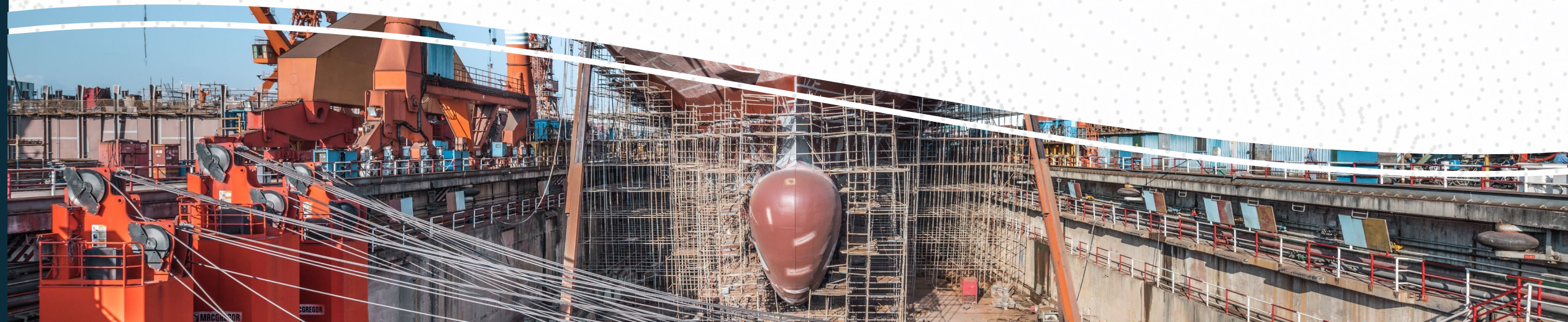
SSIWSC 2024

Design. Build. Maintain. Connect.

Dashboards & Reporting for Shipbuilding

Ken LaPerle – PLM Specialist, Enterprise Solutions Team



Dashboards & Reporting for Shipbuilding - Agenda

01 Primary Reporting capabilities

02 ShipConstructor – Publisher / PublisherLT, MIM

03 ShipbuildingPLM Status Dashboards

04 ShipbuildingPLM SSR interactive reports

05 Demo

06 Close and Questions

Primary Reporting Capabilities

PublisherLT

WIP Detail Design Data, Engineering Productivity

ShipConstructor functionality to generate outputs from the database through Enterprise Platform

