Colombia mar 2023

DAMEN NAVAL

ILIAS® smart. reliable. ready.

En control,
En cualquier lugar,
En cualquier momento.

Mr. José Carlos García (Damen)
Mr. Pierre van Brussel (ILIAS)
Cartagena, March 09 2023

A2M

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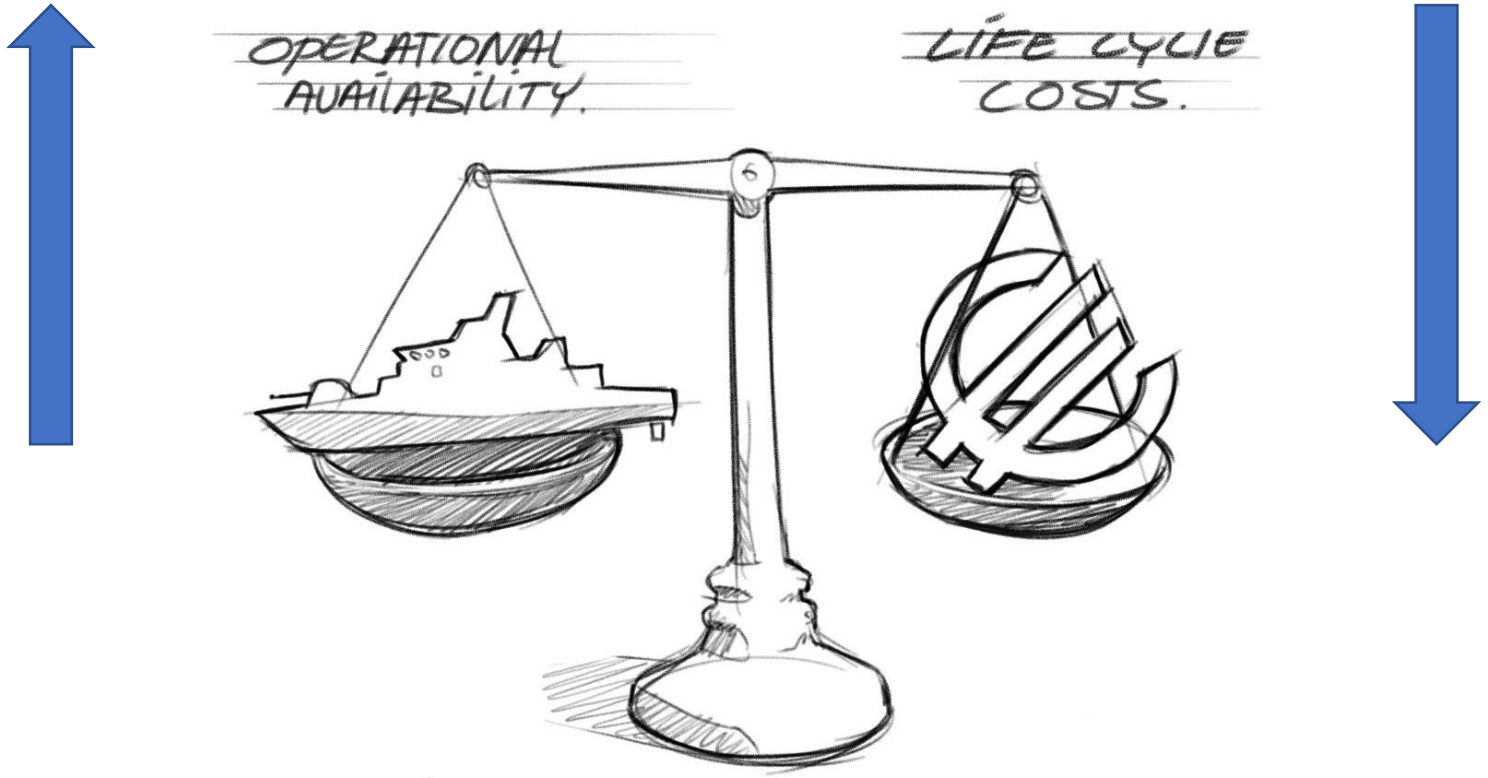
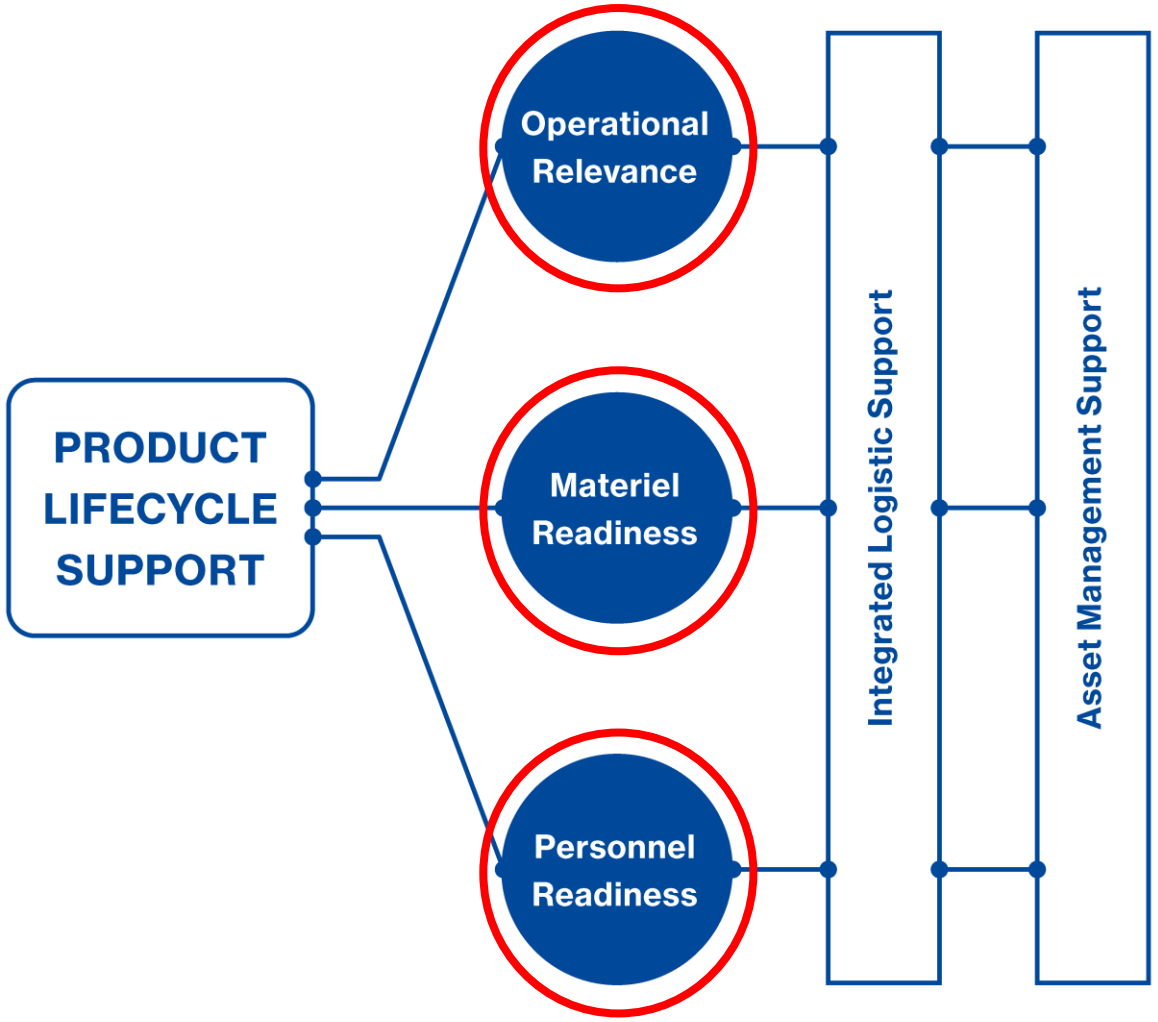
Life Cycle Management



Product Lifecycle Support

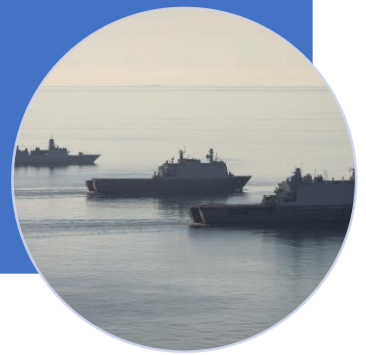


DAMEN NAVAL + ILIAS® smart. reliable. ready.

