

SME Innovation Forum 2009

- 08:30 – 08:45 “Introduction of the work-shop” by Arild N. Nystad and Vidar Hepsø, StatoilHydro

Integrated Environmental Technologies for improved competitiveness and new business opportunities

StatoilHydro



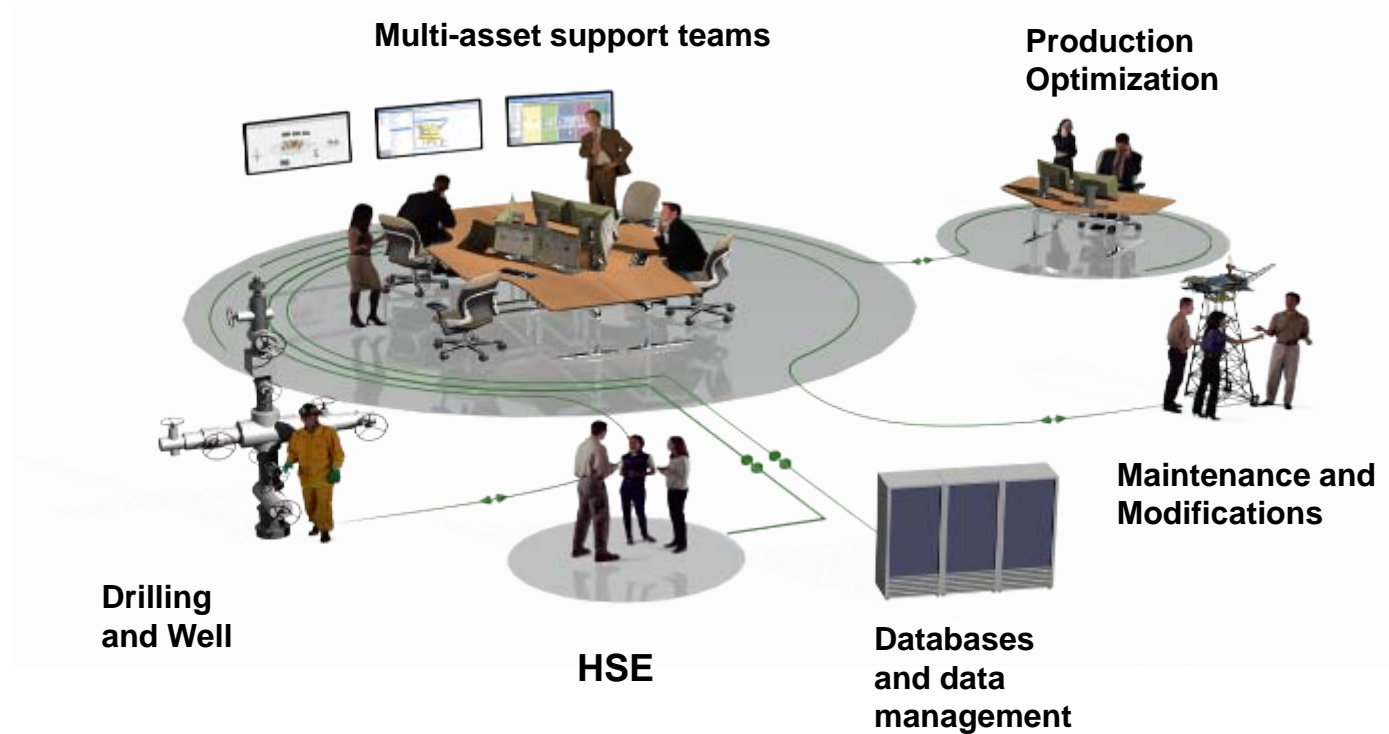
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Scope of the SME-day

- Discuss how suppliers and oil companies can cooperate to meet the challenges of proactive environmental monitoring and control by deploying the ideas of integrated operations.

Integrated Operations in StatoilHydro

IO is the integration of people, processes, and technology to **make and execute better decisions quicker**. IO is enabled by the use of real time data, collaborative technologies, and multidiscipline work flows in a work process



IO and Environmental Monitoring

- Reference Model

- The StatoilHydro reference model for Integrated Operations is our starting point for developing an architecture for integrated environmental monitoring.

