Integrated Operations

Overview

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Integrated Operations (IO)

Definition

“IO is a continuous improvement operation enabled by informed decision making processes, utilising analytics, advanced modeling, automation & optimisation tools in engineering workflows, across multiple disciplines & locations, within a right-time collaborative working environment”
A Complex Beginning

How can an organisation leverage the aggregate value of all these assets?

• How do we capture the value across an organisation?
• What are the benefits and challenges of doing this?
• Is there a structured approach to help?
Broad Opportunity Landscape

- Green Fields
- Brown Fields

- Production Excellence

- Domain Integration

- IO Value Drivers

- Integrated Activity Planning

- Integrated Logistics

- HSE

- Kuala Lumpur
Enterprise Challenges

How to manage?

- Economic Feasibility
- Scalability & Sustainability
- Heterogeneous Technology Environment
- Common Guidelines
- Multiple Vendors & Suppliers
- Redundant Effort

Keeping it Simple
Standardisation Opportunities – Different Perspectives

Corporate Governance

- Enhanced Decision-making
- Roles, Operating Philosophy, Capability Development
- Automation, Workflows, Process
- Data Acquisition, Quality
- Infrastructure, Support
- Change Management

Digital Asset - A

Digital Asset - B
IO – A Business Transformation

‘Push’ Factors

Communication

‘Pull’ Factors

Sustained Engagement

Continuous Improvement

Value Realisation
Managing the Transformation Journey

- Delivering Capabilities
  - Training
  - Communications

- Transformation Handbook
  - Actions
  - Best Practices
  - Organisation

- Tracking Adoption
  - Metrics
  - Leadership Actions

Change *Introduced*

Change *Adopted & Integrated*
IO Delivering Value to the Field

1. Continuous Surveillance
2. Ensuring optimal lift
3. Contributing to safety
4. Leveraging automation and predictive analysis
5. Understanding production and shortfalls
6. Performing root cause analysis
7. Enabling better decisions - reservoir to facilities
THANK YOU