



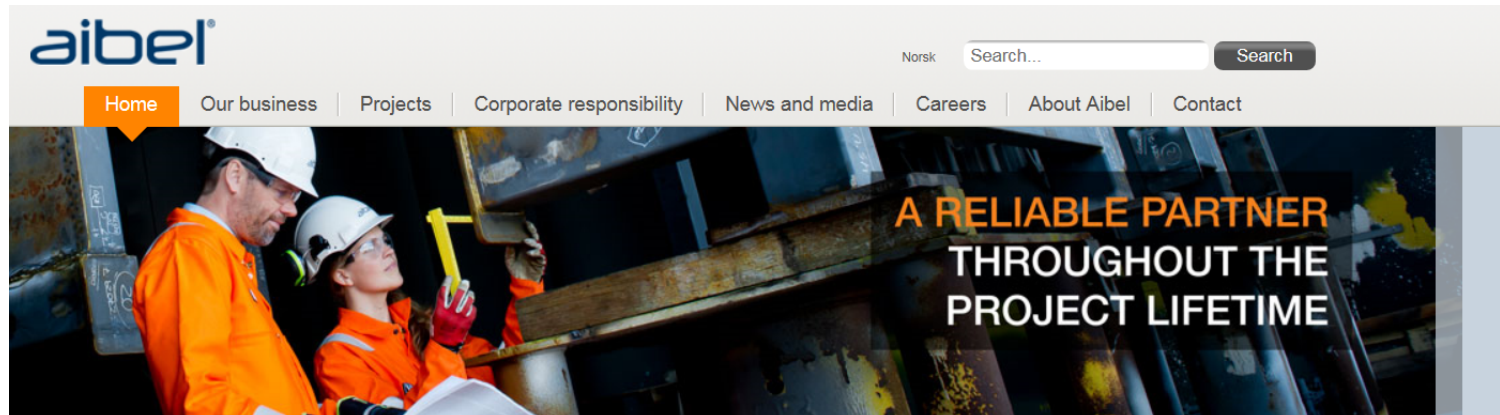
MMD – ISO 15926 and W3C

November 2016

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Aibel

<http://aibel.com/en>



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**A RELIABLE PARTNER
THROUGHOUT THE
PROJECT LIFETIME**

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Smart solutions resulted in success



Aibel recently handed over the Oseberg C Continuous Drilling project to Statoil - below cost, ahead of schedule, with the right quality and without injuries.

Aibel awarded the KIP job



On behalf of operator Gassco, Statoil today awarded Aibel a large scale upgrading job at the Kårstø facility. The contract is worth about NOK 200 million including the options.

Planned down to the last detail



All considerations were taken into account when a new section – the heaviest ever hoisted in the North Sea Hall – was installed on the drilling support module for the Sverdrup platform this week.