VISION

- Supporting our Customers in their missions through supporting materiel readiness, personnel readiness and maintaining operational relevance
- Creating sustainable partnership with our Customers and local industries
- Transfer of Technology to enable local support for our vessels
- Providing Lifecycle Support Services with A2M Autonomous Asset Management
- Be the #1 Defense Management System Worldwide
- Strategic partnership between DAMEN and ILIAS on Naval industry

DAMEN +ILIAS



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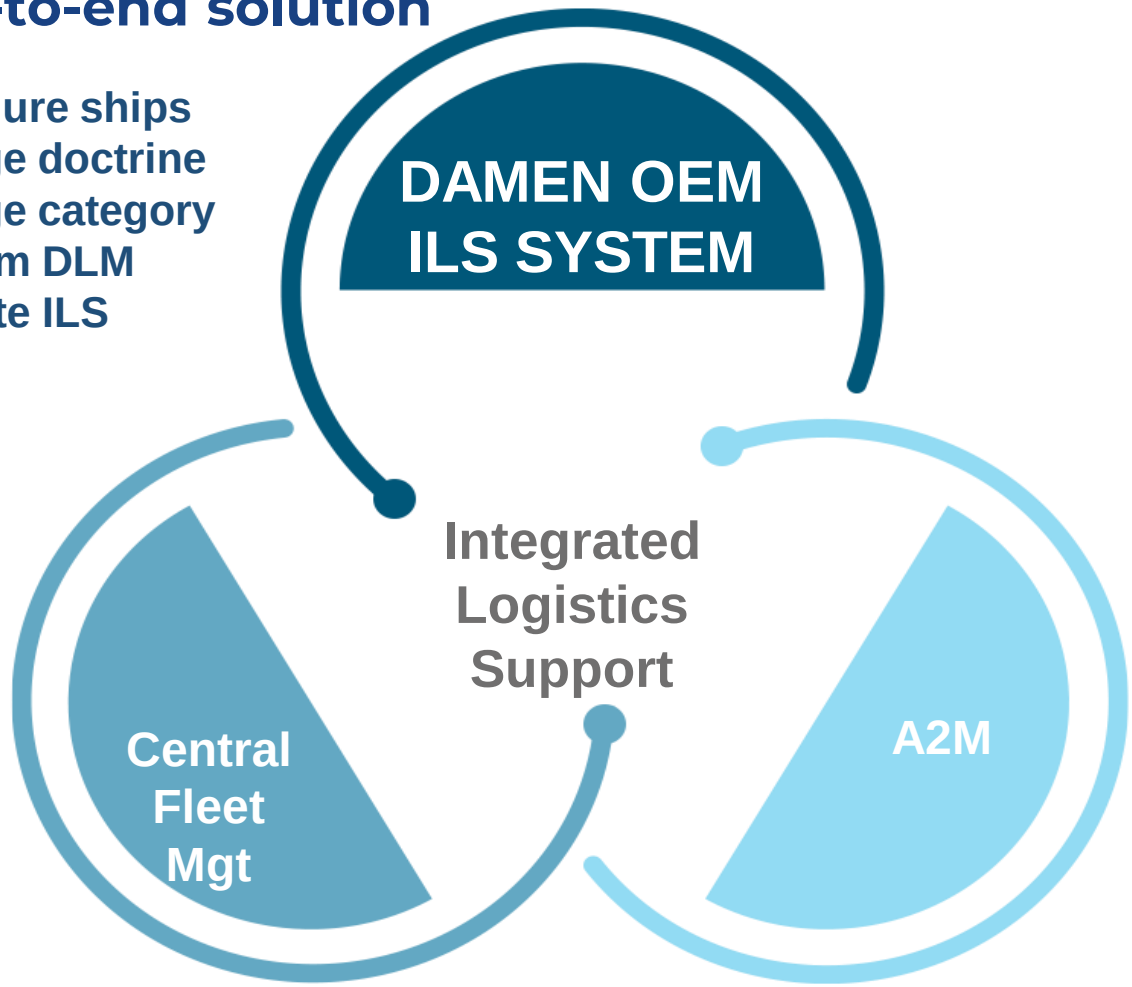
30 years of in-service support

The need for an end-to-end solution

- Configure ships
- Manage doctrine
- Manage category
- Perform DLM
- Execute ILS



Manage data between disconnected systems

- Operate Fleet
- Organize mission
- Organize supply
- Monitor activities

- Operate ship
- Maintain readiness
- Perform maintenance
- Organize resources
- Keep track on supply

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Autonomous Asset Management

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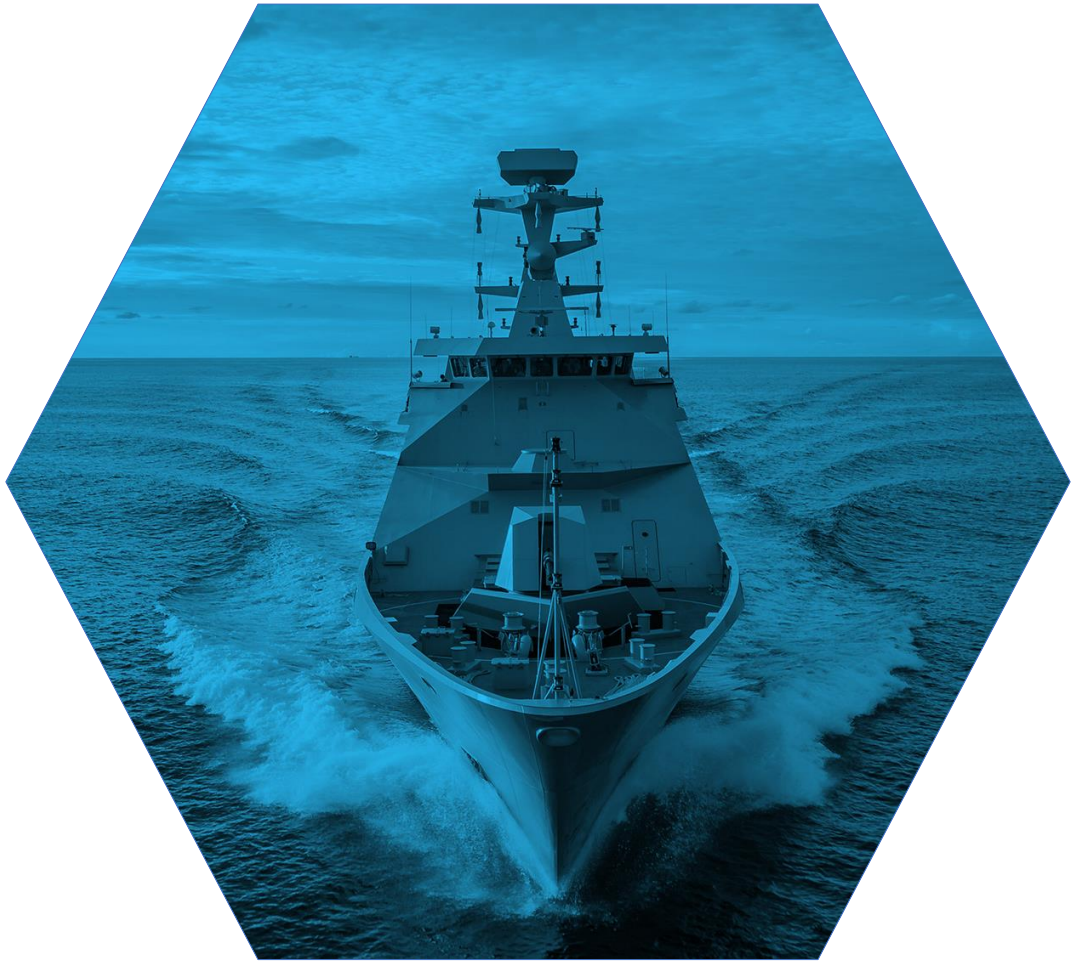
Vision

A fully functional ILIAS Deployed (mobile) System with ***multiple*** and ***independent*** instances, capable of working in ***highly constrained operational environments***



