



Shale Gas Research

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Biography

2009-2012: BEng Petroleum Engineering,
Portsmouth University

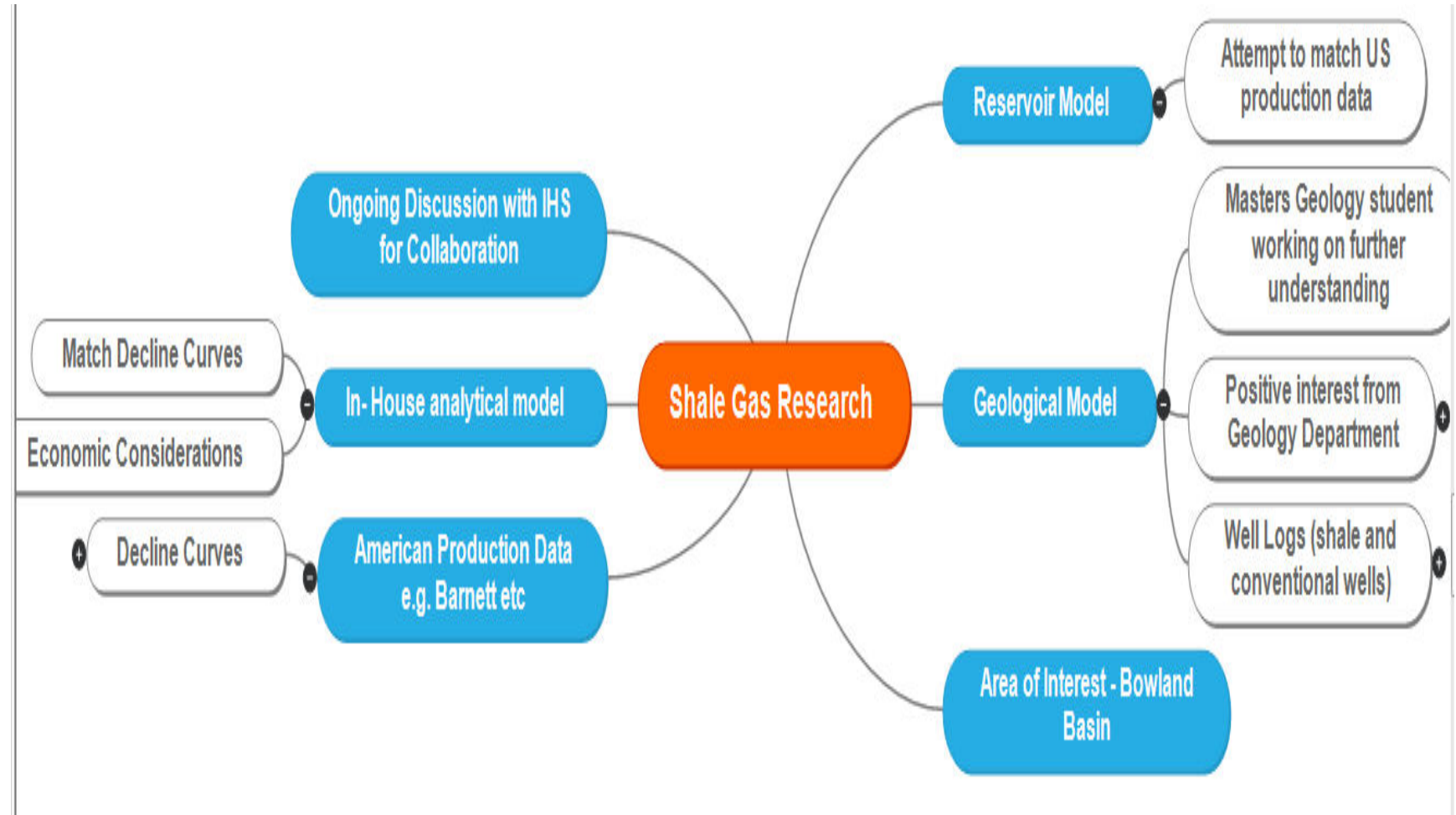
2013-2014: MSc Petroleum Engineering,
Heriot-Watt University

