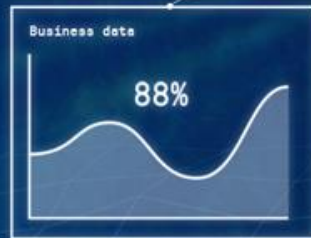




From a closed lake to an open sea

Maritime digital technology: moving to open infrastructure



Digital Ship, Athens
Dionysis Asimakopoulos

KONGSBERG DIGITAL





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Mindset





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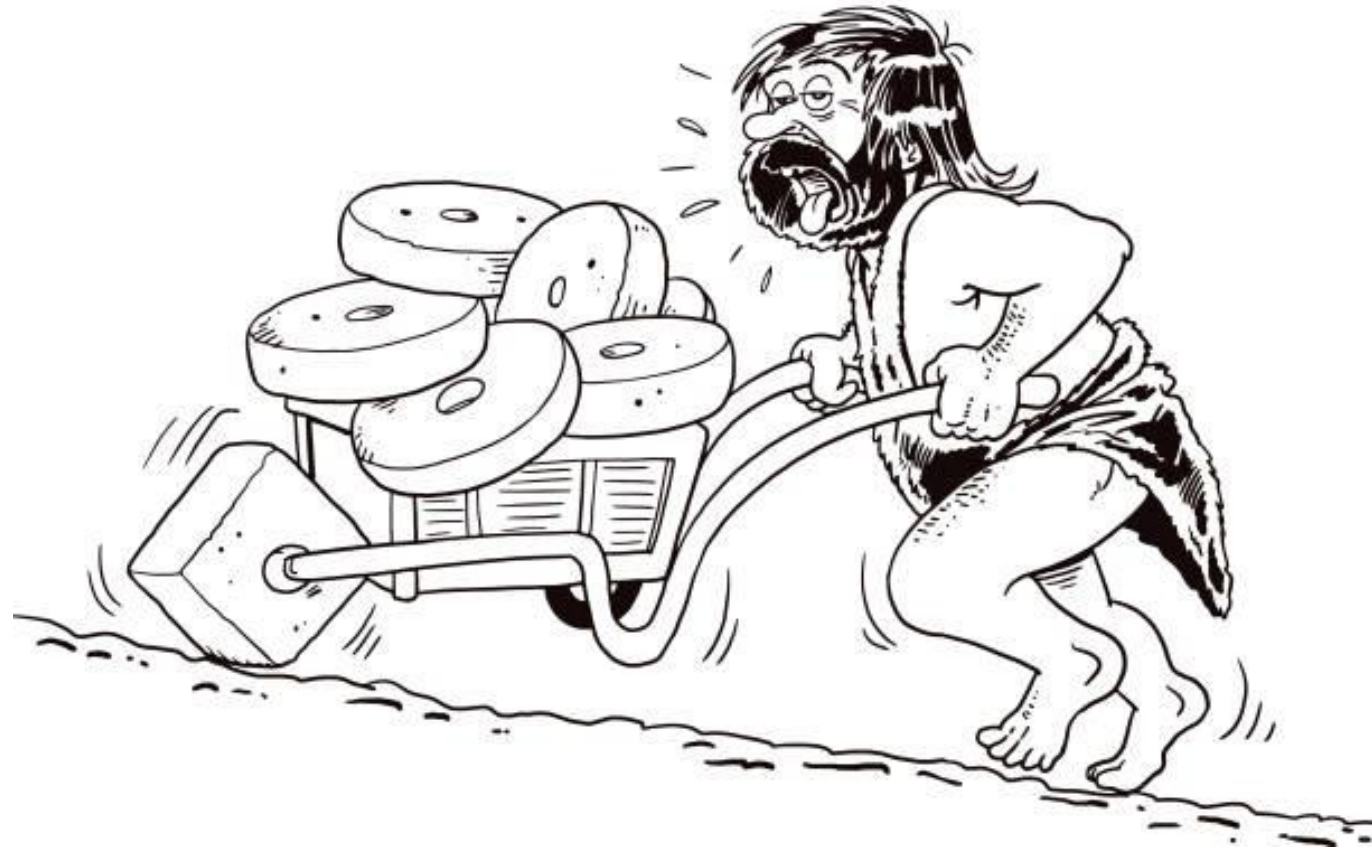
Going forward





