



TÉCNICO
LISBOA



CERENA

Centro de Recursos
Naturais e Ambiente

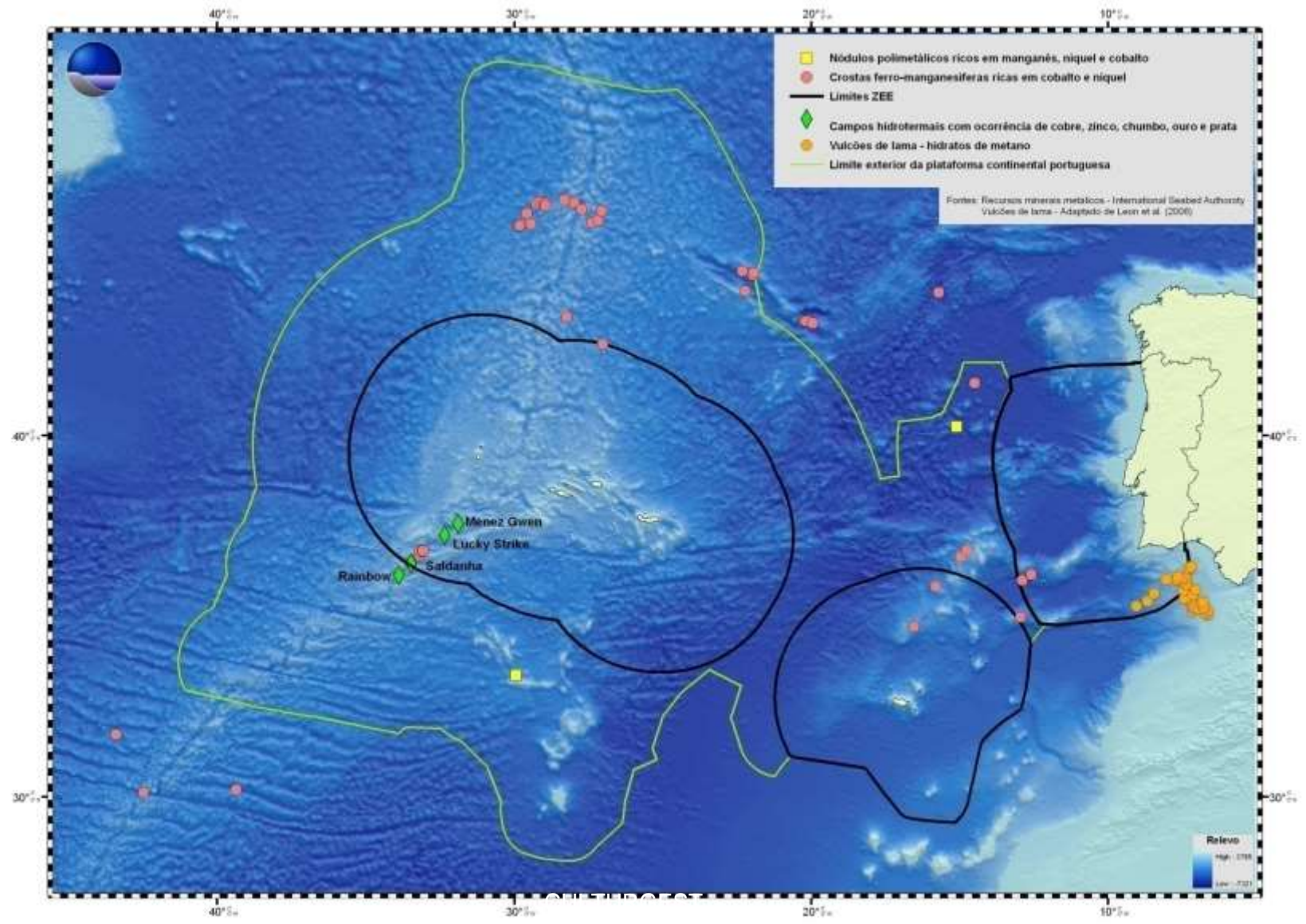


Exploration and Characterization of Oil and Gas