Aibel won Dvalin



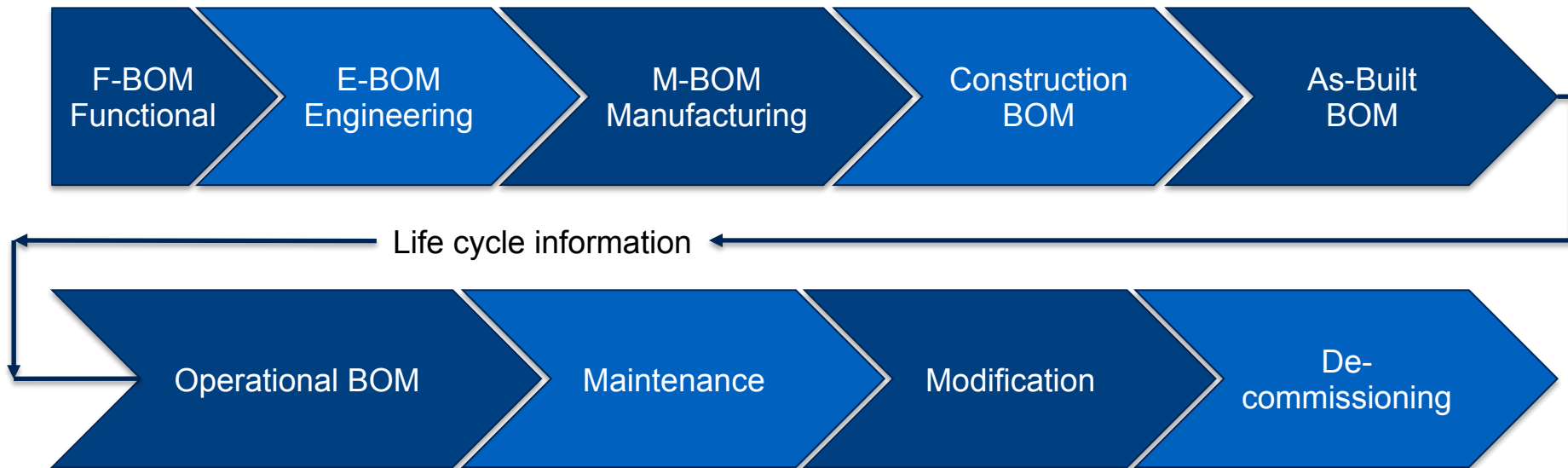
Today Aibel was awarded the modification assignment to ready the Heidrun platform to receive the production from the Dvalin field (formerly Zidane).

<http://in.aibel.com/inside/inside.nsf/menulitem.xsp#!ID33442563507003F8C1257E0A0033C5A1>



Product Life Cycle Management

- One asset
- Multiple phases
- Multiple participants



* BOM = Bill of material

Current industry

- Contractual documents PDF
- Regulatory requirements PDF
- Industry standards PDF
- IT Application specific catalogues lacking global classification



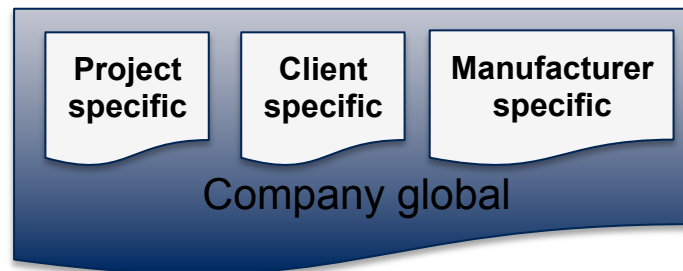
Semantic transformation

- Ontology supported applications.
- Semantic classification of plant data
- Project execution supported by semantics