Power BI

Microsoft Reporting solution that integrates with ShipConstructor database

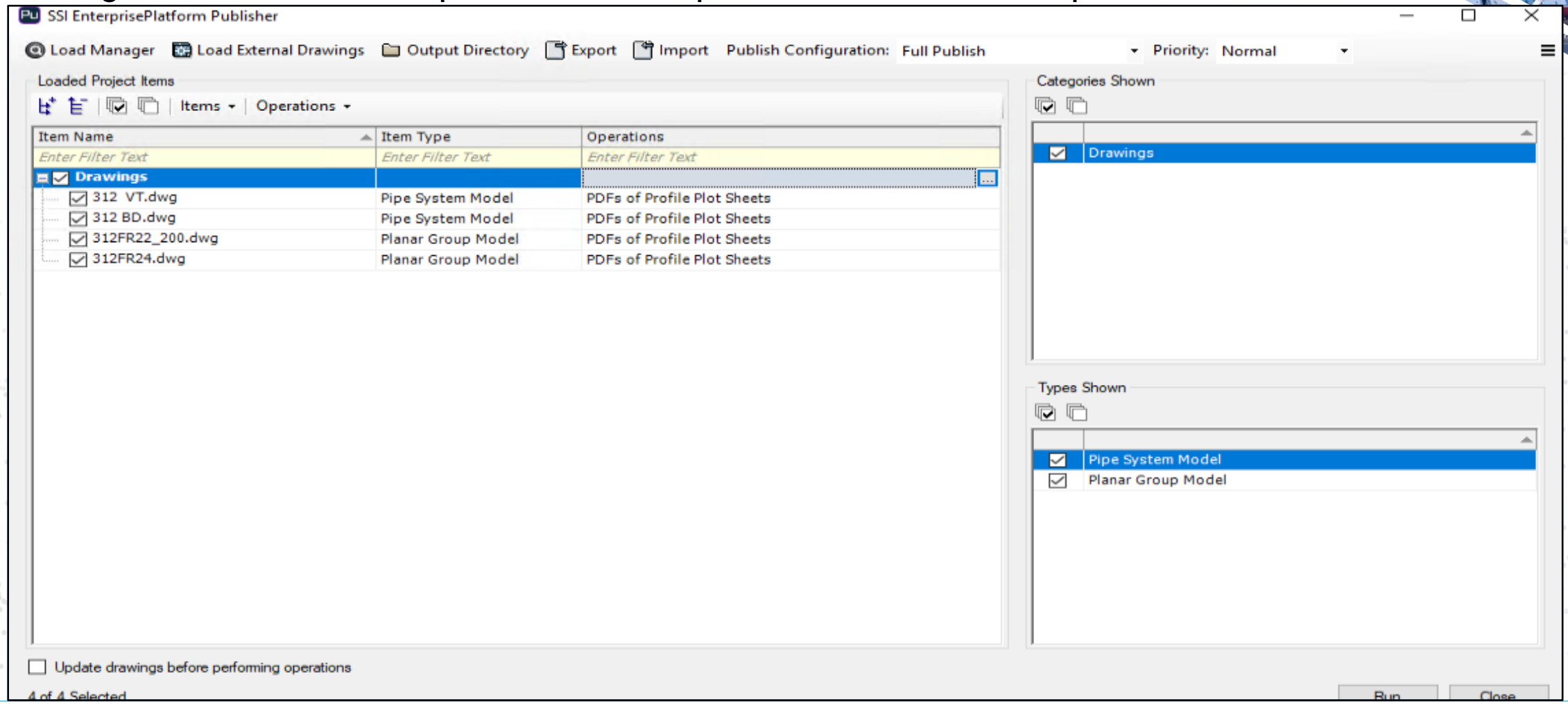
ShipbuildingPLM Reporting

Complete Shipbuilding Lifecycle

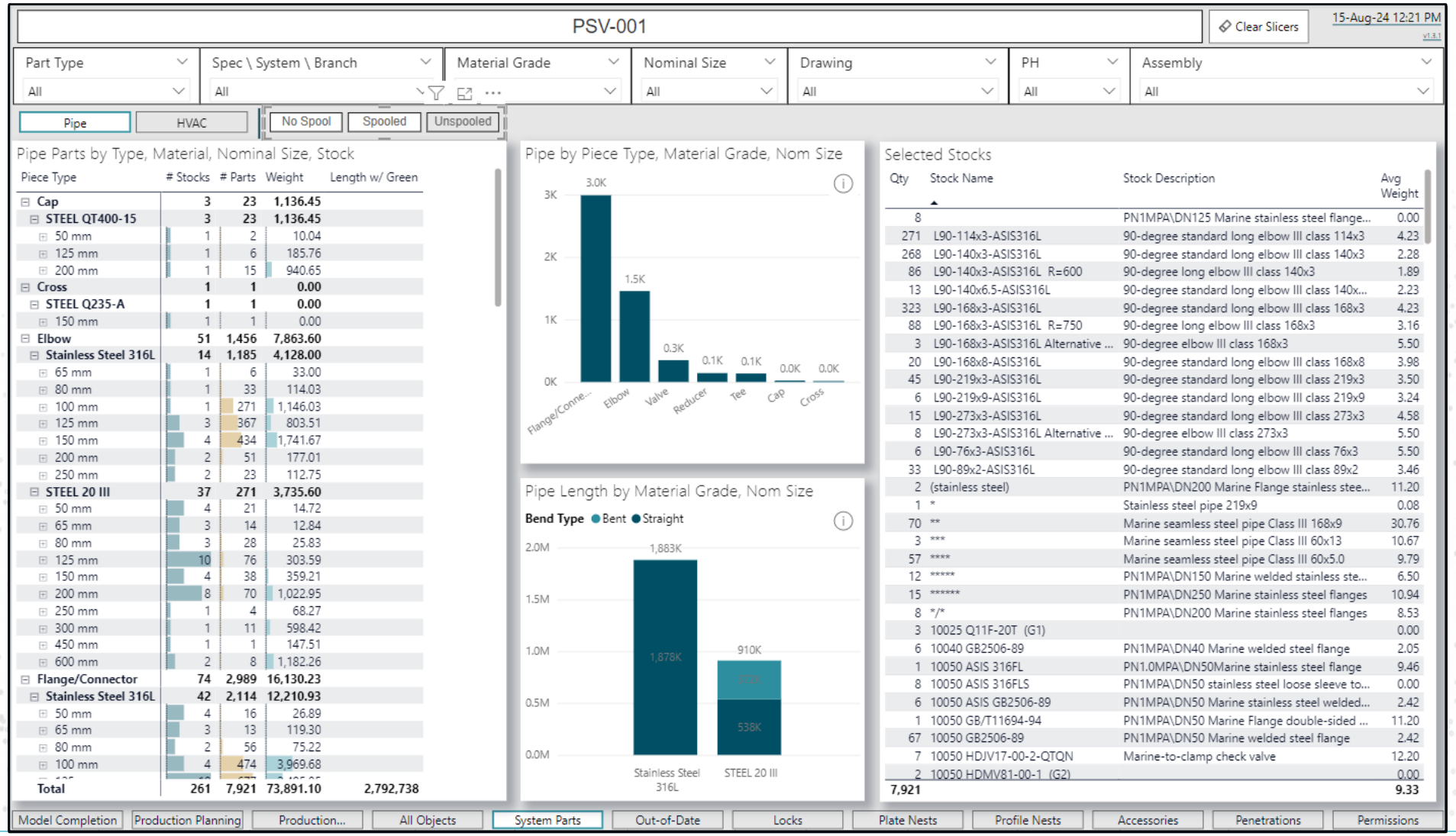
Reporting of Product Data throughout the Shipbuilding Lifecycle (Initial, Functional, Detail)