Reservoirs in Deep Sea Off Shore

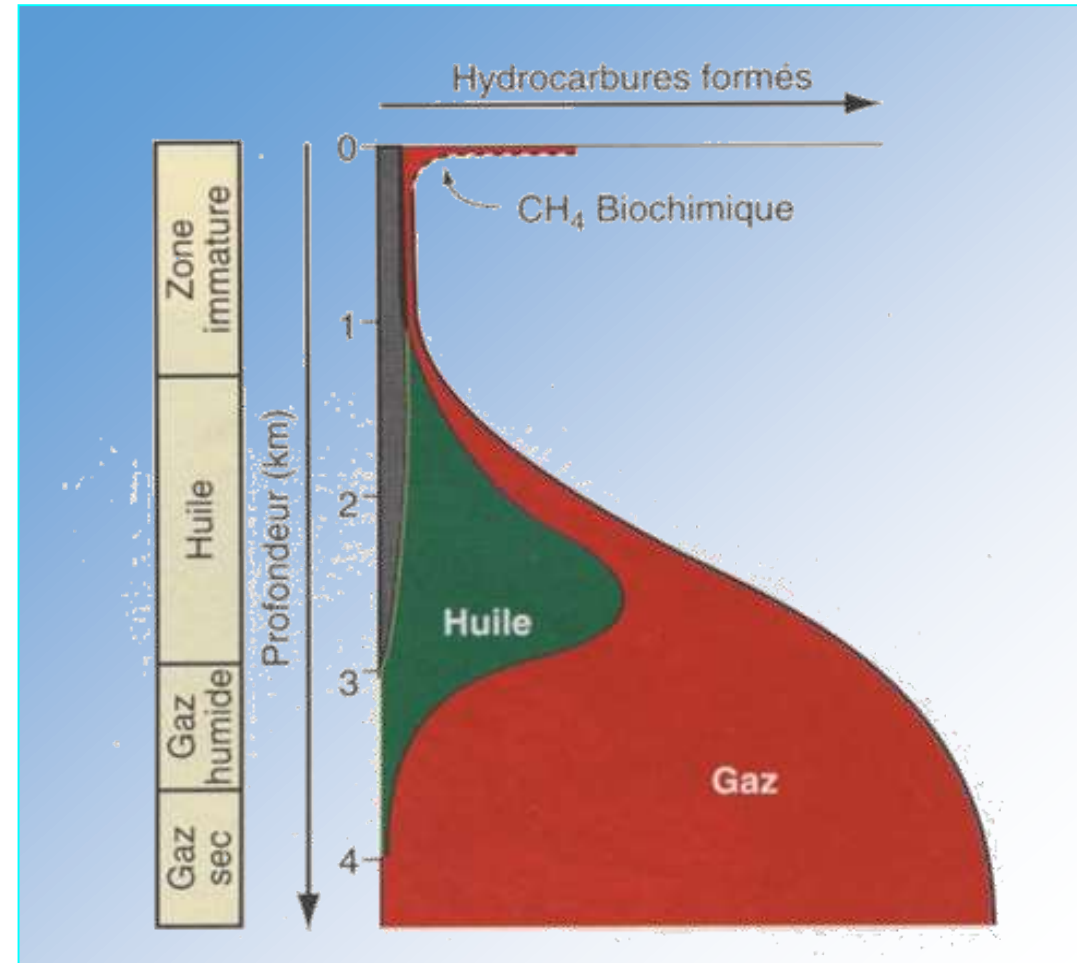
Amilcar Soares

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..motivation

