Integrated Resource Project Classification: a Sustainable Approach

Part of the United Nations Resources Management System

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Resource estimation requires three key disciplines:

- Commodity specialists
- Project and facility engineers
- Commercial specialists

Each discipline addresses different challenges in the assessment of the project resources.

A full understanding of the maturity of a project requires an understanding of each of these analyses.

Taken from Society of Petroleum Engineers (SPE) Petroleum Resources Management System (PRMS)
Input from the three disciples can be thought of as viewing the problem in a 3D view.

Each discipline can assess the project and its maturity can be described.

Thus, the barrier to a project progressing to the next stage of the capital value process (CVP) can be identified and addressed.
Defining maturity: Readiness factors

- Readiness is the potential of the project to cross the next level of maturity
- ESE readiness measures progress towards commitment and a final investment decision (FID)
- The CVP stage gates naturally fit with a project’s technical or physical construction feasibility
- A project will always be classed at a single point on the grid
  - If it appears to be at multiple locations, it likely means that the project is not ring-fenced and consists of more than one project
Define

Pre-Define

Execute

Technology Readiness Factors

Economic-Social-Environmental Readiness Factors

Project maturity classification

Commitment - FID

Barrier to resolution
Define
Economic-Social-Environmental Readiness Factors

Define
Pre-Define

Execute
Commitment - FID

Barrier to resolution

Technology Readiness Factors
Quantification is a bit different

- The axis is not a measure of maturity, but a description of the range of value
  - Monetary
  - Non-monetary
- Resource volumes, emission volumes, net present value, production profile, quantified impact on local economy (e.g. jobs) are some of the values that can be captured.
Consistent classification and management of all resources

The matrix can be used for any commodity - providing a consistent framework for the comparison of different projects.