

# Collaboration Onshore/Offshore at ConocoPhillips Norway

A Look Behind the Scenes in an Onshore Operations Centre (OOC)



# **Speaker Presentation**

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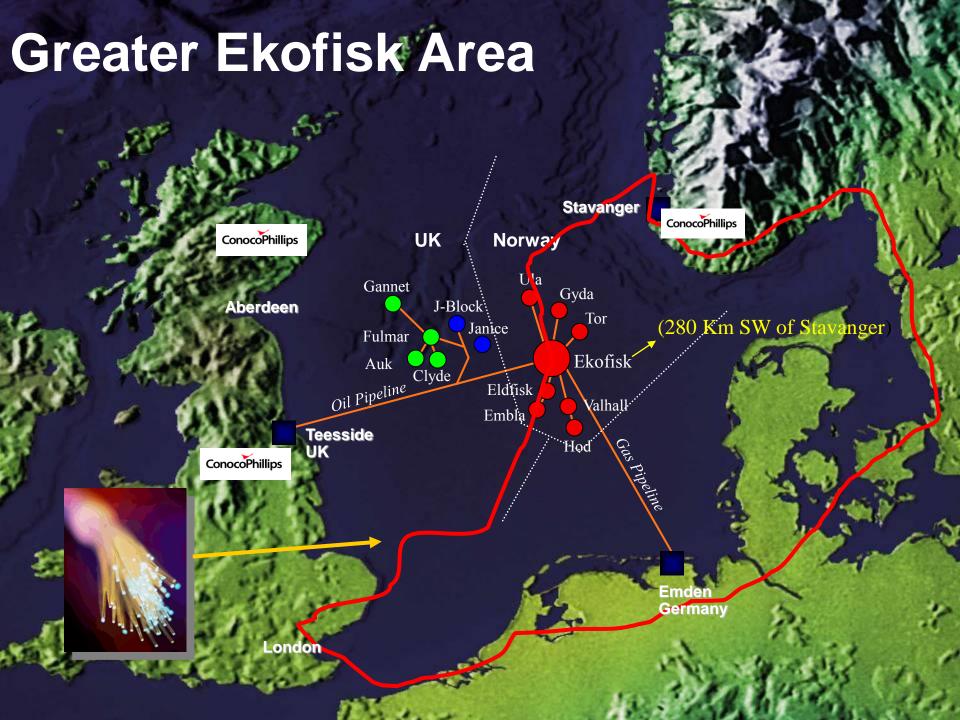


- Co-speakers:
  - Børre HeggernesCTO, Amitec AS (Norway)
  - Mike PurcellDirector of process industriesOmicron (USA)









