

# Decision Metrics Assessment Tool - Requirements Document

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[24/10/2018]

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### 1. Executive Summary

The Decision Metrics Assessment Tool (DMAT) is used by Exploration to support the decision-making process by assessing and measuring the strengths and weaknesses of a proposed recommendation. The tool is used to evaluate an opportunity or a decision to be made against six key Exploration metrics prior to an EXAC proposal in order to assess the overall quality. The tool provides a simple, visual representation of strengths and weaknesses of the decision in the form of a radar plot.

The aim of this project is to provide a system to capture the decision metrics, display the assessment metrics details for a decision and visualize the metrics spatially against a captured opportunity or Woodside permit as a radar plot in the Competitive Insights System.

# 2. Project Description

The purpose of this project is to capture and store the DMAT information in a corporate information system. The current tool uses a spreadsheet and each decision's assessment is stored as a DRIMS document.

Storing the data in an enterprise system means that:

- the assessment can be viewed and analysed in relation to other pertinent information such as the opportunity or permit details;
- access is granted through a single system for all related information rather than using DRIMS access.

By capturing the DMAT details and providing the ability to query and visualize the information easily, this will ensure:

- Decision metrics assessment details are stored and versioned when a change is approved
- Data is readily accessible and available,
- Data is easily interrogated visually or through a report
- Information can be visualized as a radar plot against an opportunity or a permit
- Information can be visualized spatially against other spatial datasets

# 3. Project Scope

The project aims at capturing the DMAT data into a system that will allow Exploration management to evaluate and review the current and future state of a decision and quickly assess its strengths and weaknesses. The assessment will be done against an opportunity or a permit and will provide the user the ability to maintain, display, query and visualize the information as a radar plot.

#### 3.1 In Scope

The following areas are in scope for this project

- Capture the decision assessment details and calculate overall rating against an opportunity/permit for current and future state
- Provide for an audit trail for assessment that has been approved multiple times
- Provide the ability to query and display the assessment details

- Provide the ability to visualize both the current and future state ratings as an overlapping radar chart.
- Provide the ability to represent the decision assessment as a point in the centroid of the
  opportunity polygon or permit polygon with the radar chart as the symbology. The data
  is to be displayed as a layer in the CI Portal.
- Provide the ability to extract a Decision Metrics Assessment and export the data and radar plot as a report.

#### 3.2 Out of Scope

The following areas are out of scope for this project

- Ability to overlap multiple DMATs
- Ability to display the actual radar plot symbology on the map based on ratings for individual decision.

#### 4. Business Drivers

Exploration is initiating this project so as to:

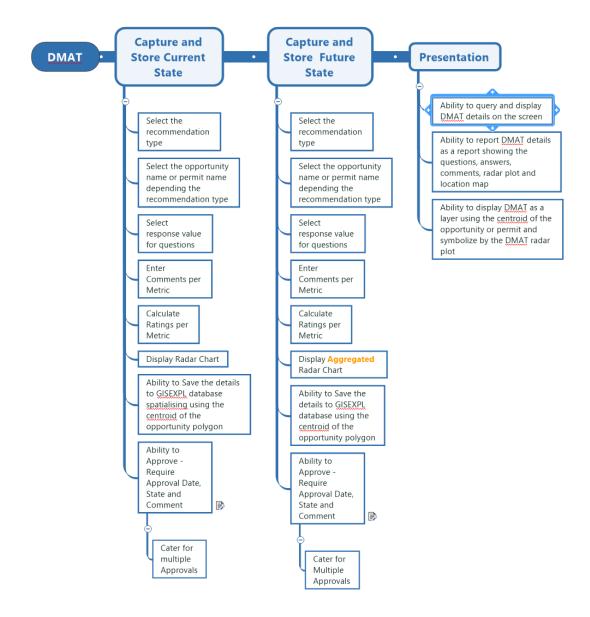
- · Improve capture of the decision making process
- Safe and secure data storage
- Reduce time to search for information
- Create a tangible audit stamp of when decision is final and why it was approved/declined.
- Single place to search for Opportunity, permit and decision-making process related to the opportunity/permit
- Have the ability to compare and contrast multiple decisions and conduct lookback analyses

## 5. Proposed Process

Currently the data is being entered manually in a spreadsheet and the radar plot is then generated based on the calculated overall metrics per theme.