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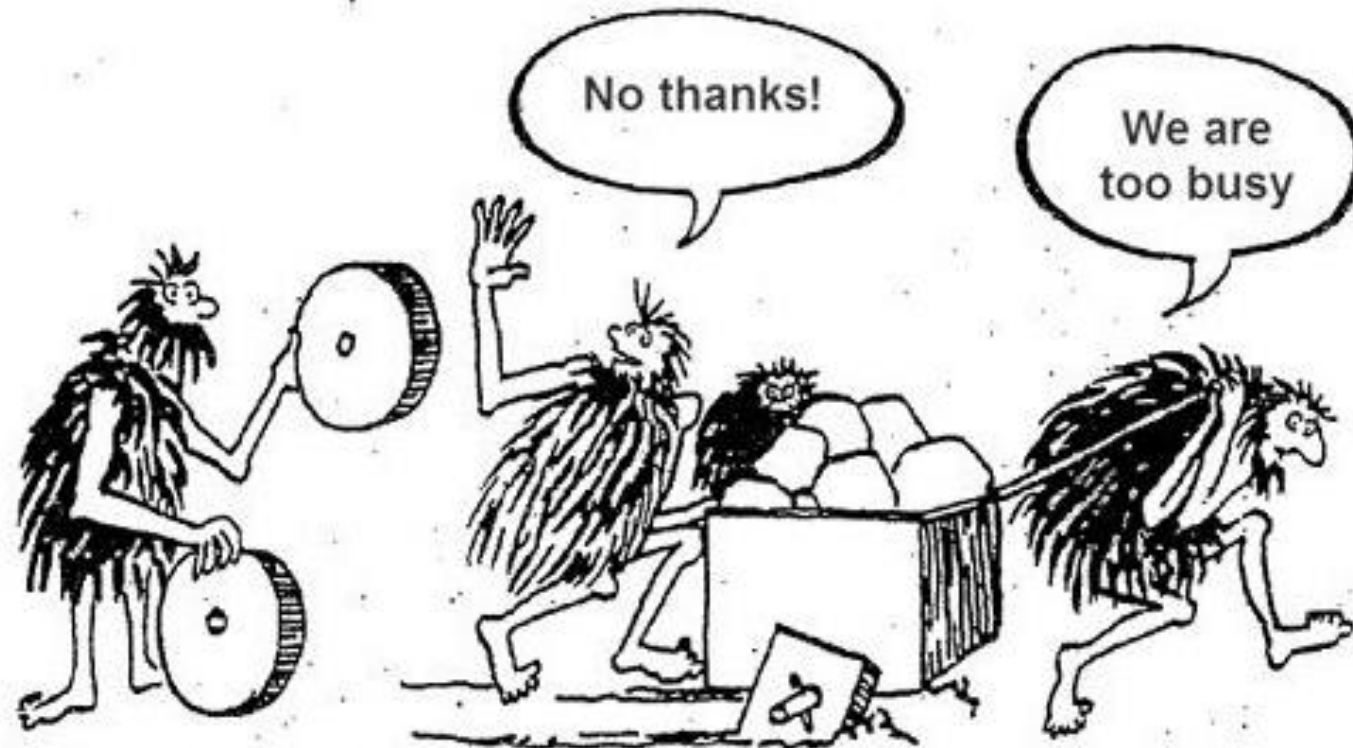
Seeking the right path





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Resisting to change





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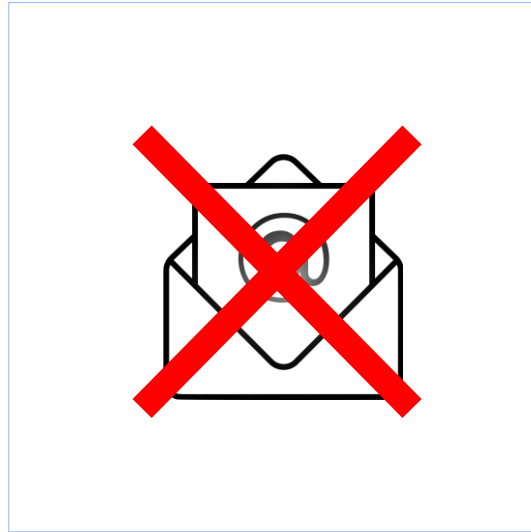
Think again





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You have already done it





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Digitalization today

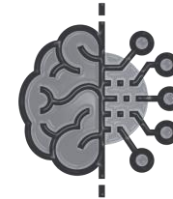
IoT, Big Data



Cyber Security



Machine Learning,
AI





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Digitalization today

Collect data
&
standardize

Be secure

Analysis
&
insights



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What lies ahead?



