

CONCEPT COMPARISONS / SCENARIO ANALYSIS

INFORMED DECISIONS THROUGH
QUANTIFIED COMPARISONS OF
OPTIONS / SCENARIOS / CONCEPTS



CONCEPT COMPARISONS / SCENARIO ANALYSIS



Organisations often need to compare and contrast different options and determine which should be progressed. We can help prepare different options (screening scopes, estimates, schedules, risk profiles). Our toolkits / metrics will then provide a quantified comparison to allow informed decisions to be made with confidence.

Select Concepts with Confidence. Decisions informed by data.

Option Comparison by Phase:

Assess Phase: Initial screening of options. High level evaluations to determine if there is value to be pursued. Creating options.

Concept Select: More detailed comparison of competing options. Narrowing options until one concept is progressed. Applying Decision Quality framework to final decisions.

Execute: Scenario planning to optimize delivery.

Operate: Commence planning for End of Field Life (EoFL). Compare life extension options or different Decommissioning approaches.

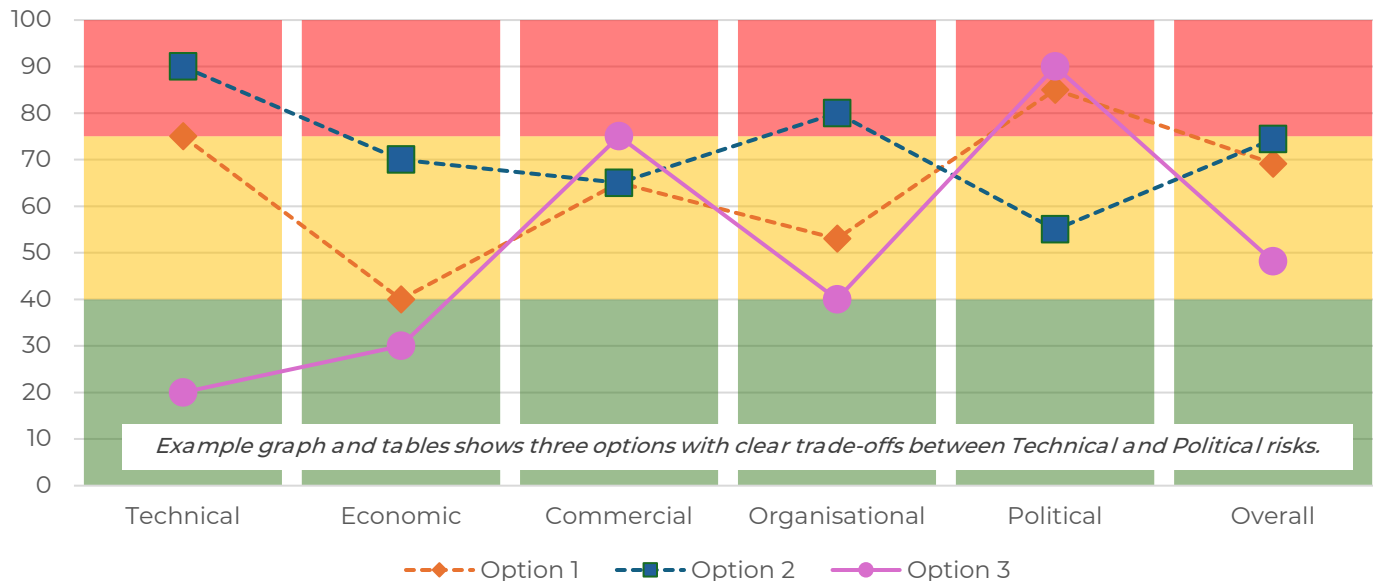


CONCEPT COMPARISONS OUR APPROACH



Econ	Production	Capital \$MM	Contingency	NPV \$	Duration	Risk Score
Option 1	+2.1	\$150	5.2%	\$10.1	25	26.8
Option 2	+0.7	\$100	5.0%	\$2.1	18	17.2
Option 3	+4.1	\$250	7.5%	\$12.8	25	40.1

RISK	Technical	Economic	Commercial	Organisational	Political	Overall
Option 1	75	40	65	53	85	69.1
Option 2	90	70	65	80	55	74.4
Option 3	20	30	75	40	90	48.1



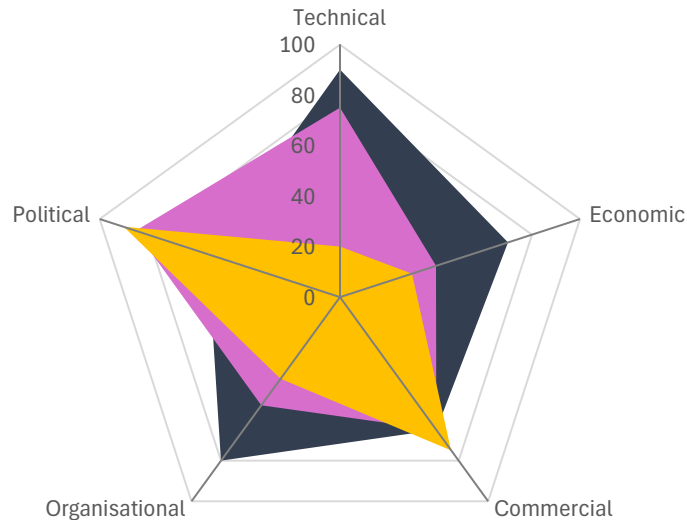
We have extensive experience in concept selection and scenario analysis with major operators in the Oil & Gas industry (including new energies, EoFL, and Decommissioning)

