

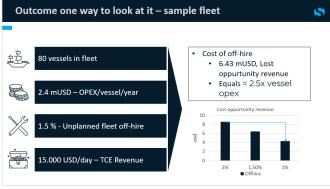


Connecting processes and data - Technical Ship Management

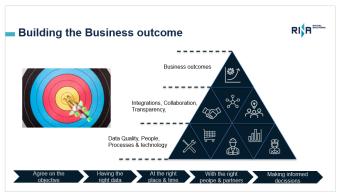
### Agenda











# **RINA Today**



4,000

colleagues



Our people



200

offices



<del>\</del>

70%+

educated to degree level

43

average age

**70** 

countries

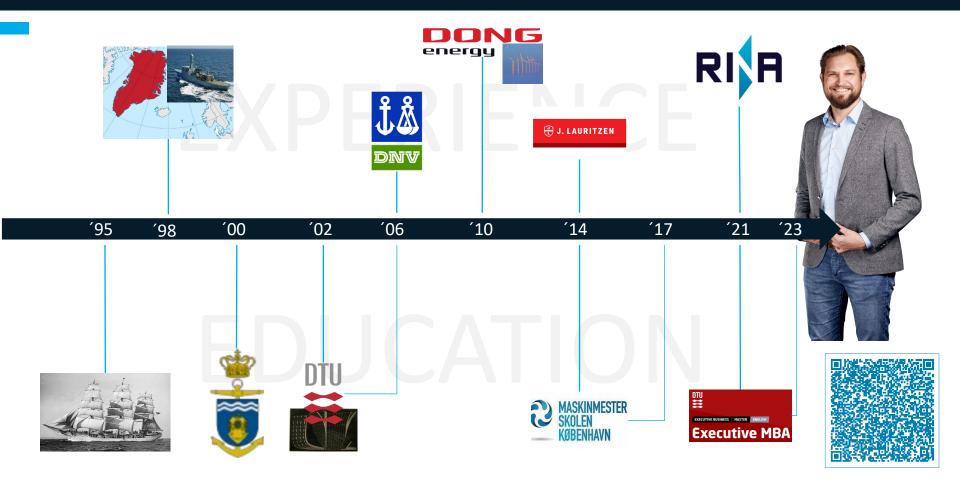


Maritime, 4000+ units in class, 50+mGT Energy Certification Transport & Infrastructure Industry
Real Estate

More than 90 nationalities

# Troels Møller – Customer Success Manager





# **RINA Digital Solution A/S**



### **Product portfolio**







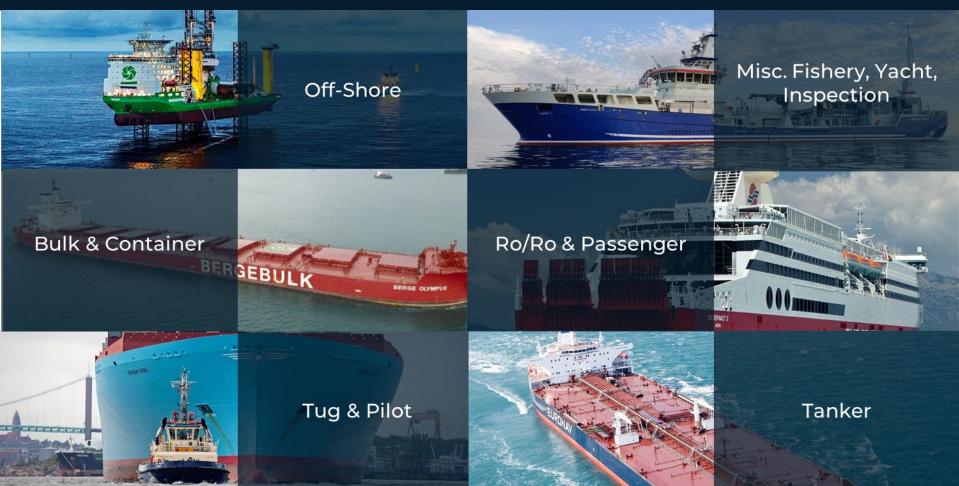


### Company

- Company originally founded in 1987
- 30+ years experience
- 50+ employee
- 50+ Maritime customers
- 150+ industrial customers
- Headquarters in Aalborg, Denmark
- All development done inhouse
- All Service & Support done inhouse

# Segments





### **Electronic Logbooks**



- Analog data being digtized
- Processes is next step.
- Trick is to re-use the same data in different applications
- User should not enter the same data in multiple systems



# **OPTIMUM Performance Management**



OPTIMUM is a modular digital solution to ease the fleet performance management and optimization, that helps monitor and overcome the upcoming decarbonization challenges.



