New Technology Designs – Deepwater Collaborative Development

Collin Gaskill Trelleborg Offshore





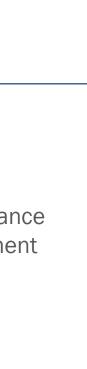
Deepwater Technology Challenges

- Subsea Environments
- Large Pressure / Temperature Swings
- Complex Loading
- Corrosive Environments
- Extensive Performance Lives
- High Cost Maintenance

System
Integration

Design ____ Performance
Compatibility Assessment

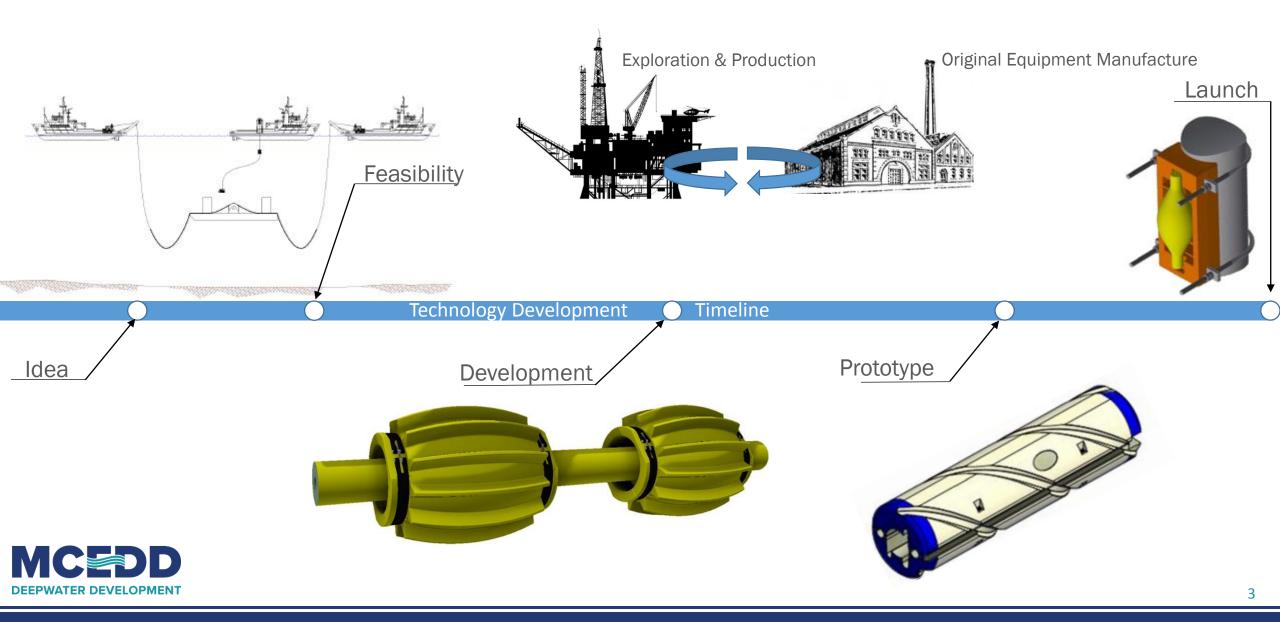
Technology
Qualification







Integrating Development Resources

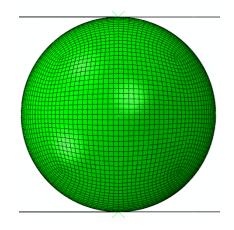


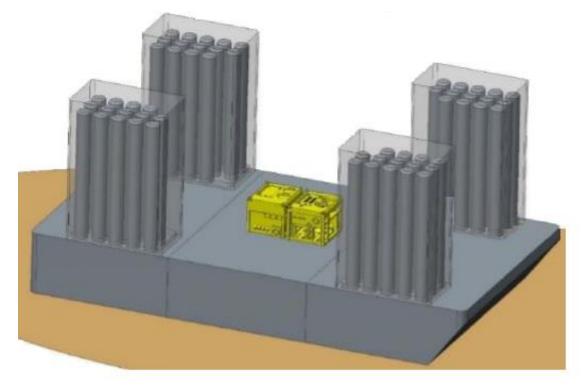
Facilitating Step-Change Innovations

Idea

- Joint Development Team:
 - Service Company Installation & tie back operations
 - OEM Buoyancy design & development
 - Operator Operations & risk management

