EPIM – By the Industry for the Industry - Information sharing across companies

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Wenche Havn
Overview

• To understand the EPIM initiative
  • TOTAL E&P NORGE – many licenses – complex relations
  • Joint Ventures (JV) and Licenses on the Norwegian Continental Shelf (NCS)

• What is EPIM – E&P Information management
• EPIM governance model and services
• EPIM dependencies on standards
TOTAL E&P NORGE AS – KEY FACTS (2012)

- Daily production 275 kboe/d (2012 average)
- 12% of the Total Group production
- Participation in 29 producing fields
- 108 licenses – 33 as operator
- 350 people in our Dusavik offices
The Martin Linge field development

- First discovery in 1975
- Resource estimate: 190 Mboe of recoverable gas/cond./oil
- Complex reservoir
- Development concept:
  - Wellhead platform and FSO
- Gas/condensate to St Fergus
- Oil treated, stored and offloaded
- Power from shore
- First phase includes 11 wells
- Cost est. 25.6 BNOK (2011)
- Start-up: 4Q 2016

PL040/043/043BS
TOTAL (op.) 51%
Petoro 30%
Statoil 19%
Licenses on the Norwegian Continental Shelf (NCS)

- **Area**
  - Quadrants
    - Blocks
  - License
    - 1 block
    - Part of a block
    - Several blocks
  - Awards
    - 1 or more companies
    - 1 operator
License and Operatorship

Responsibilities

- **Operator**
  - Perform decided activities
  - Information to
    - Authorities
    - Partners

- **Partners**
  - Participate in decisions
  - Share cost and income
  - Monitor the operator

Martin Linge: Licence 40 and 43, Quadrants 29 and 30
Blocks NO002906;NO002909;NO003004;NO003007

All parties in the JV share the responsibility for a sound operation according to rules and regulations
Basic Operational Framework on NCS
The EPIM story

By the industry, for the industry
Facilitating solutions and services for the oil & gas industry through standardization of terminology, formats, requirements and processes.

• Organization
  • Non-profit
  • constituted Nov. 2007 (legal entity)
  • Owned by NCS operators

• Key figures
  • 13 services
  • Used by 150 companies

• Objectives
  • New services driven by industry needs
  • Provide Efficient collaboration
  • Not compromise competition
Delivering business value for its members and other stakeholders through quality processes & solutions
EPIM Governance Framework

**Defining needs and controls investment**
- EPIM General Assembly
- Articles of Association
- Board of Directors
- EPIM members companies
- EPIM Domain Advisory Board
- EPIM solution reference groups

**Governance framework**
- Approves Annual budgets & provides funding
- Establish strategy and governs investment & progress
- Membership agreement
- Establish long term domain strategy
- Establish functional requirements & responsible for solution acceptance

**Facilitating development & operations**
- EPIM Administration
- Implement strategy & Governance framework
- EPIM solutions
- Budgetary framework & control
- Information is accessed through secure cloud based hubs

- Award contracts
- Execute projects
- Monitor progress
- Operate solutions
- Supplier management

**Consumer of services & solutions**
- EPIM members
- Authorities
- Partners
- Industry stakeholders
EPIM- Enabler for information sharing
Owned and managed by the operators on the NCS
E&P Information Management Association (EPIM)

EPIM solutions based on the GIM standard

ILAP interoperability at its simplest
What benefits have the operators experienced?

- Improved governance
- Improved Information sharing
  - Simple
  - Controlled
  - Secure
- Easy Access
  - Secure
  - Flexible
  - Available (24/7)
- Can handle many formats

Focus on Information Security – ISO2700x series
EPIM involvement in standardisation bodies

PCA is a non-profit global member organization with focus on lifecycle data integration and interoperability through the Generic Information Modeling (GIM) standard (ISO 15926) and W3C recommendations.

The GIM standard is methodology standard that can be used for data integration and interoperability of any data from any domain:
- Industrial
- Commercial
- Public sector
Why we think EPIM is a best practice?

• Use the collaboration platform to:
  • Improve information quality and flow
  • Share cost
  • Develop and share best practices

• Do not jeopardize
  • Information security
  • Competition between companies

Some solutions are now made available for international use through a vendor
Thank you for your attention
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