

# Implementing the KOC Technology Portfolio Management\*

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Search and Discovery Article #42227 (2018)\*\*

Posted June 11, 2018

\*Adapted from oral presentation given at GEO 2018 13<sup>th</sup> Middle East Geosciences Conference and Exhibition March 5-8, 2018, Manama, Bahrain

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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.



# **GEO 2018**

13<sup>th</sup> Middle East Geosciences  
Conference and Exhibition

**CONFERENCE:**

**5 – 8 March 2018**

**EXHIBITION:**

**6 – 8 March 2018**

**BAHRAIN INTERNATIONAL EXHIBITION & CONVENTION CENTRE**

## **Implementing KOC Technology Portfolio**

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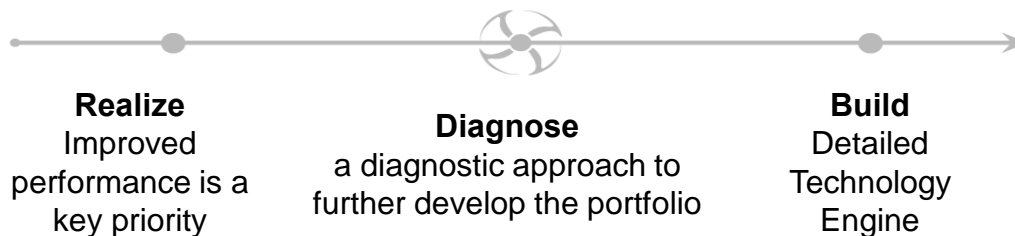
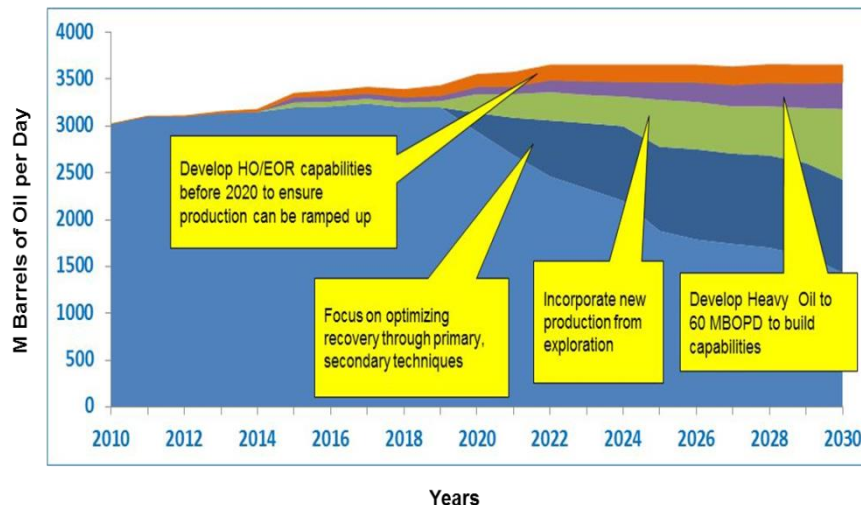
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A Subsidiary of Kuwait Petroleum Corporation



