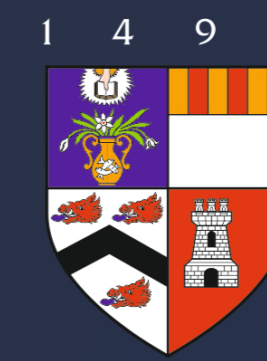


Decommissioning, Asset Trading and the Future of the UKCS: A Case for Improved Financial Security Mechanisms



1. ABSTRACT & BACKGROUND

- ❑ This study shows the relevance and importance of choosing the right financial security instrument to improve mature offshore asset trading.
- ❑ Free asset trading is key to field life extension and hence to the maximisation of the UKCS.
- ❑ In the UK, the widely used letter of credit might not be the best way to provide financial guarantee for decommissioning.
- ❑ A simple DCF analysis captures crucial insights on the effect of such mechanisms on the NPV of an offshore project, in particular the interest of considering alternative mechanisms (trust fund).

2. METHODOLOGY

The methodology includes a review of the legal framework and relates it to asset trading issues.

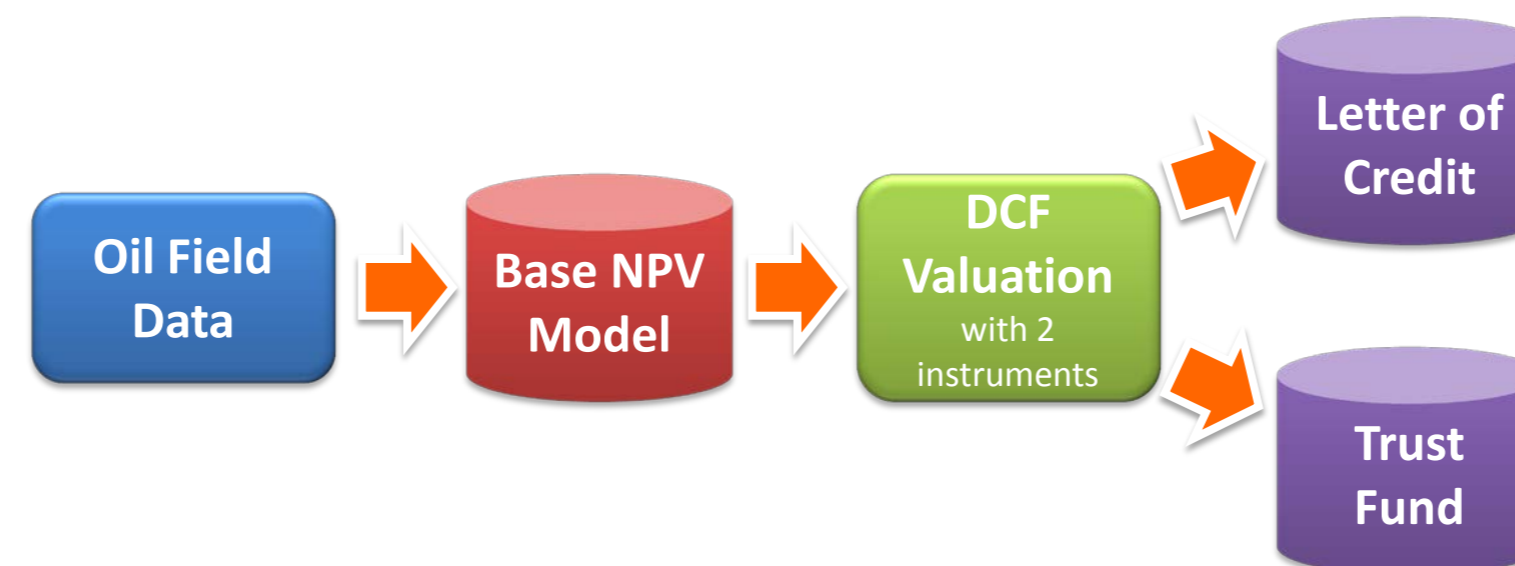
- Owners of an oil asset are jointly and severally liable for its decommissioning.
- Financial security is typically required when NPV falls below 150% of the decommissioning costs.
- Small oil E&P companies wishing to acquire mature offshore assets may lack the financial strength to provide the levels of security required.
- Tax (un)certainty has an effect on the cost of financial guarantees → **Decommissioning Relief Deeds**

METHODOLOGY (Continued)

Different types of security can be provided by buyers to enable the transfer of leases between companies .

