Under the patronage of **HRH Prince Khalid Al-Faisal**Advisor to the Custodian of the Two Holy Mosques & Governor 1 of Makkah Region



المؤتمر الدولي الثاني والعشرون لإدارة الأصول والمرافق والصيانة The 22nd International Asset, Facility & Maintenance Management Conference

Digitization - Excellence - Sustainability

Fostering Innovation Through Leveraging Disruptive Technologies Yazeed Al-Owaid

26-28 January 2025

The Ritz-Carlton Jeddah, Kingdom of Saudi Arabia

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Agenda Deployment Roadmap Objective **Success Stories** Culture & Leadership Metrics & Rewards Conclusion

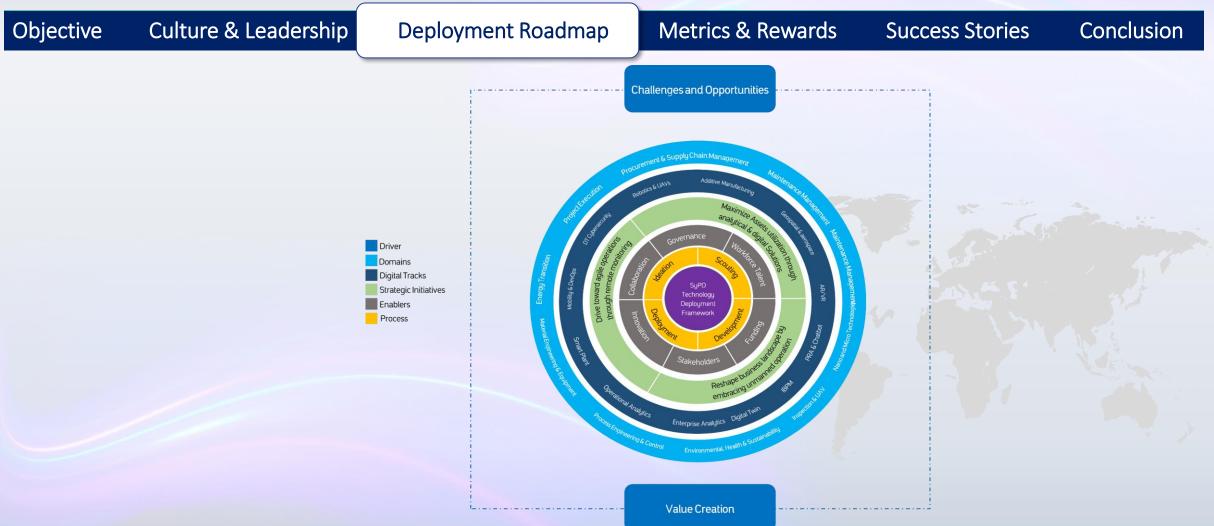






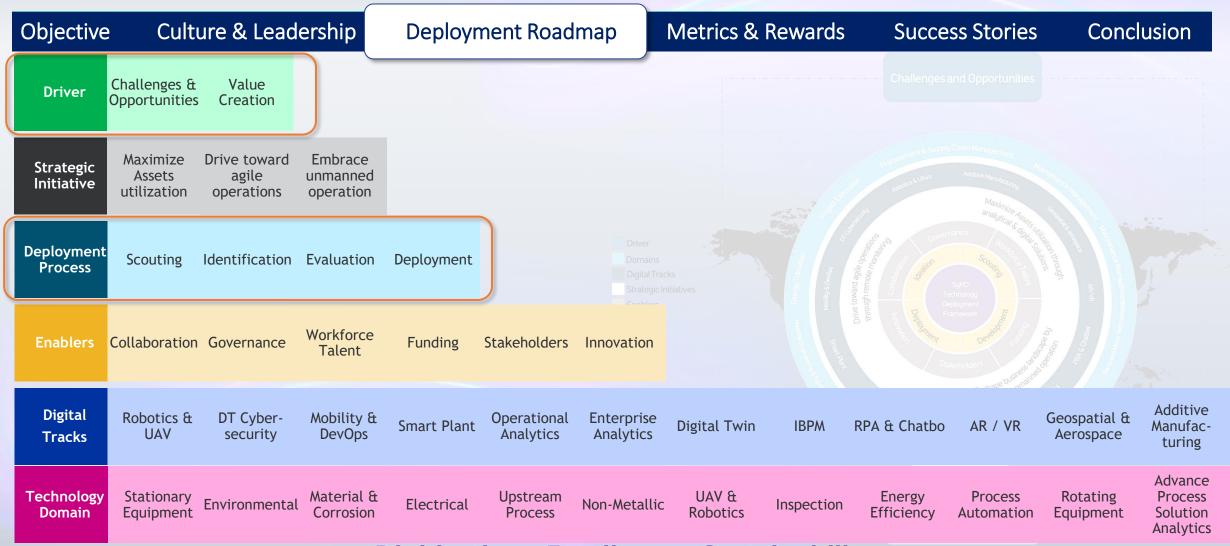






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Culture & Leadership Metrics & Rewards Objective Deployment Roadmap **Success Stories** Conclusion Challenges & Value Major Challenges Driver Opportunities Creation Assess the effective utilization of chemicals. Process Engineering & Control •Leverage the applicable technologies to automate the chemical injection at cost and qualitative approach. Value Creation • Flaring and emission minimization Environmental, Health & Waste Management Sustainability Efficiency & HSSE & Monetary • Managing pipeline integrity: inspection, leak detection, Sustainability Reliability Material Engineering & Equipment pipeline condition assessment ,repair, and non-scrapable buried pipelines. • Proactive approach through collaboration with corporate Inspection & UAV entities, vendors, and suppliers to leverage cutting-edge technologies to ensure asset integrity. Optimizing energy consumption through technology **Energy Transition** application, renewable and clean energy. • Rotating equipment life cycle, rotating equipment MTBF. Maintenance Management stationary equipment, aging, etc.