A2M

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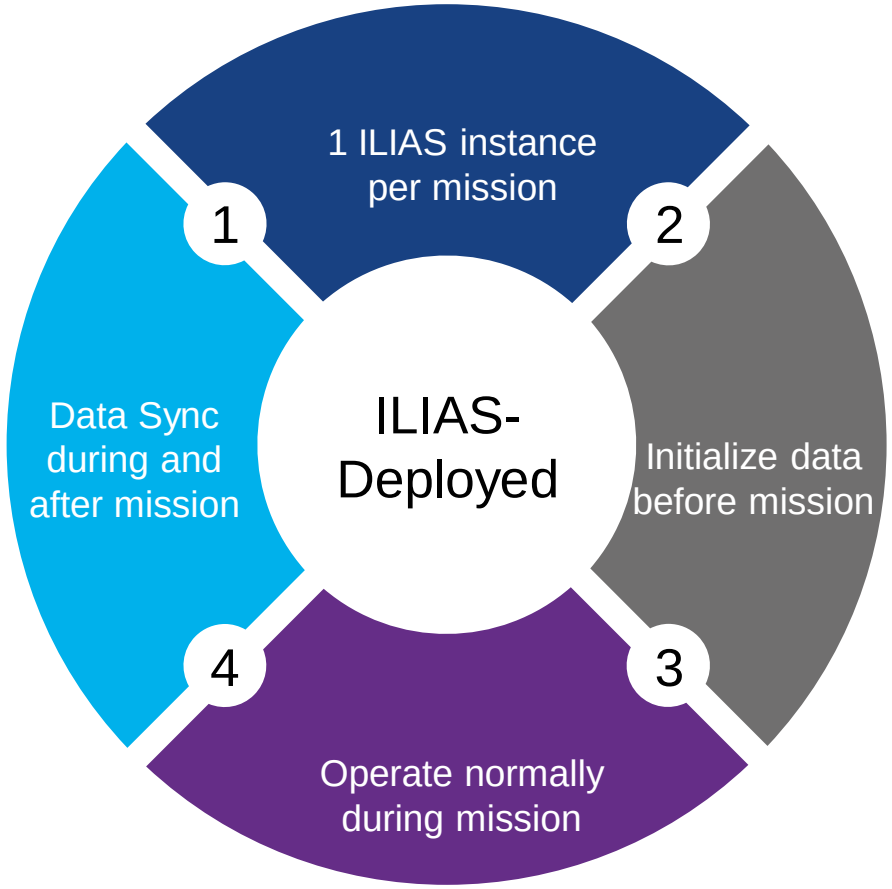
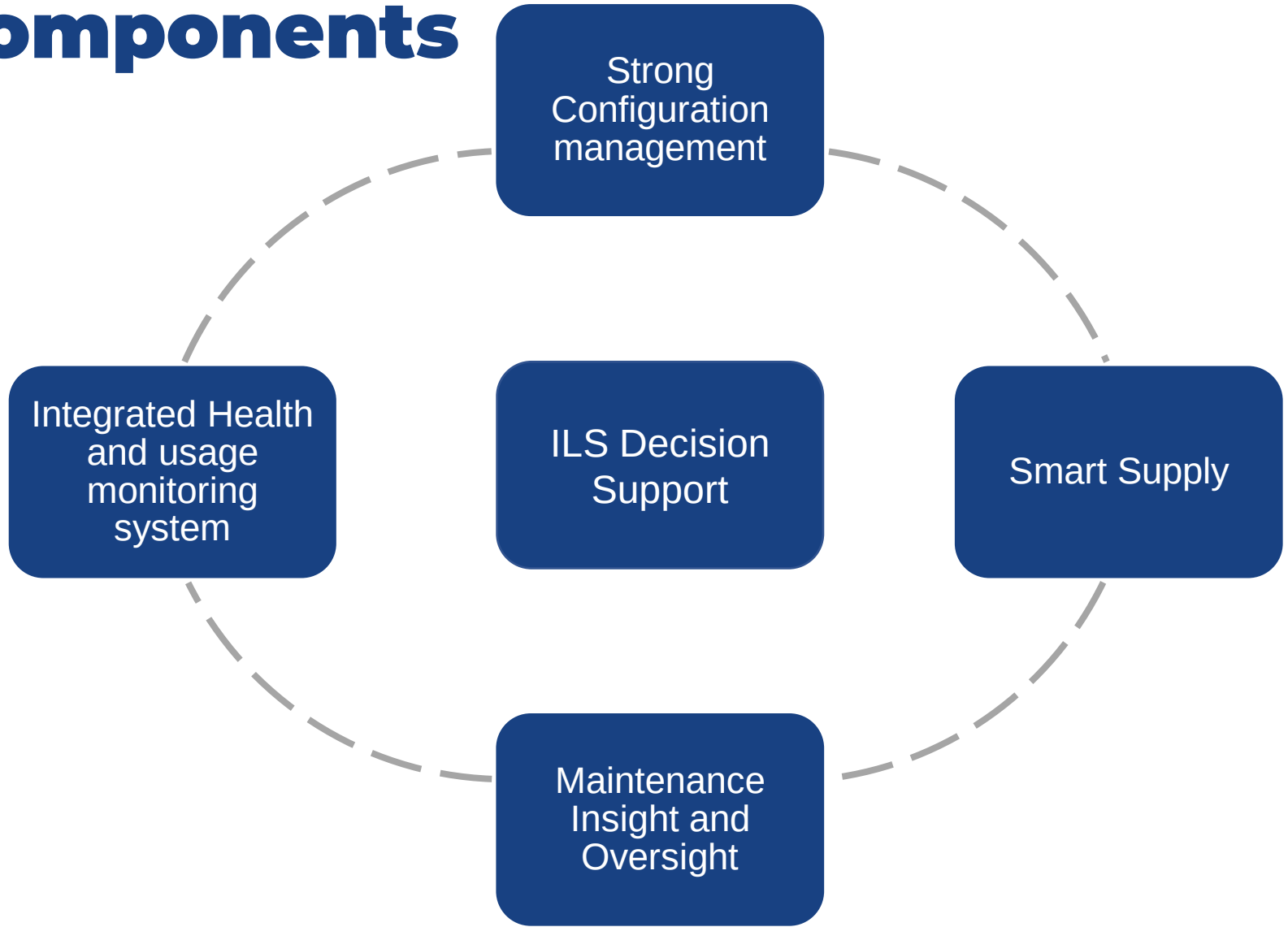
Concept

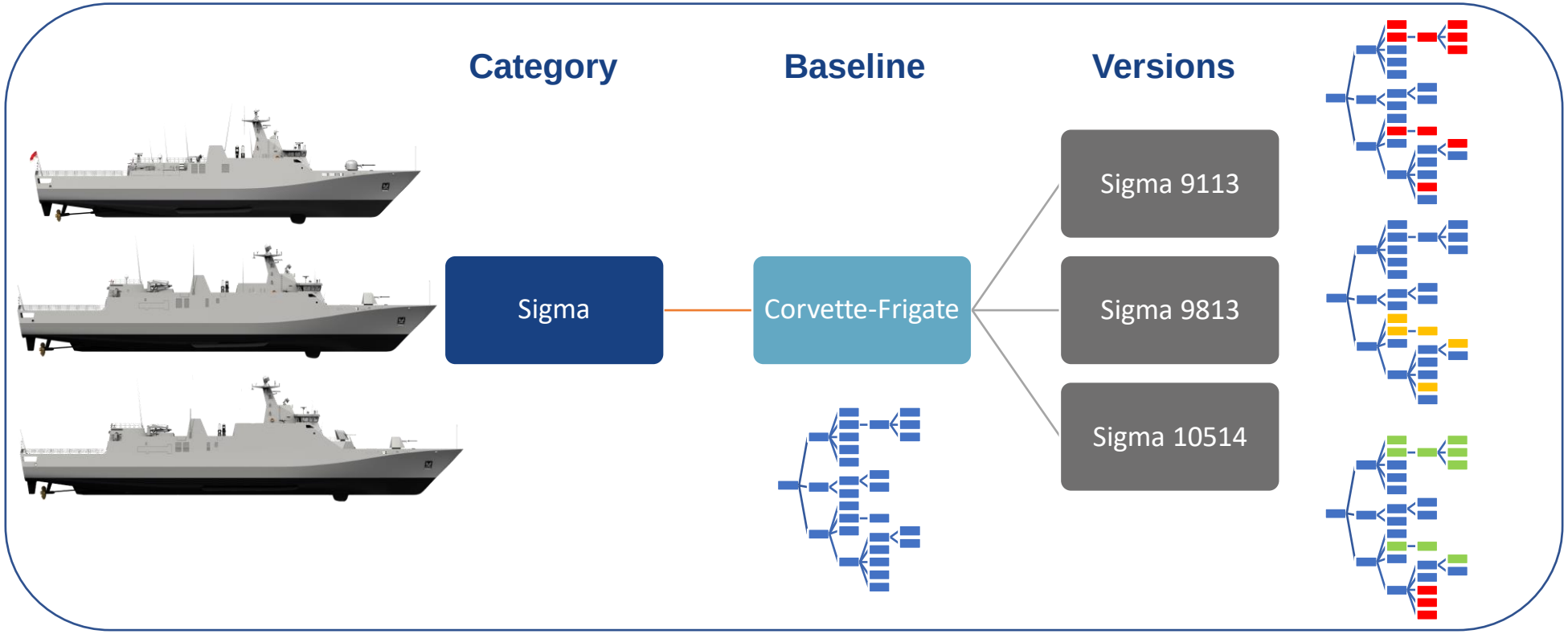
- Same application in Deployment as in Central (known system)
- Data copied before mission (full or partial)
- Full autonomy in deployment to manage deployed assets and stock and ensure readiness
- Data synchronization between central and deployed based on small messages



Key components

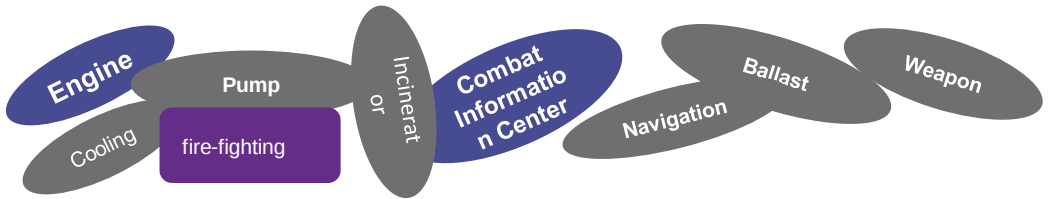


Strong Configuration management as backbone



- Any material categories from vessels up to detailed component
- Detailed asset configuration checking valid applicability
- Tracking which version is installed on which vessel
- Collecting Return of experience and distributing Service bulletin

