

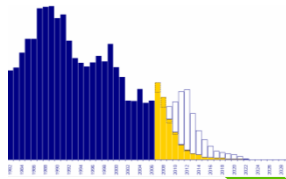
DHI enhancement as key-enabler to portfolio rejuvenation

Part II - Examples from the Southern North Sea

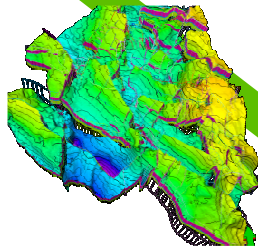


R. Sneepe, Matthias Brühl, Naima Yilo, Rutger van Spaendonck, Ruud van Boom, Wicher van Lingen

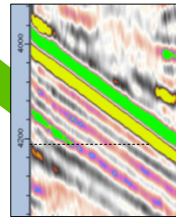
Presentation outline



Sense of urgency

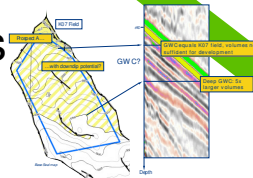


Looking through a different lens

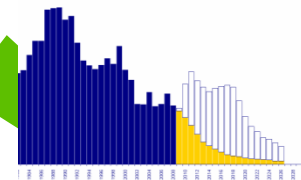


DHI scoring as enabler

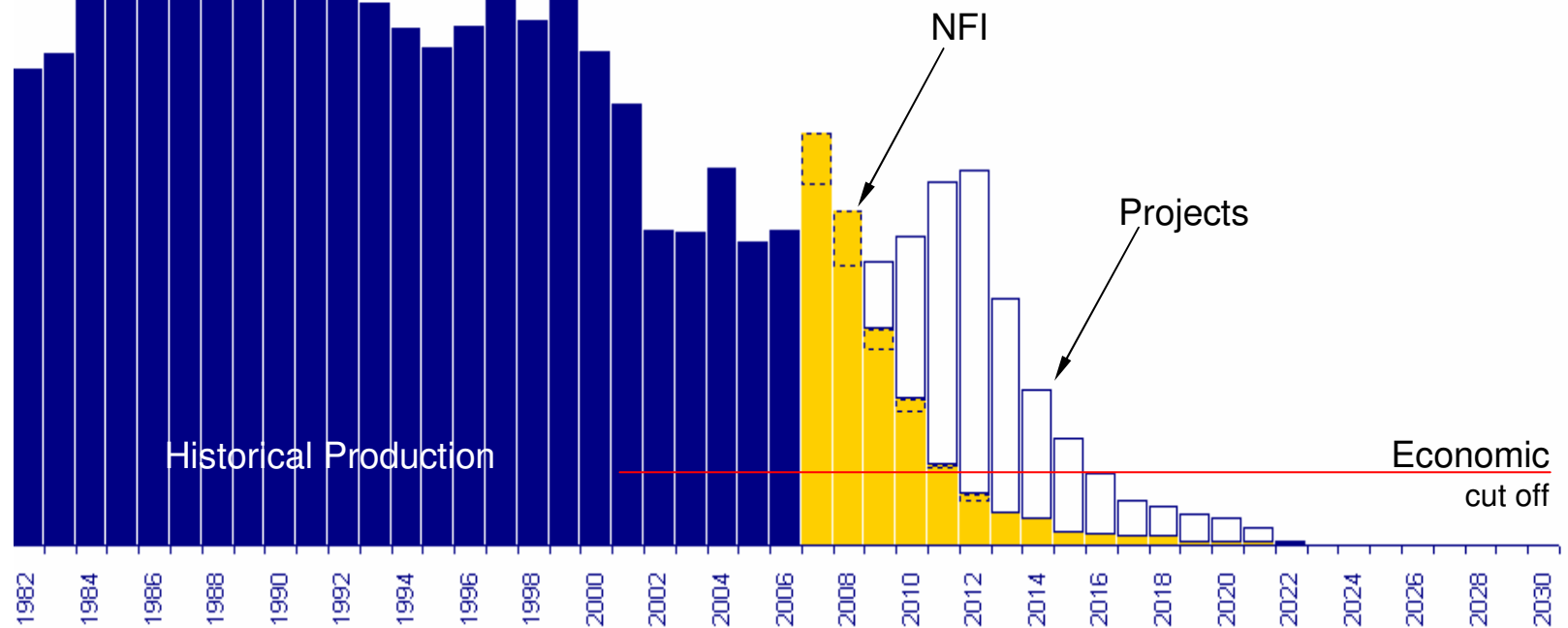
Case studies and challenges



Looking back and forward

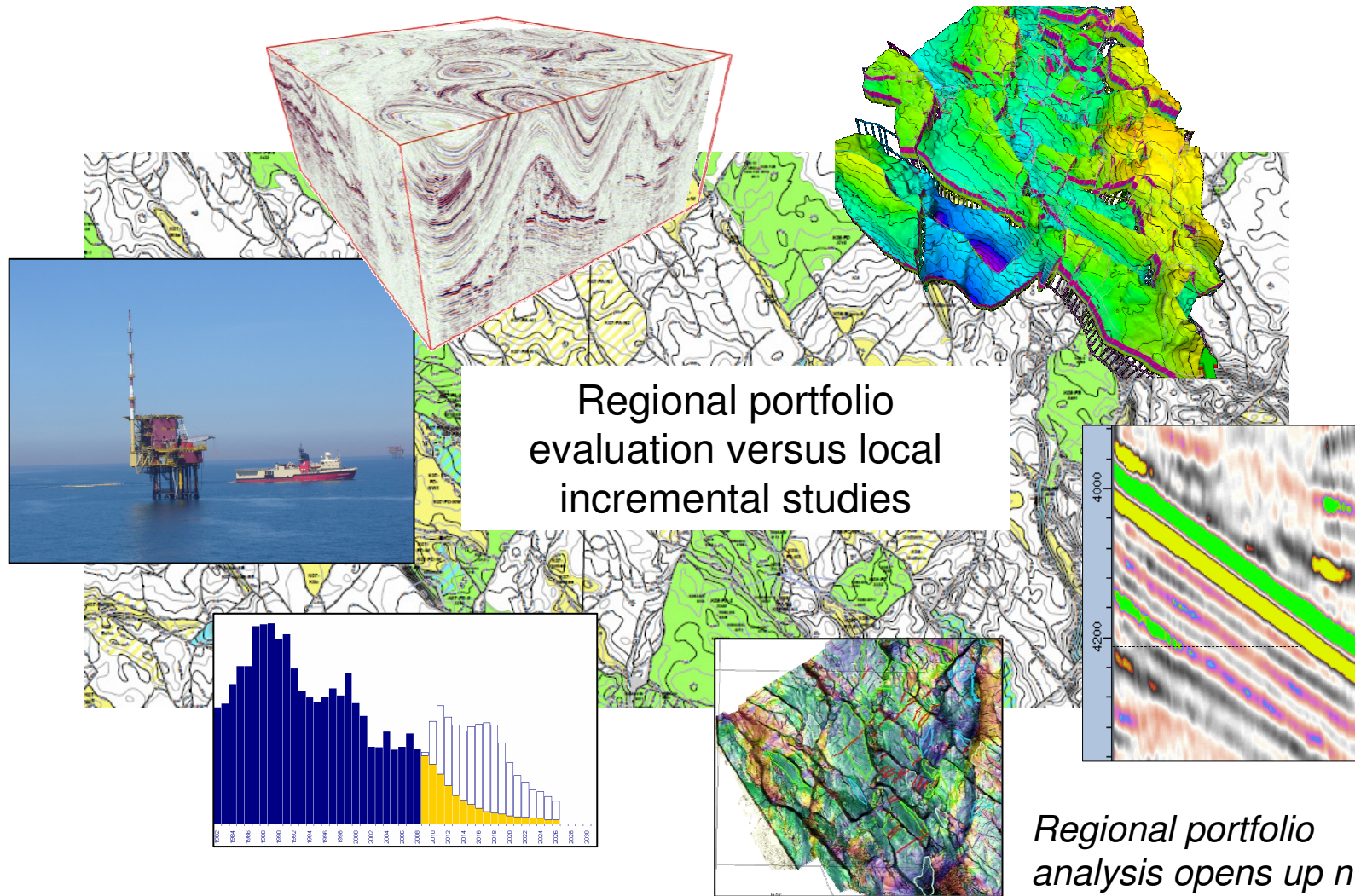


Sense of urgency



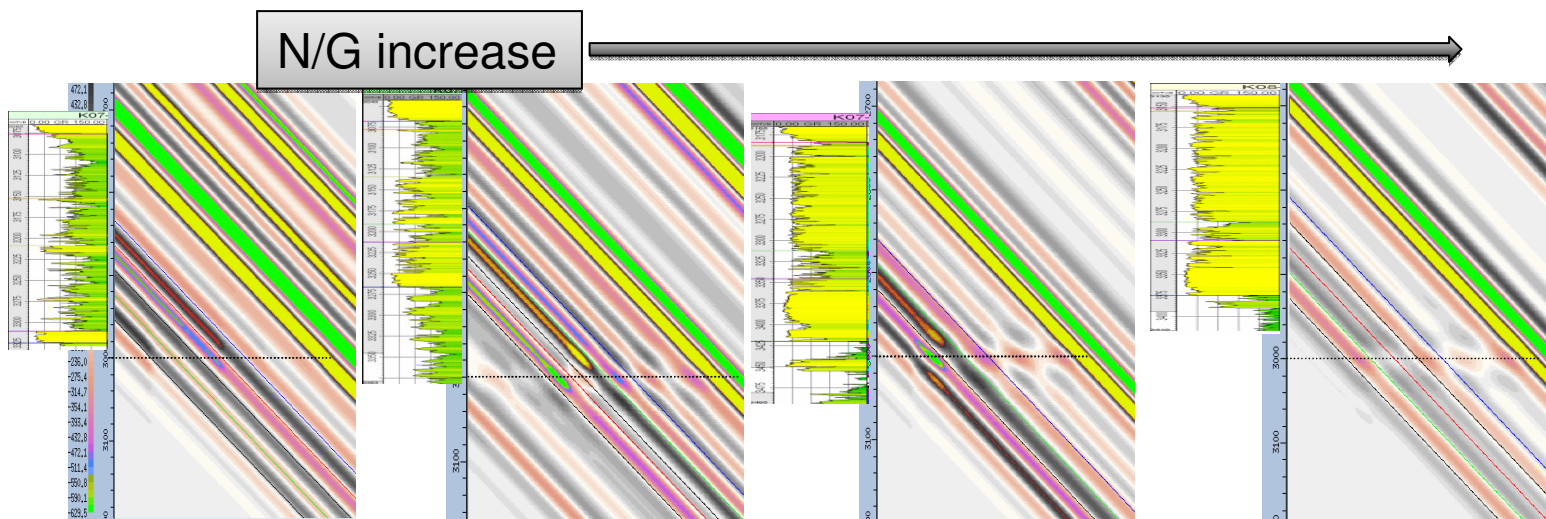
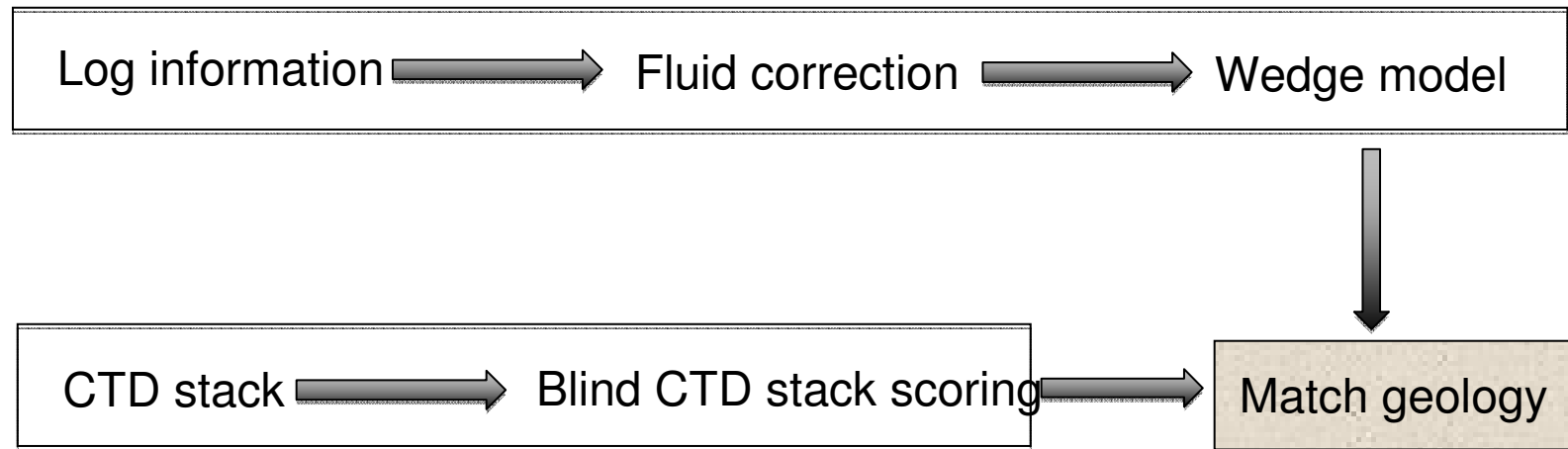
A need for structural volume addition

