

Shaping the future of digital requirements and information management in oil and gas value chains

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> Standardization session, 30 August 2022: Standardization accelerates value creation in the Oil and Gas Sector – Energy transition









Problem statement

Too many documents

Changes take long time

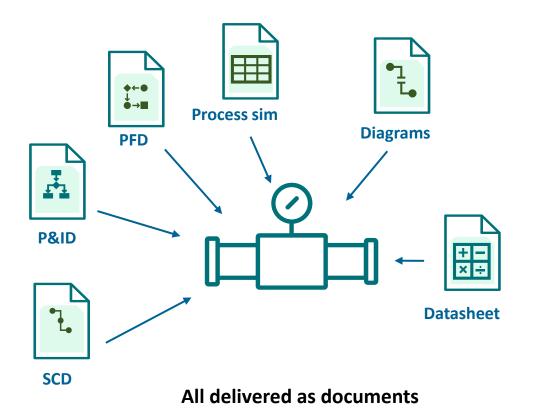
Difficult to share information and data

Lack of standardization

Lack of analyzing possibilities

No automation possibilities

Lack of prediction abilities





Strategy for the Oil and Gas industry – realization of Konkraft* recommendations

Digital transformation of business processes for field development and operation

We need a **common digital language and framework** enabling efficient flow of information between disciplines and work processes

* KONKRAFT is an arena for cooperation between the key parties in the Norwegian oil and gas industry





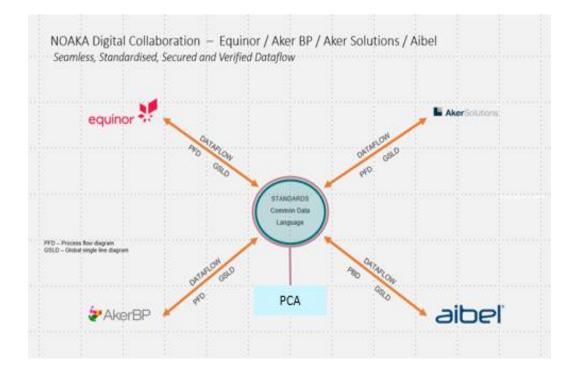
Interoperability enablers

Basic needs of industry standards

- Standardizes information requirements
- Std. asset breakdown structure

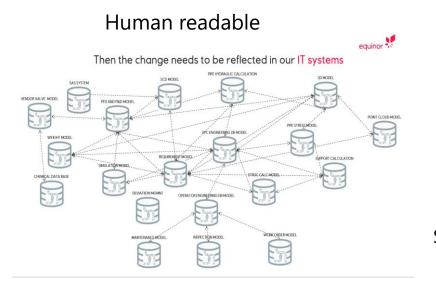
The digital language

- Information modelling principles
- Machine-interpretable vocabulary
- Standards data exchange (I4.0 AAS)





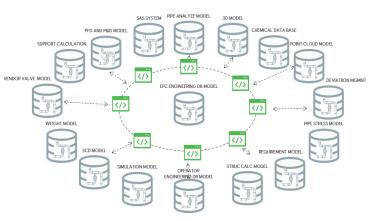
How to get there?



What does it take

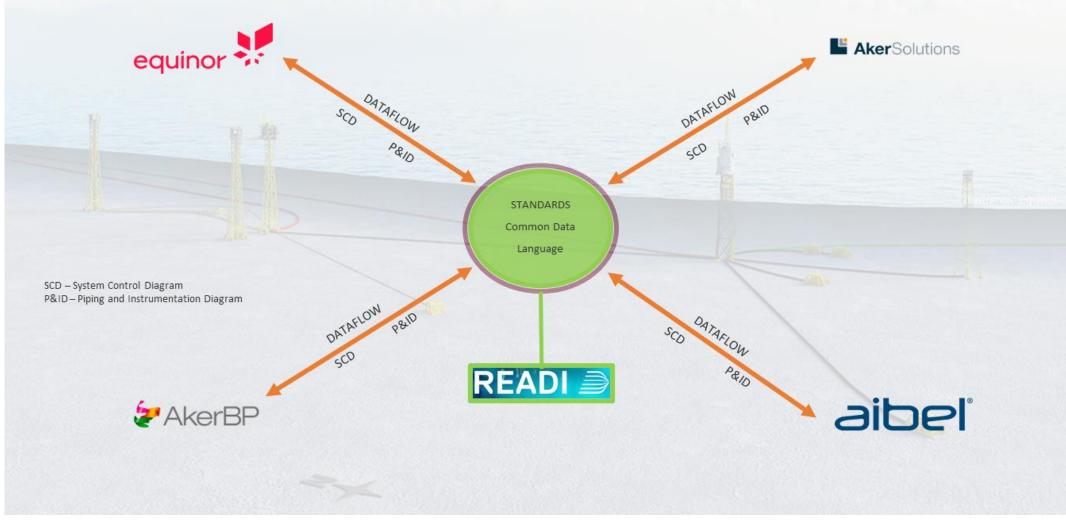
Industry standard Common digital language Common digital requirements Seamless & standardized dataflow

