DIGTIAL PROCEDURE

Implementation Experience

Wintershall Dea Norway

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wintershall dea

AGENDA

- Innovation cycles
- WD D&W digital strategy
- Digital procedure implantation on TNG
- Experiences.... So far
- What's next



IMPLEMENTATION OF NEW TECHNOLOGY

INOVATION CYCLE



CHALLENGES – IMPLEMENTING NEW TECHNOLOGY



IMPLEMENTATION OF NEW TECHNOLOGY

SUCCESS CRITERIAS

- 1. Long term collaboration with common visions and goals
- 2. Effective and quick adaption/decissions during implemetation
- 3. Strong user involvement in developement & implementation
- 4. Right level technology matureness



WHERE DO WE WANT TO GO?



WHY DIGITAL PROCEDURE IN WD

- Seamless DOP distribution across the operation
- Increased situational awareness offshore/ onshore
- Less paper administration on the rig
- Better Revision & access control
- DOP library and ease of reuse
- Data integration possibilities
- Tag on Contractor strategy





Keystone update

IMPLEMENTATION PLAN

TNG Startup GO live!

Keystone selected vendor

2023

OPEN 2.0

IMPLEMENTATION CHALLENGES

- User interface/ friendliness onshore
 - Initial cumbersome workprocess
 - Loss of procedure overview
 - IT vs. engineer thinking Object vs. List
- Offshore issues
 - Bugs
 - Loss of procedure overview
 - User access multiple vendors visibility
 - Signing
- Editor to Executor bugs
- Paper culture



IMPLEMENTATION MITIGATIONS

- Structured Keystone/ Transocean collaboration status meeting (3 parties)
- User feedback loop and follow up
- User involvement/ ownership superusers
- Improve fast
- Implementation
 - Coaches onshore/offshore
 - Leadership buy in
 - Procedure Transformation support

VALUE CREATION



WAY FORWARD... THIS IS ONLY THE BEGINNING!

NOW	NEXT STEP	POSSIBILITIES	FUTURE
		Automated DOP proposals	
Paper less Driller cabin	Paperless rigs / tablets on deck	Automated EOW reports	
		Automated Operators DDR	
Onshore digital DOP	Simplified invoice process		
	Auto timelog annotations	Auto logistics planning	Automated Drilling
	Gapping plann <mark>ed vs. actual</mark>		Dritting
Shared Situational awareness	Integrated trip risk log	Automated Drillers report	
	Global timestamp		
	Semiautomated drilling reports	Auto programming of drilling machinery	

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