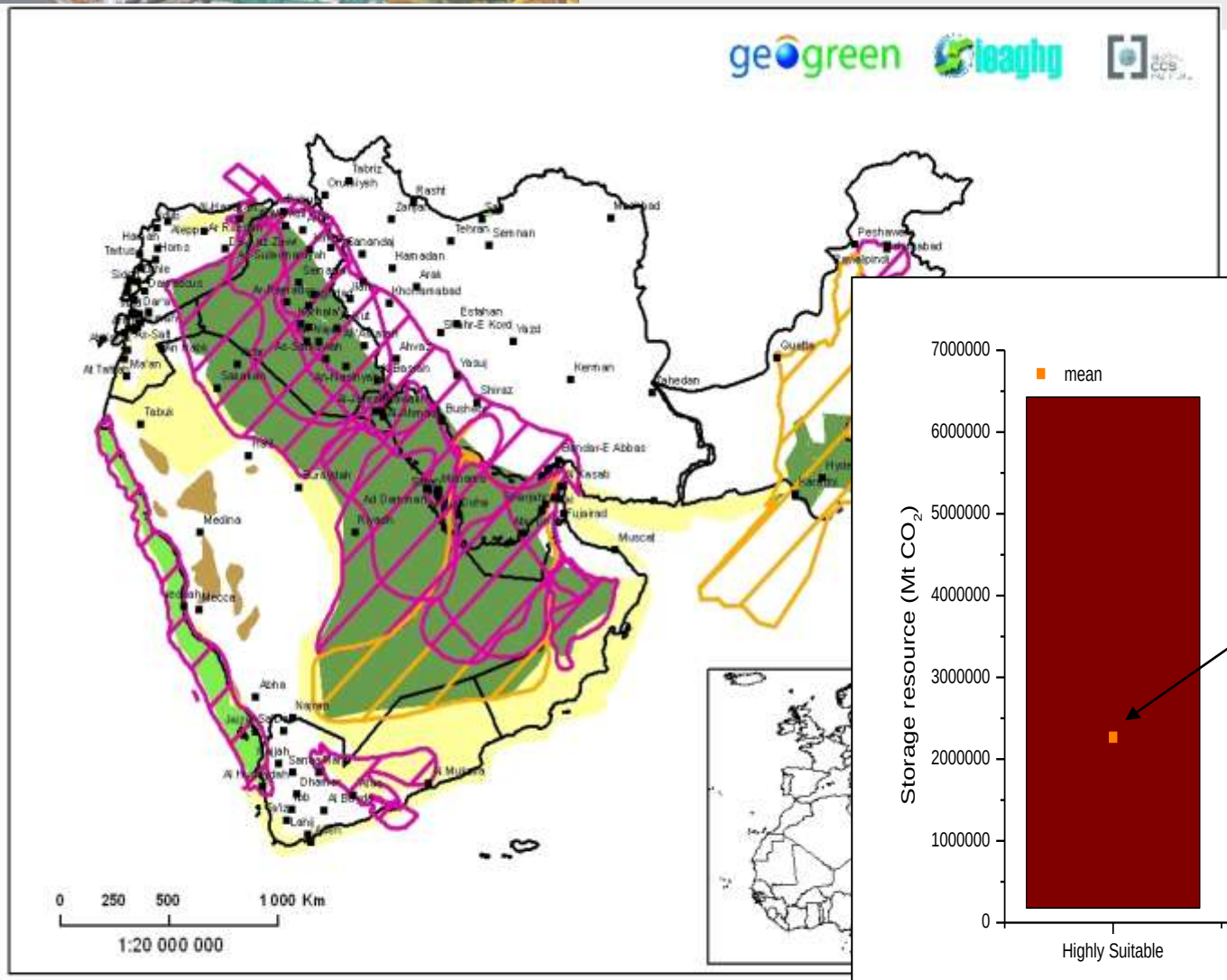
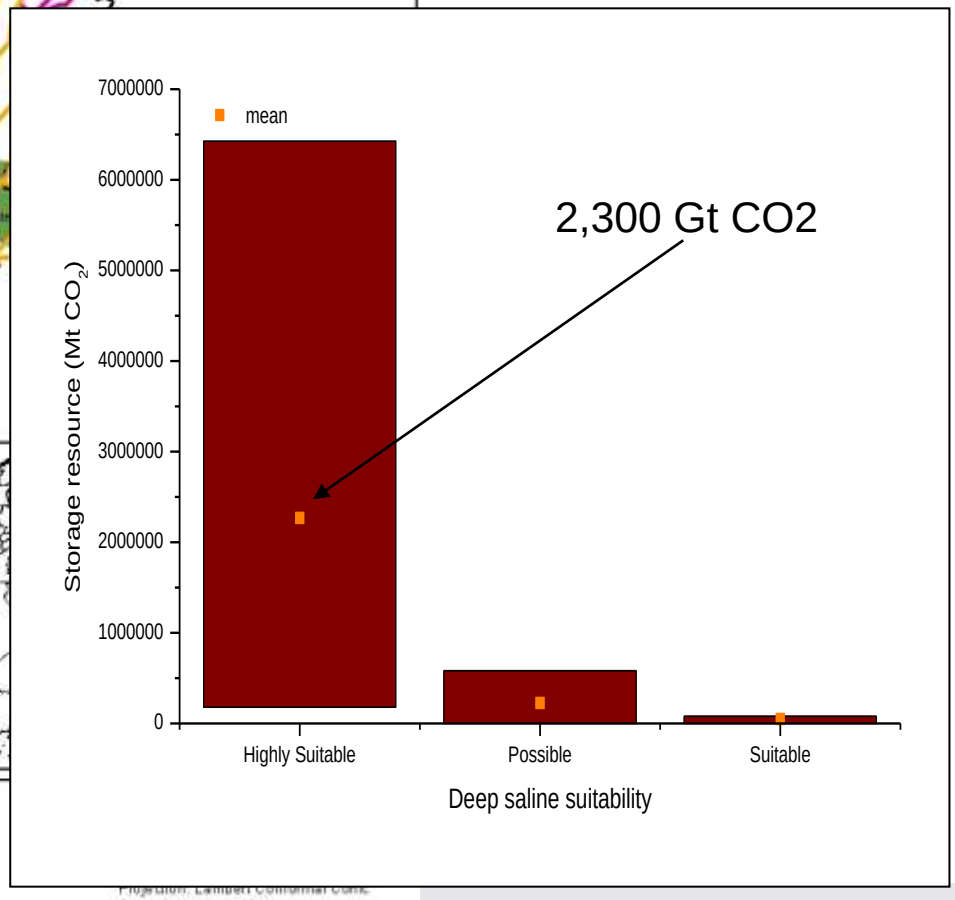