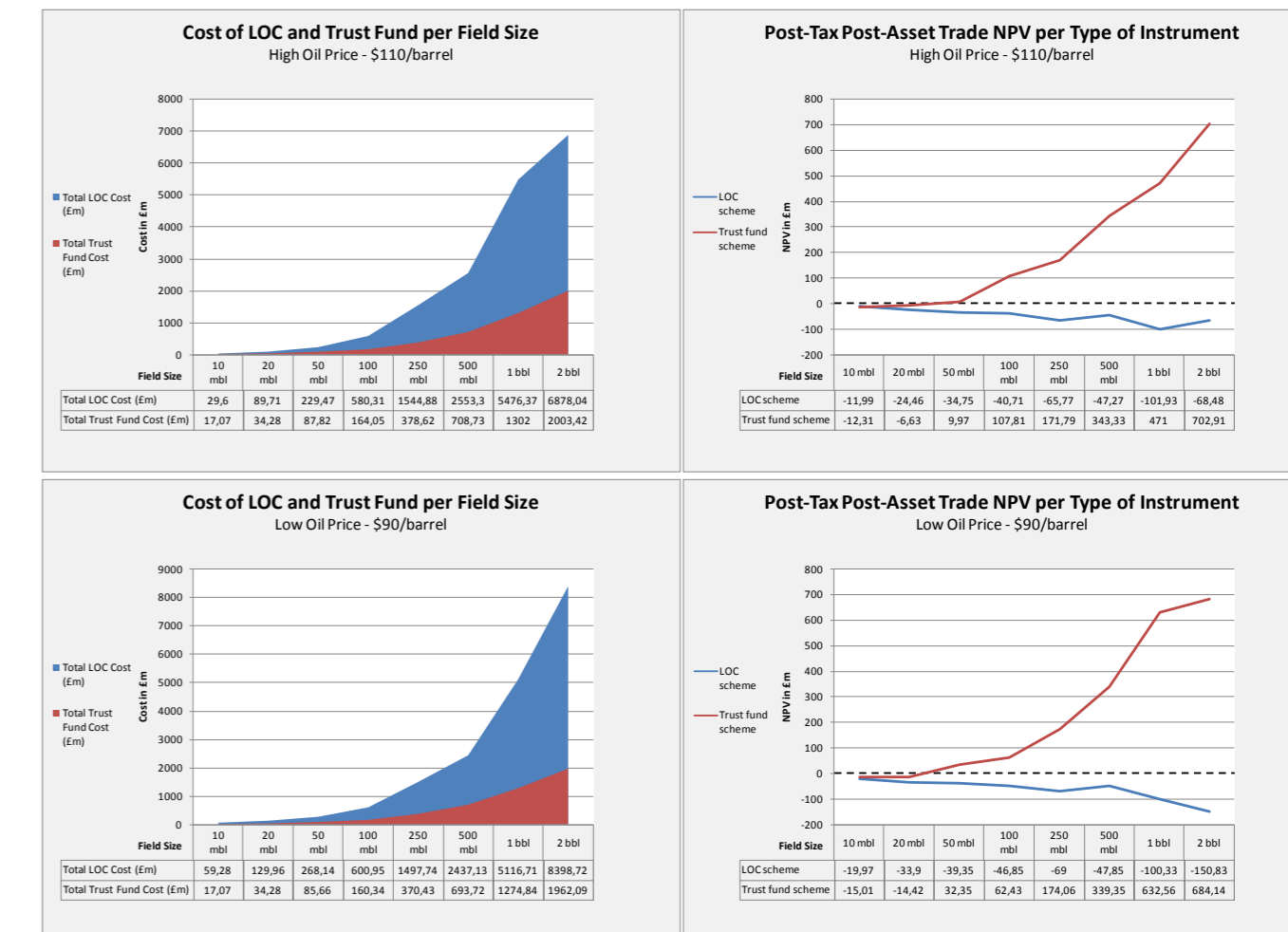
- need to **strike the right balance** between facilitating investment and protecting the taxpayer against possible default.

We use a simple DCF model on a mixed range of North Sea oil fields to measure the impact of decommissioning security on a given project's NPV.



Oil Field Data	Base NPV Model	DCF Valuation	Type of Financial Security
<ul style="list-style-type: none"> • Revenues based on oil prices and output levels for 8 different fields • Costs : devex, opex and abandonment • Type of financial guarantee • Other data such as inflation, UK fiscal terms and discount rate 	<ul style="list-style-type: none"> • Cash flows – pre- and post-tax basis • Base NPV, IRR, payback period, PI • Decommissioning rule • Trigger rate and trigger year • DCF sensitivity analysis on selected parameters 	<ul style="list-style-type: none"> • Model revenue uncertainty based on 3 oil price scenarios, field size and cost of financial guarantee • Compute post-tax, post-asset trade residual NPV based on trigger rate and year • Check if residual post-asset trade NPV is positive 	<ul style="list-style-type: none"> • LOC modelled as a fee based on decommissioning costs + capital tied-up in the scheme – fee paid is tax relieviable • Trust fund modelled as an advance on decommissioning costs – contributions paid are not tax relieviable

3. MAIN RESULTS



4. CONCLUSIONS

The results indicate that the trust fund is, on average, **70.1% less expensive** than a LOC.

Beyond a threshold of 50 million recoverable barrels, the model yields a positive NPV from using the trust fund, whereas the LOC scheme seems to **swallow up the whole post-asset trade NPV**.

The model also shows that other factors such as reservoir size and oil price may be more important to the company's decision than the cost of the instrument itself.

The trust fund remains a costly option, but it is clearly **less damaging in terms of NPV**.