- Current status

- Solid track record in safe operation
- What is available in the market today at the various layers of the reference model?

- Future ambition

- What do we need in a future architecture for proactive, real time environmental monitoring?
- What can various industry players contribute with and collaborate to supply in this model?

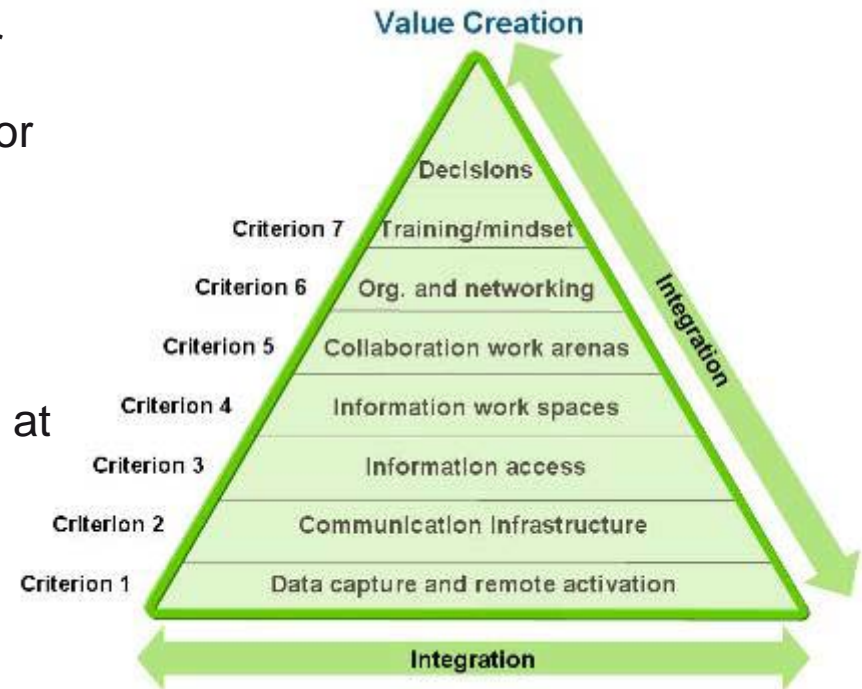
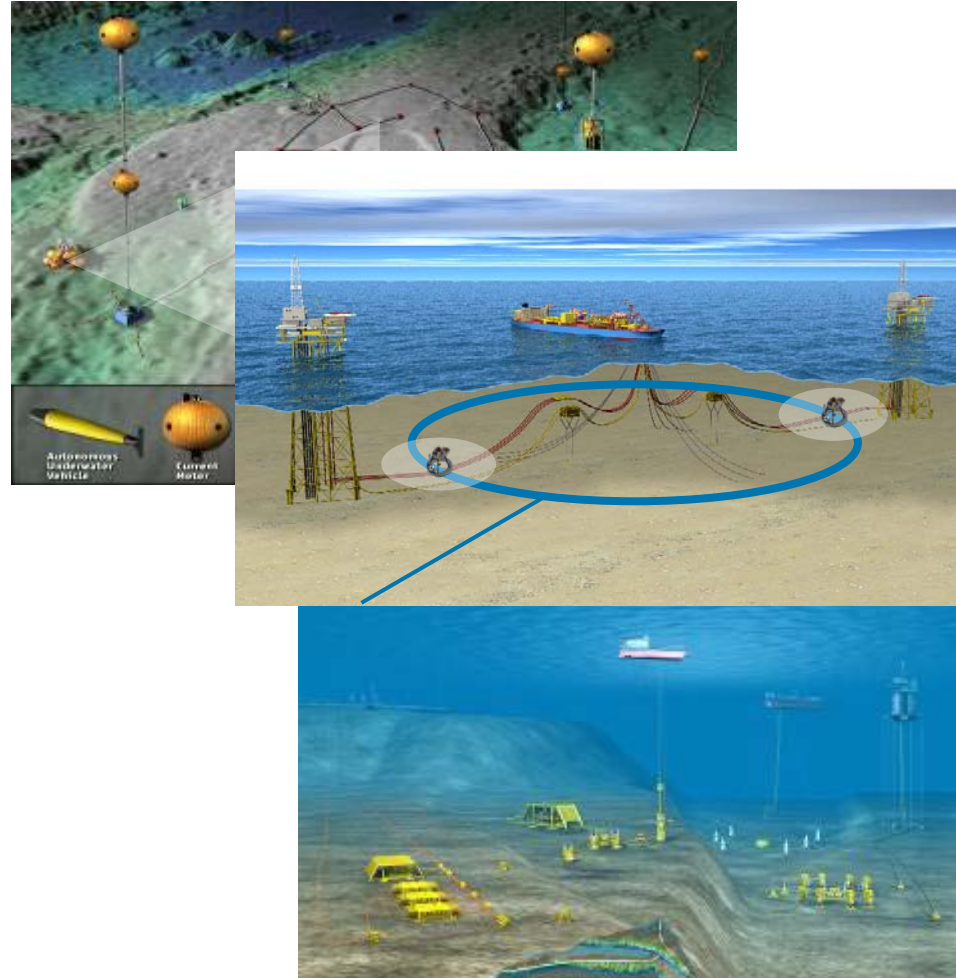