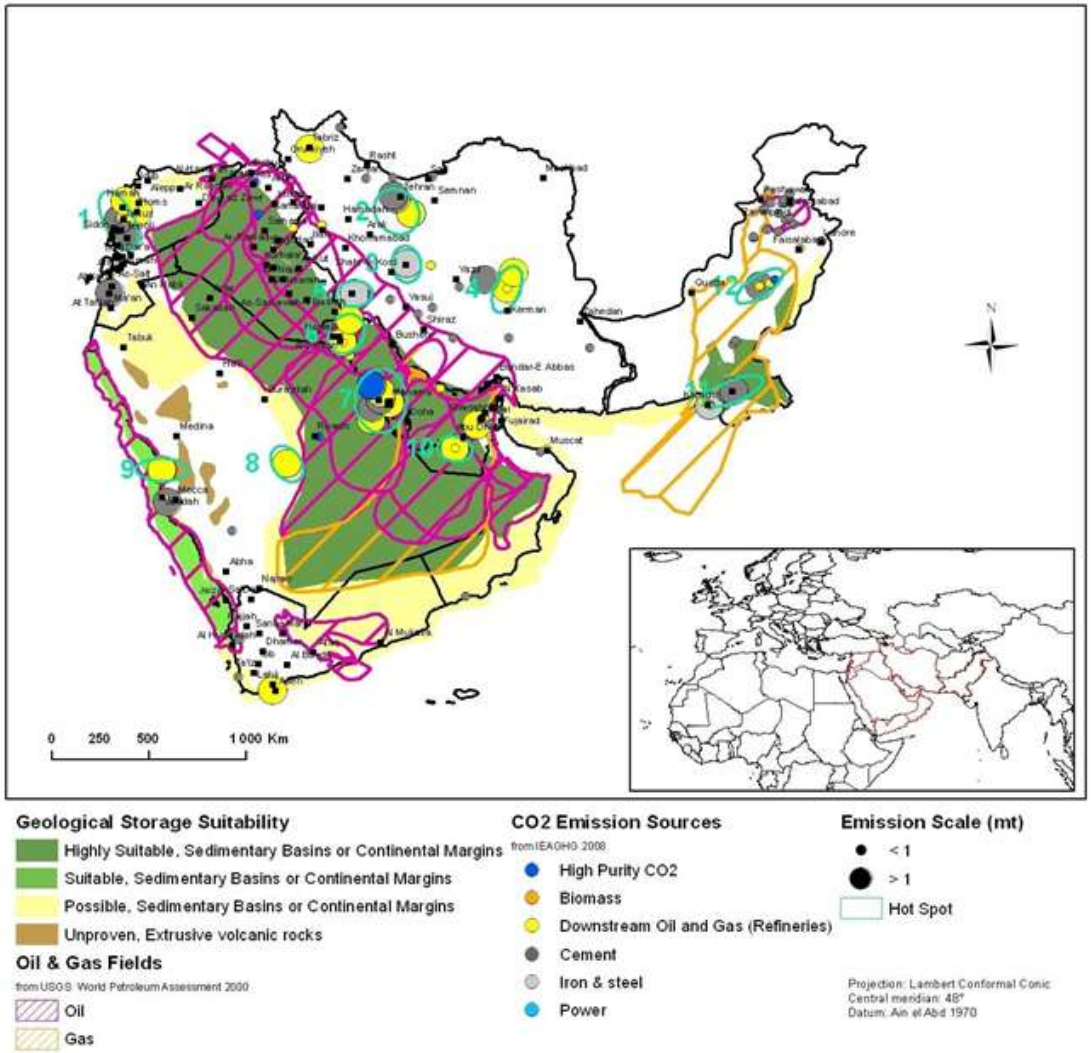
Aquifer storage potential in Middle East



