DEEPWATER DEVELOPMENT

28 - 30 March 2023 | Millennium Gloucester Hotel |

London, UK

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World Oil®

Agile Subsea Production System Demonstrates the Value of a Standardized Approach for Operators

Leading the change to a streamlined, inter-Operator driven product portfolio

Kevin Kappes, OneSubsea Senior Customer Standardization Engineer

Kaitlin Haymaker, OneSubsea Senior Internal Standardization Engineer

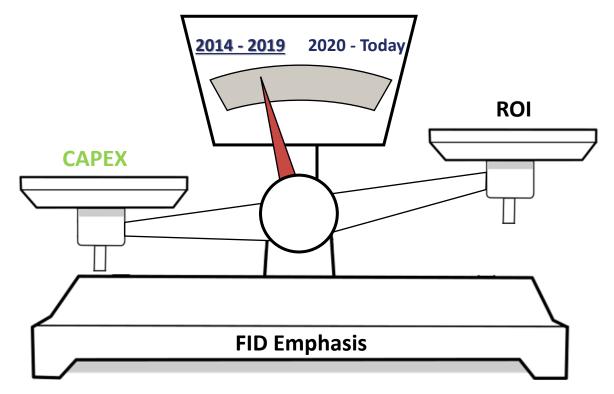


Where We Are Today | FID Landscape

Minimized CAPEX

Restricted expenditure due to depressed oil market

Focus shifted to Supplier-Led Solutions to achieve this



Accelerated ROI

Schedule predictability is of importance due to volatile supply chain

Underpinning of Supplier Standards with emergence of new Industry Specifications

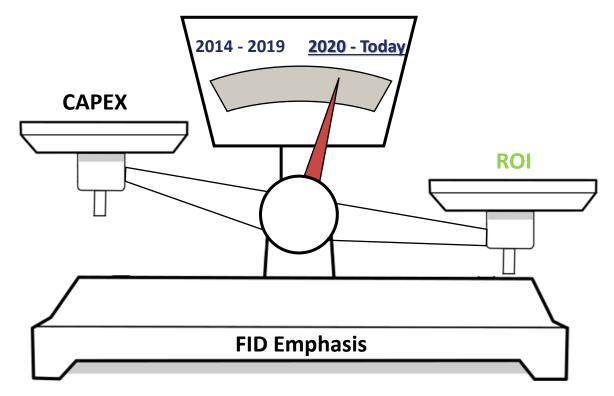


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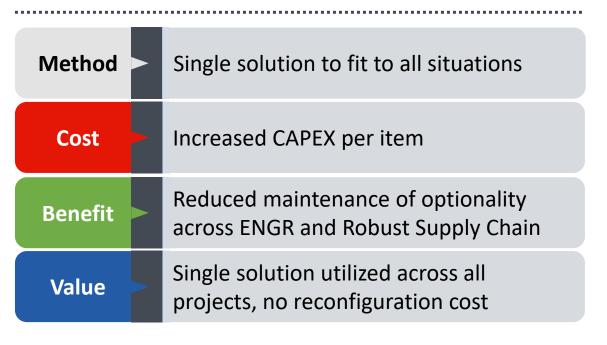
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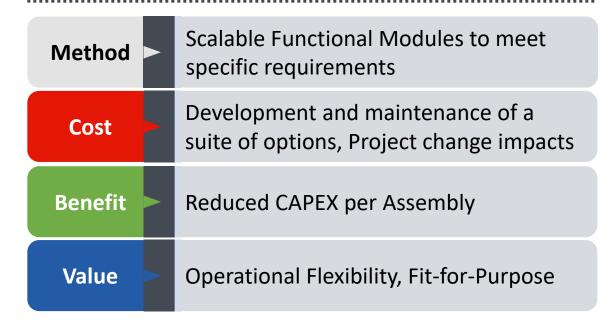


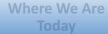
Approaches to Standardization | Universal & Configurable