Aibel Industrial Ontology

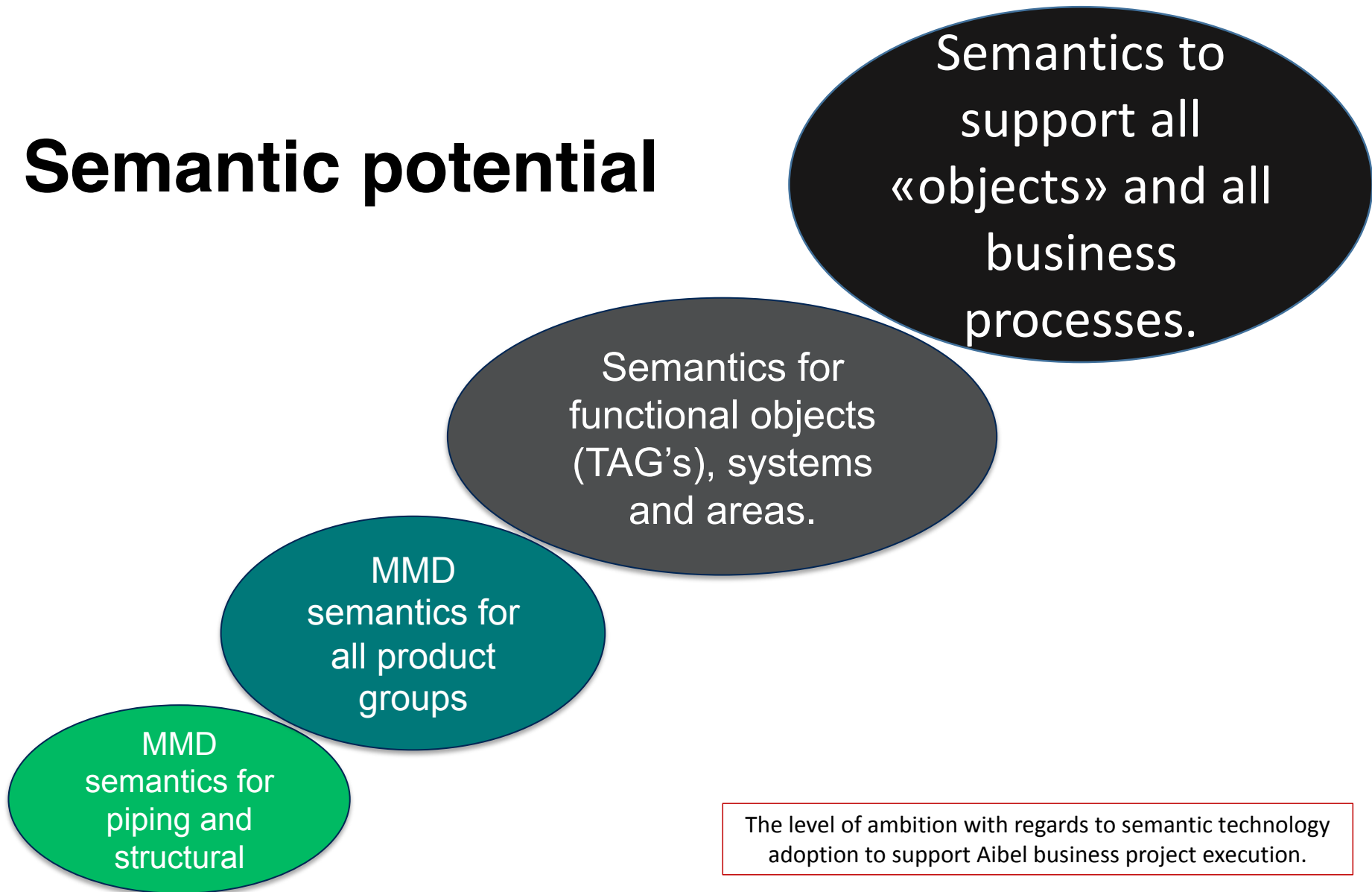
- The MMD Ontology contains process plant relevant classifications and relations.
- The Ontology is source for Aibel Material Master Data object classification.
 - Material master records.
 - No record duplicates.
- Aibel Material Master Data
 - MMD is a creator of classifiers for use in business applications.
 - Classifiers are used in plant design business applications. (Register data)
 - Objects classification may be reused to support plant operation and maintenance.



Industrial ontology prerequisites

- Ontology creation and maintenance;
 - Dedicated domain experts.
 - Ontology development experts.
 - IT infrastructure experts.
 - Business process experts.
- Durable ontology consistency and quality.
 - Modular to support maintenance.
 - Modular to manage extension into new domains.
 - Modular to enable selection of a relevant range ontology modules.
 - QA process supported by semantic reasoning.
- Applications supported by the ontology.
 - Machine generated classes reflecting project / plant requirements.
 - Machine generated classes extend the ontology.
 - Classified object used in legacy applications.
 - The same classification in all applications.

Semantic potential



The level of ambition with regards to semantic technology adoption to support Aibel business project execution.

«Object» include classification of activities, resources, procedures, records, periods in time.

aibel[®]
energy to perform