Dashboards & Reporting for Shipbuilding
2. ShipConstructor – Publisher / PublisherLT

- SSI Enterprise Platform Publisher and PublisherLT may be used to generate custom ShipConstructor reports, to extract and export WIP data.

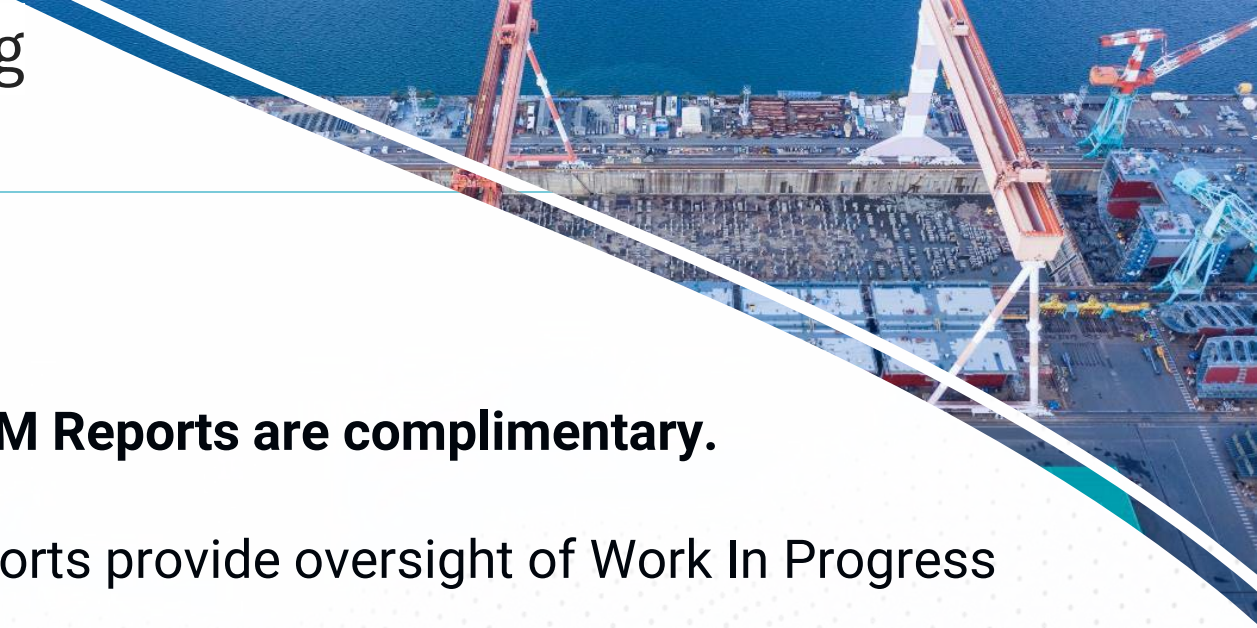


Dashboards & Reporting for Shipbuilding
2. ShipConstructor – MIM Reports



Marine Information Modeling (MIM) reports present Work In Progress (WIP) views of ShipConstructor data.