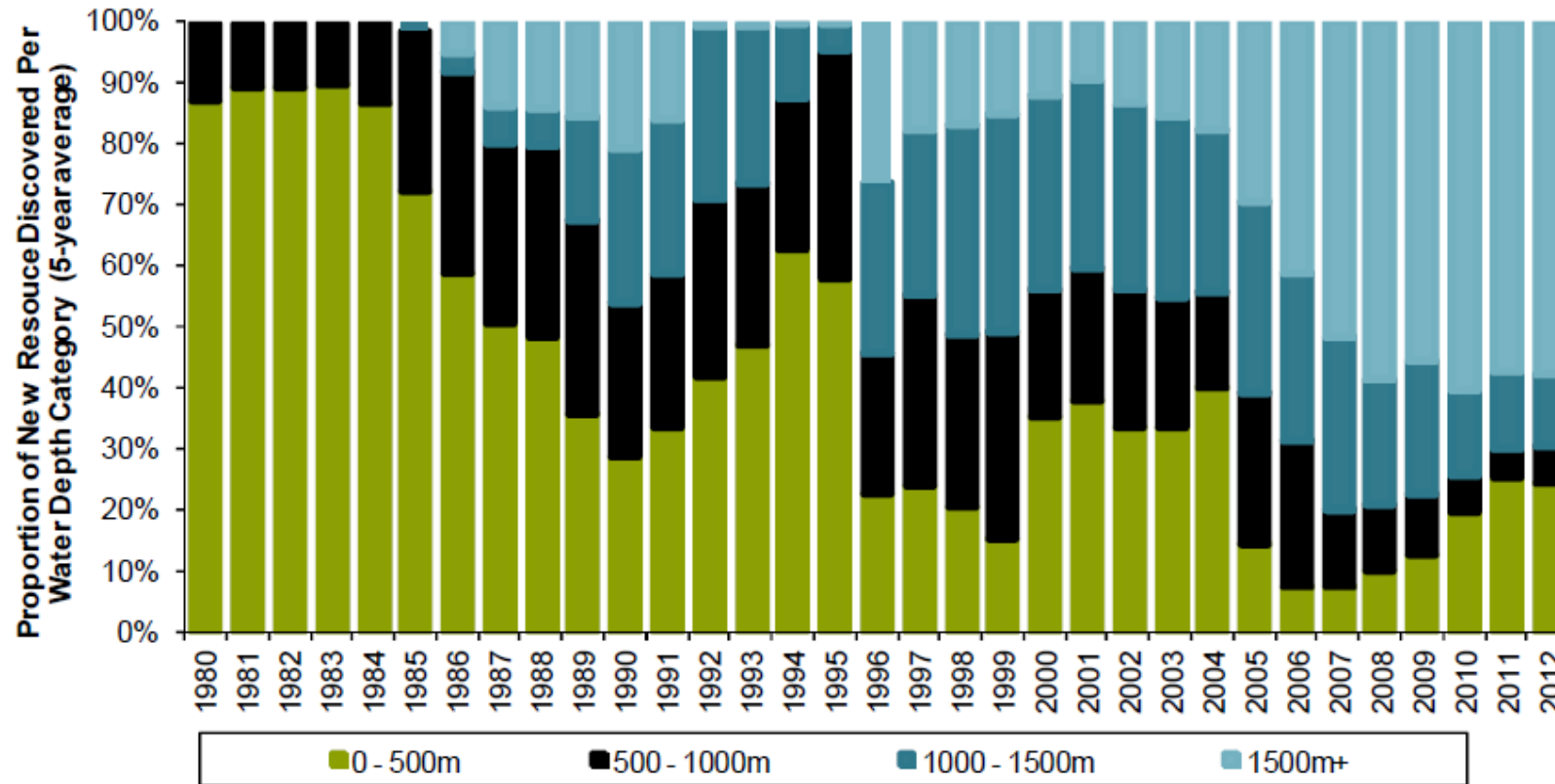


Deep offshore discoveries



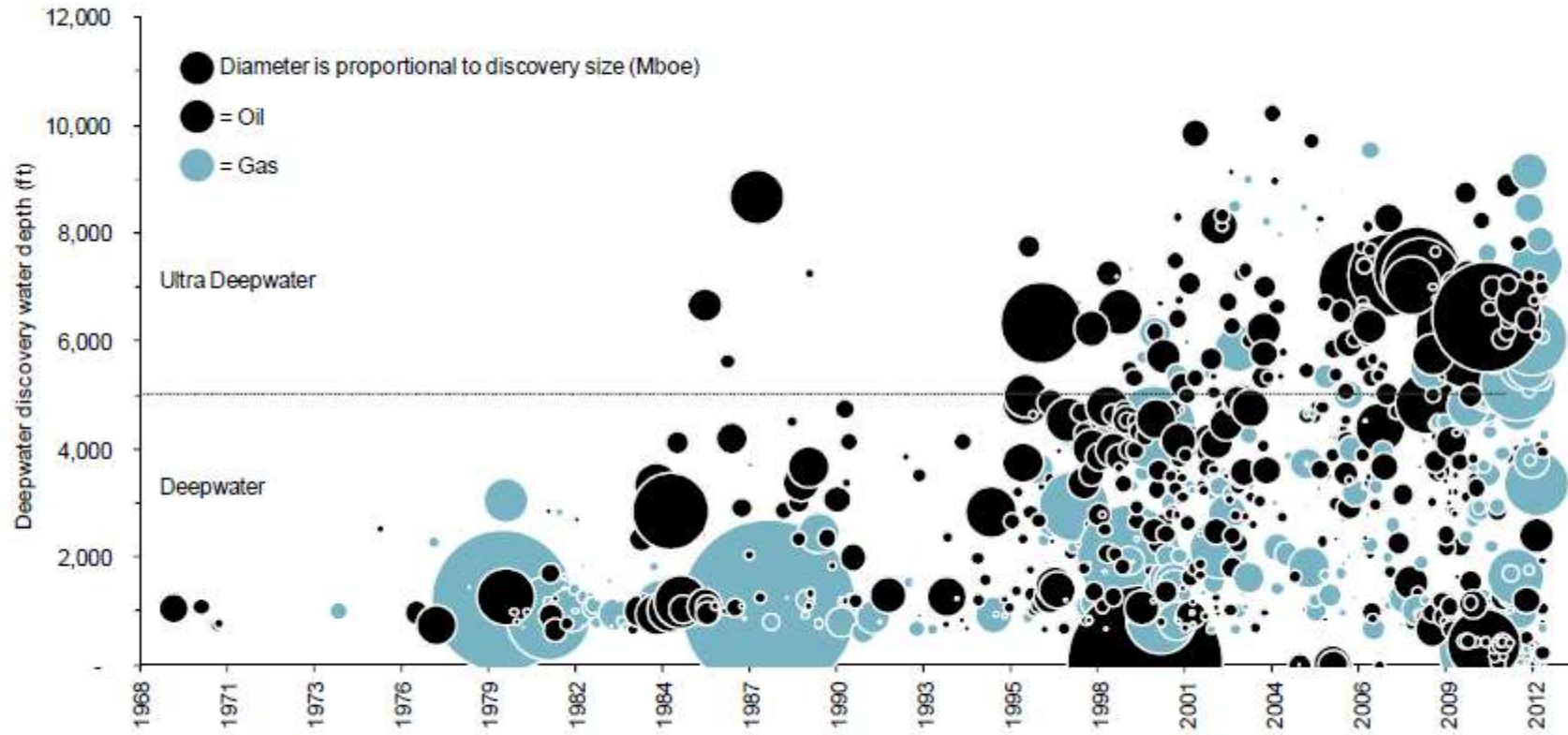
Deep offshore discoveries

Water Dept of Discoveries