Concept *(Category-Baseline-Version)* applicable for any sub-system



Maintenance in hand with ILIAS-GUIDE

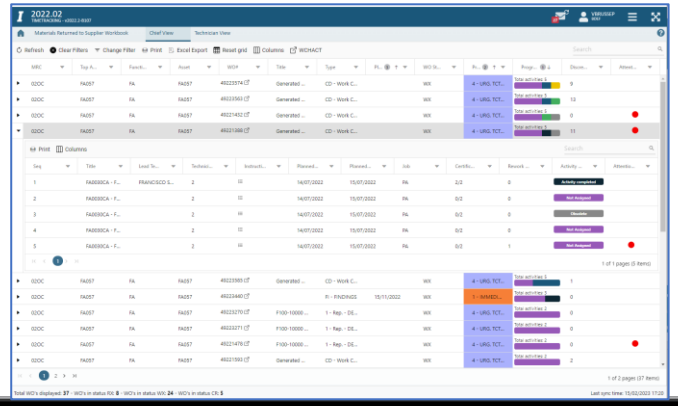
A2M

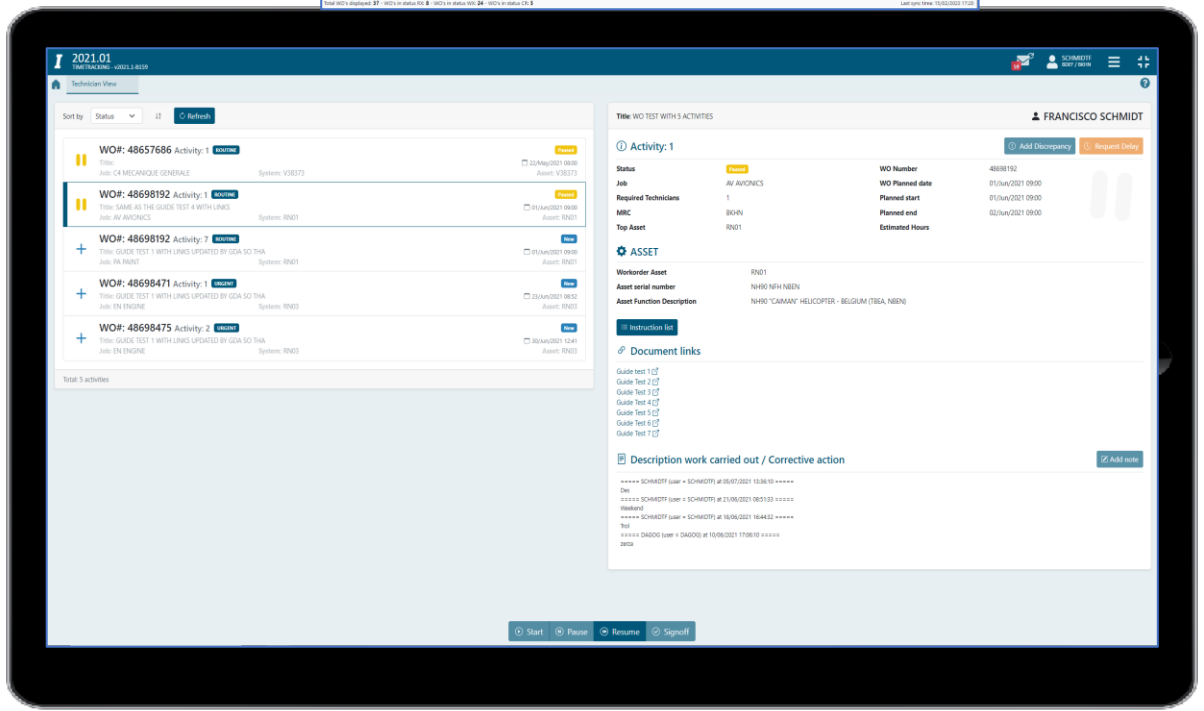
Dispatching the work

Just in time maintenance

Always latest version of manual

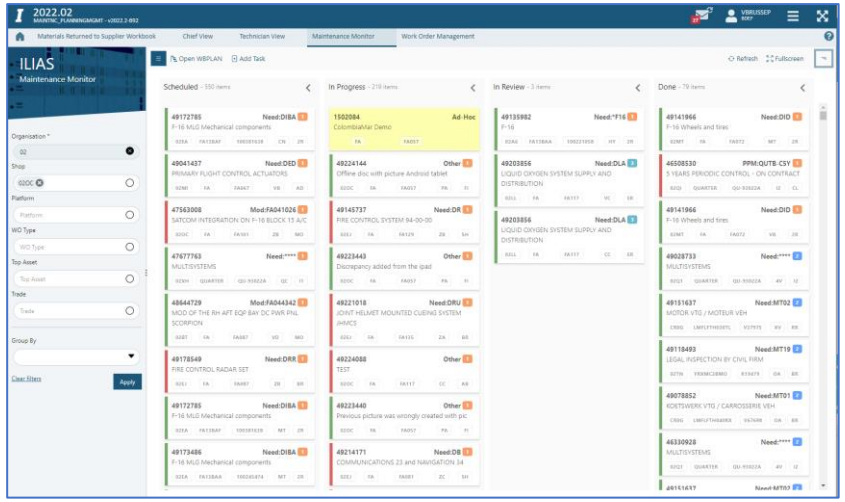
Technician as sensor





- Supervisor Board
- Multi Activity selection
- Assign it to technician

Personnel Readiness



- Steps are ticked off by technicians
- Time stamps are recorded
- This can be sone on- and off-line