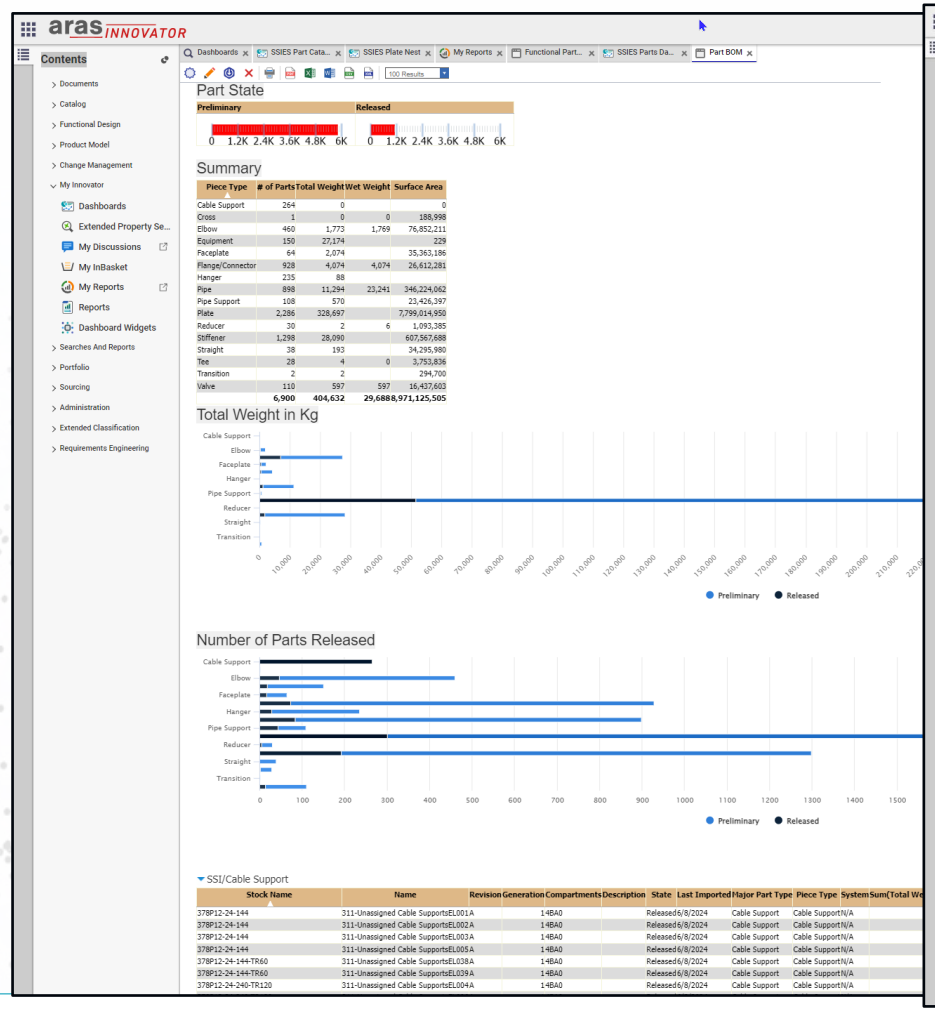
Dashboards & Reporting for Shipbuilding
3. ShipConstructor MIM Reports vs ShipbuildingPLM Reports

