

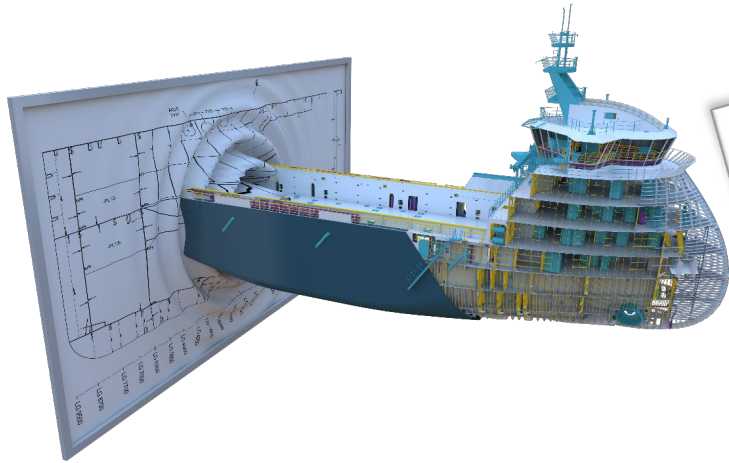


**BUSINESS TECHNOLOGIES/SHIP DESIGN & MATERIAL
TECHNOLOGIES JOINT PANEL MEETING**

April 30 – May 2, 2024

Overview of LiftShip

- It laid the foundation for efficiencies we have today through the reuse of existing digital information contained within the 3D ShipConstructor model to support Finite Element Analysis using Femap and HyperWorks



 **ALTAIR**
HyperWorks™

Background

Safety | Performance | Reduce Costs | Quality | Simulation Insight

- Program 1 (2018-2019), Program 2 (2021-2022)

LiftShip 1 Objectives

- Integrate with ShipConstructor
- Automate/ accelerate finite element modeling
- Static lift simulation

LiftShip 2 Objectives

- Simulate lift & turn configurations
- Lift & Support Structure | Modifications
- Visual Go-No-Go report



Liftship 3 (2023 – 2025)

Planned Contributions

- HyperWorks to ShipConstructor data (e.g. CAD, metadata) exchange improvements
- FEM modifications imported back into 3D Design Model
- Update the toolbox to Hyperworks 2023.x
- Technology Transfer
- Shipyard feedback & adoption

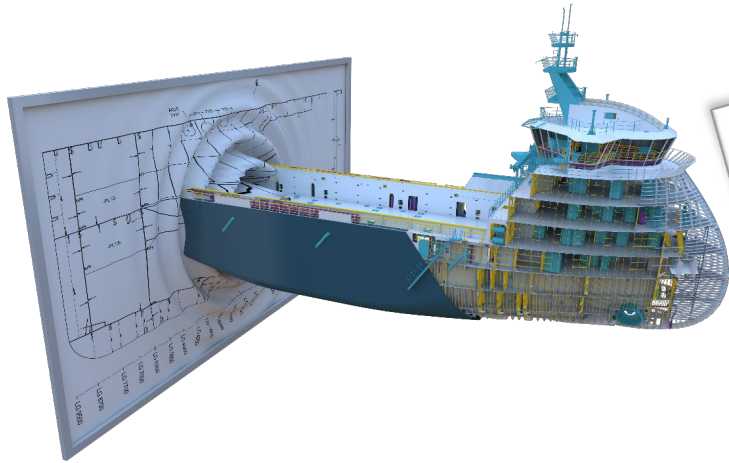
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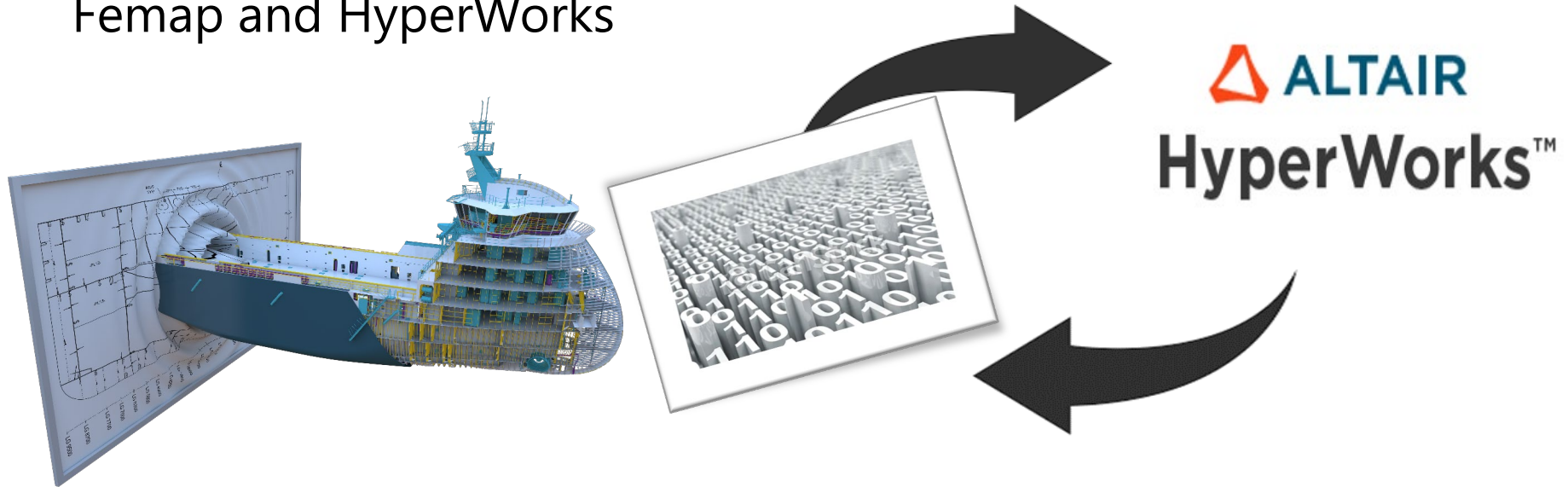
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