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Smart Material Supply Chain

Supply and Procurement

Factory or Warehouse

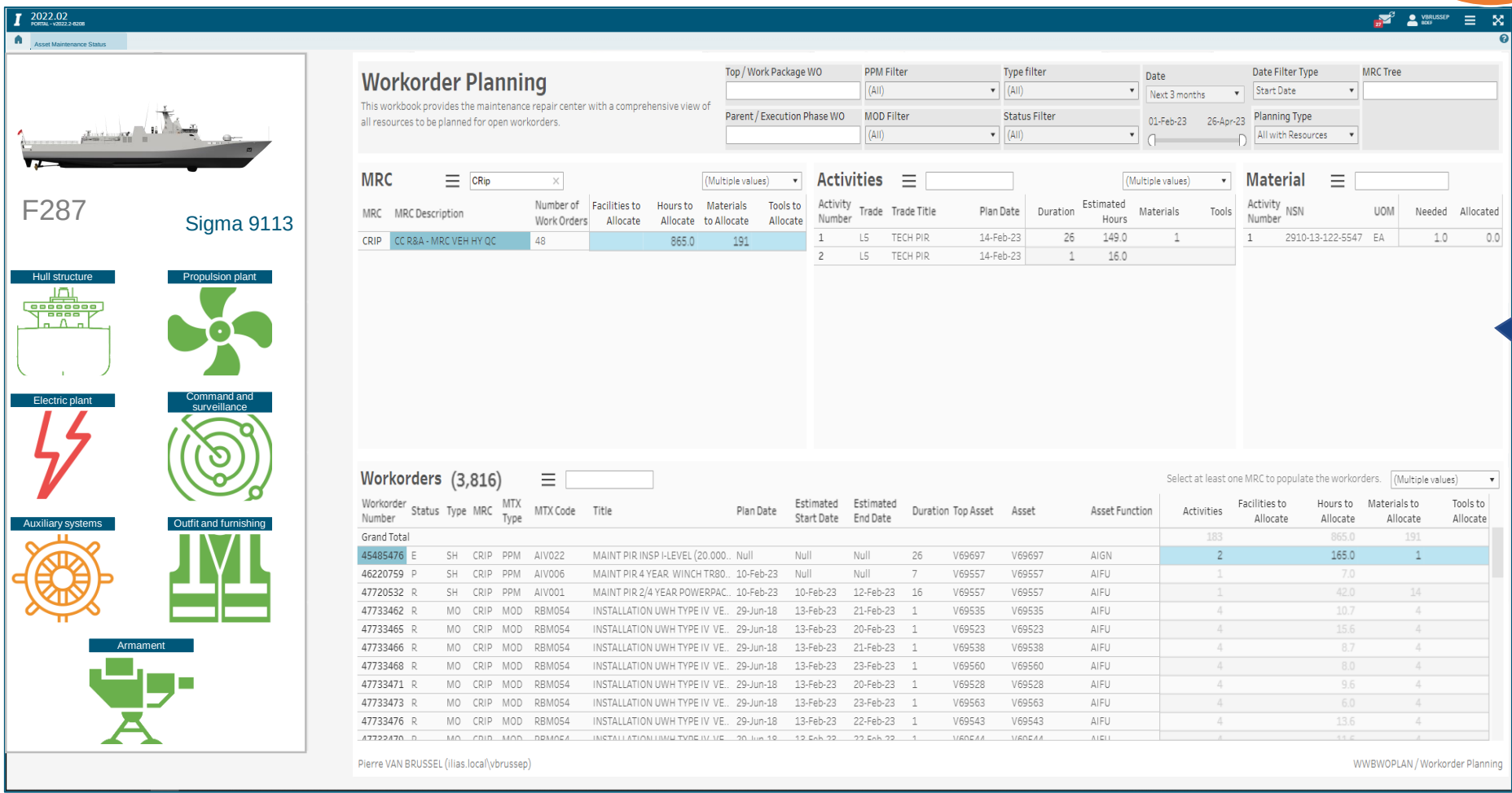
Full Inventory

Barcode to identify your item and perform your processes

Synthetic view on Maintenance status of sub-system

Material Readiness

A2M



Immediate view of maintenance Status of each sub-systems of the current vessel

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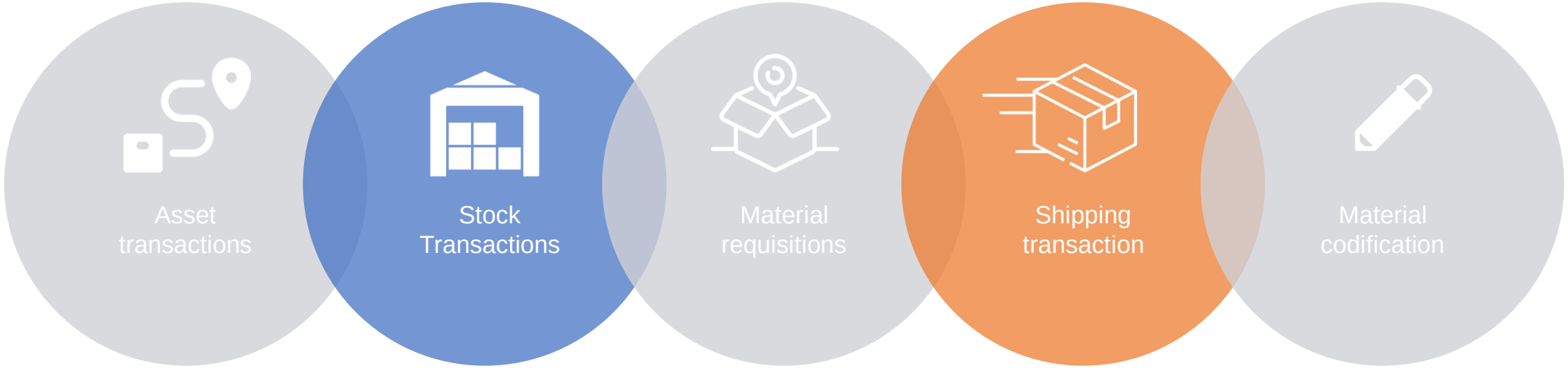
Light communications during mission



To inform HQ of Asset readiness, usage and configuration during mission

To keep HQ (shore) aware of stock levels and stock usage during mission

To track all material requirements during and for a mission

To manage shipping and delivery of material on deployed theater

To inform mission about any change related to material master data

Maintenance debriefing after mission

Work order full definition and planning including specifications and technical documentation

Time allocated and performed per activity and per technician

All WO detailed transactions performed on tablets with ILIAS-Guide

Closure / Sign-off and certification of the performed maintenance tasks

Fleet Management

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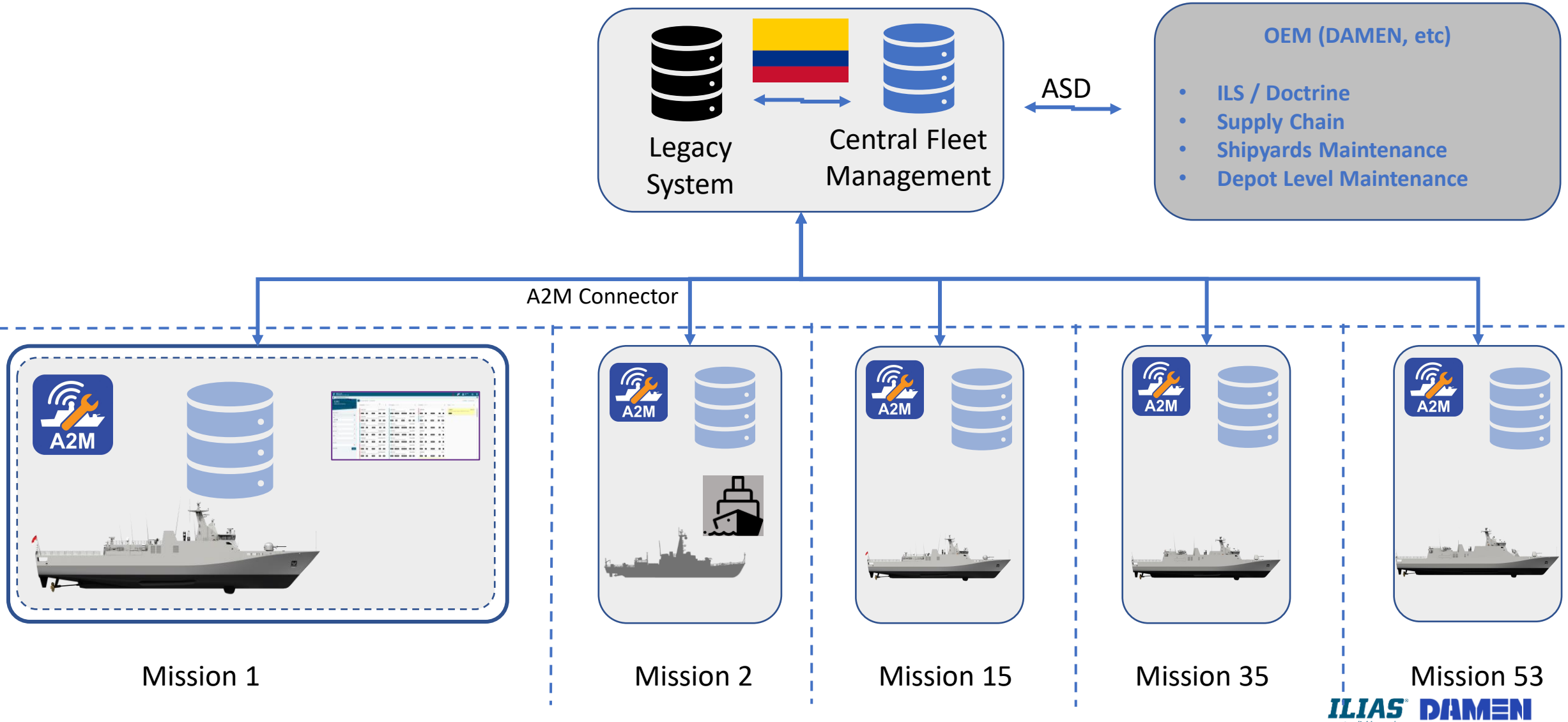
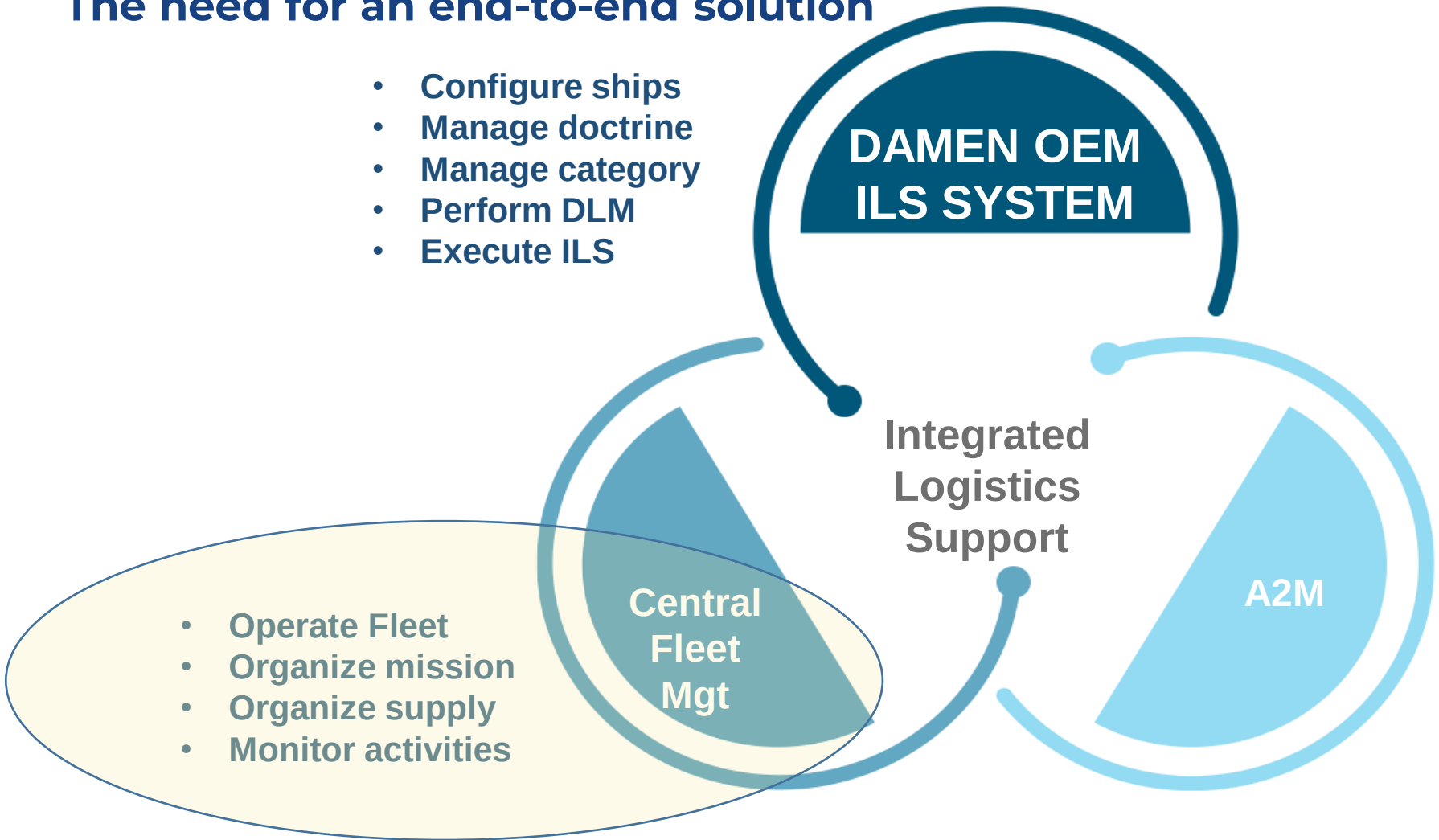
Connecting the dots