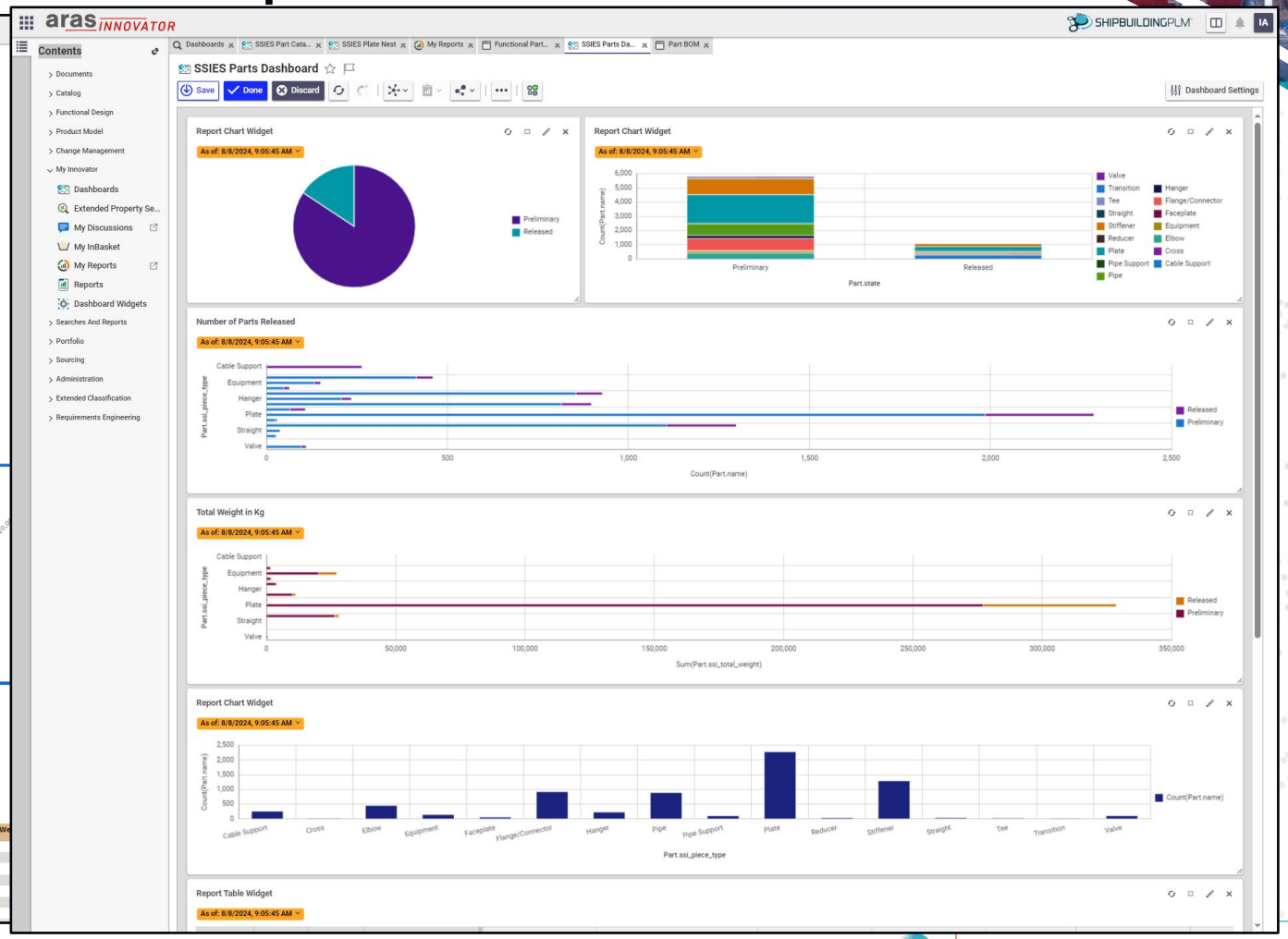


- **ShipConstructor Reports and ShipbuildingPLM Reports are complimentary.**
- PowerBI Marine Information Model (MIM) reports provide oversight of Work In Progress (WIP) ShipConstructor projects.
- ShipbuildingPLM reports track the maturity of all Engineering product data as it evolves through shipbuilding lifecycles, as well as providing actionable insights into possible process bottlenecks.