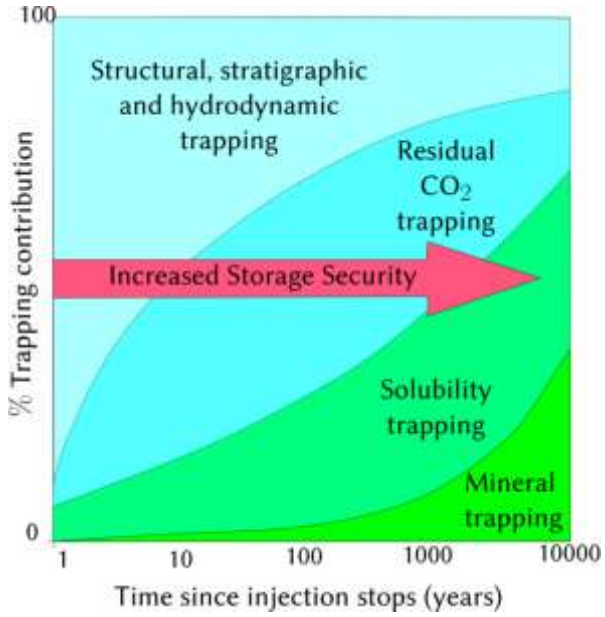


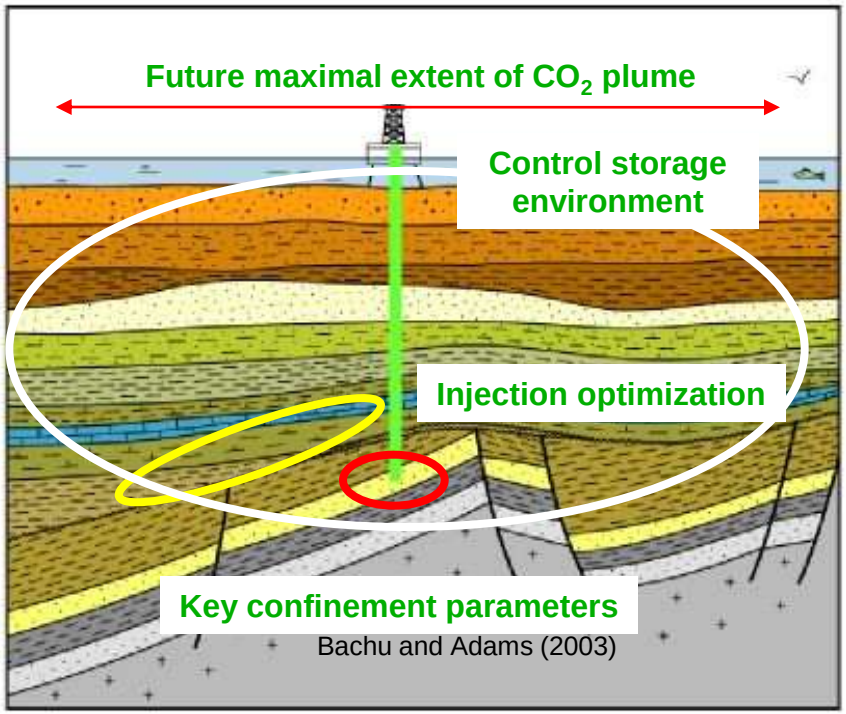
Source-Sink matching for industry « hotspots »