Source: IHS, Press reports, Company reports and Bernstein Analysis

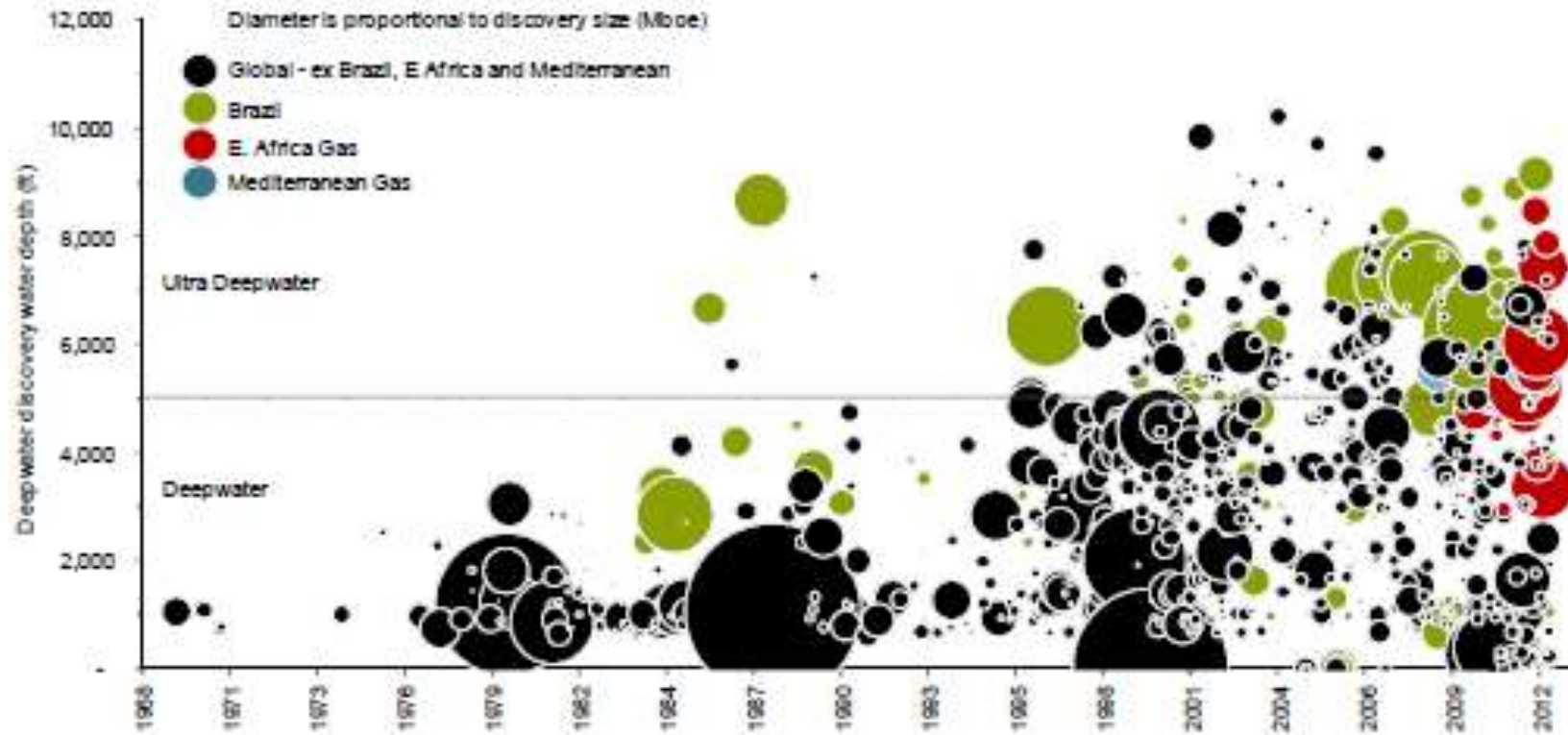
Deep offshore discoveries