Machine readable

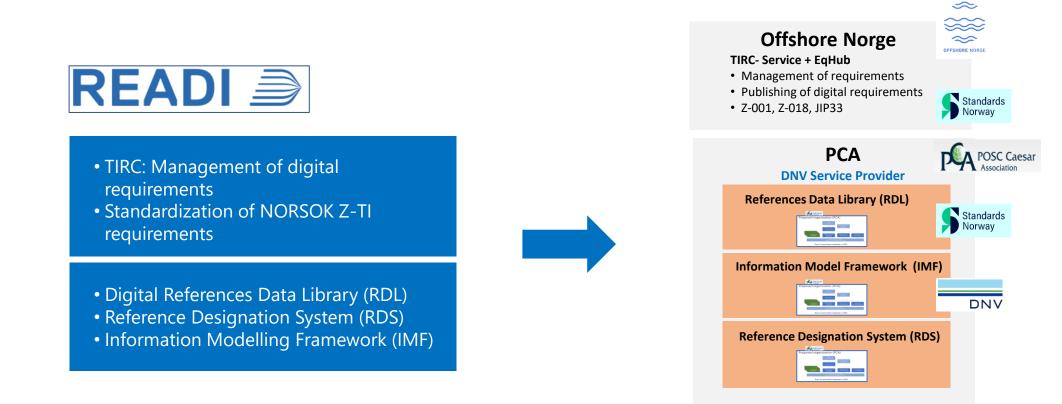




NOAKA Digital Collaboration – Equinor / Aker BP / Aker Solutions / Aibel Seamless, Standardised, Secured and Verified Dataflow



READI - Way forward Publishing of the digital platform across industries



Together with industry partners



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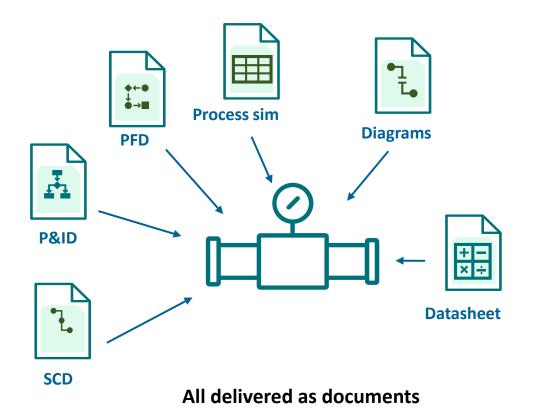
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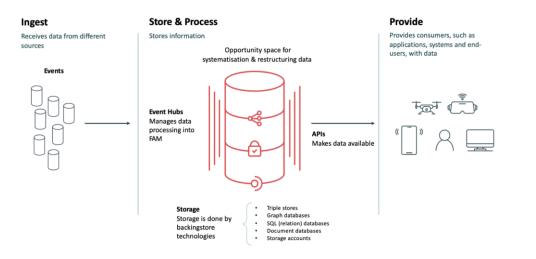
What does it mean for the Project development

				Document onented			
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C232-AI-R-RA-00004_0	C232-AI-R-DS-00003_0	C232-AI-P-XA-50001-0	C232-AI-P-XA-27001-0	C232-AI-P-XA-00020-0	C232-AI-P-XA-00011-0		
C232-AI-P-RA-00019_0	C232-AI-P-RA-00007_0	C232-AI-P-RA-00001_0	C232-AI-L-XF-00004-01	C232-AI-P-DS-00003_0	7. F 7. F 7. F 7. F 7. F 7. F 7. F 7. F		

Document oriented

One tag for a 1st stage compressor suction cooler, A-27HA001, has relations to and is mentioned in 18 documents.

When the tag changes, you must update the tag and the associated data in each of the 18 documents.



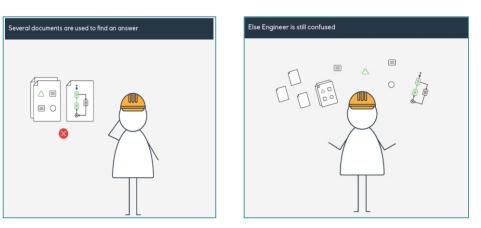
Data oriented

Asset information models are project deliverables.