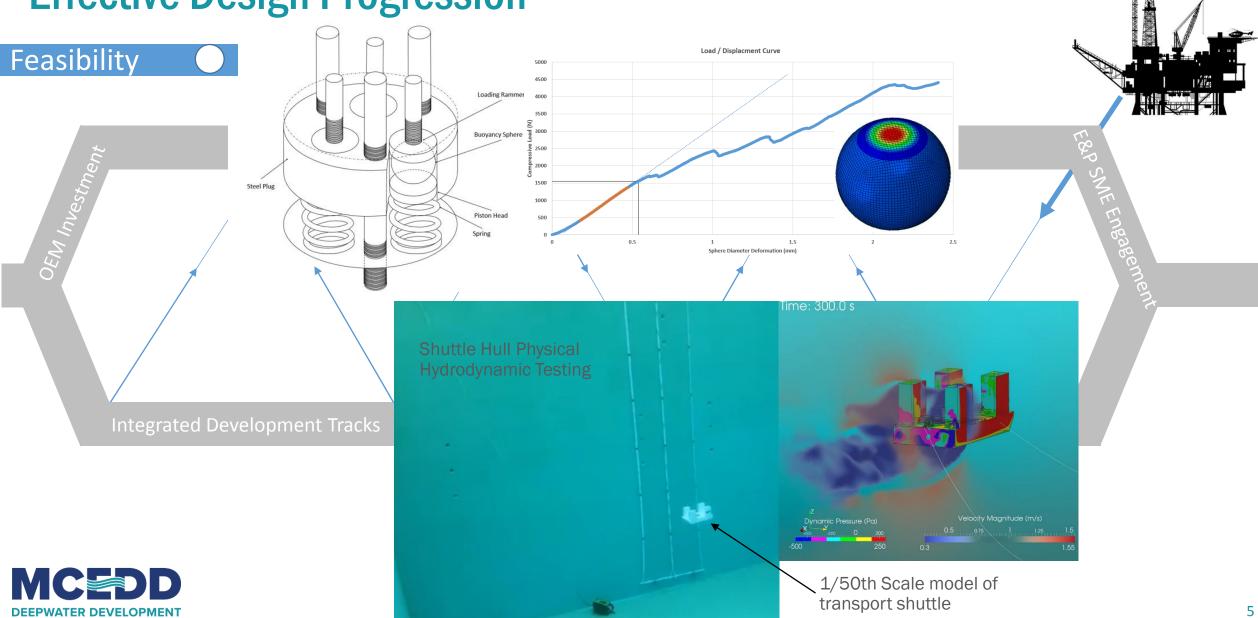








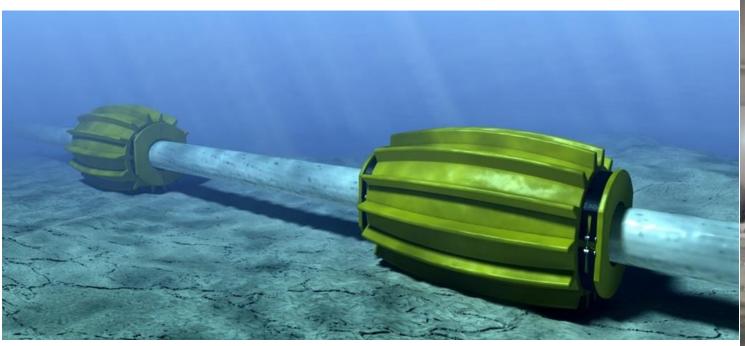
Effective Design Progression

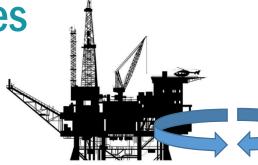


In-Field Identified Optimization Opportunities

Development

- Joint Development Team:
 - OEM Design optimization & performance enhancements
 - Operator Operations & system design/integration experience