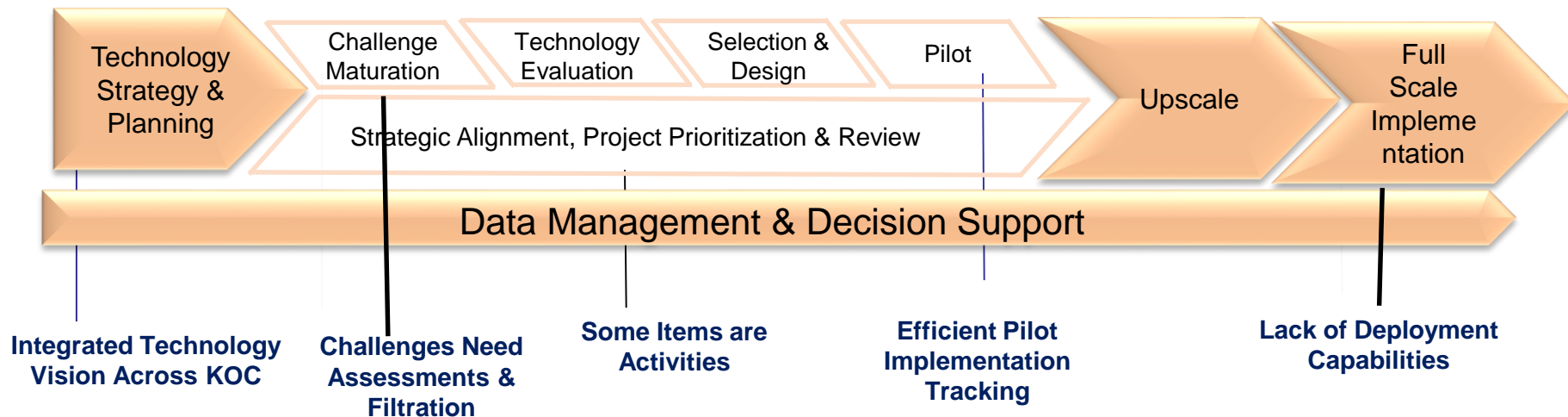
### 2030/40 KPC Strategy

50% of 2030 production is expected to be delivered through new technologies ...

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



## 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

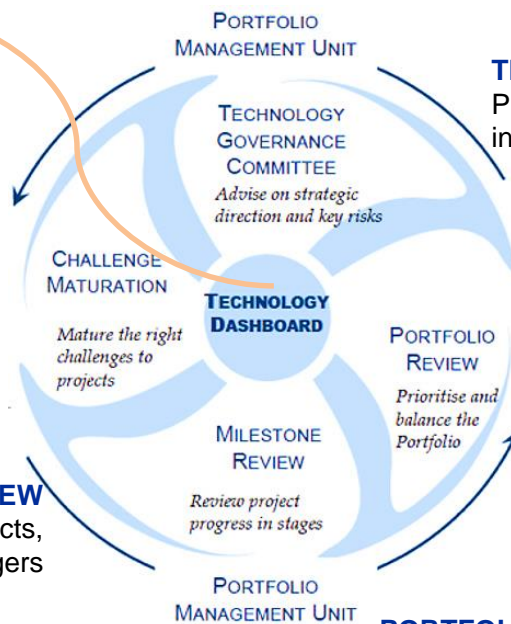
Provides a constant source of visibility over the portfolio and its individual projects

### 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

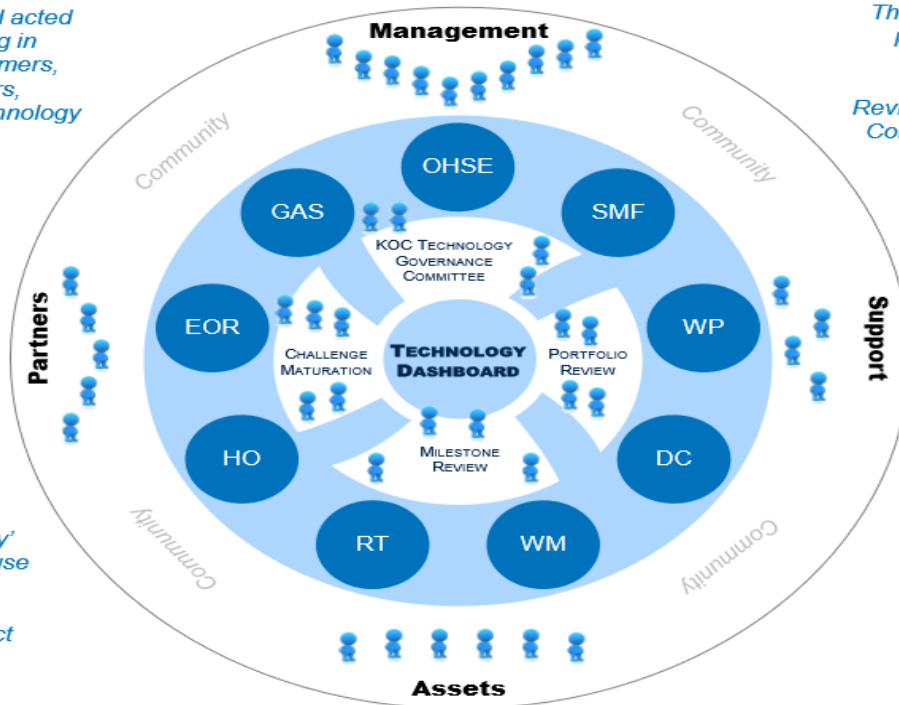
Acts as custodian, facilitator and operator of the Technology Engine