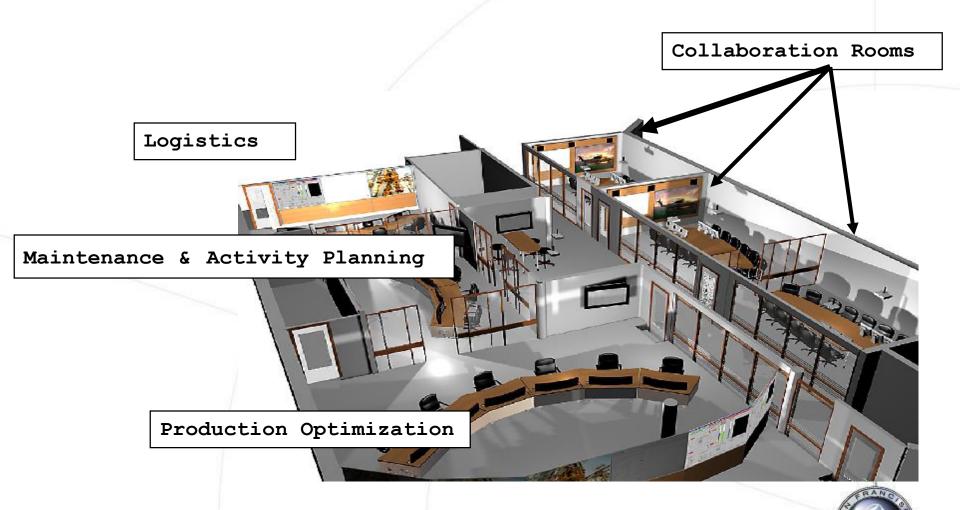


# The Onshore Operations Center

- Greater Ekofisk Business Center has implemented integrated operations work processes, and established:
  - Onshore Drilling Centre (ODC) in January 2003
  - Onshore Project Centre (OPC) in December 2003
  - Onshore Operations Centre (OOC) in December 2004.
- Tracked benefits exceeds total investments 15x



# **The Onshore Operations Center**



#### **OOC Video**

• 2 min video showing OOC in action

#### **Collaborations & Tools**

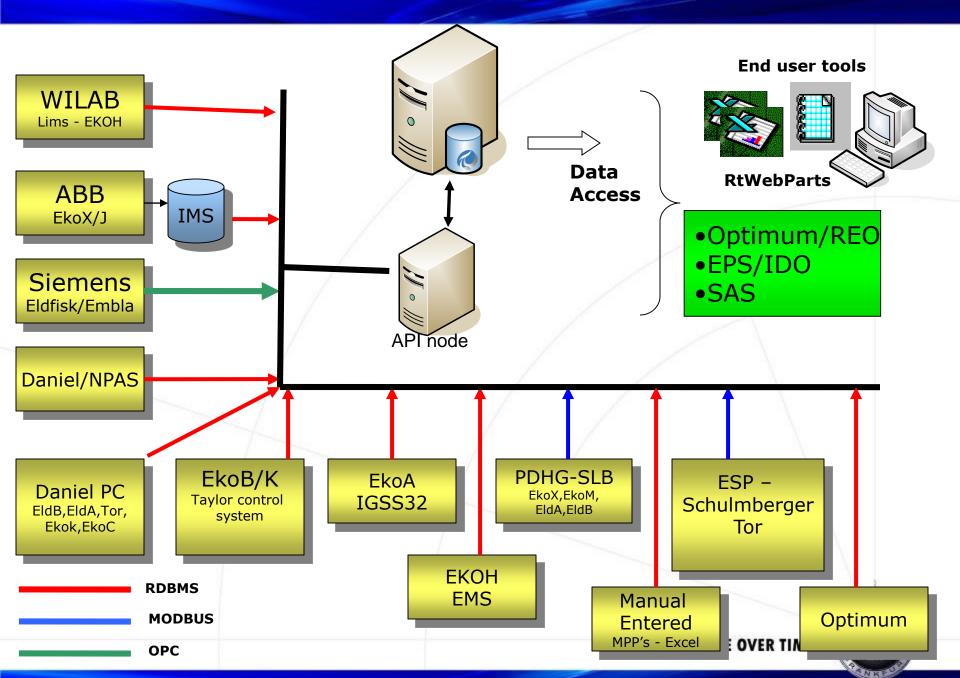
- Integrated operations is based on the application of collaborative work processes and tools to facilitate:
  - Real-time information sharing, collaboration and decision making between onshore and offshore organization, and
  - Real-time interaction with other global COP offices and third parties.



### Systems and Products used

- 10K PI Enterprise server
  - ACE/DAP
- Approx. 100 PI-PB users
- RtWebParts
- SAP
- BI products from SAS Institute
- ...and many others...