Source: IHS, Press reports, Company reports and Bernstein Analysis

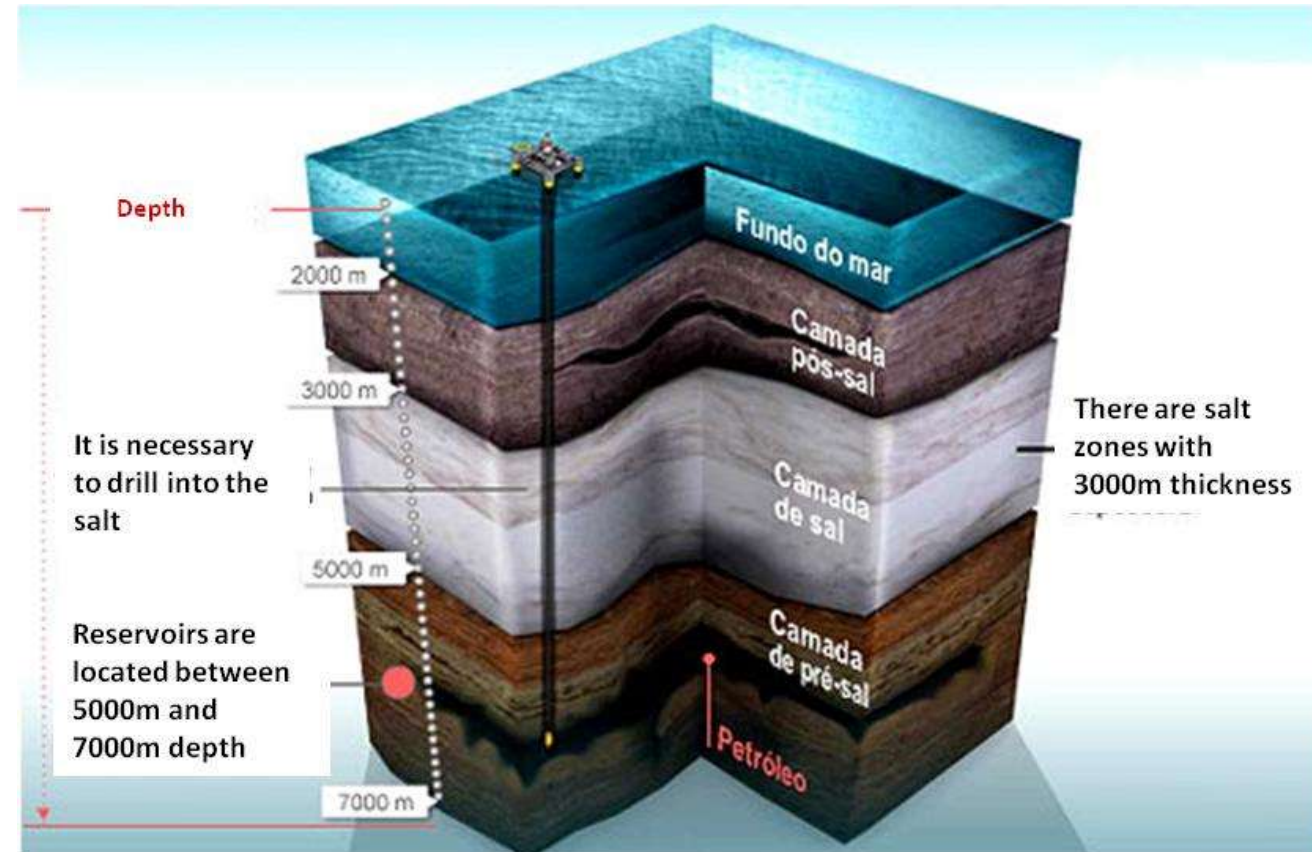
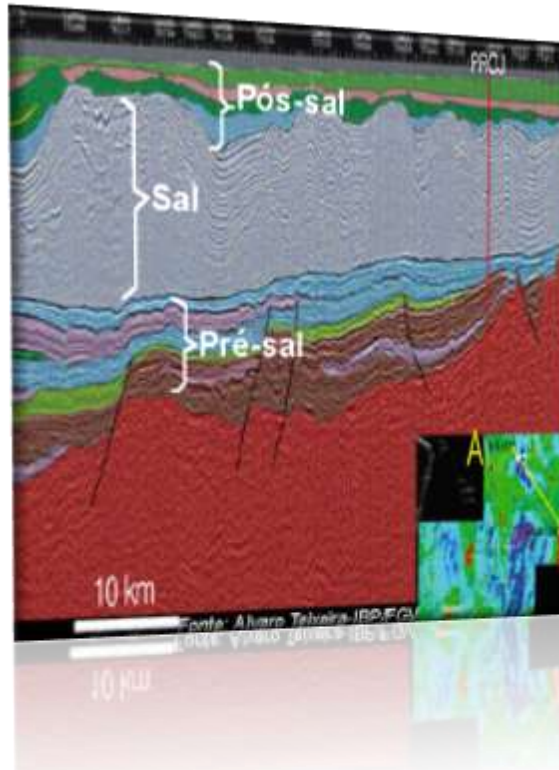
Deep offshore discoveries