Looking through a different lense

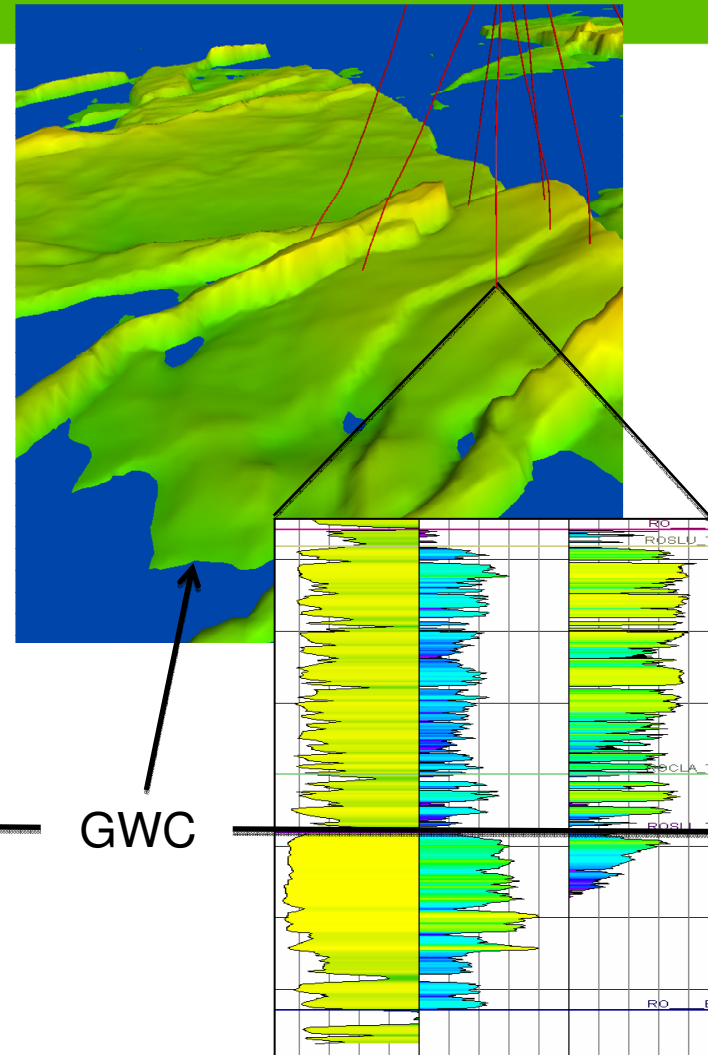


*Regional portfolio
analysis opens up new
maturation potential*

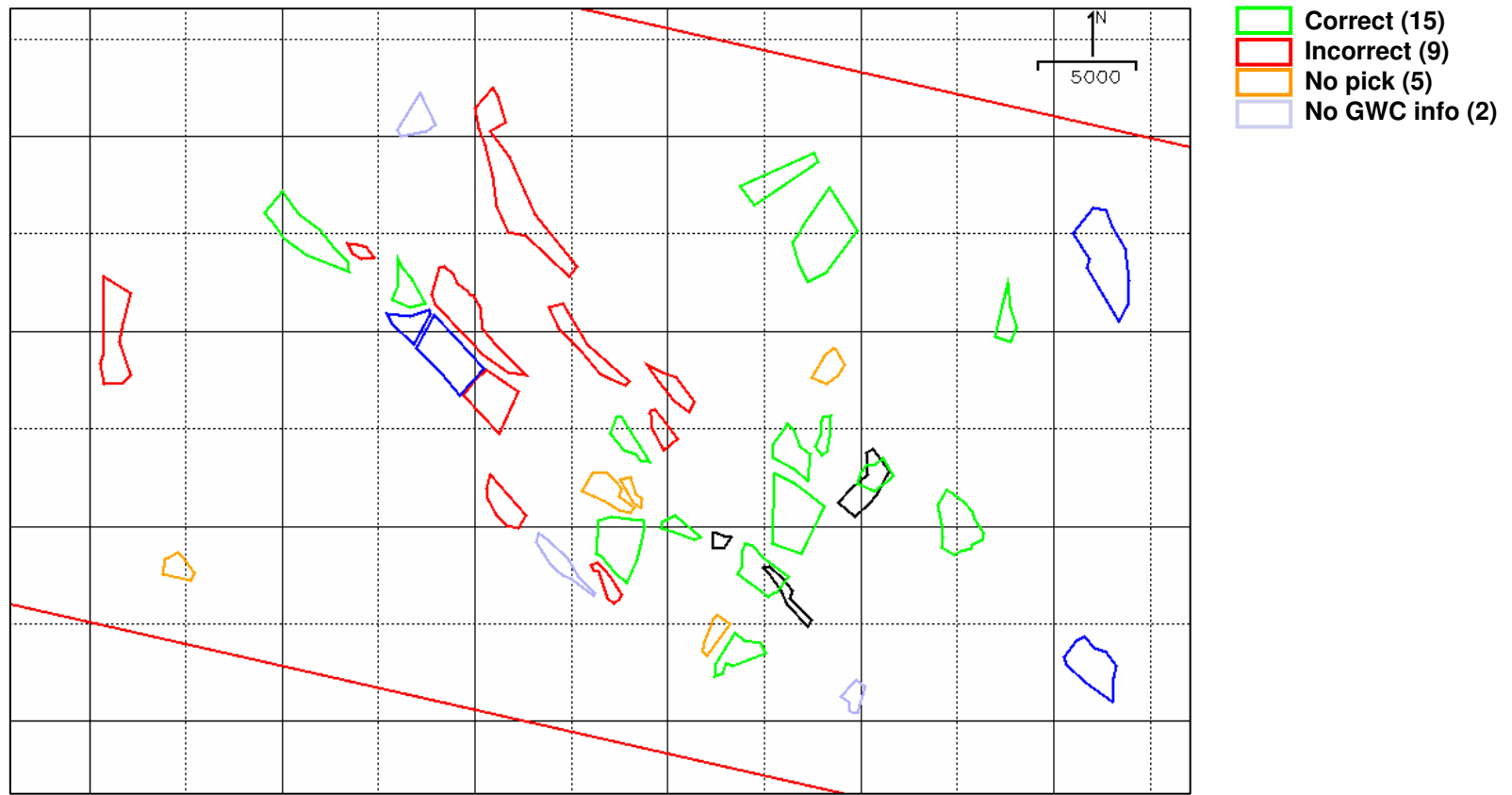