# The Colibri Project



- One of the tools in OOC
- POC in Nov -05
- Production Deployment 2Q2006
- International team
  - Customer/Amitec (local VAR)/Omicron

OSISOFT USER CONFERENCES 2006

#### The Vision of Colibri

- Collaboration between onshore and offshore
- Achieving production, maintenance and efficiency targets
- Automated real-time warnings on condition monitors and alerts
- Consolidated views into real time production and maintenance data
- Leverage existing technology platforms such as Microsoft Sharepoint and OSIsoft tools

# Challenges

- Budget cycles and approval processes
- Positioning of RtPM vs. Other on-going software projects at COPNO
- Gain access to key personnel
  - Always busy



# Colibri Key Functionality

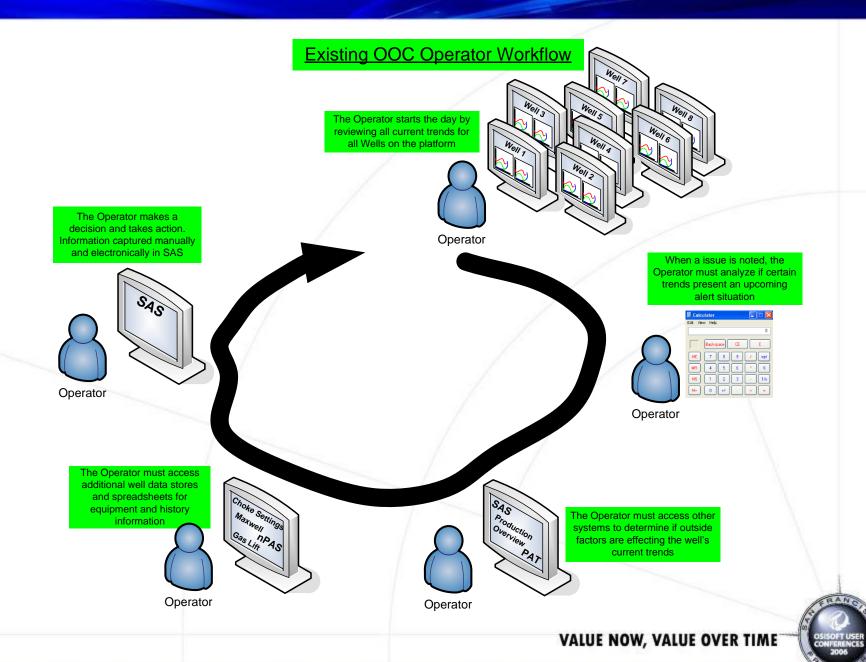
- Real-time Collaboration
- Real-time Data Updates In a Browser
- Web-Based Comments/Annotations
- Consolidated Alerting and Alarm
- Integrated and Contextual Views of Equipment Data



#### Colibri Users

- OOC
- Offshore Operators and Supervisors
- Field Engineers
- Process Engineers
- Maintenance



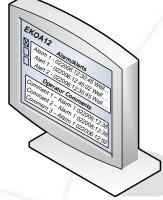


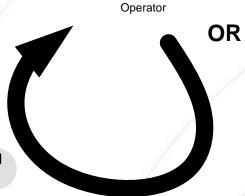
#### Future OOC Operator Workflow

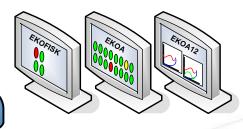
The Operator starts with an overview of the platforms in a field, and quickly drills down to only the problem wells

The Operator makes a decision and takes action. The Alarm/Alert is acknowledged and comments added. Information is captured electronically and sent to SAS

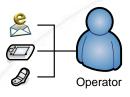








The Operator receives a message from PAT or COLIBRI with directions to the specific well with an alarm or alert

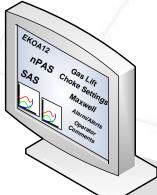




The operator has access to all relevant data specific to that well from one page in COLIBRI



Operator



Alarms and alerts will evolve to warn Operators about potential situations which can be corrected before a problem occurs

#### **DEMO**

- What you will see:
  - POC only. Production environment to be deployed before summer 2006

#### **Lessons Learned**

- Importance of consistent enterprise realtime platform
  - Single version of the truth
  - Simplified topology/architecture
- Microsoft SPS works today. Version 3.0 (Office 12) will be even better
- Work processes around technology are often missing

# **Tangible Benefits**

- Maintenance and modifications improvement
- Avoiding equipment failure
- Avoiding production loss due to better combination of work
- Increasing daily production through better planning

R TIME CONTENENCES

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