Universal



Configurable







Approaches to Standardization | Enabling Agility



Where We Are Today

Approaches to Standardization

Emerging Industry Specifications

he Operator Approach **Configurable Solution Focus**

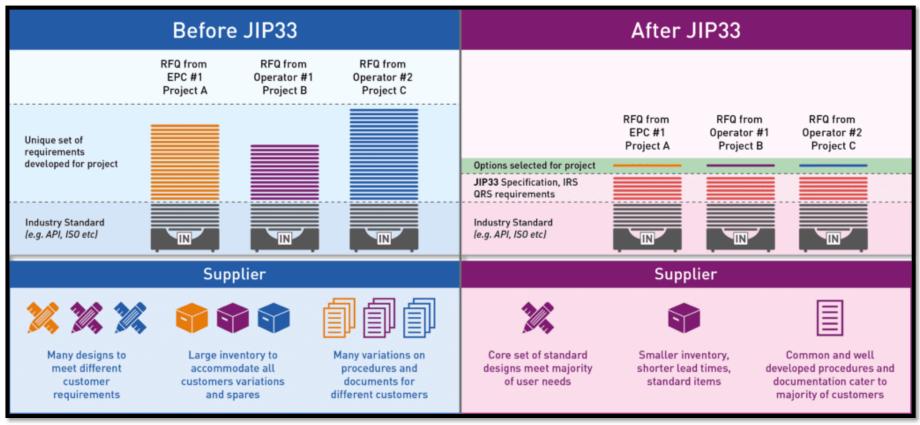
Disciplined Approach

Subsea Performance Agility

The Future of Standardization



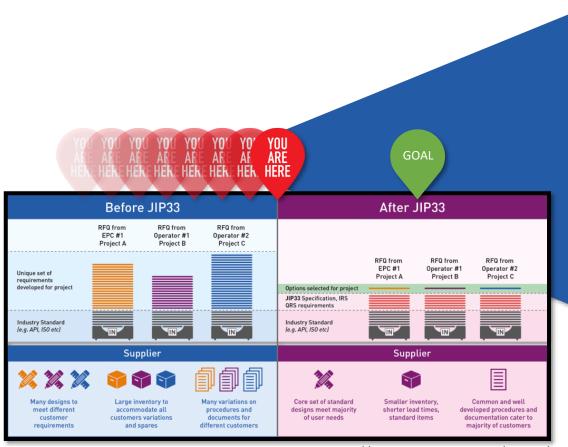
Emerging Industry Specifications | Current Trends



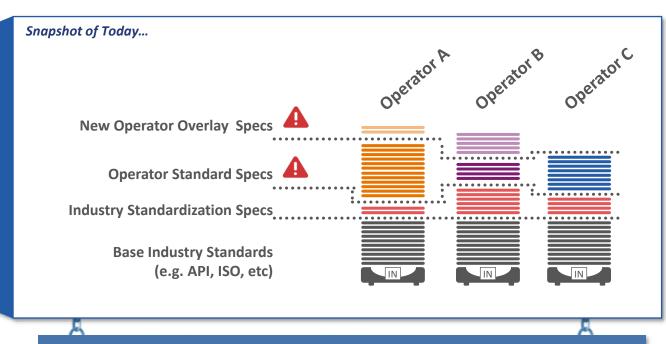
Source: https://www.iogp-jip33.org/about/



Emerging Industry Specifications | Current Trends



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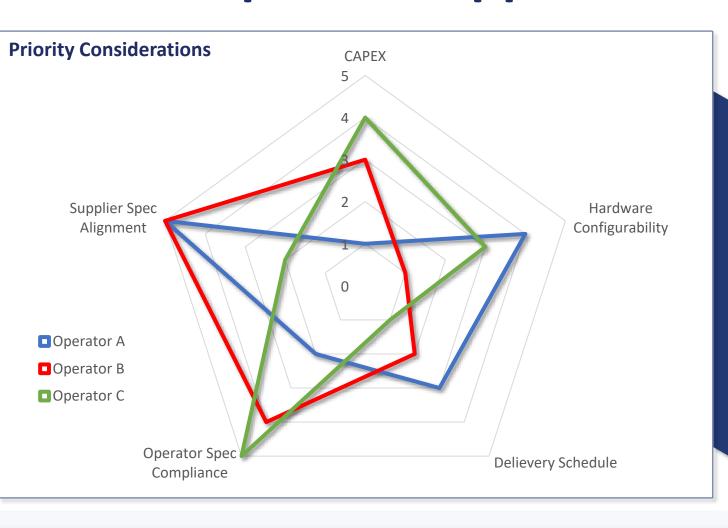
Varied enforcement of new industry specs