DHI scoring as integrated enabler



Calibration on existing and well known fields forms the basis for DHI scoring

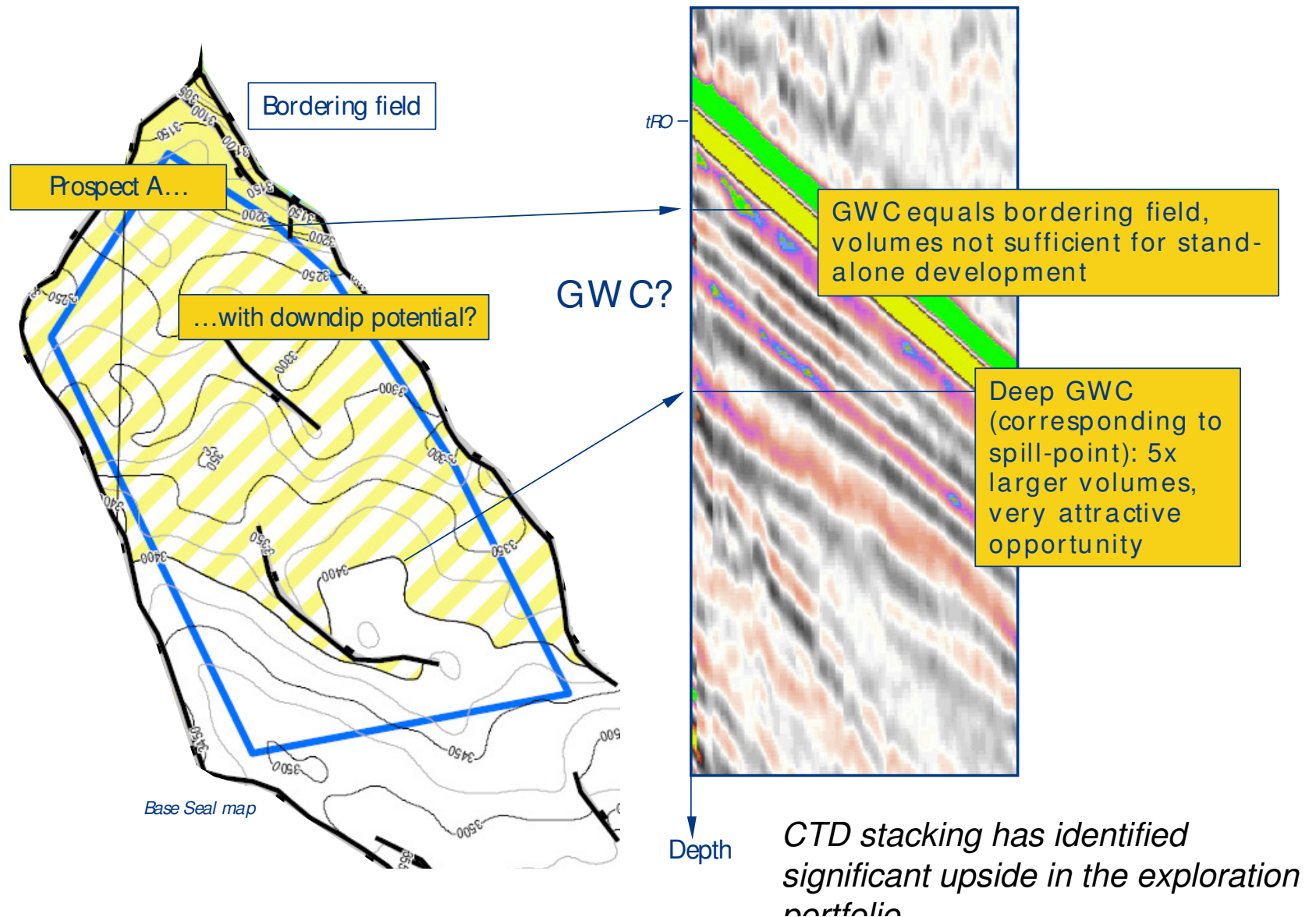


Case: regional CTD scoring of fields

