Implementing the KOC Technology Portfolio Management*

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Abstract

Part of the KOC 2040 strategy is to realize value from technology by pursuing a value-driven approach to researching, identifying, developing and deploying appropriate core technologies and enabling technology solutions through investments, partnerships and technology transfer mechanisms. Maintaining an optimized portfolio is a key priority for R&T to deliver on KOC’s technology mandate. Accordingly, the Research & Technology Group launched a transformational journey to enhance KOC’s Technology Portfolio Management, with a focus on: Prioritizing the technology portfolio using a comprehensive framework, establishing a portfolio governance model and creating a dashboard to sustain portfolio performance. The technology portfolio engine incorporates different stakeholders to monitor, track and guide the technology performance in KOC. The stakeholders are able to use the dashboard to provide buy-in and guidance at a senior level, involving the assets in KOC linking it to the company's strategy, ensure the projects entering the portfolio are linked to future KOC and assets needs, allow continuous monitoring of ongoing projects and provide an opportunity to stop and revise troubled projects. Also, the engine creates an opportunity for an up to date review of the technology portfolio as a whole and align it with KOC strategy. It provides a constant source of visibility over the portfolio and its individual projects. The dashboard is monitored in different levels, on top of all is the KOC technology governance committee, the committee acts as a custodian, facilitator and operator of the KOC technology engine.

Building the technology portfolio engine required three work streams; work stream 1: establish KOC technology governance committee, work stream 2: operationalize portfolio management unit, and work stream 3: develop the technology dashboard and
maintain the efficiency of it. The technology dashboard was developed in house and the custodian for it is the portfolio management unit, with the main role promote it and serve it efficiently. The role is critical to ensure the sustainability of portfolio management, the technology dashboard and the technology community, helping steer technology management in the right direction to achieve its objectives through an enhanced portfolio, which would eventually lead KOC to implement the optimum technology solutions for its stakeholders, in a streamlined, robust and efficient approach.
Implementing KOC Technology Portfolio

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## 2030/40 KPC Strategy

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<tr>
<th>Core Business</th>
<th>Strategic Function</th>
<th>Enablers</th>
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<tbody>
<tr>
<td>Maximize the Strategic Value from Oil</td>
<td>Be an Employer of Choice</td>
<td>Strive for Excellence in Performance</td>
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<tr>
<td>Realize the Potential of Gas</td>
<td>Realize Value from Technology</td>
<td>Contribute to Enterprise &amp; State</td>
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<tr>
<td>Grow Reserves for a Sustainable Future</td>
<td>Strengthen our Commitment to HSSE</td>
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### KOC Strategic Objectives

1. Maximize the Strategic Value from Oil
2. Realize the Potential of Gas
3. Grow Reserves for a Sustainable Future
4. Be an Employer of Choice
5. Realize Value from Technology
6. Strengthen our Commitment to HSSE
7. Strive for Excellence in Performance
8. Contribute to Enterprise & State

### Diagram

- **Realize**: Improved performance is a key priority
- **Diagnose**: a diagnostic approach to further develop the portfolio
- **Build**: Detailed Technology Engine

50% of 2030 production is expected to be delivered through new technologies...
Research & Technology Portfolio Diagnosis

R&T Tomorrow
- Create transparency in the portfolio by separating non-core activities from R&T projects.
- Improve R&T decision making through systematic engagement of assets and leadership.
- Develop a value driven approach to project selection and build a central dashboard with robust information flow.
Research & Technology Portfolio Enhancement

TECHNOLOGY DASHBOARD
Provides a constant source of visibility over the portfolio and its individual projects

CHALLENGE MATURATION
Making sure the projects entering the portfolio are linked to future company and asset needs

MILESTONE REVIEW
Allows continuous monitoring of ongoing projects, provides opportunity to stop lagers

TECHNOLOGY GOVERNANCE COMMITTEE
Provides buy-in and guidance at a senior level, involving the assets and linking to strategy

PORTFOLIO REVIEW
Creates the opportunity to review the portfolio as a whole, and align with company strategy

PORTFOLIO MANAGEMENT UNIT
Acts as custodian, facilitator and operator of the Technology Engine
Develop the Technology Portfolio Engine

The Technology Dashboard acted as a magnetic force drawing in management, assets/customers, cluster leaders, and partners, creating a sustainable ‘Technology Engine Community’

The ‘Technology Engine Community’ comprised of members from across KOC, with TM driving and owning input and outputs – personified by the dashboard

The ‘Dashboard Community’ will meet periodically and use the Technology Dashboard along with a structured approach to evaluate project and portfolio performance

The Dashboard will used in key portfolio management events (e.g., challenge maturation, Milestone Review, Portfolio Review, Technology Governance Committee) for decision making and reducing bottlenecks

The Technology Dashboard provided visibility into TM portfolio and performance

The Technology Dashboard served as a central meeting and discussion point between and its stakeholders
Operationalize Technology Portfolio Management Unit

The Portfolio Management Unit is designed to serve as the custodian of the Technology Engine and ensure its sustainability.
Establish Technology Governance Committee

The Technology & Advisory Governance Committee's role is to provide strategic guidance, address key issues and strengthen relationships across KOC.
An efficiently managed portfolio of technologies, will have it’s proven results on the long term

Serving KPC/KOC 2040 Strategy