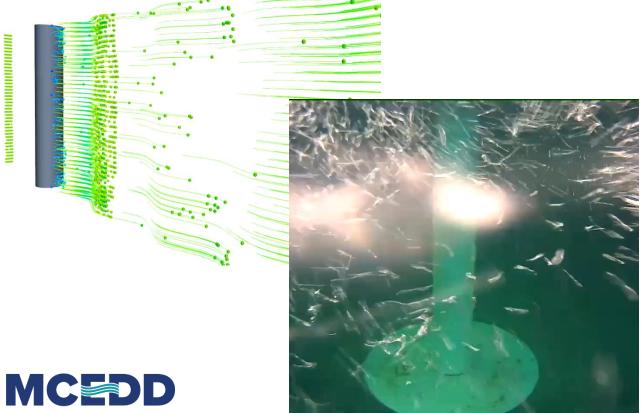


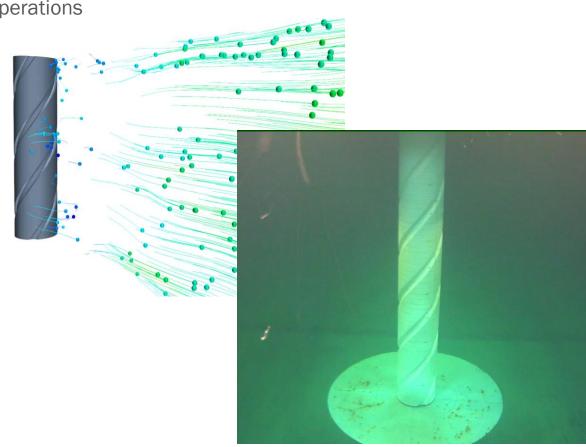


Efficient FEED Qualification

Prototype

- Joint Development Team:
 - OEM Computational fluid dynamics (CFD) and system hydrodynamic response
 - Contractor Computational fluid dynamics and offshore drilling operations

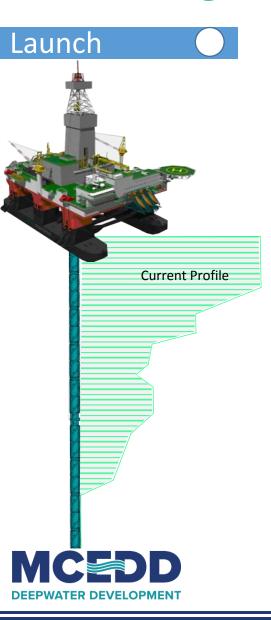


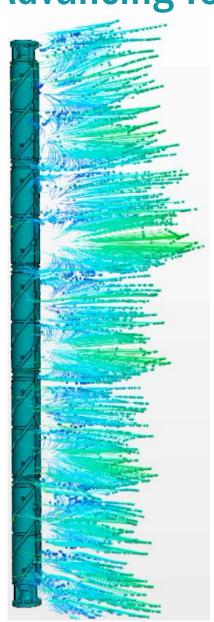


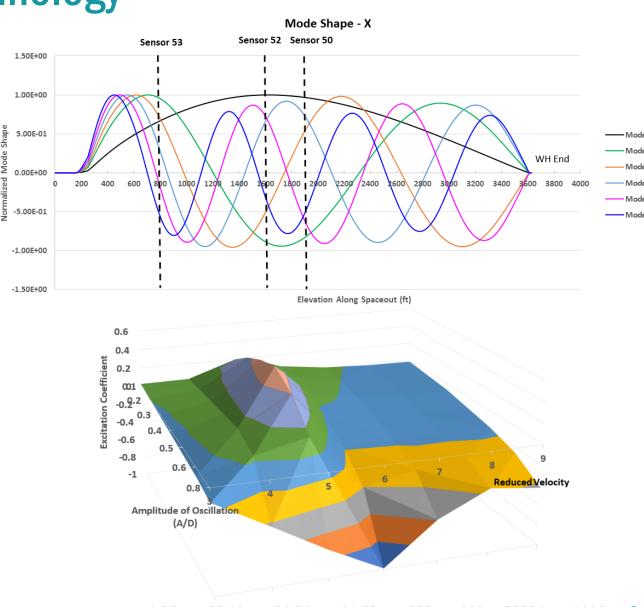
MCE Deepwater Development 2018 -



Combining Data – Advancing Technology







Deepwater Collaborative Development

- Innovation
- Execution Excellence
- Collaboration

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