Operator legacy specs remain enforced

Overlaying internal specs against industry standard specs



The Operator Approach | Finding the Balance



01

Operator Spec Adoption

Corporate objectives and operational history clash with universal spec adherence

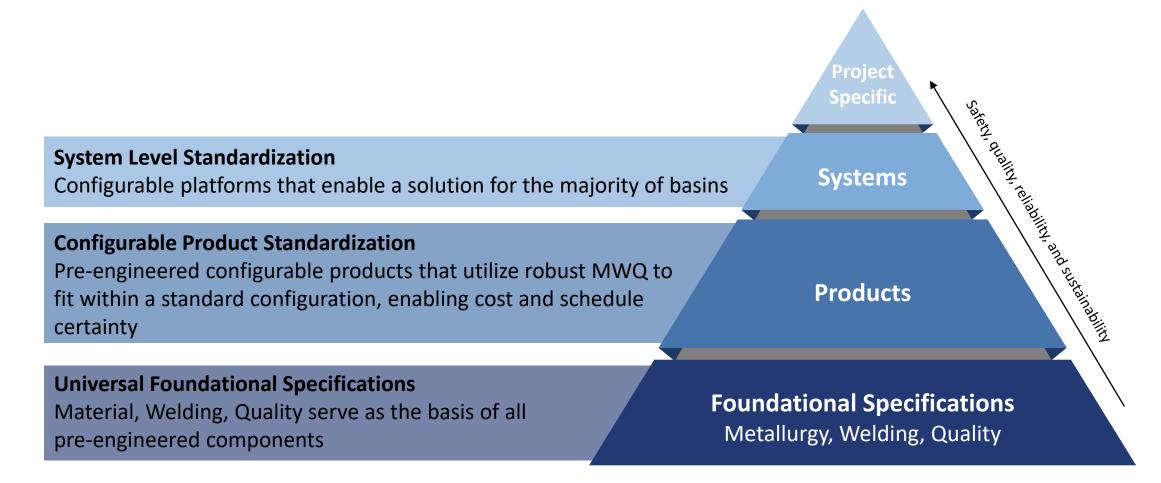
02

Industry
Standardization Spec
Development

Over-restrictive requirements - development need to include industry suppliers

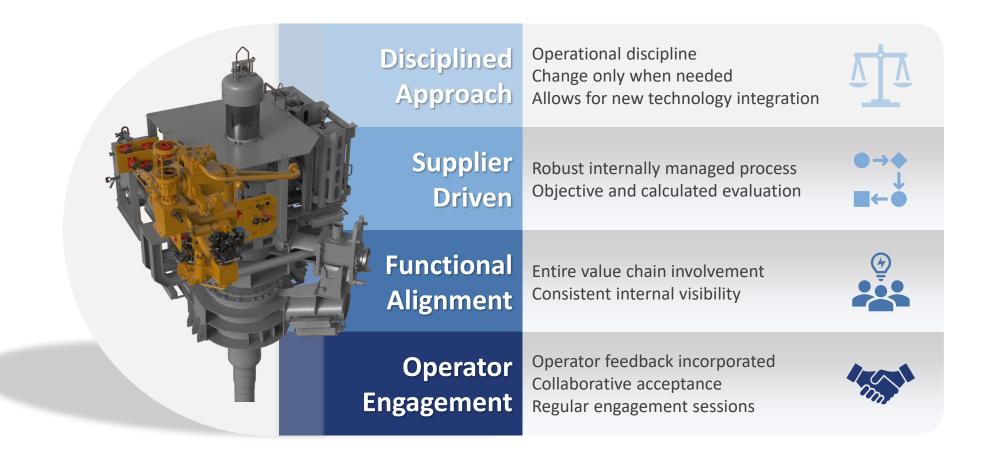


Configurable Solution Focus | Standardization Approach





Disciplined Approach | Governing the Standard





Delivering Subsea Performance Agility | Case Study

A subsea horizontal tree platform with a common core adapts to operator requirements using configurable functional modules and cost-efficiently expedites subsea development

Realized Benefits

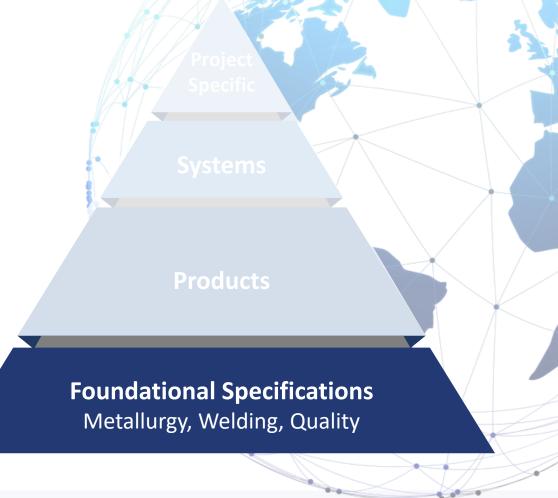
- 50% reduction in documentation reviews
- 11% reduction in non-conformances
- 7% reduction in overall XT manufacturing time
- 3-week decrease XT assembly/test time
- 0 non-productive time across more than 1,000 critical path hours





The Future of Standardization | Collaborative Alignment

- Industry-wide collaborative effort to align on universal foundational specifications
- Drive towards embracing a standardized execution model
- Maximize economic viability of subsea execution
- Further improve reliability and quality
- Achieve cost and schedule certainty





THANK YOU Kevin Kappes, OneSubsea Senior Customer Standardization Engineer Kaitlin Haymaker, OneSubsea Senior Internal Standardization Engineer



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