UNIDO report "Global Technology Roadmap for CCS in Industry - Sectorial assessment source and sink matching (2011)

Storage Complex And Storage Safety



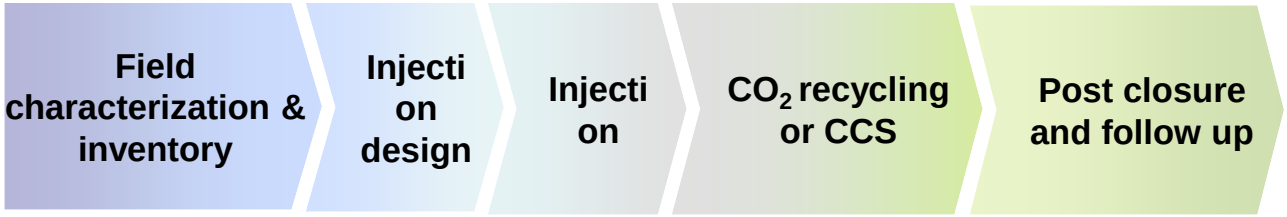


→ storage safety increase with time

→Comprehensive characterization work to build an adequate monitoring and remediation plans

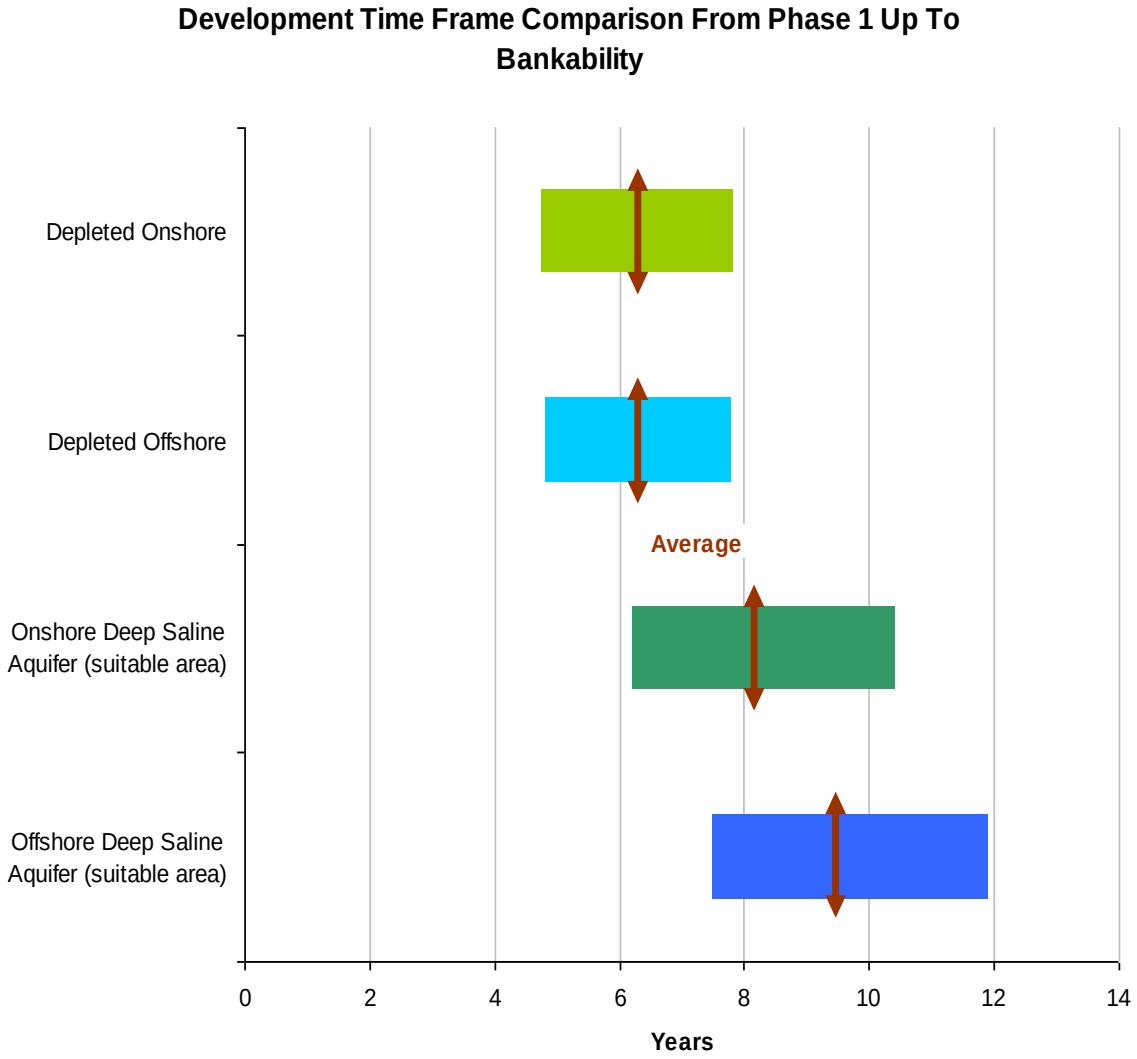