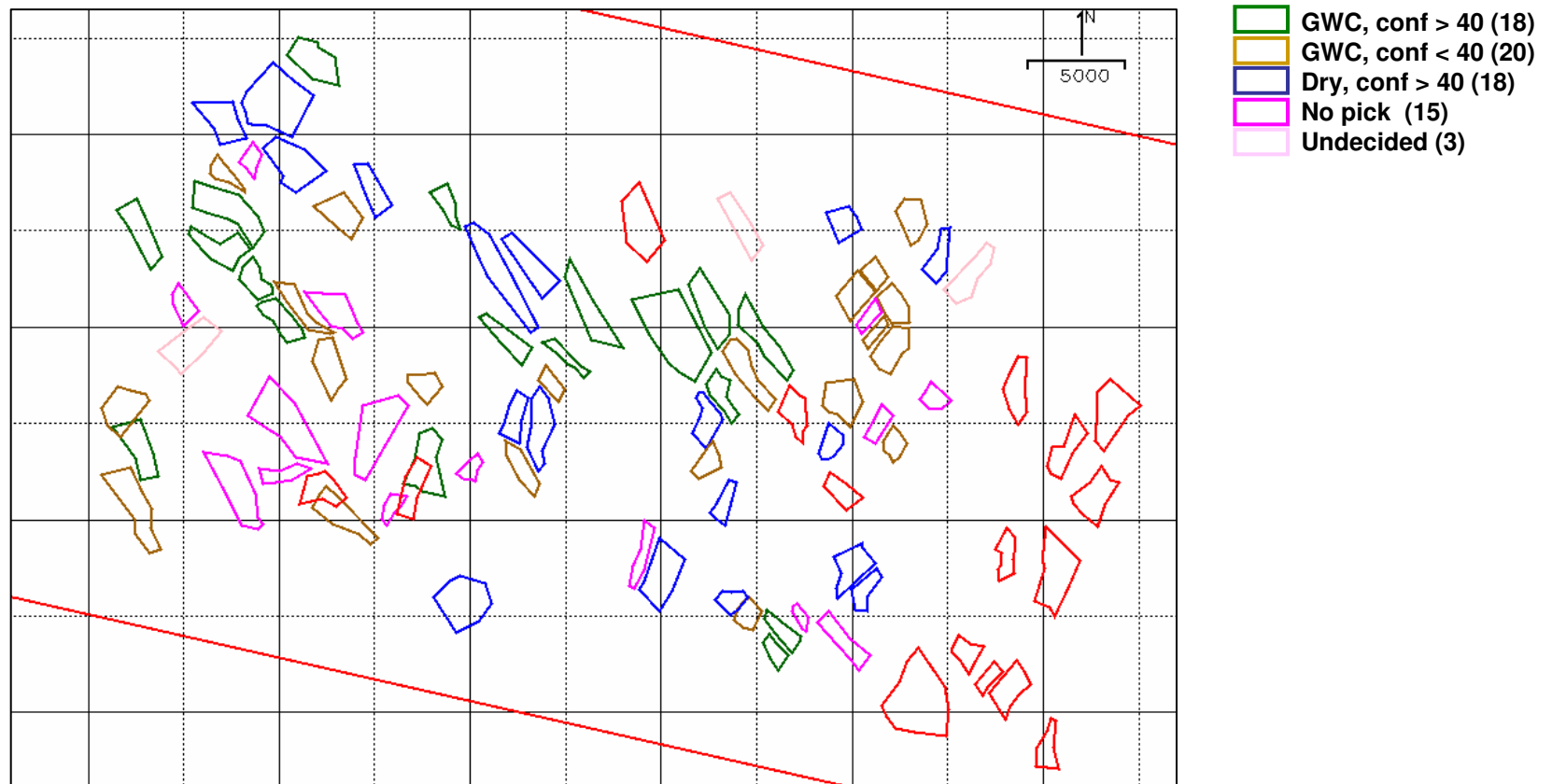


In selected case study 63% of CTD stack interpretations matched measured HC contact. Of the 'Incorrect' cases, half was influenced by residual gas.

