Setting up for Success

Challenges in Exploration and Project Valuation











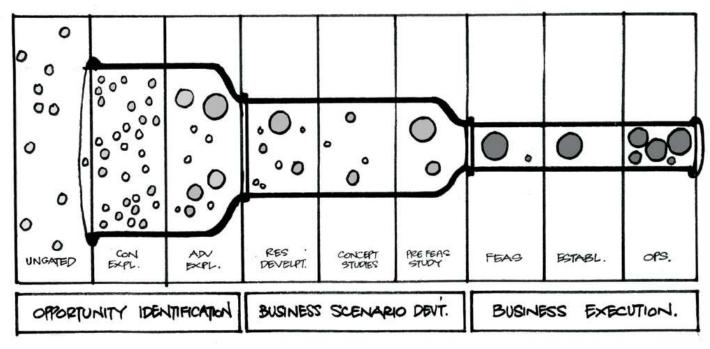


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Themes

- Companies want the best for their projects / shareholders
- Financiers want to maximise return on their investment
- Regulators want willing investors and market confidence

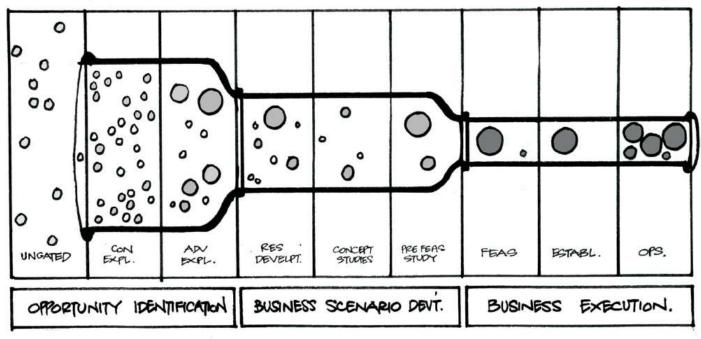
Exploration project pipeline



(Source: Jock MacNeish, 2006, Pipeline Management.)

Falling in love with your frog





Can your frog be a prince?

- Better technical understanding might just make your frog a prince
- Take time to understand the risks
- To provide a project value range



The unknowns...







Things you don't know

 Dealt with by reporting standards (e.g. Table 1 JORC)

What you don't know you don't know

- Unexpected?
- Rarely unique, but maybe not recognised
- Need to have seen a lot of frogs

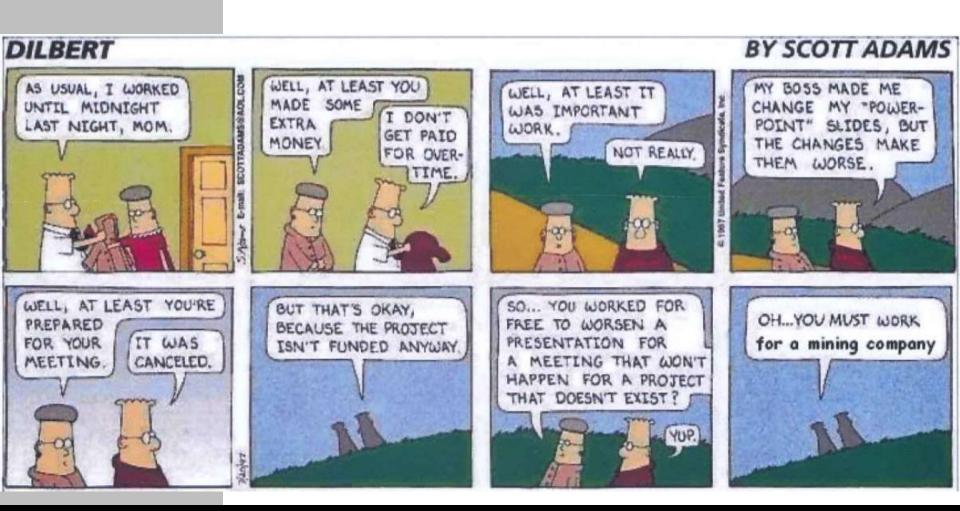
Successful exploration funding....

- Needs to support a large number of projects
- Not all are going to be successful
- Ensure funding is sufficient to properly test targets and understand the risks
- Recognises that discovery rates are low, but rewards are high

Exploration valuation challenges...

- Inherent variability across all stages, especially the early stages results in wide range of potential outcomes
- Market comparables are wide ranging, but so is exploration
- The market / company / shareholder don't like bad news, rework the valuation or move onto the next project...

Is this a success



Project Volatility (Uncertainty)

78% had problems in achieving design production levels, 33% of projects had production problems for more than 3 years.

Actual cash flow was below expectations in 67% of cases, 28% never achieving a positive cash flow (half of these cases due to reduced commodity prices).

Operating costs in 43% of projects were above forecast, 29% by more than 10%.

Recovered grade was below forecast in 68% of projects, by more than 10% in 56% of cases.