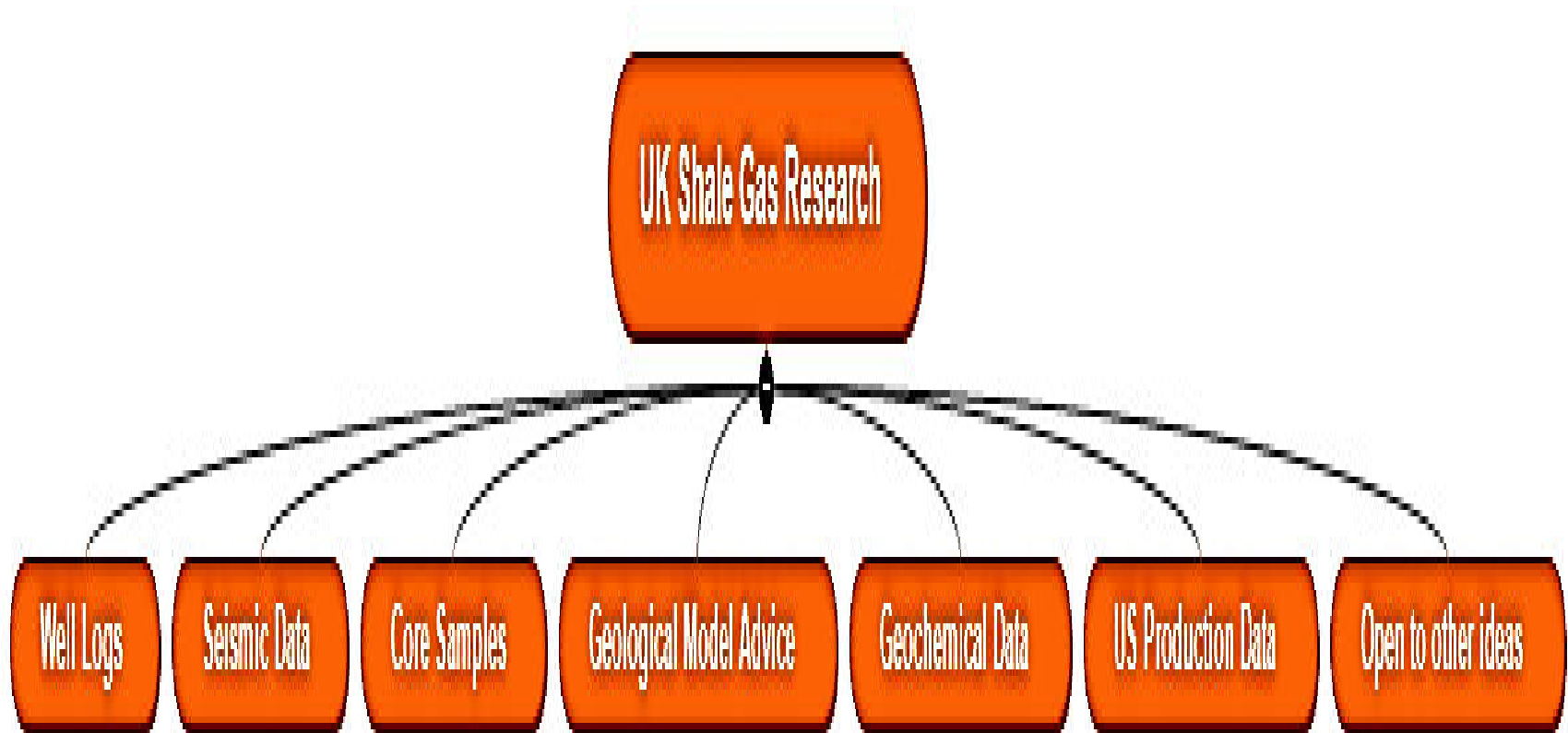
Interests: Shale Gas and Coalbed Methane