Case: CTD stack identifying deeper contact

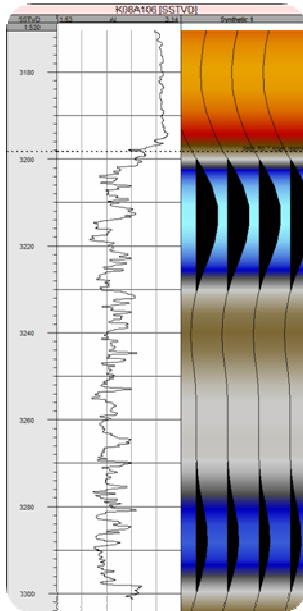


Case: regional CTD scoring of prospects

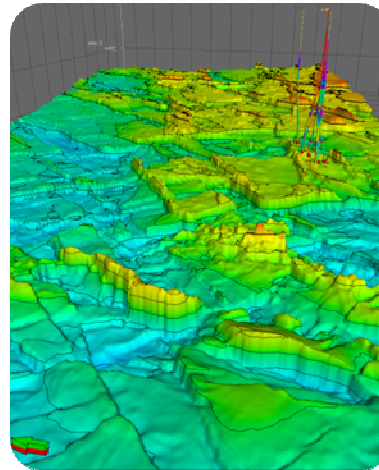


In selected case study 49% of CTD stack interpretations received a confidence level >40, significantly influencing maturation decisions.

Challenges along the way

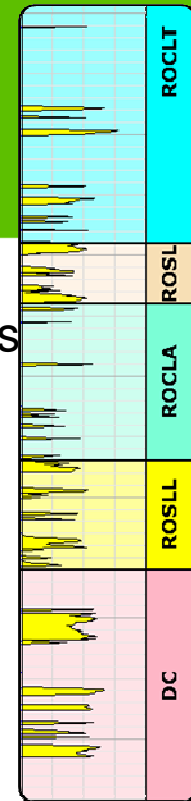


Thin layers



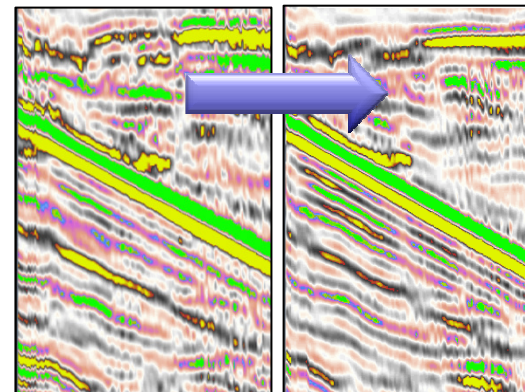
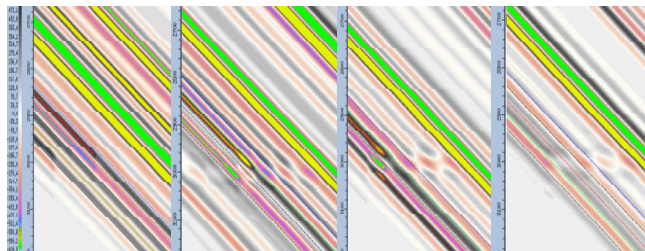
Structural complexity (e.g. faults)