Culture & Leadership Objective Deployment Roadmap Metrics & Rewards **Success Stories** Conclusion **Deployment** Identification Evaluation Scouting Deployment **Process**

<u>Innovation Idea Deployment Life Cycle</u>



Technology Deployment Life Cycle





Objective

Culture & Leadership



Success Stories

Conclusion

Measuring Metrics & KPIs



| Performance Measures | Description |
|---|--|
| Employees Innovation Participation Rate (%) | (# Employees submitting Ideas) (#Employees) X100 |
| Innovation Excellence Index | The IEI is a composite index which measures the major components of organization's Innovation Ecosystem 0.1 * (Participation Rate (PR)/PR target) + 0.2 * (Review Rate (RR)/RR Target) + 0.1 * (Average Review Time (ART) < ART target) + 0.1 * (Approval Rate (AR)/AR Target) + 0.2 * (Implementation Rate (IR)/IR Target) + 0.3 * (Innovation Realized Value (IRV)/IRV target) |
| # of Filed Patents | # of Filed patents each quarter |
| # of Granted Patents | # of Granted patents each quarter |
| Technology | The TDI is a composite index which measures the following components |
| Deployments Index (TDI) | Planning: Number of Planned Technologies (%40) |
| | Execution: Percentage of Deployed Technologies (%30) |
| | Post Deployment: Value Realized from Technology Deployment (%30) |



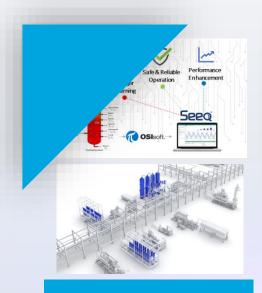
Objective

Culture & Leadership

Deployment Roadmap



Conclusion



Data Analytics & Digital Twin



AR / VR /MR



RPA & Chatbot



3D Printing





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THANK YOU!

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