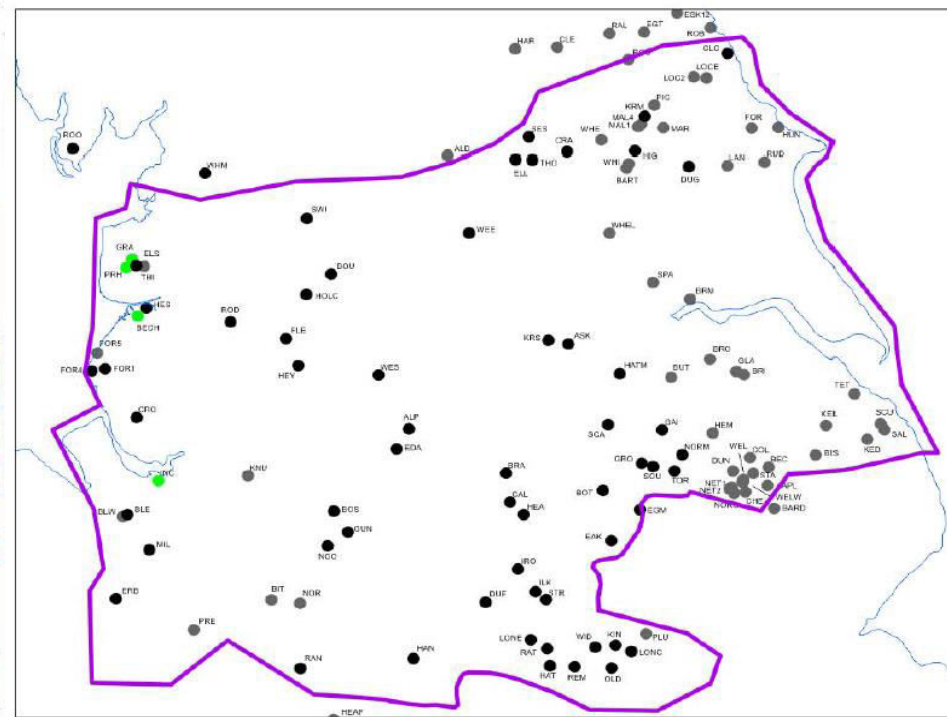
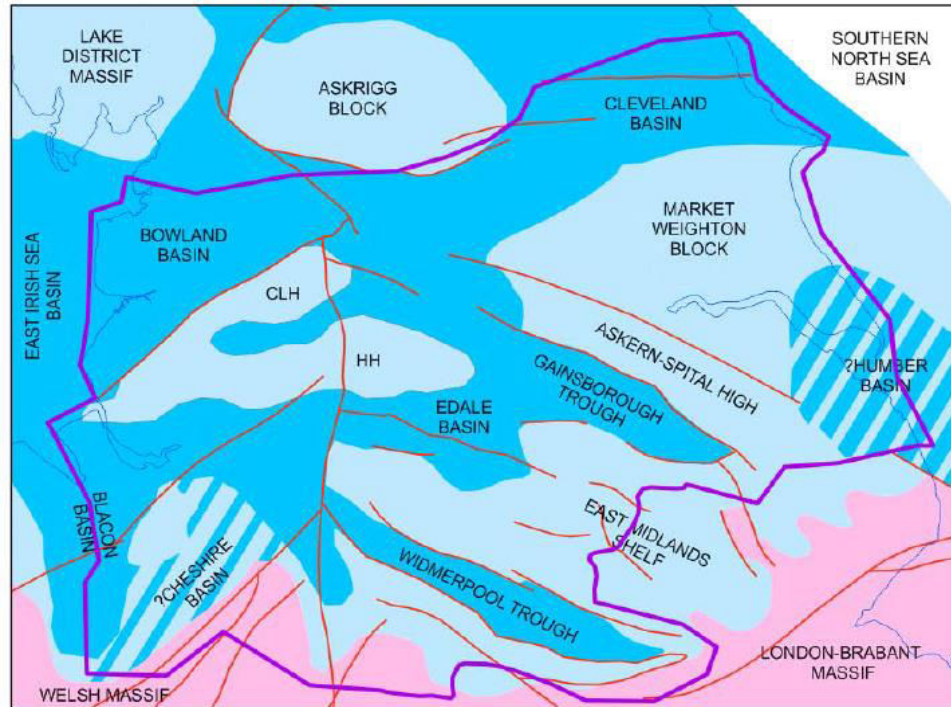


Aim

- Overview on the proposed research outcome
 - Call for possible data acquisition and collaboration







Key wells: **Grange Hill 1**, **Elswick 1**, **Preese-Hall 1**, **Thistleton 1**, **Hesketh 1**, **Beconsall 1**, **Formby 1**, **4**, and **5**.



Possible Outcomes

- Which US shale plays would closely match the Bowland Basin?
- Estimate possible recoverable volumes
- Number of wells needed to develop the field to achieve certain production rates and revenue



Shale Gas in Place – Bowland-Hodder Shale

- Range as estimated in the BGS/DECC report

Low Estimate	Middle Estimate	High Estimate
822 TCF	1329 TCF	2281 TCF

- Estimates consists of the less prospective lower Bowland-Hodder shale



A third of Britain's gas demand could be met.

Energy Demand

	UK Shale Gas Production/annum	2011 UK Gas Demand	2030 UK Gas Demand
Low Scenario	853BCF	3055BCF	3049BCF
Central Scenario	1121BCF		
Best Scenario	1389BCF		

IOD, 2013



Gas Import Dependency

UK Gas import dependency can be reduced from 76% to 37% by 2030.

Cost of net gas imports will drop by more than half from \$15.6bn to \$7.5bn.

Significant tax revenues owing to decline north sea production



Conclusion

- Production forecast
- Economic considerations
- Ongoing IHS discussion
- Two papers to be published on shale gas by July 2015.
- Open to other possibilities



Questions