Residual gas

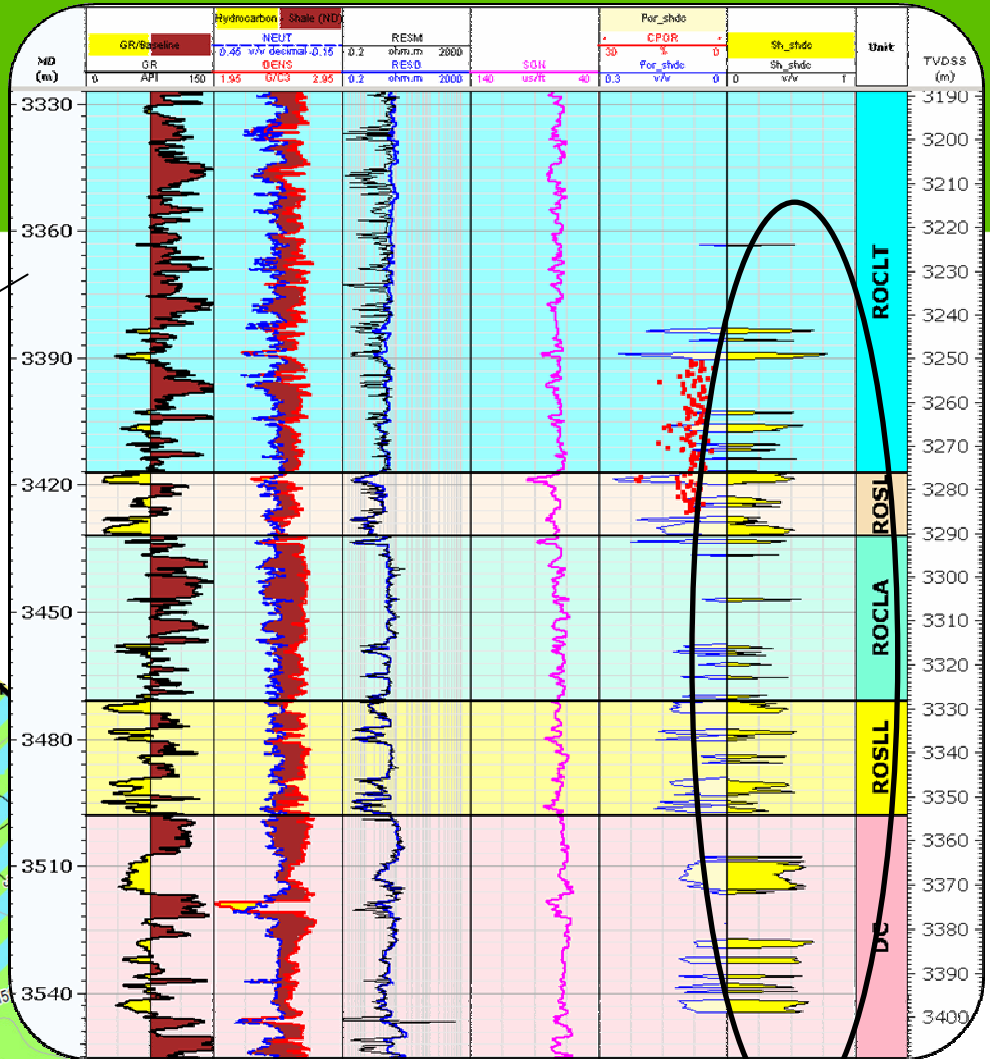
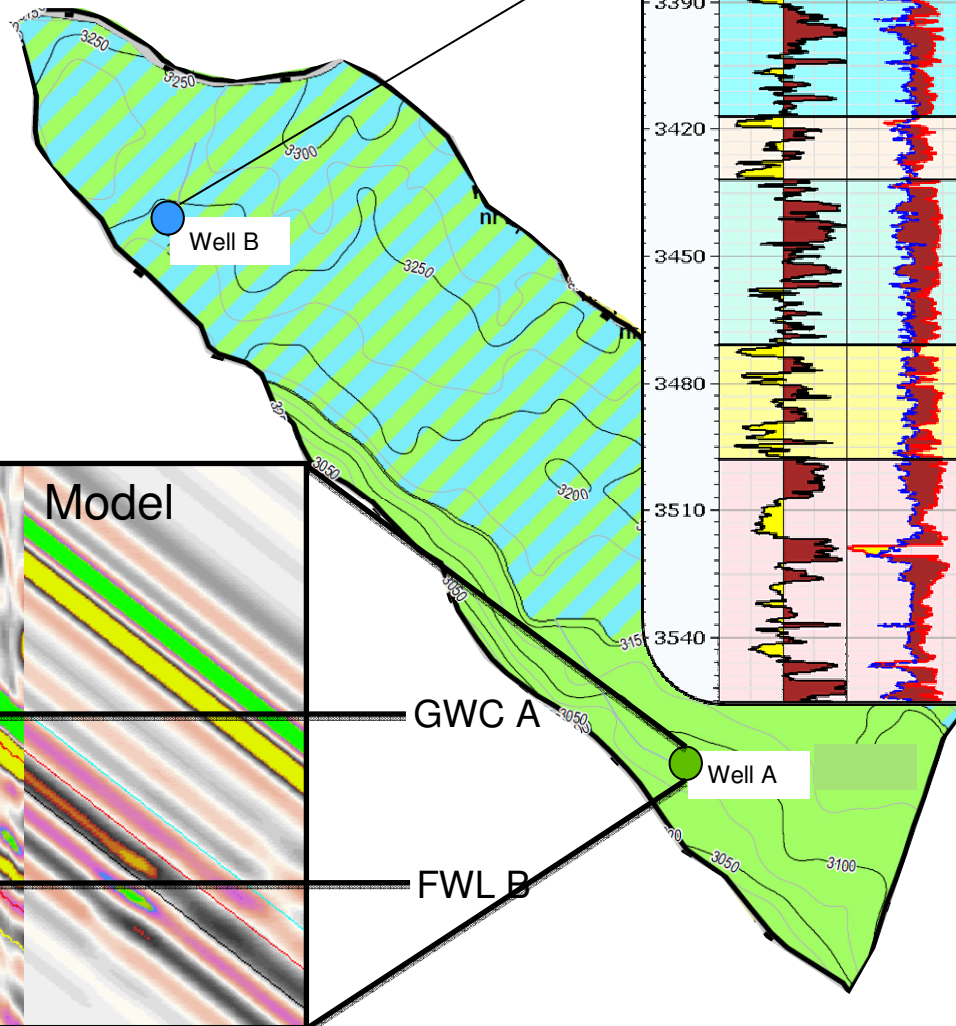
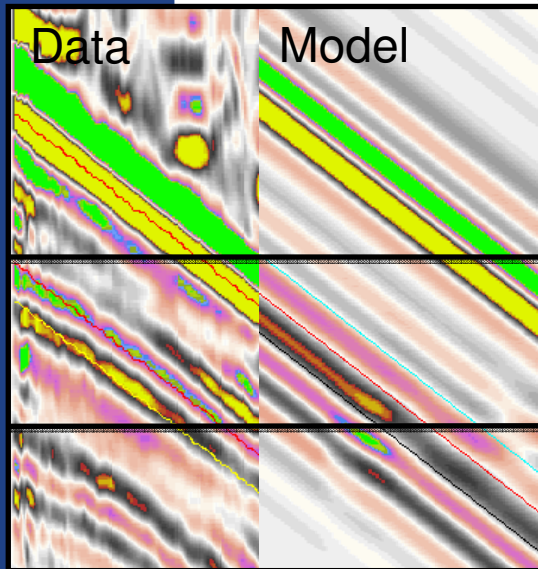