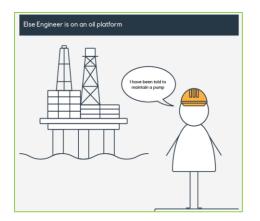
The Asset information models are an independent single source of information, giving consumers access to the correct version of relevant information.

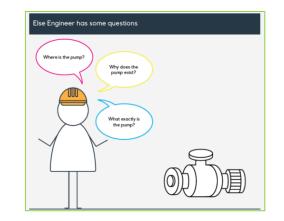
Company Asset information models are built on industry standards, enriched with knowledge and always up to date.

What does it mean for operation



Document oriented

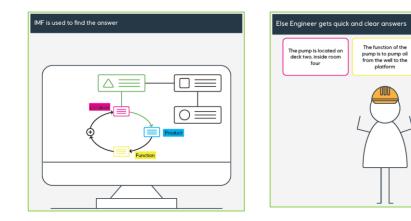




Data oriented

The pump, as a

product, is an asset made of pipes, steel,



Typical end users



Projects:

• Suppliers, contractors and operator engineers doing engineering, procurement and completion, project leaders

Maintenance:

• Maintenance engineers in developing maintenance programs, planning and executing maintenance

Operation:

• Production engineers, operators on- and offshore

IOC:

• Optimization engineers

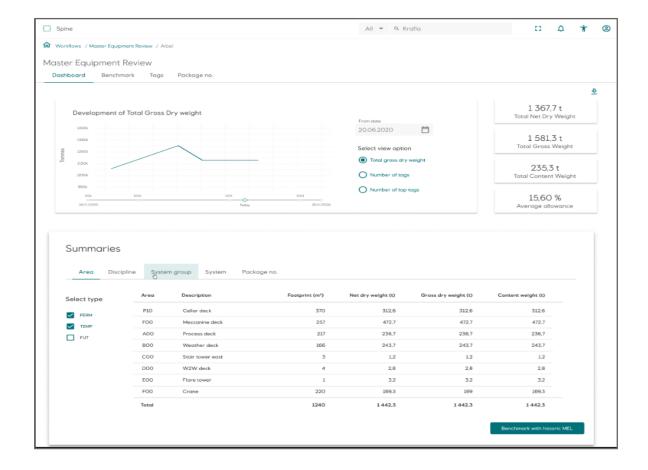
Technical integrity:

• Technical Integrity engineers, managers



From MEL in Excel to MEL app

ject:							Platform:	-		o not dele 7 or modif				Date		
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	cc	M		20V005					20		skidfjsokfji			M13	-	
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	cc	M		20V008					20		skidfjsokfji			M17		
	cc	M		20V009				1	20		skidfjsokfji			M18		1
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	сс	A		20V011					20		skldfjsokfjl			M20		
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	CC	Mezzanine deck Process deck			269 209	18 5	287 214	423070 243884	18340 8350	441410 252234	486524 295744	21091 9603	507615 305347	50750 72300	0	50750 72300
	CC	Weather deck			61	76	137	151828	65570 1200	217398 1200	174602 0	68371 1380	242973 1380	0	20000	20000 0
	CC	Stair tower east W2W deck			13	0	13	4700	0	4700	5405	0	5405	15000	0	15000
	СС	Flare tower Crane			12	0	12	2675 175300	0	2675	3076 201595	0	3076 201595	0	0	0
	CC	000			37	2	39	29000	400	29400	33350	460	33810	0	0	0
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		A	Project management and Procurement Architect and building Drilling Electrical		(m2) 0 0 0 262 0 0 0 55	(m2)	P Footprint total (m2) 0 0 0 0 282 0 0 0 55	Net Drg Veight PERM (kg) 200 0 0 289652 0 0 0 0 50140	Net Drg Veight FUT/TEMP (kg) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veight total (kg) 0 0 289652 0 0 0 0 50140	Veight PERM (kg) 0 0 0 349700 0 0 0 57655	Veight FUT/ TEMP (kg) 0 0 0 0 0 0 0 0 0 0 0 0	Veight total (kg) 230 0 0 349700 0 349700 0 57655	Veight PERM (kg) 0 0 0 0 43450 0 0 0 0	Veight FUT/ TEMP	Veight total (kg) 0 0 0 43450 0 0 0 0
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Sum-up

- Digital Asset Information Model(IMF)
- Digital Language (PCA RDL)
- Industrial standardized Exchange format (i.e I4.0 AAS)





Acknowledgements / Thank You / Question

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