Dashboards & Reporting for Shipbuilding
4. ShipbuildingPLM Reports

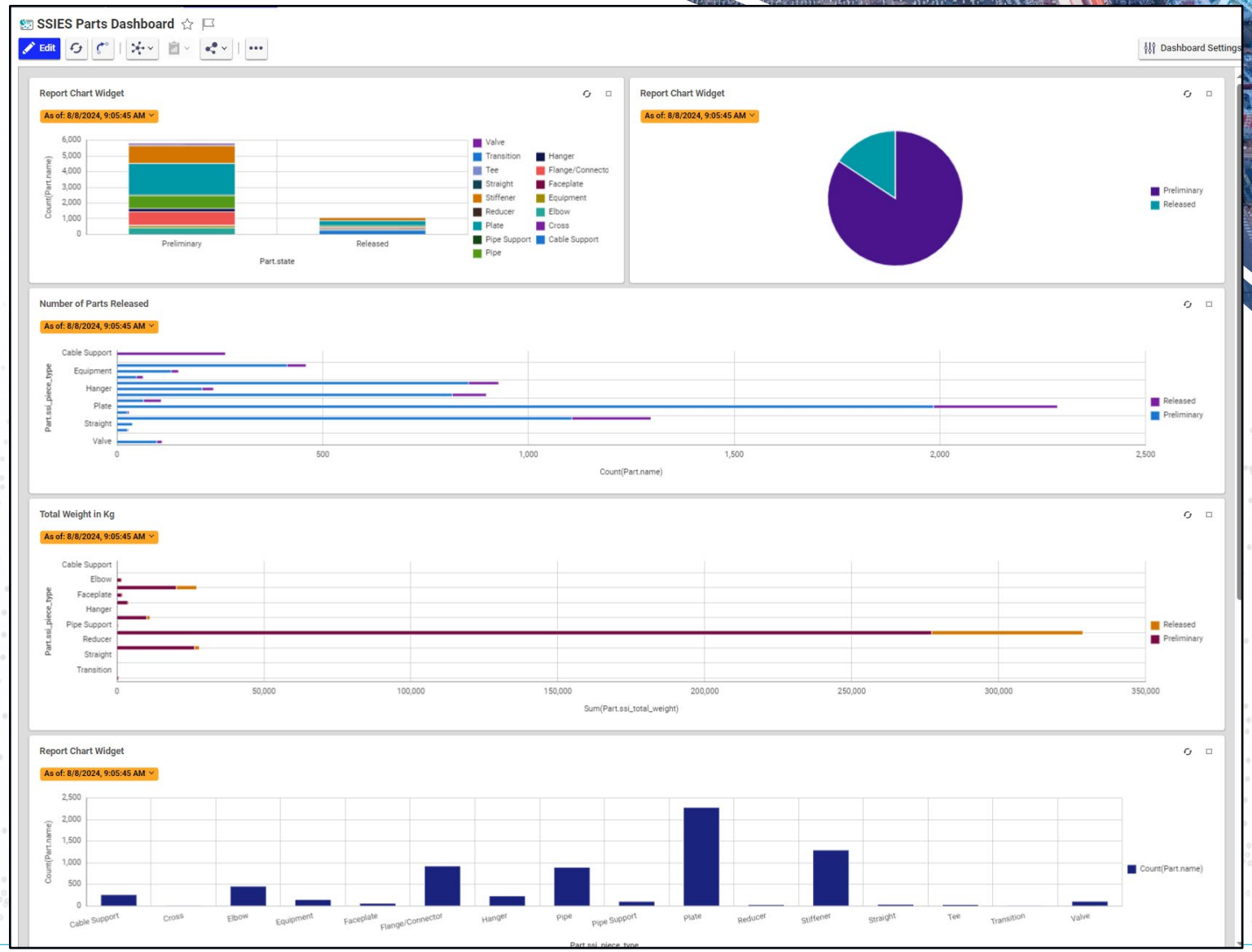
- **ShipbuildingPLM Reports** can be generated using **Self Service Reports**
- or the new **Aras Innovator Dashboard** and **Reports**