30 years of in-service support

The need for an end-to-end solution

- Configure ships
- Manage doctrine
- Manage category
- Perform DLM
- Execute ILS



A2M

Manage data between disconnected systems

- Operate ship
- Maintain readiness
- Perform maintenance
- Organize resources
- Keep track on supply

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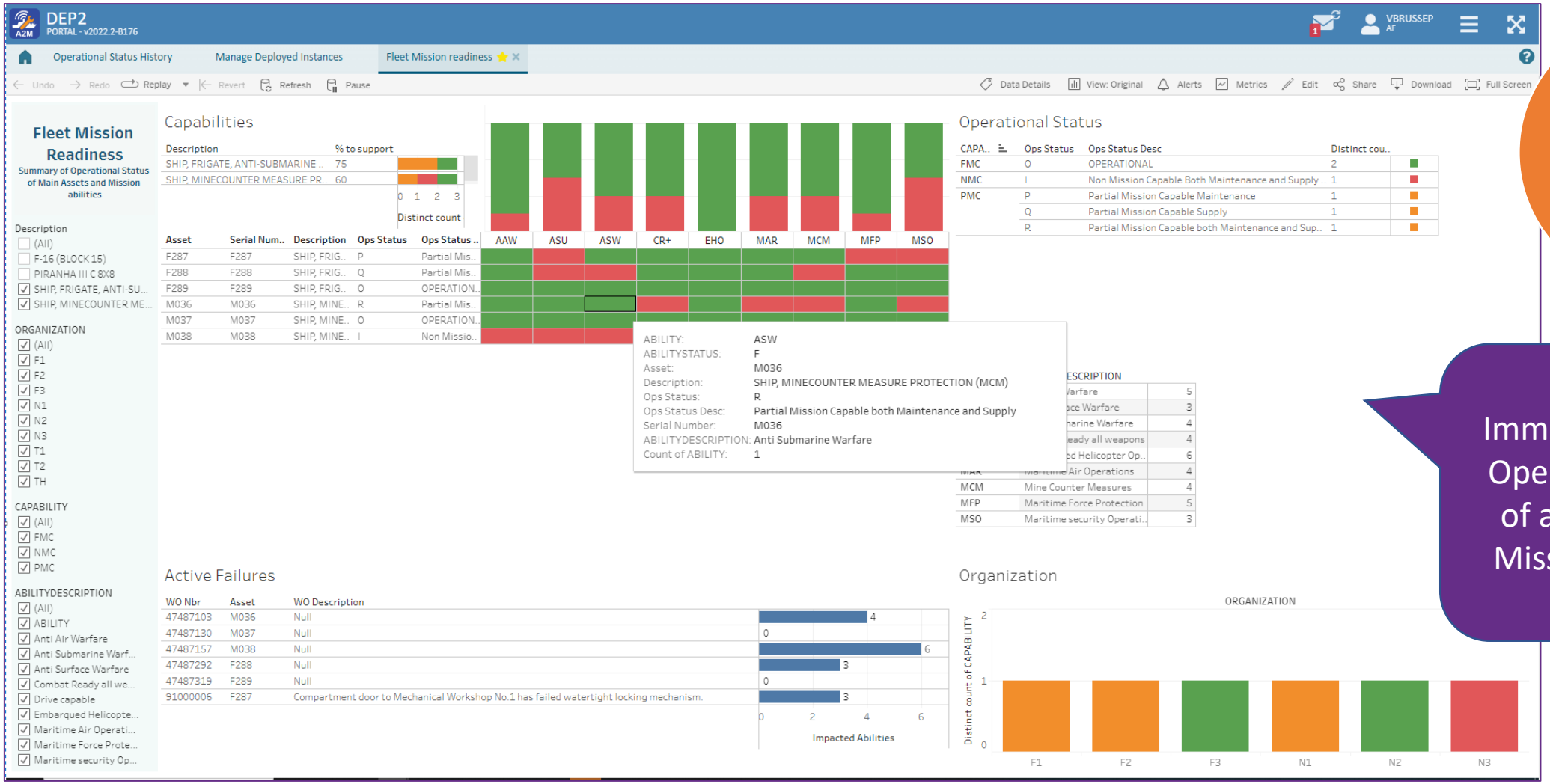
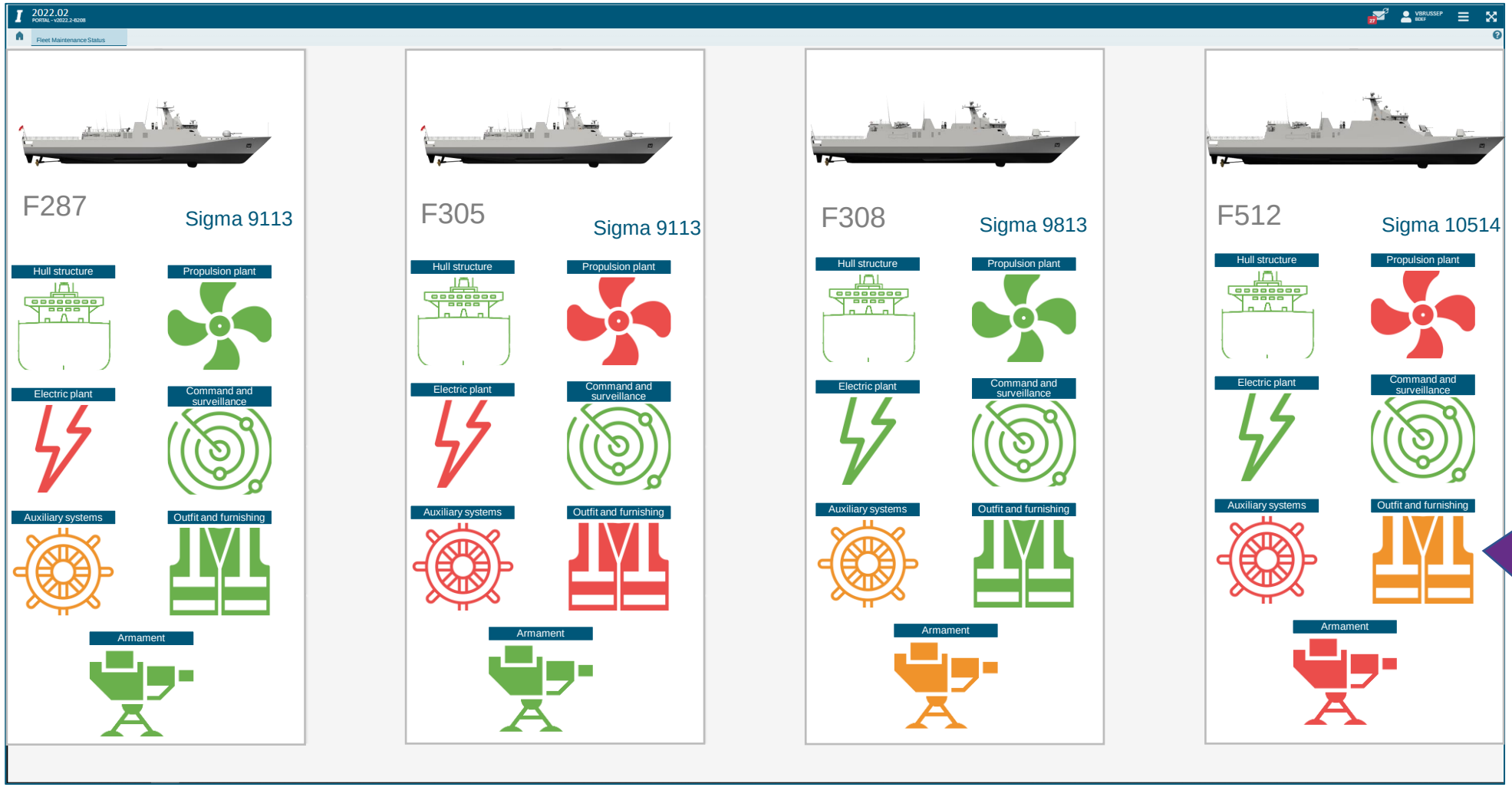
Fleet Mission readiness



