Kostnadseffektivitet og redusert utslipp – Kan digitalisering bidra til å nå målene?

Arendal | 14. August 2019 | Pål Skogerbø



Hvem er vi og hva har vi å komme med?

- Global utstyrleverandør innen boreløsninger og -tjenester
- 1500 ansatte i 15 ulike land
- Hovedkontor i Kristiansand



Hva er utfordringen?

Boring etter olje og gass er:

- Ineffektivt
- Dyrt
- Forurensende

≈50% ≈10%

av alle investeringer på norsk sokkel er borekostnader

av klimagassutslipp på norsk sokkel kommer fra boring





Hva er potensialet?

Vi og bransjen tror det er potensiale til effektivisere med 30-50%



- Hvor mye kan man spare på en brønn? Et nøkternt eksempel:
 - Riggrate på 250.000 USD
 - CO2 utslipp relatert til diesel forbruk ≈125mT pr dag
 - 30 dagers boreoperasjon
 - 30% reduksjon av brukt tid

> 2,2M\$

> 1000 mT CO₂

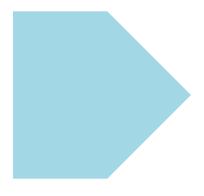




ABS-bremser på en rigg?

- ABS-bremser
- Automatisk lukeparkering
- GPS
- Osv.









Det digitale laget som åpner opp





Eksempler på automatisering

Eksempel på Smart Moduler i operasjon



DrillTronics

Utviklet og eid av Sekal



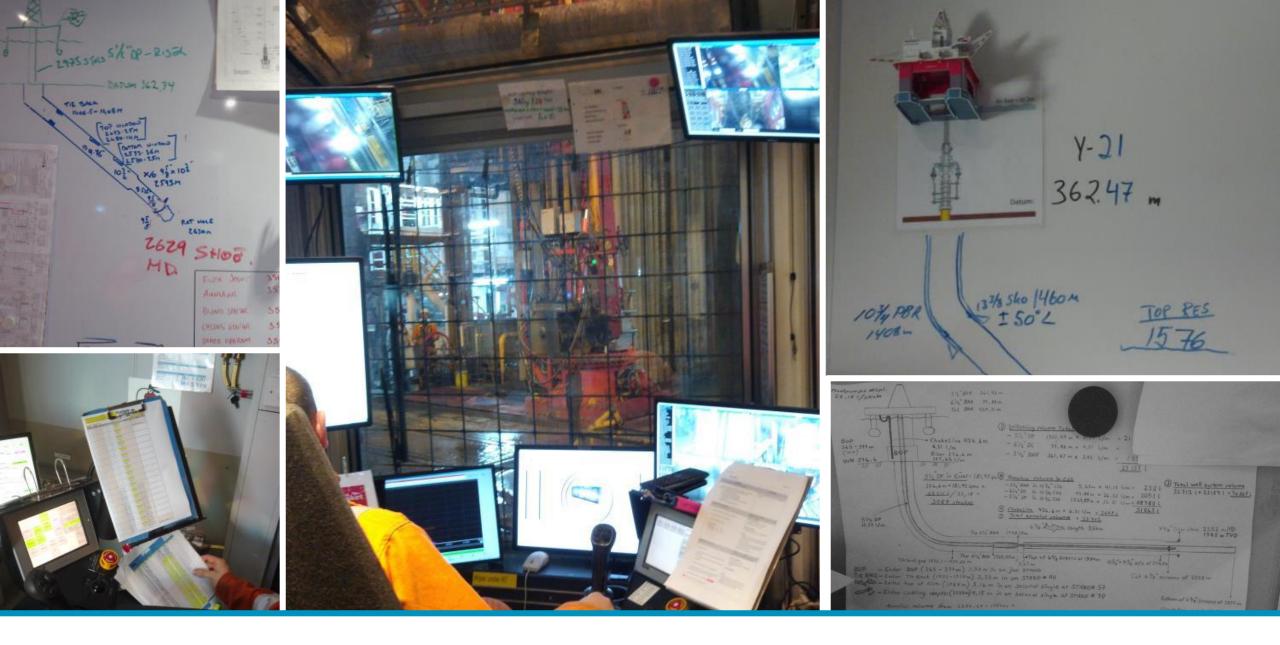
CADS

MHWirth smart modul

















beAware™

COLLECTING, PRESENTING AND SHARING OFFSHORE OPERATIONAL INFORMATION

Resultater av automatisering og digitalisering



 Økt effektivitet gir stor kostnadsreduksjon og redusert klimautslipp på grunn av mindre tid brukt



Større forutsigbarhet



Reduserer risikoen for menneskelige feil



Tryggere og sikrere



Copyright and Disclaimer

Copyright

Copyright of all published material including photographs, drawings and images in this document remains vested in MHWirth and third party contributors as appropriate. Accordingly, neither the whole nor any part of this document shall be reproduced in any form nor used in any manner without express prior permission and applicable acknowledgements. No trademark, copyright or other notice shall be altered or removed from any reproduction.

Disclaimer

This Presentation includes and is based, inter alia, on forward-looking information and statements that are subject to risks and uncertainties that could cause actual results to differ. These statements and this Presentation are based on current expectations, estimates and projections about global economic conditions, the economic conditions of the regions and industries that are major markets for MHWirth AS and MHWirth AS' (including subsidiaries and affiliates) lines of business. These expectations, estimates and projections are generally identifiable by statements containing words such as "expects", "believes", "estimates" or similar expressions. Important factors that could cause actual results to differ materially from those expectations include, among others, economic and market conditions in the geographic areas and industries that are or will be major markets for MHWirth's businesses, oil prices, market acceptance of new products and services, changes in governmental regulations, interest rates, fluctuations in currency exchange rates and such other factors as may be discussed from time to time in the Presentation. Although MHWirth AS believes that its expectations and the Presentation are based upon reasonable assumptions, it can give no assurance that those expectations will be achieved or that the actual results will be as set out in the Presentation. MHWirth AS is making no representation or warranty, expressed or implied, as to the accuracy, reliability or completeness of the Presentation, and neither MHWirth AS nor any of its directors, officers or employees will have any liability to you or any other persons resulting from your use.

MHWirth consists of many legally independent entities, constituting their own separate identities. MHWirth is used as the common brand or trade mark for most of these entities. In this presentation we may sometimes use "MHWirth", "we" or "us" when we refer to MHWirth companies in general or where no useful purpose is served by identifying any particular MHWirth company.