Typical storage project lifecycle

Deep saline formations



CO_2 EOR

Development times for storage projects



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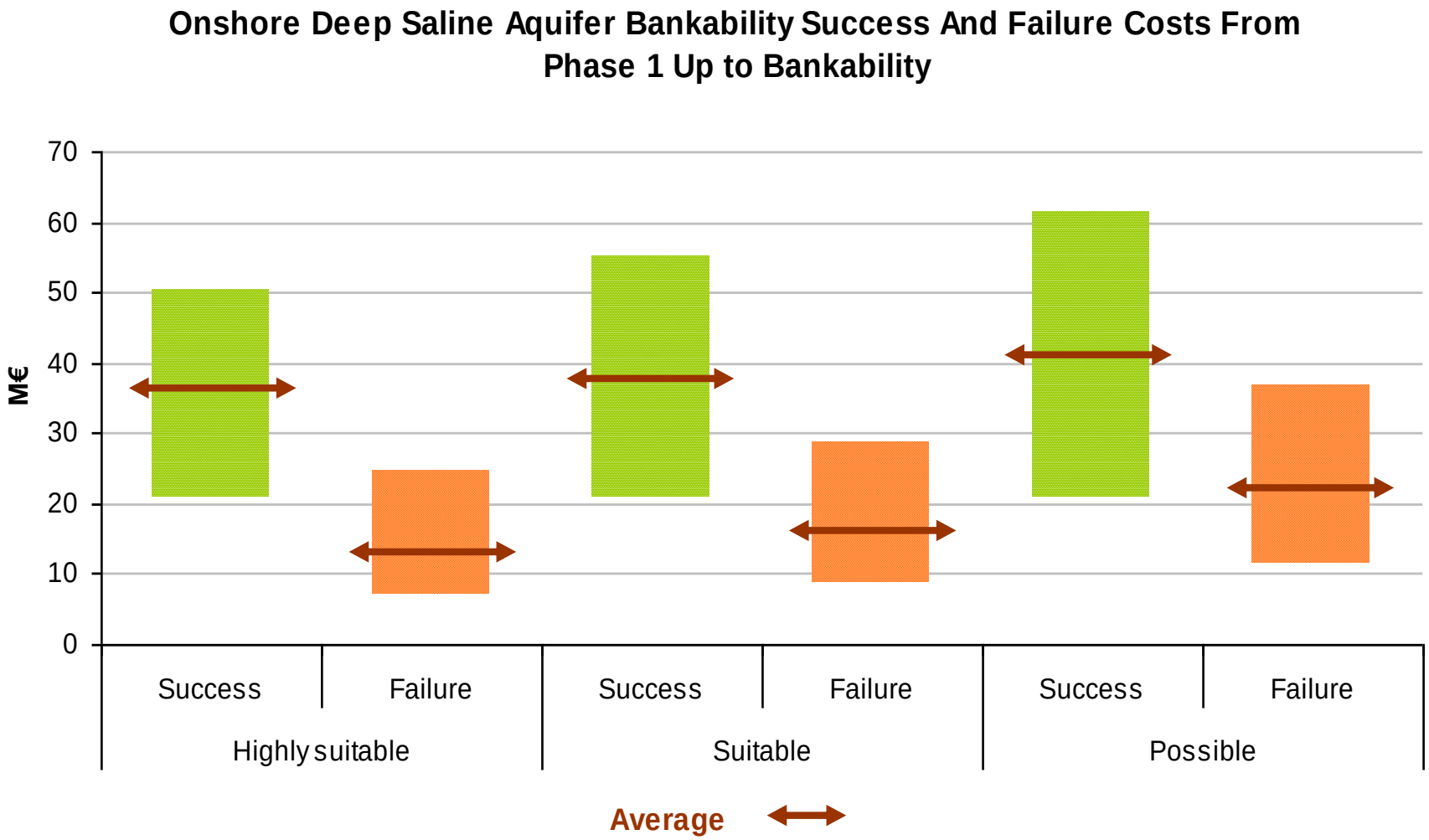
Comparison of success and failure costs according to suitability - onshore deep saline formation project



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