Operational Relevance

Immediate view on Operational Status of all vessels and Mission readiness

Maintenance status of main vessels



Material Readiness

Immediate view of Maintenance Status of each sub-systems of the various vessels of the fleet

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ILIAS platform integration

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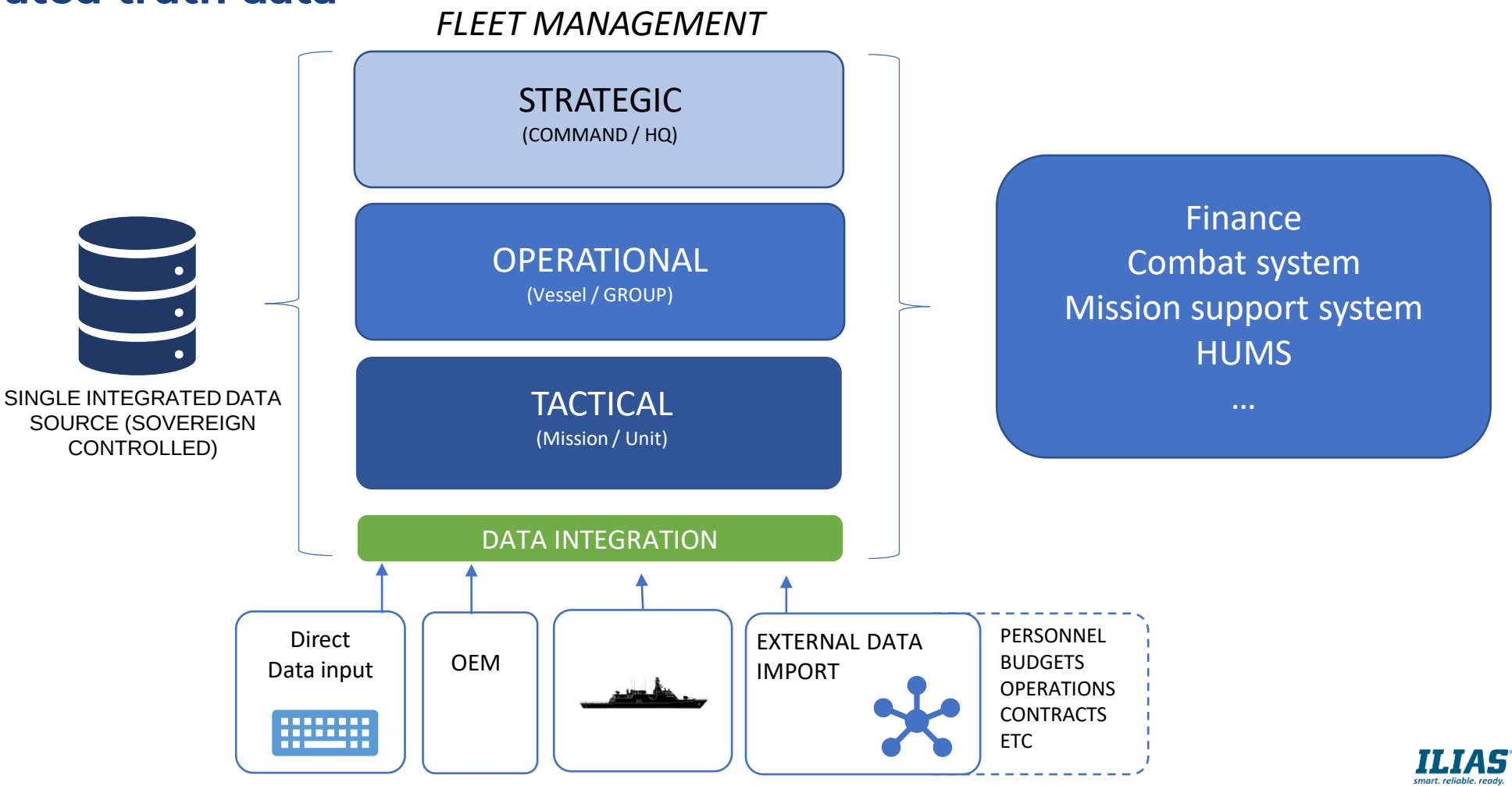
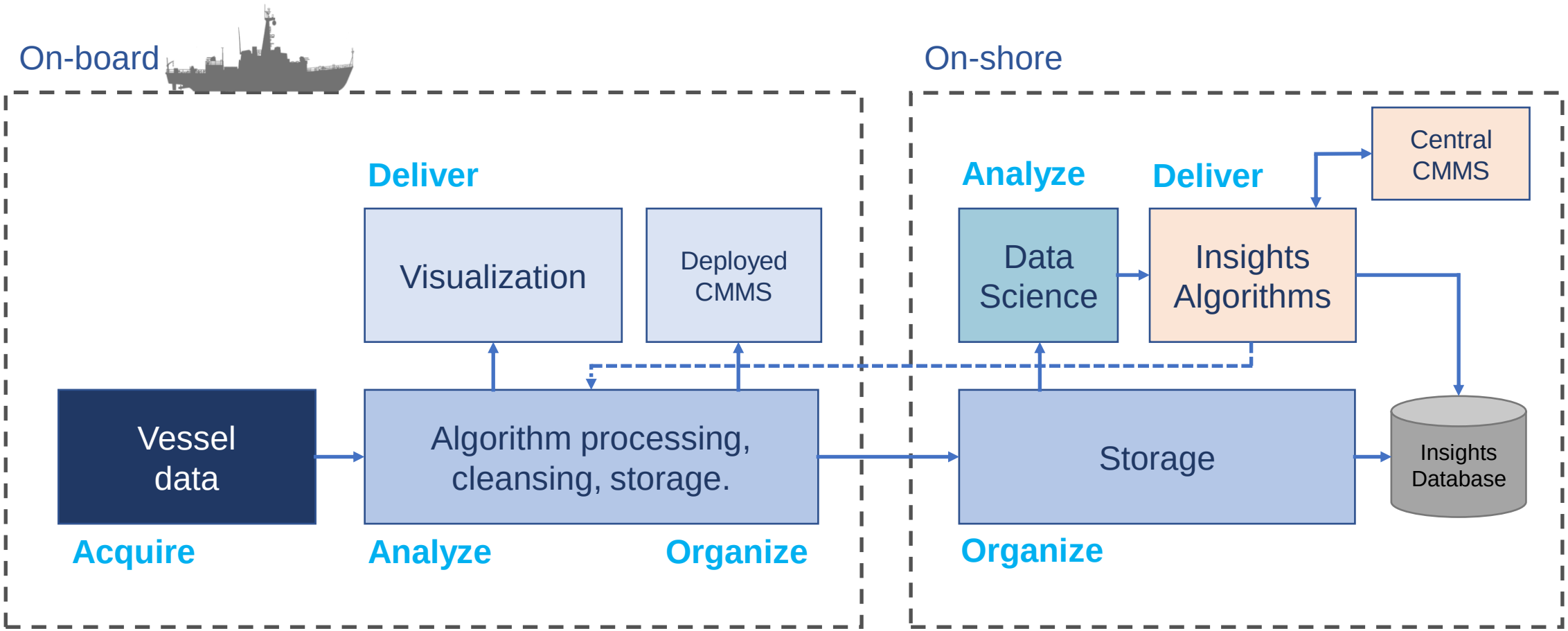
Joint fleet management

Integrated truth data



Joint fleet management

Condition-based Maintenance with I-HUMS



Summary

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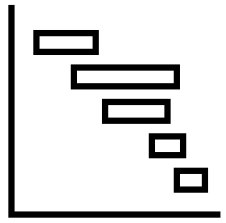
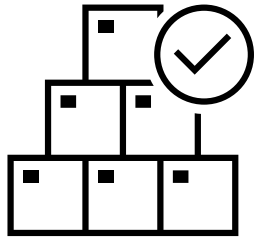
Key Ingredients of the Solution