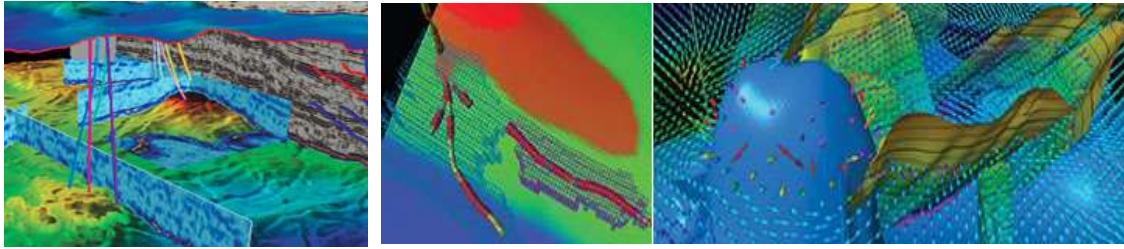
World Leading : BRAZIL, Angola and MOZAMBIQUE



Source: IHS, Press reports, Company reports and Bernstein Analysis

New frontiers: Brazil ultra-deep offshore (pre-salt area)



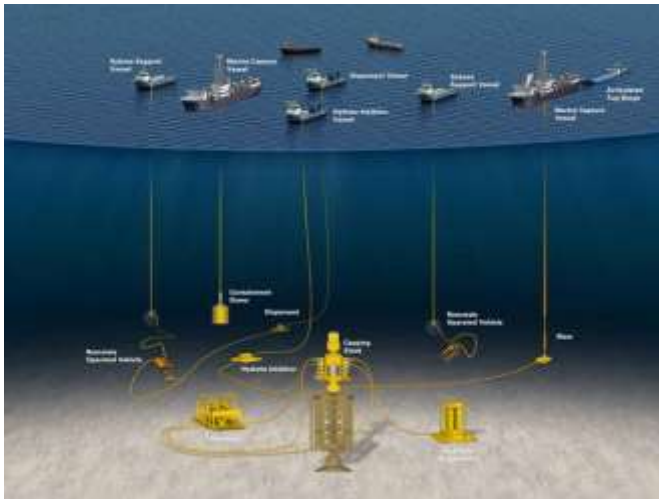


Seismic Characterization and Reservoir Engineering

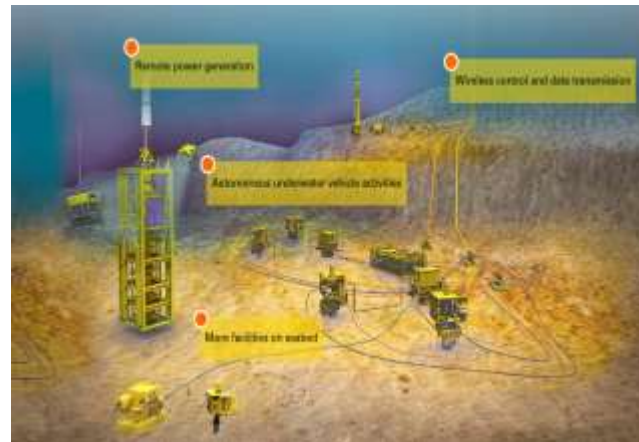


Smart Fields

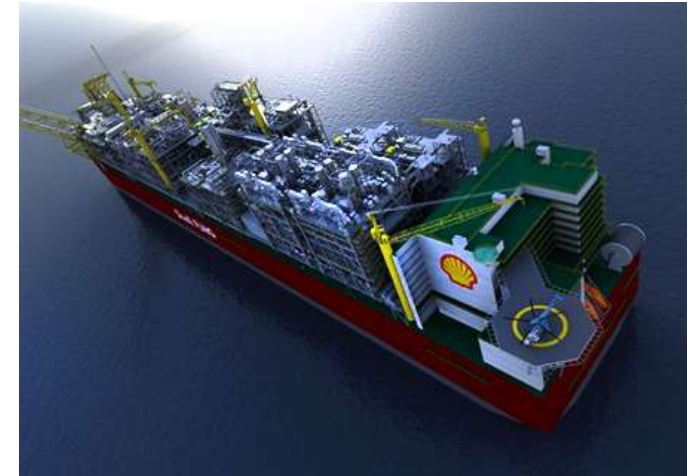
Deep Off Shore Game Changers



Deep Water Drilling: Oil Spills responses, Decreasing Costs, EOR,..