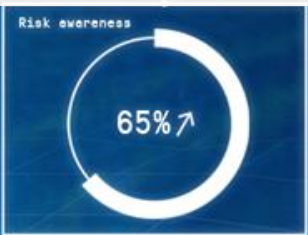


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Baseline is the door



Data is the key

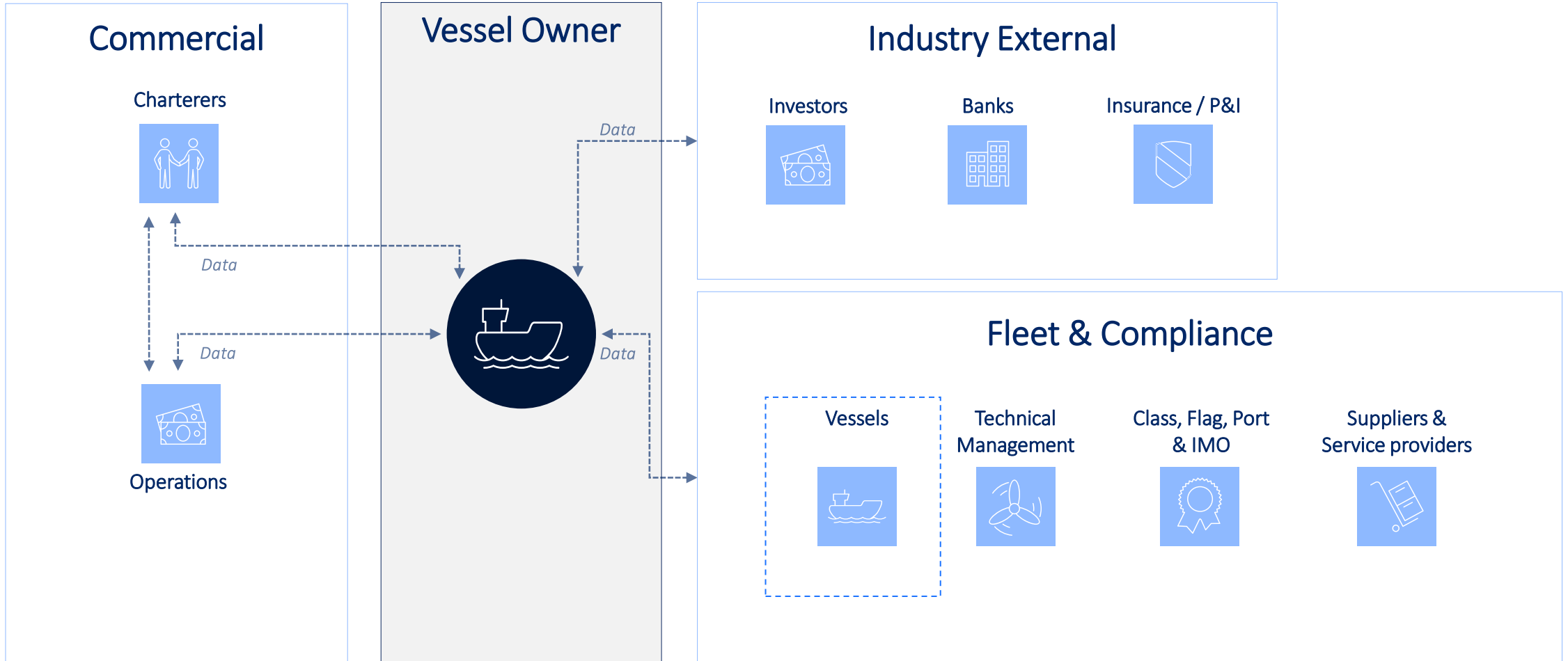




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Who is asking for data?

Increased demand from stakeholders across the value chain



Transparency



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You own your own data.

You decide, what & who you want to share it with.



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Ownership & access to data do not solve any challenges.



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Unstructured data is useless ...



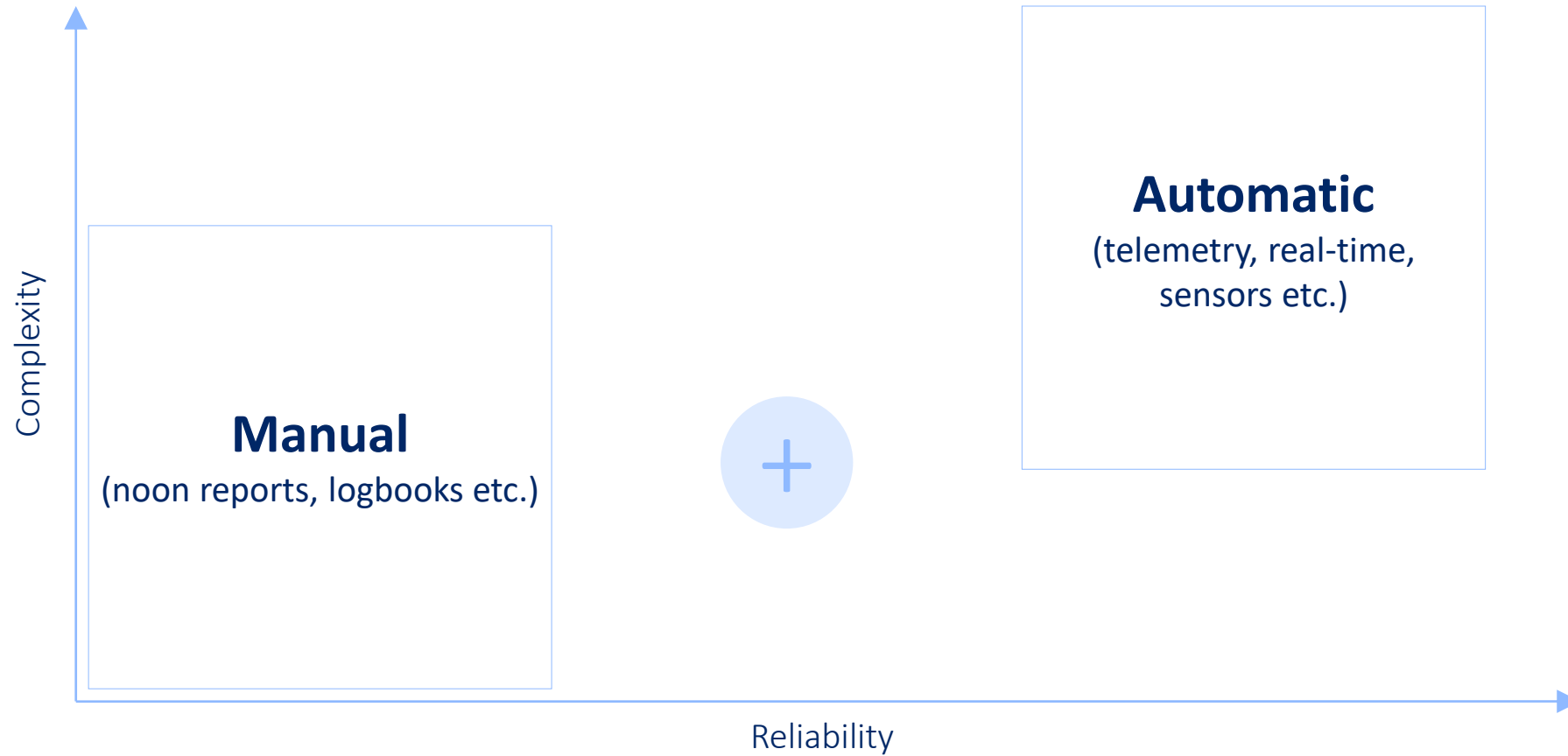
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... and structured data is only valuable if you know how to use it.