Detailed Maintenance specifications



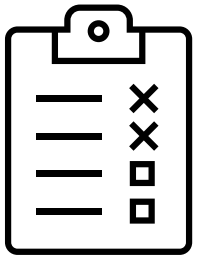
Getting organized for success

Asset monitoring

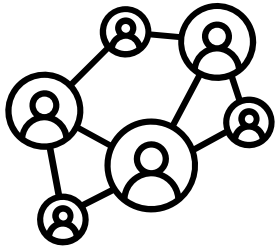


Integrated Supply chain

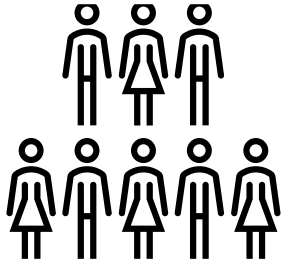
Autonomous



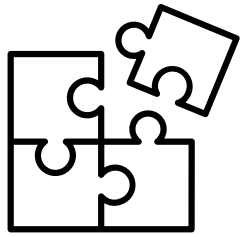
ILIAS-Guide



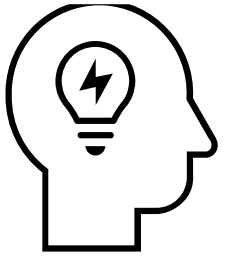
Involve all actors look for synergy



Workforce currency



Integrated solution



Best Next Action

ILS decision support
Always in control

A2M

It's all about the next best action

Monitoring your process

Information at your fingertips

In-depth analysis

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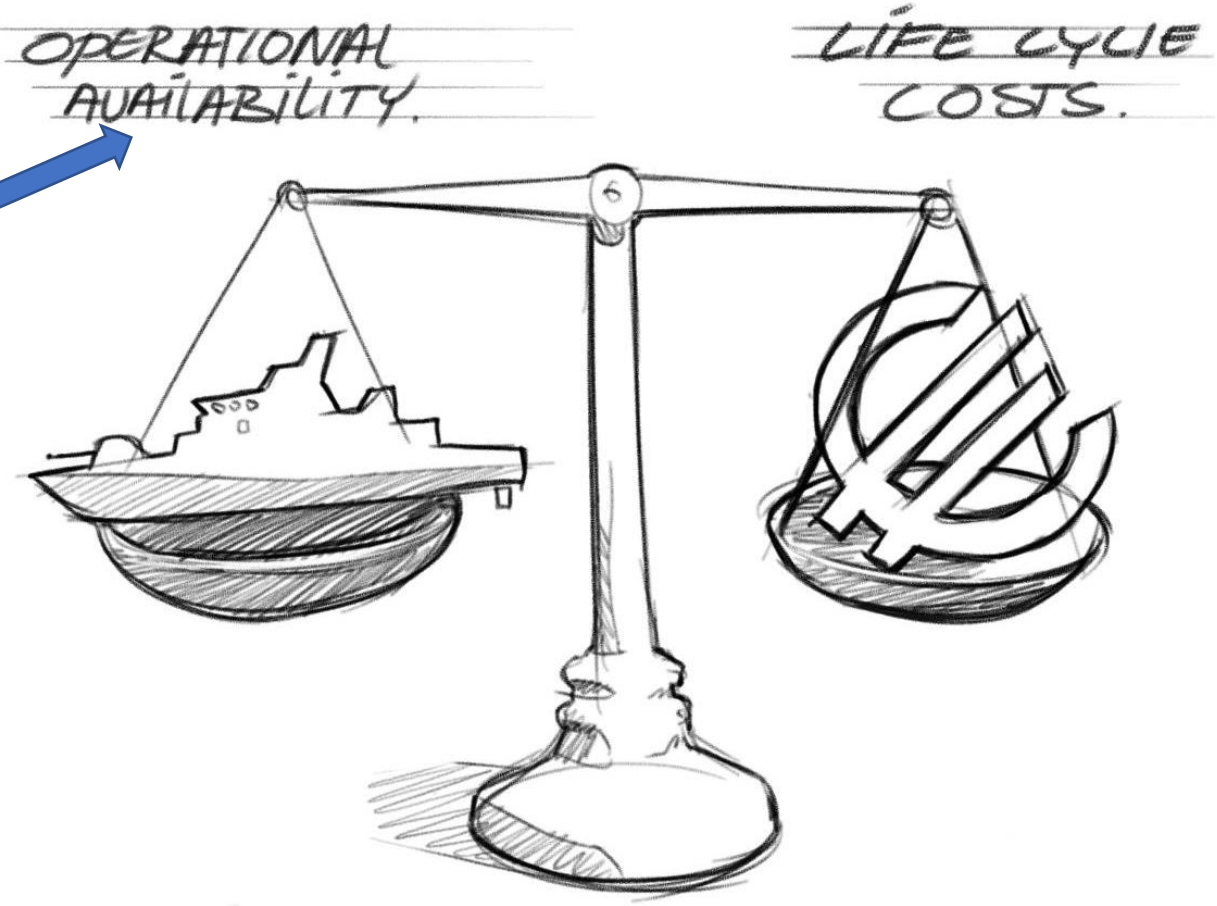
Conclusions



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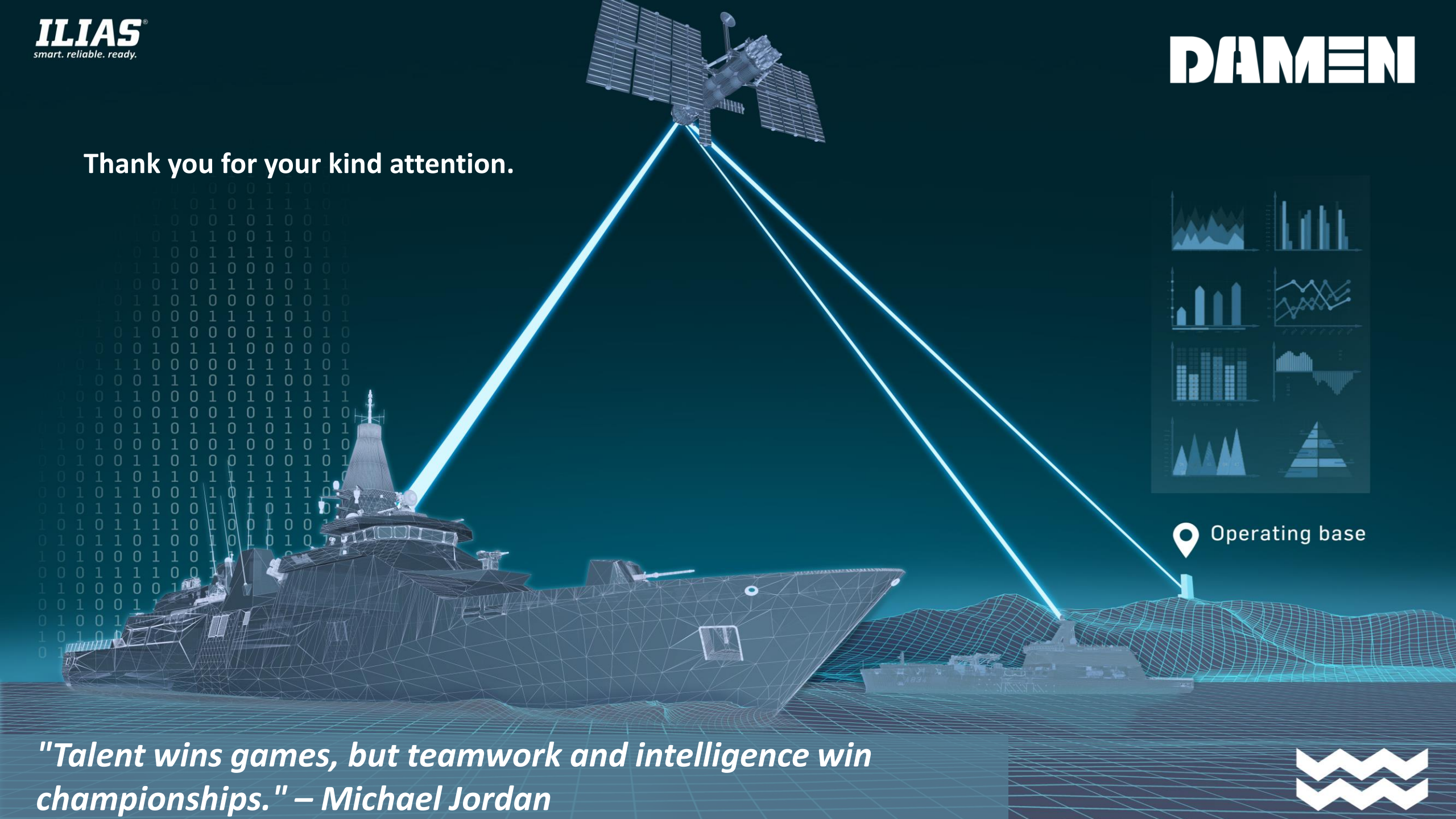
Thank you for your kind attention.



"Talent wins games, but teamwork and intelligence win championships." – Michael Jordan

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