Autonomous Operations



FLNG

Gradient Pore Pressure Modelling with Uncertain Well Data



CERENA- University of Lisbon
PETROBRAS – E&P-EXP/GEO/TGEO
UFRGS – University of Rio Grande do Sul



Instituto Superior Técnico

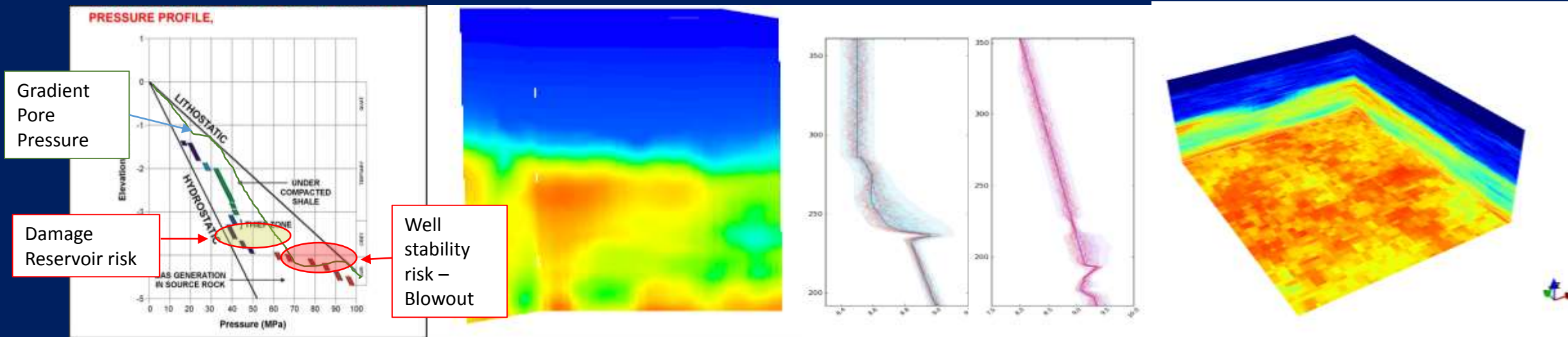


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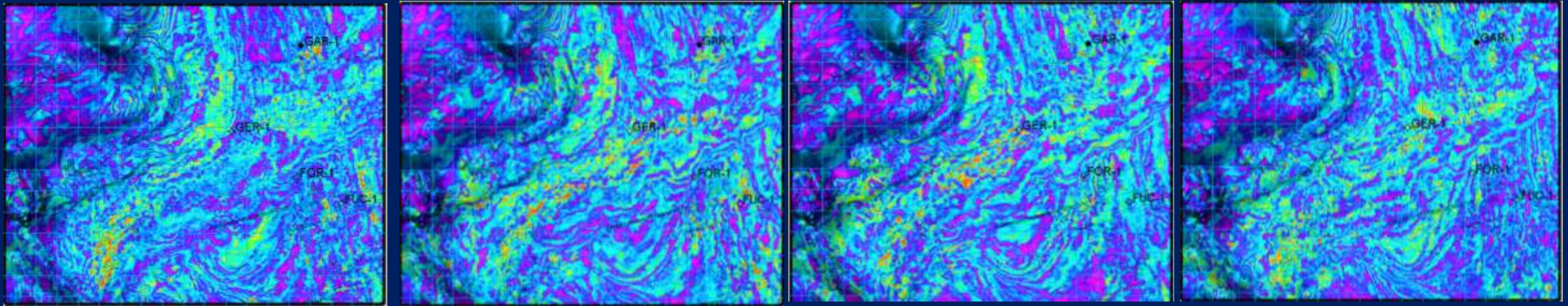




To assess uncertainty and risk in pore pressure tool management.