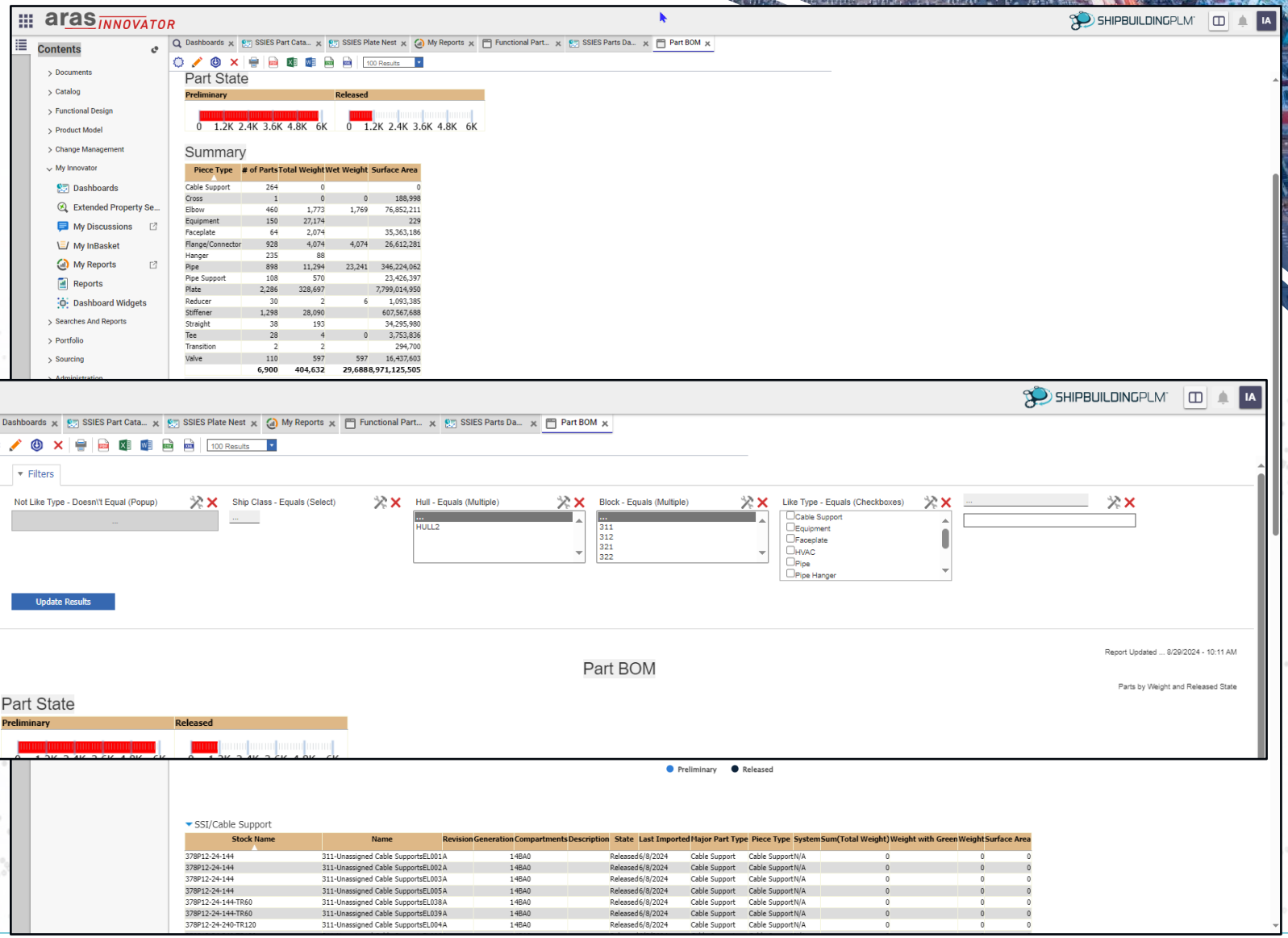
Dashboards & Reporting for Shipbuilding
4. ShipbuildingPLM **Dashboard Reports**

- ShipbuildingPLM 2025 is built on the Aras Innovator R30 platform.
- New Dashboarding and Reports feature allows flexible client definable reports that can then be reflected through analytical graphics.
- Highly suited to Progress, Status and Oversight functions.



Dashboards & Reporting for Shipbuilding
4. ShipbuildingPLM **Self Service Reports – SSR**'s

- The Aras Innovator Self Service Reports feature is highly suited to Run time **interactive** and **interrogatory** needs due to the ability to host Run Time filters t apply limiting condition