# 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*

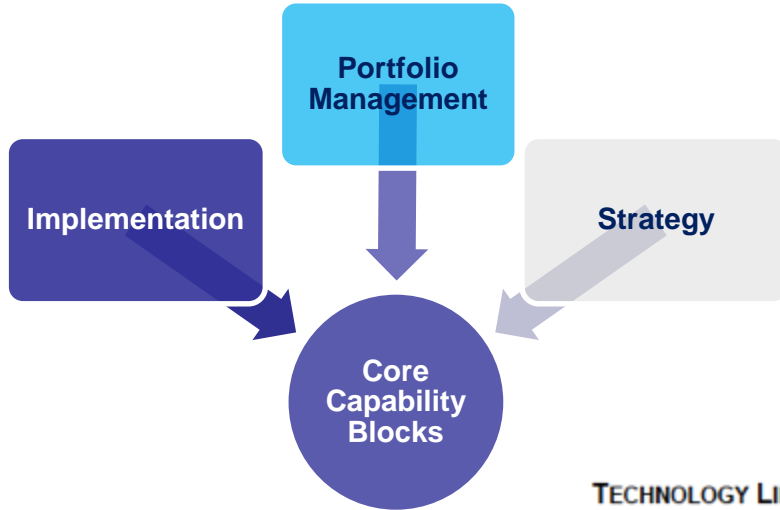


*The Dashboard will be used in key portfolio management events (e.g., challenge maturation, Milestone Review, Portfolio Review, Technology Governance Committee) for decision making and reducing bottlenecks*

*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



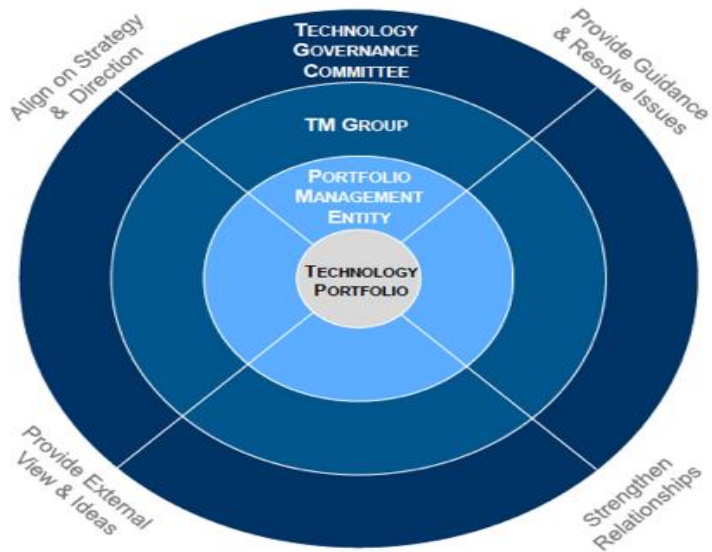
The Portfolio Management Unit is designed to serve as the custodian of the Technology Engine and ensure its sustainability

### TECHNOLOGY LIFECYCLE





## 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***