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Data sources



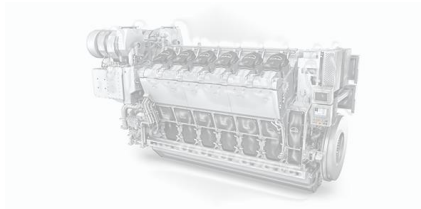


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How easy can you access & structure the data?

Too many stakeholders, signals and equipment

Makers



3rd Party apps



In-house systems



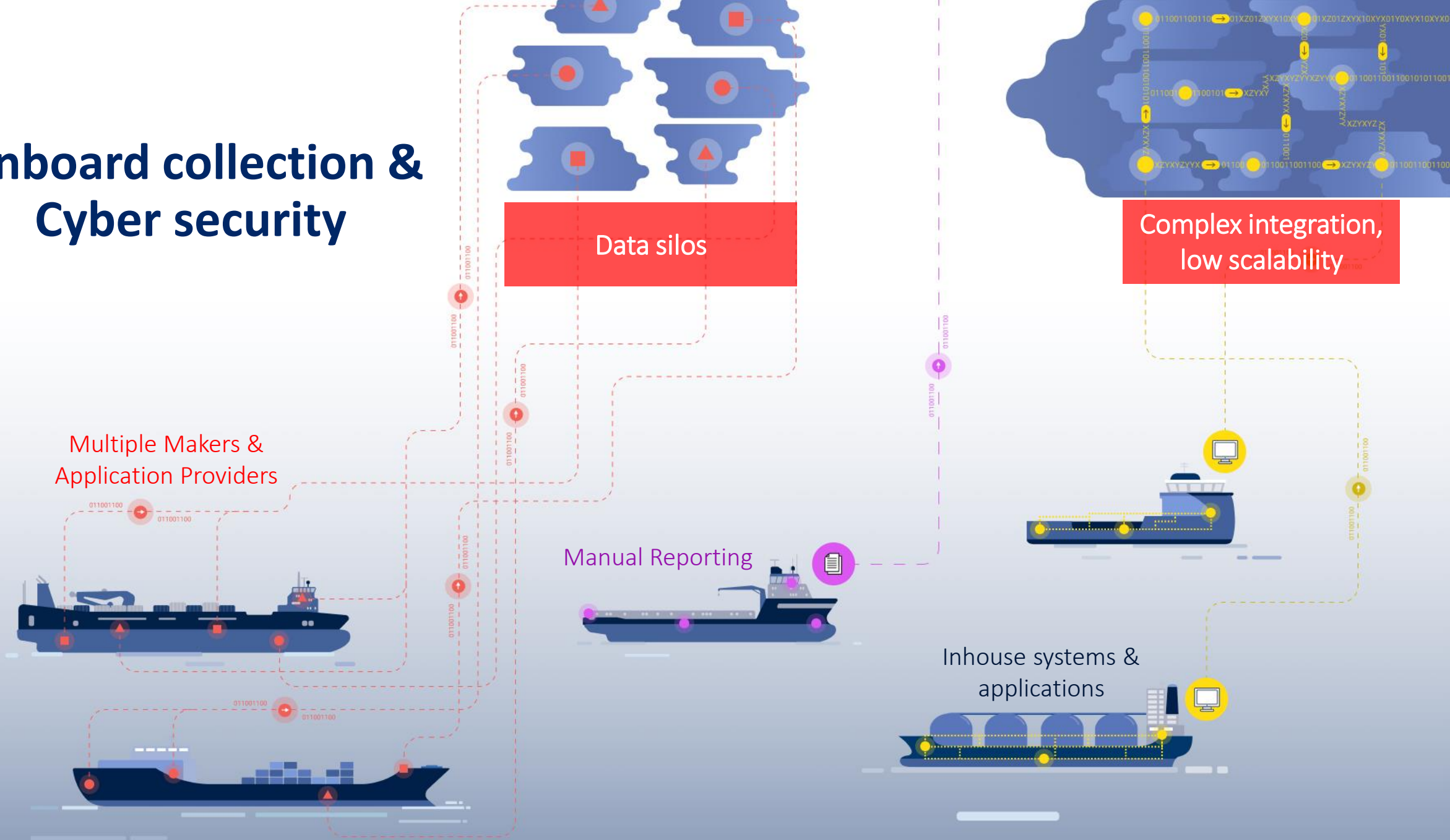
VESSEL WITH 50 SENSORS SENDING AT ONE HERTZ:

3000 DATA POINTS PER MINUTE

43000000 DATA POINTS PER DAY

1600000000 DATA POINTS PER YEAR

Onboard collection & Cyber security



Data standardization

Garbage in
Garbage out

High mapping &
standardization cost

High maintenance cost

Multiple platforms &
sign-ins





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Is it possible to choose the right partners...