Seismic data quality

Reservoir quality



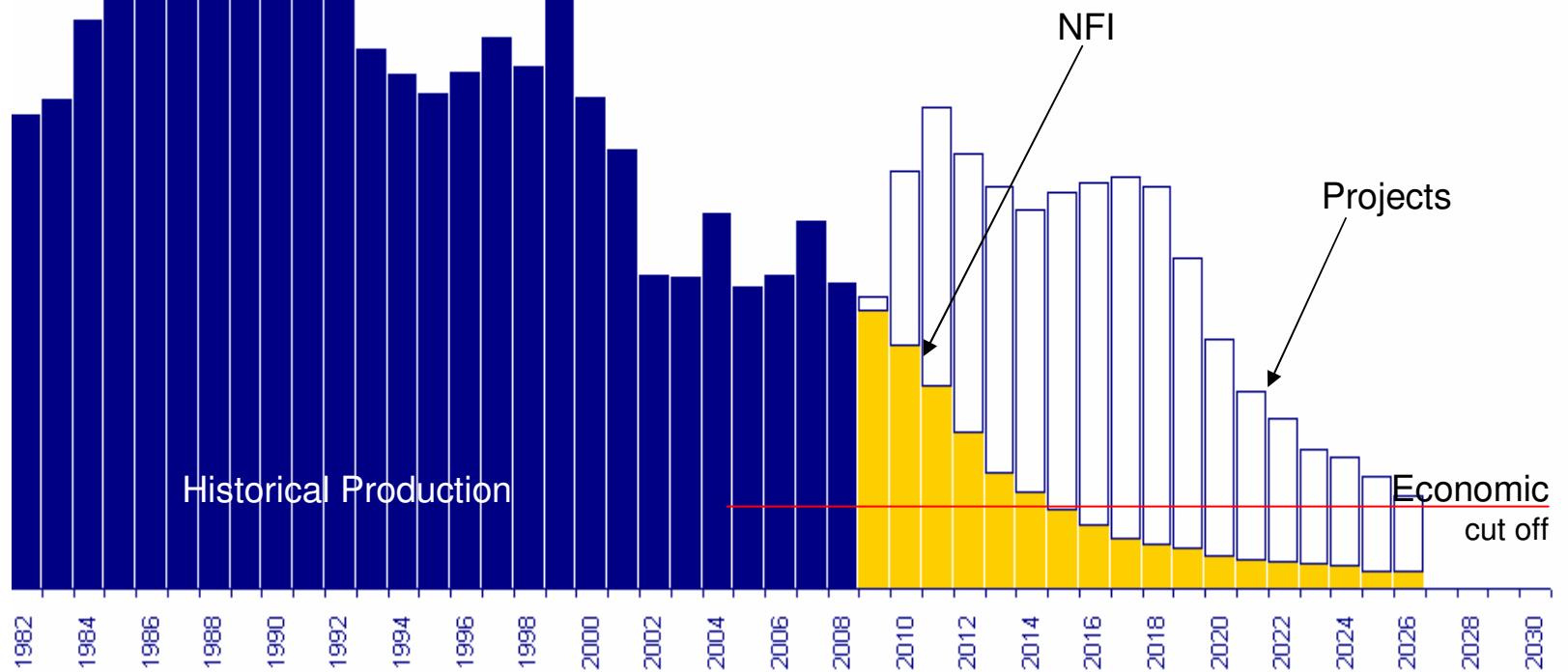
Case: residual gas



Residual gas

Residual gas complicates the DHI scoring exercise, often resulting in

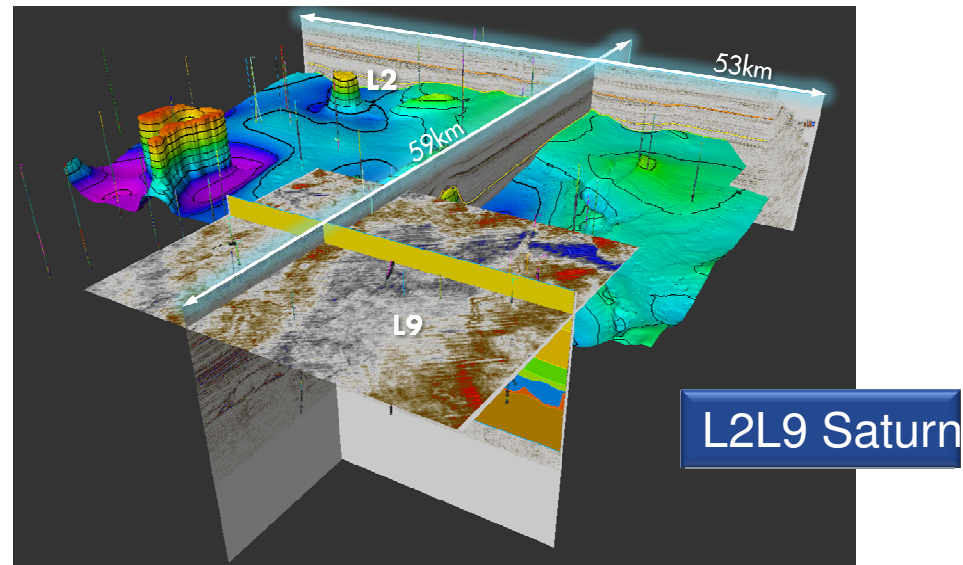
A new horizon



31 new projects identified,
of which 34% of decisions influenced by DHI de-risking

Looking forward

Applications in new regional studies



Need to facilitate fit-for-purpose assurance

Trials on other plays than Rotliegend

Acknowledgements

- Matthias Brühl
- Rutger van Spaendonck
- Wicher van Lingen
- Ruud van Boom
- Naima Yilo
- Oscar Kelder
- Partners of NAM



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