Figure from StatoilHydro advisory document, GL0372, Integrated Operations Guidelines

New opportunities - a paradigm shift for tomorrow's environmental monitoring

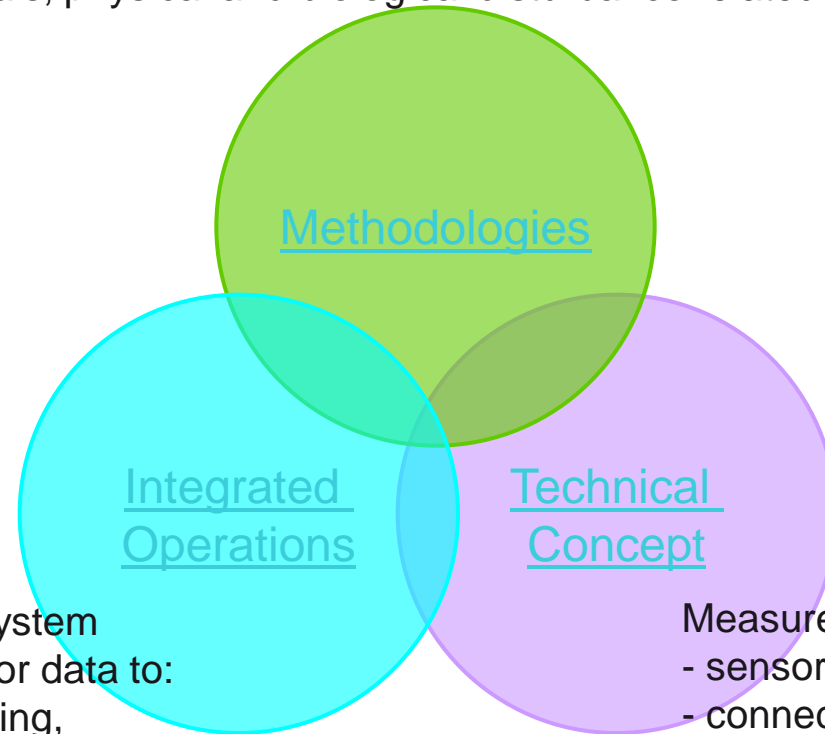
- Methodologies
 - Multi sensor data
 - Visual characterisation
- Real-time measurements
- Optimising benefit through multidisciplinary approach
- ➡ Flexibility to perform environmental monitoring and risk management



Right-Time Environmental Management

Identify:

- environmental risks
- area and compartment possibly affected by the activities
- chemicals, physical and biological disturbance related to the activities



Building an internal system combining multi sensor data to:

- improve understanding,
- documentation and
- management of environmental impact

Measure impact & natural variation

- sensor technology
- connect to existing infrastructure

Plenary; Panel discussion: “IO and Environmental Monitoring – where are we and where do we go from here?” Moderator Vidar Hepsø, StatoilHydro

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