....when everyone is pitching the same?

The image displays a comprehensive grid of 550 logos representing various maritime industry partners and services. The logos are organized into several key functional areas:

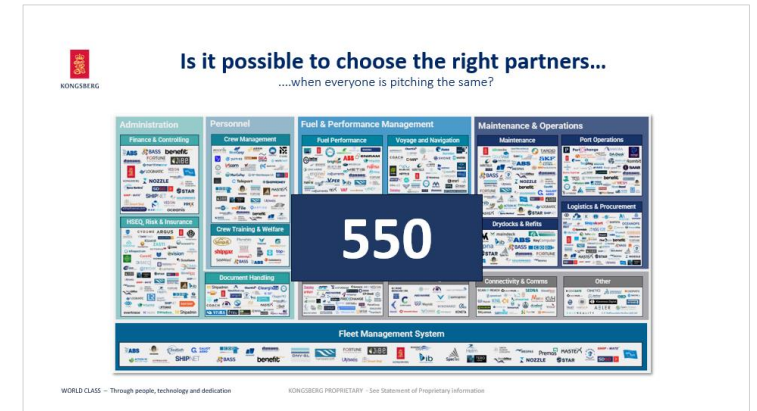
- Administration:** Finance & Controlling, HSEQ, Risk & Insurance.
- Personnel:** Crew Management, Crew Training & Welfare, Document Handling.
- Fuel & Performance Management:** Fuel Performance, Voyage and Navigation.
- Maintenance & Operations:** Maintenance, Port Operations, Drydocks & Refits, Logistics & Procurement, Connectivity & Comms, Other.
- Fleet Management System:** A dedicated section at the bottom featuring logos for various fleet management solutions.

In the center of the grid, a large white number **550** is displayed on a dark blue background, representing the total number of partners shown.



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A mess

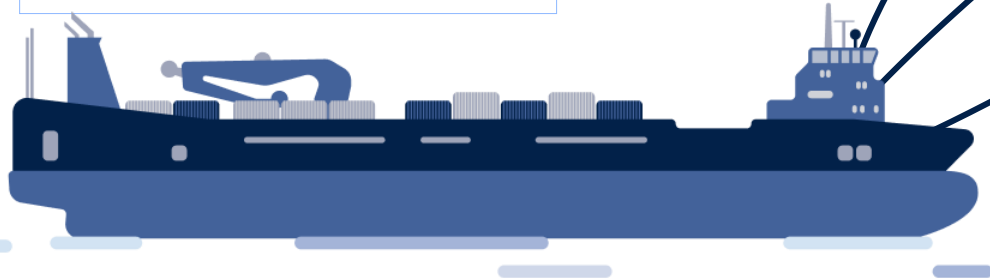
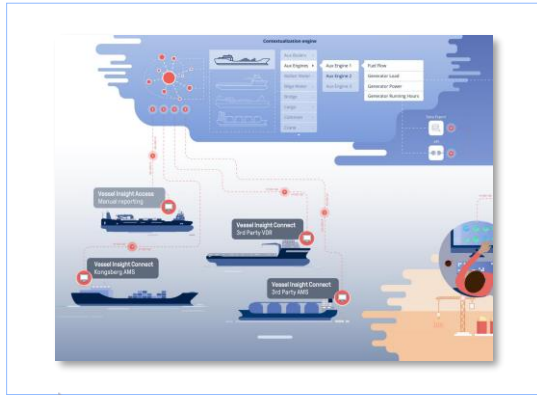
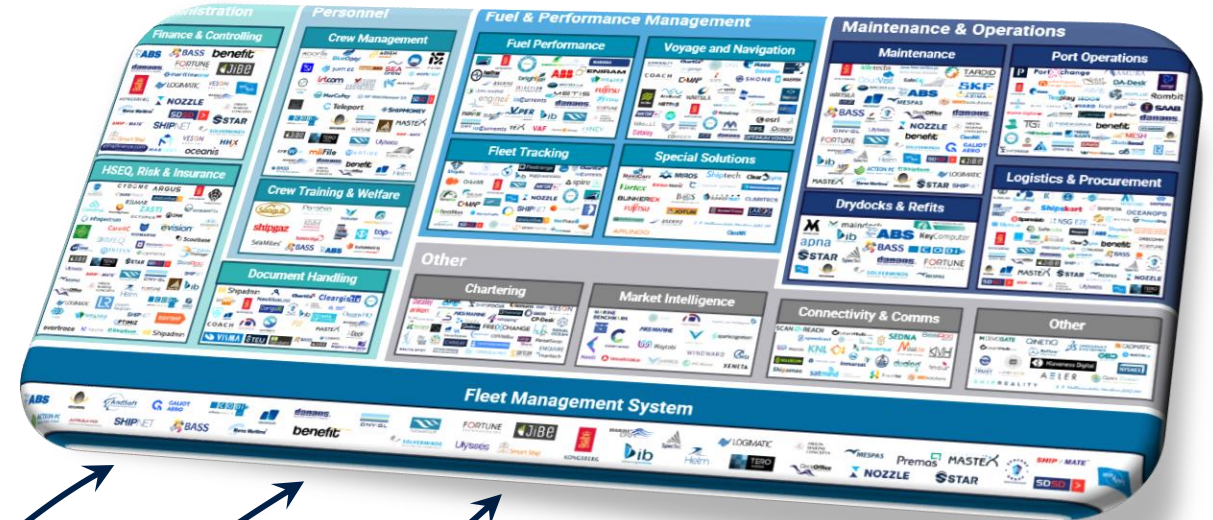