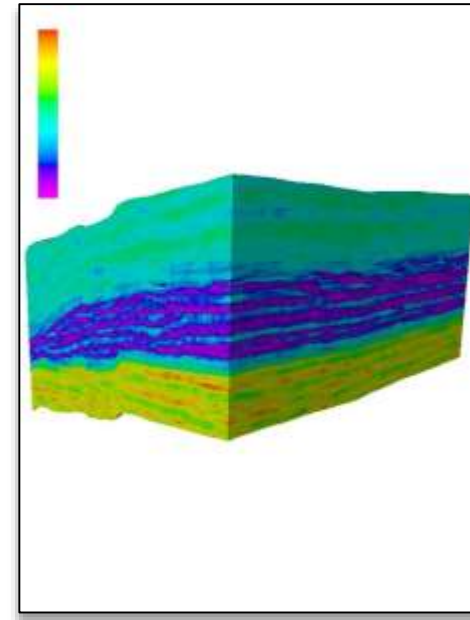
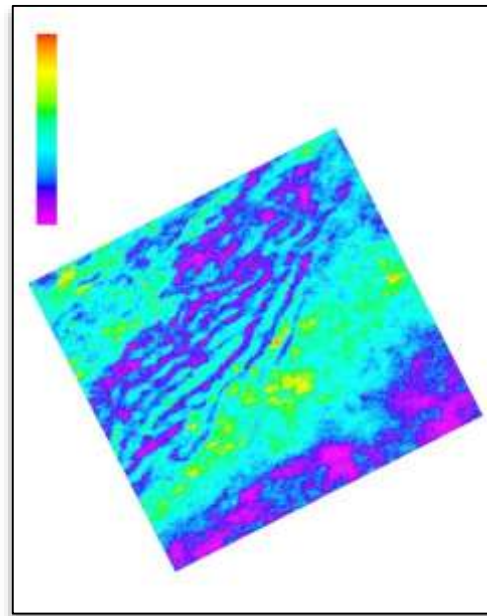
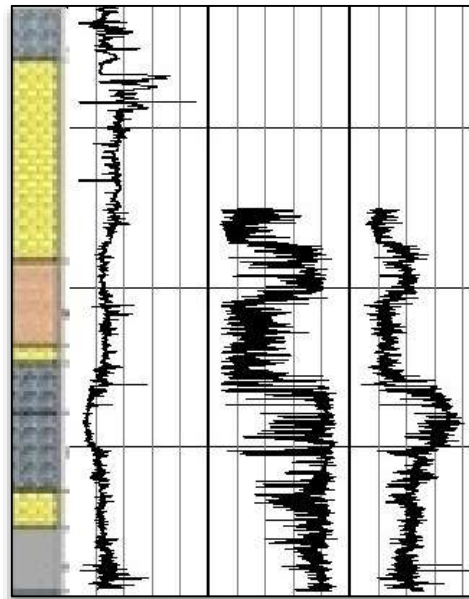
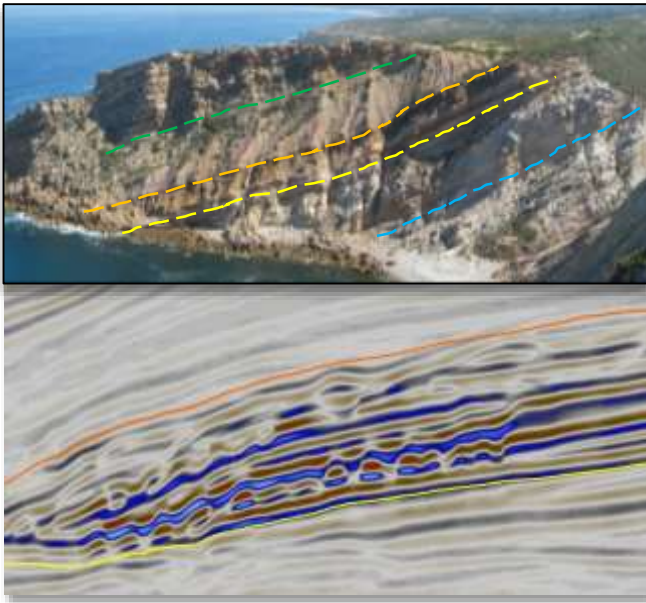


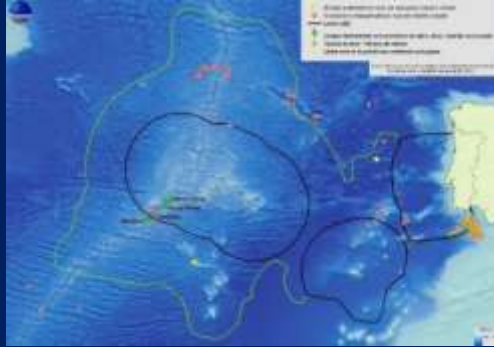
Stochastic Acoustic Inversion to identify potential targets of a turbiditic Angolan Reservoir



Algarve: Earth models for early exploration stages

Regional Geology





Thank you