We can assist you by:

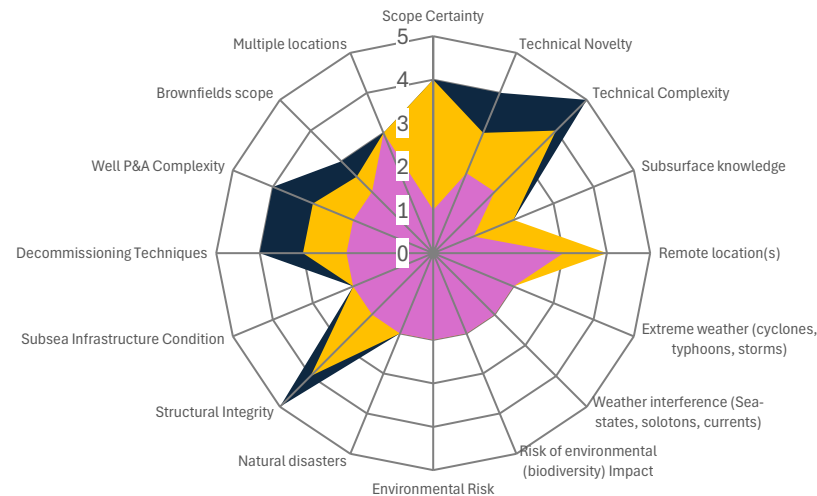
- Conducting Opportunity Framing sessions to define objectives, drivers, and trade-offs which will inform the final decision.
- Preparing and framing options to be evaluated. Preparing screening estimates, comparison schedules, scope, risk profiles, and economic analysis with NPV calculations.
- Comparing scenarios using our quantitative TECOP toolkit.
- Providing analysis and highlight points of difference between options and allow informed decisions.

In most cases the final decision is determined by the risk appetite of the company, key drivers, and what trade-offs they are prepared to make.

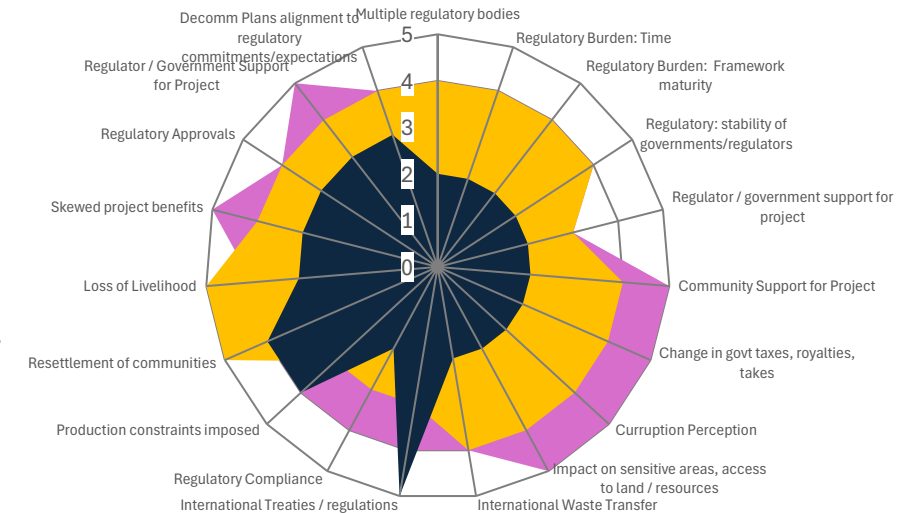
RISK APPETITE & TRADE OFFS



■ Option 2 ■ Option 1 ■ Option 3



■ Option 2 ■ Option 1 ■ Option 3



■ Option 3 ■ Option 1 ■ Option 2

- The TECOP toolkit quantifies the risk profile of all options across 200+ individual metrics.
- Alongside standard economic analysis our tools provide a great depth of information and actionable insights.
- Our analysis will provide detail on the main drivers along with additional details on individual metrics.

- In the example above there is a clear trade-off between Political and Technical risk. Option 2 has a low political risk profile but very high Technical risk. Option 3 by comparison is very low risk Technically but much higher Politically.
- Ultimately this decision comes down to trade-offs and risk appetite.
- We can help define the risks that are driving these scores and also work with organisations to manage risks down.



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