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ONE data collection system – forever FLEXIBLE

Be safe, now and *in the future*

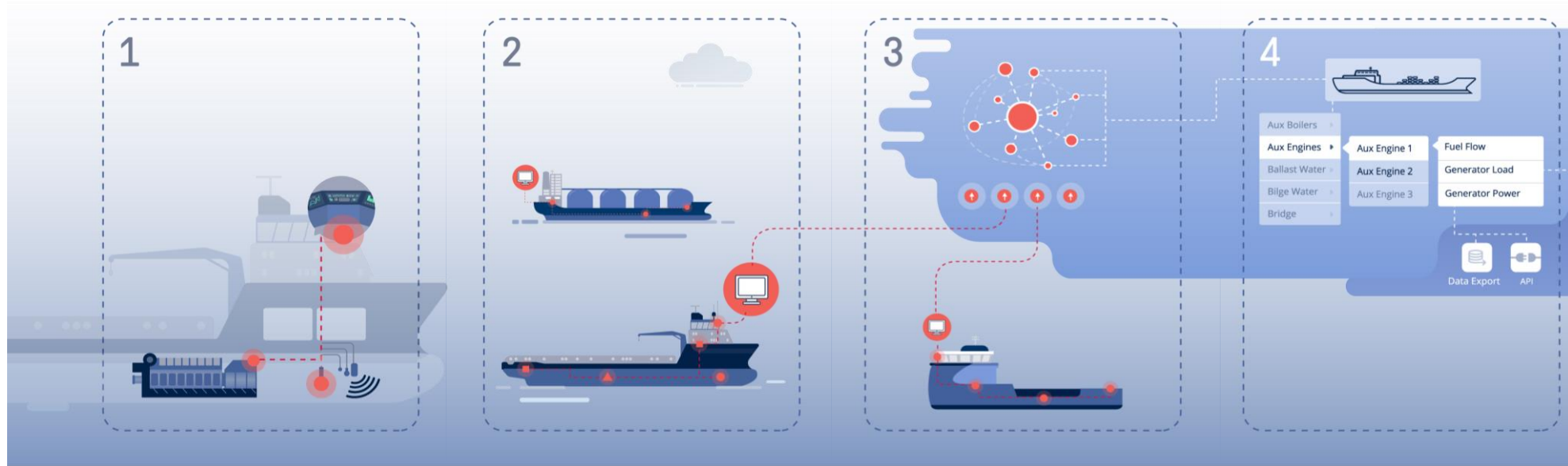




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Paving the way forward

Ship to Shore Infrastructure



Data capture onboard

+ manual data

ONE source of data

aggregation & death of silos

ONE Cyber security

ONE Cloud

ONE Data Lake

Standardization of signals



KONGSBERG

Paving the way forward

Ship to Shore Infrastructure



ONE source of data

ONE Cyber security

ONE Data Lake

Aggregation & death of silos

ONE Cloud

Standardization of signals



KONGSBERG



Vessel Insight

One common data infrastructure



KONGSBERG