Gold production targets were not met in 66% of projects, by more than 10% in 56% of projects.

Project Volatility



is in achieving design production levels, ad production problems for more than 3



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n 43% of not

STANDARDS OF DISCLOSURE FOR MINERAL PROJECTS ין ojects, by.

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Technical Studies

Reporting Standards and can be onerous.

Doing the "right technical work right" is not.

It is fundamental to the project and improves the confidence in the valuation.

Makes Reporting and Due Diligence (for finance) easier.



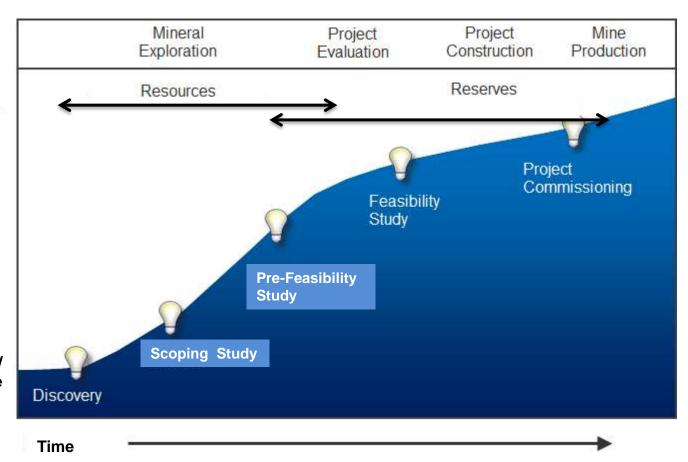
NATIONAL INSTRUMENT 43-101
STANDARDS OF DISCLOSURE FOR MINERAL PROJECTS

The right time to buy

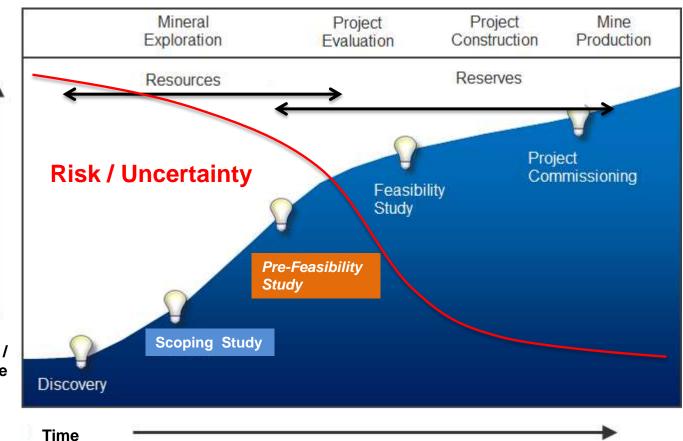
Value at each milestone to support the funding request to move to next milestone.

Value has a Range

Cost of work / Confidence in estimate



Progressive de-risking

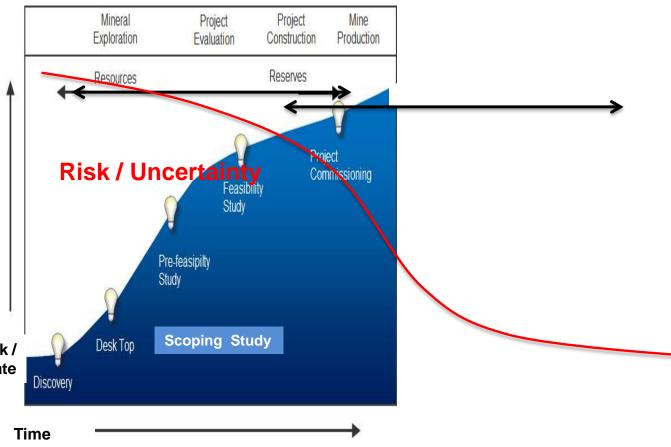


Cost of work / Confidence in estimate

The race to market

Be patient

Do the right work!



Cost of work / Confidence in estimate

Understanding the project (be ready for Due Diligence)

Follow a process

Ask right questions

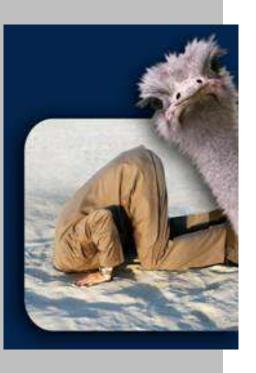
Minimise uncertainty

Techno-Economic model - NPV





Final Thoughts



Accept have to kiss frogs.

Understand the uncertainty valuation

Think about what you need to support funding request.

Reducing uncertainty takes time follow a process Investor, Project Owner, Technical team.

Don't be afraid of the answers Be prepared to reject

A Poem to Remember

Some mines make me happy,
Some mines make me blue;
But the one that gave me the most joy.
Was the one I sold to you.

Or should it read ...

"Was the one I bought from you."

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