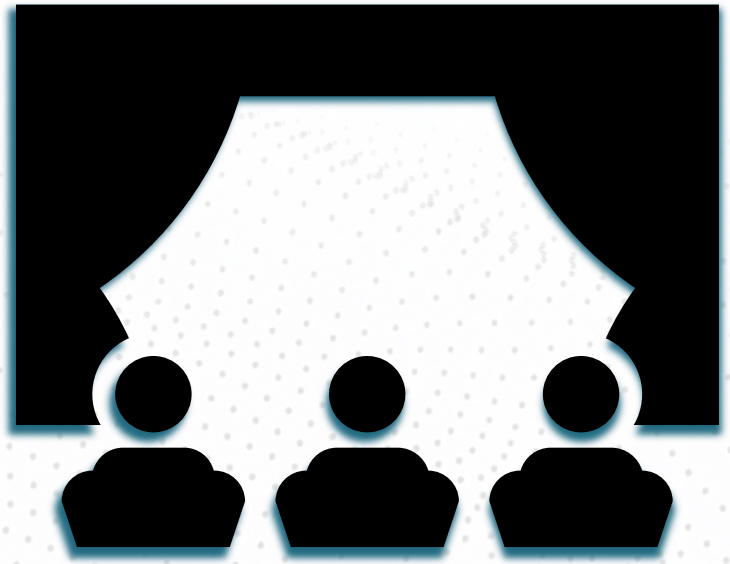


Example Slides

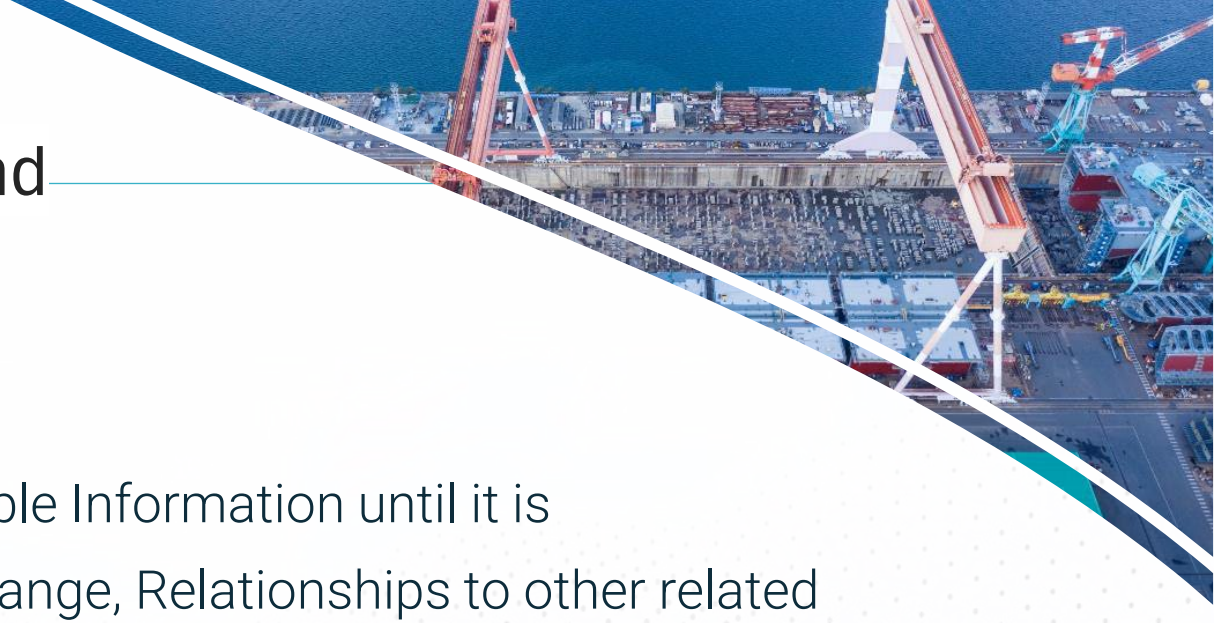
- What is the weight of each Block?
- Have the spools in this Block all been approved?
- What is the current part breakdown in this Block?
- What Functional Parts are in each SWBS and their current state?
- What is the state of my production drawings per Hull?
- What items are undergoing change?

Gain oversight of your shipbuilding data

Dashboards & Reporting for Shipbuilding
5. ShipbuildingPLM Reports – Demo



Dashboards & Reporting for Shipbuilding
Reporting from the Extended Digital Thread



- Remember that Data does not become actionable Information until it is understood in the Context of Maturity, Time, Change, Relationships to other related Data, etc.
- This is what we at SSI call the Digital Thread.
- This is at the very core of ShipbuildingPLM.
- Reports and Dashboards may be created to disclose those relationships, highlight relevant conditions and allow early recognition of issues that may affect productivity.

Thank you for your time – Questions?