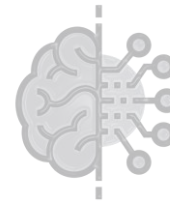
IoT, Big data



Cyber Security



Machine Learning,
AI



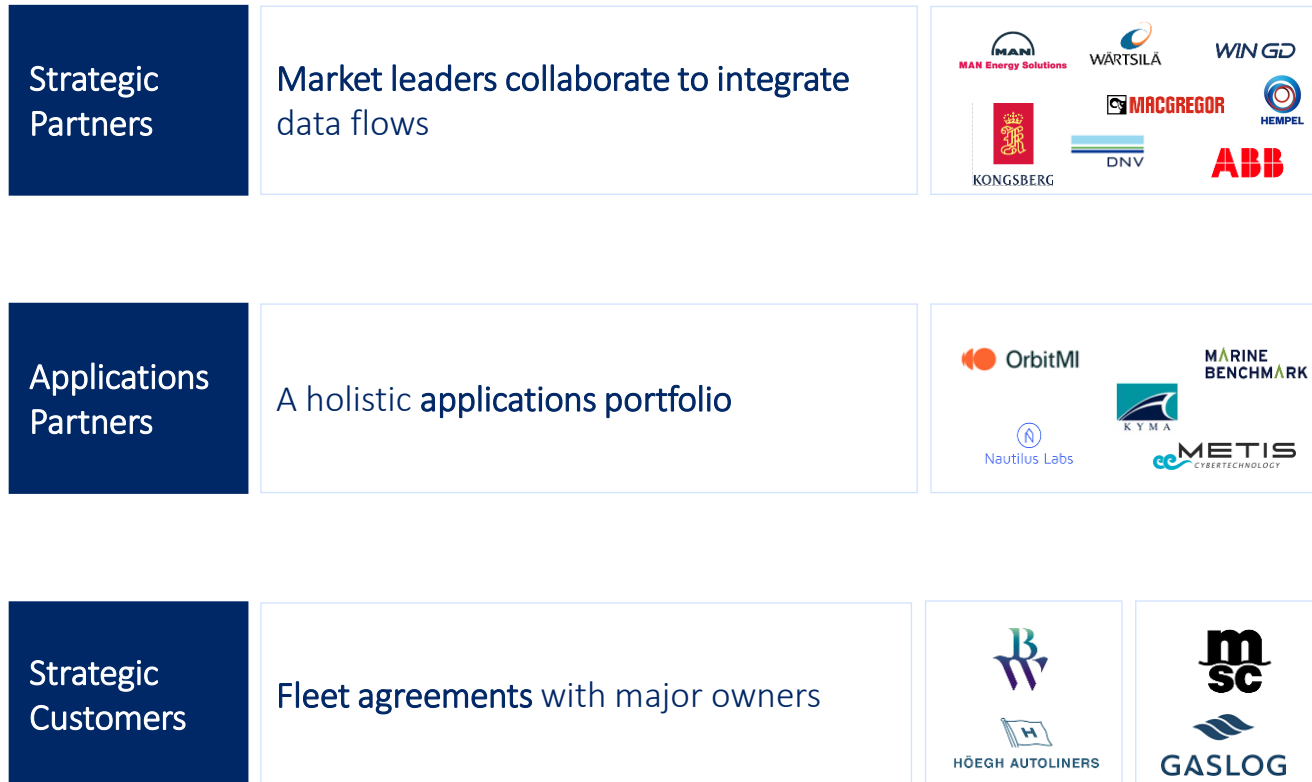
Vessel Insight

One common data infrastructure



Collaboration is the key

Our open Ecosystem is constantly evolving





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A shipping AppStore in your hands

Everything you need now & in the future



App Store



KONGSBERG

A shipping AppStore in your hands

Everything you need now & in the future



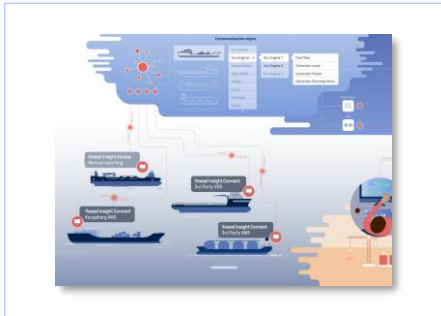


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Embracing an open Ecosystem

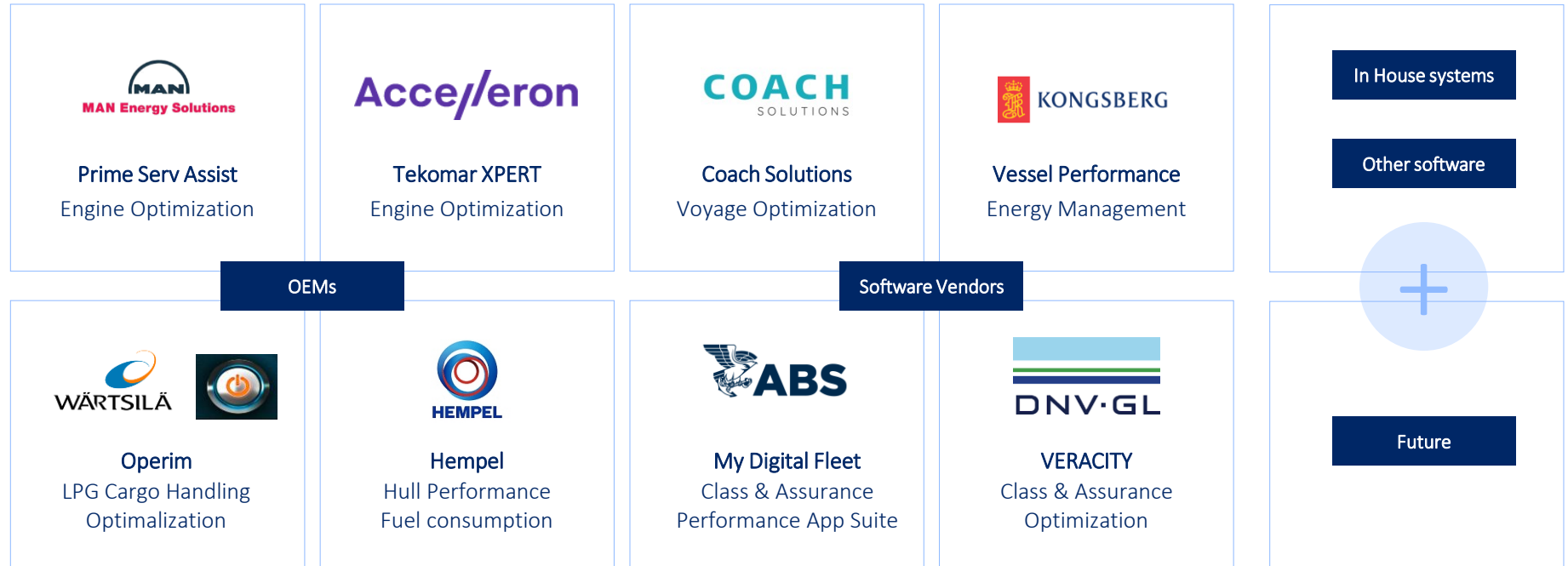
Running on data collection & contextualisation from Vessel Insight