The solution works fine but it means that each DMA is required to be drims'ed and somehow linked to the opportunity or held asset permit. Also, there is no way to view the radar plot on the CI Online Maps.

The new process is captured as below:



# 6. Functional Requirements

The current DMAT is a spreadsheet that can be found in WMS under the Explore Value Stream Business Activities.





#### Decision Metrics Assessment Tool: Template

The new system is to capture the details, ratings, results and comments for the themes and questions for the current state and future state. The system is to provide a radar plot for both current and future state that can be overlapped. The calculation for the ratings and the weightings can be found in the 'Do Not Touch PFS Working Sheet' in the spreadsheet (Refer Appendix 7.1)

The table below displays the ratings for the questions and themes based on the responses.

For example, a 'Yes' for Question 1 in the Strategy and Budget Theme is classified as a 5 as compared to 'No' which is classified as a 1. Once all the question for the theme is answered, the ratings are added and displayed as a percentage. The assessment result is based on the rating percentage per theme. The assessment result mapping is defined the worksheet above.

#### above.

Theme	Q1	Q2	Q3	Q4	Total	%	Result
Strategy & Budget	1	1	5	5	12	60	Strong
Exploration Portfolio Fit	1	1	4	6	12	60	Strong
Development Concept	4	4	8	4	20	100	Very Strong
Technical/Subsurface	5	5	5	5	20	100	Very Strong
Above Ground	4	4	4	8	20	100	Very Strong
Commercial	8	4	4	4	20	100	Very Strong

Example rating table for responses received

The Recommendation is required to be done against either an entity of opportunity or held asset.

Recommendation Type	Opportunity	Held Asset
Farm-in (Drilling)	√	
Farm-in (Seismic)	V	
Farm-out		√
Drilling		√
Seismic Acquisition		<b>√</b>
Relinquishment		√
Bidding	√	
Studies (JSA)	√	

If a recommendation type is against an opportunity then, the location point is defined as the centroid of the opportunity otherwise it is the centroid of the permit/s (the decision could involve multiple permits)

Additional information to capture is:

- Entity Opportunity name/Permit Name (For opportunity display the dropdown list, for permit, display the permit name).
- Decision Description,
- Approval Date,
- Approval state
- Approval comment.

The Approval state has the following dropdown values:

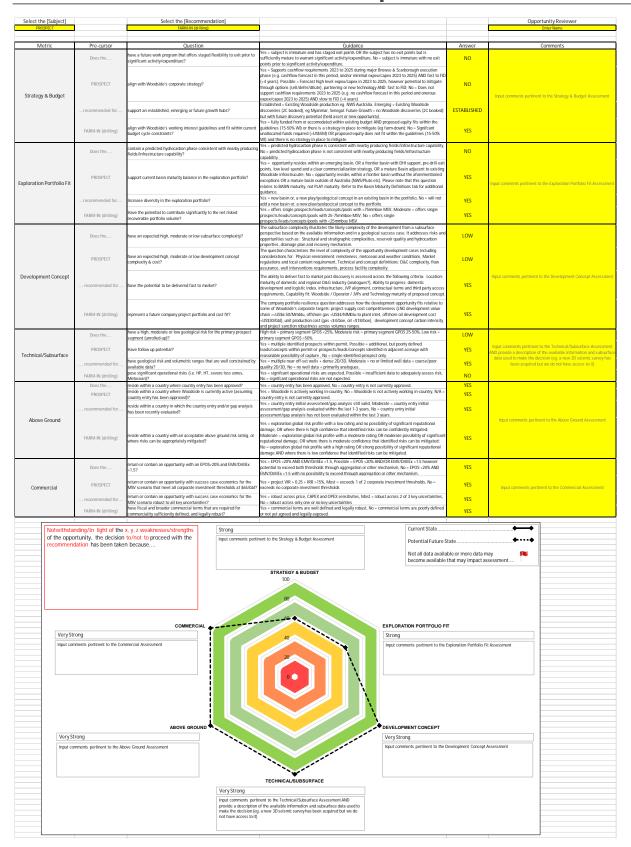
- KOKO
- EXRP Information
- EXRP Approval
- EXAC
- LookBack

The Approval Comment values are as below:

- Pre EXRP
- PRE EXRP Recommended
- Others

Once an assessment is completed and saved, the 'Current State' radar plot is to be displayed in the DMAT layer.

# **APPENDIX A: Example of DMAT**



# **APPENDIX B: Map showing the DMAT stamp**