Vessel Insight Infrastructure



Strategic partners & Marketplace examples

Unlimited options





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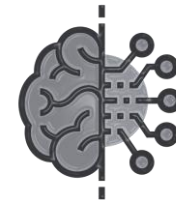
IoT, Big data



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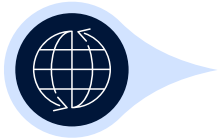
Vessel Insight

One common data infrastructure

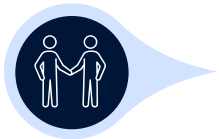


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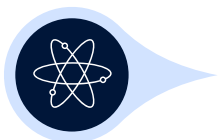
Why Kongsberg Digital



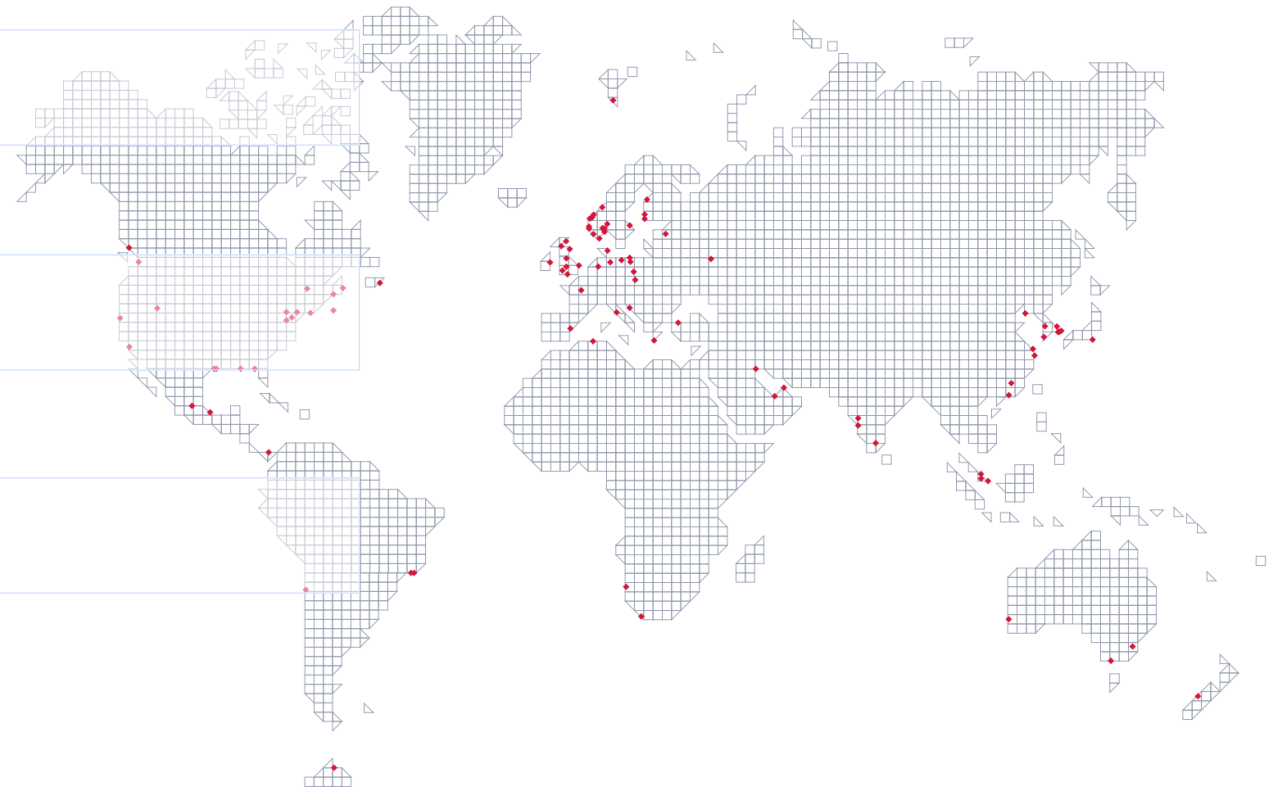
Know-how



Collaboration



We are on a mission!





KONSGBERG

Thank you



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dionysios.asimakopoulos@kongsbergdigital.com