#### **MONITOR**

KPIs monitoring, onboard systems live monitoring, Alerts generation



#### **ANALYZE**

Retrofitting actions based on real return of investment, create hydrodynamic models



#### **OPTIMIZE**

Trim and Voyage optimization, benchmark with performance targets



#### **DECARBONIZATION**

Achieve and monitor the compliance with regulations over time

### Outcome one way to look at it – sample fleet





### 80 vessels in fleet



2.4 mUSD - OPEX/vessel/year

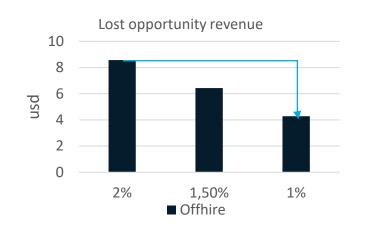


1.5 % - Unplanned fleet off-hire



15.000 USD/day – TCE Revenue

- Cost of off-hire
  - 6.43 mUSD, Lost oppurtunity revenue
  - Equals ≈ 2.5x vessel opex



### And what is the cost of...





Dissatisfied customers, clients a.o stakeholders?



Time spent fighting fires, reporting, insufficient systems?



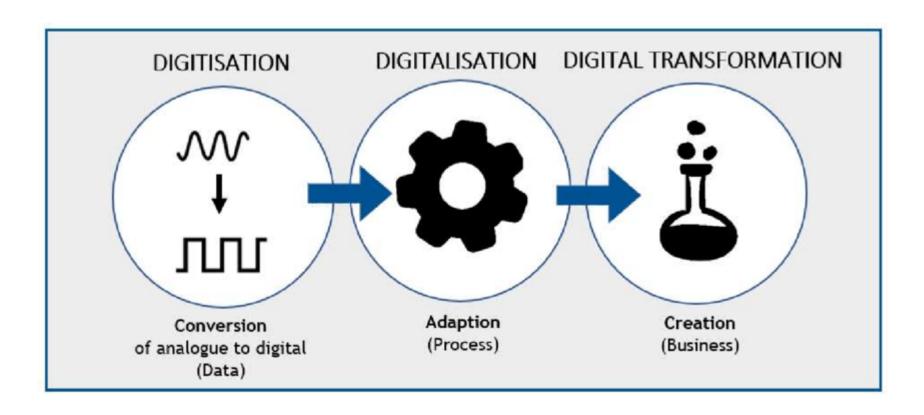
Ressource drag on crew onboard and ashore?



Un-happy, un-motivated people?

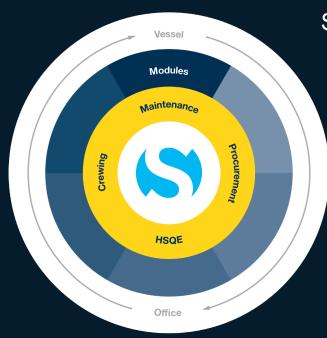
### Digitalisation | The way forward





## Multiple Disciplines | One solution





SERTICA can with...

- Quality data
- Reliable data exchange
- Streamlined internal processes
- Overview of entire fleet
- Key data in analyzed & dashboarded

...be an enabler to avoid un-desired off-hire and Optimize <u>performance</u> in technical management

### Multiple Disciplines | One solution



50+ shipping companies using the SERTICA platform on 1400+ Vessels



**Maintenance** – Equipment data, Maintenance & performance recordings, history, plans, breakdowns, Dry- docking, Certificates etc.



**Procurement** – Suppliers, Contracts, Orders, distribution, Lead times, catalogues, Inventory & stock, invoices, budgets, etc.



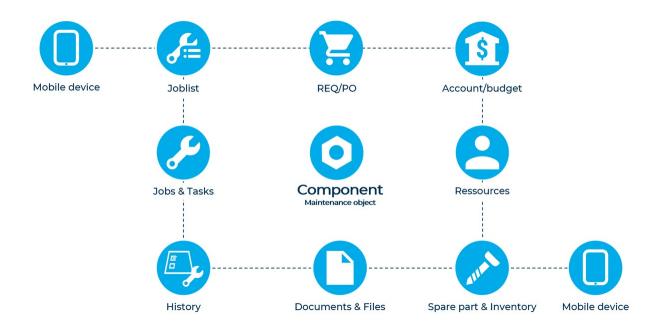
**HSQE** – Drills, Incidents, Accidents, Inspections, audits, observations follow up etc.



Crewing – Management, planning & rotation, Payroll, etc.

# **SERTICA Maintenance | The basics**

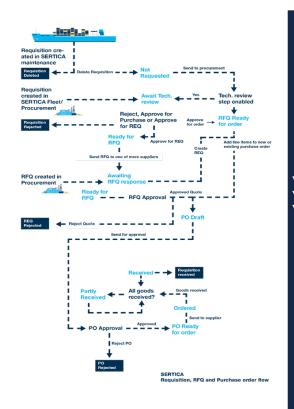




The Component is a central element in SERTICA. It can be used for many different purposes and not only maintenance related activities. Components and its subcomponents will design the tree structure







Vessels Maintenance Inventory Requisition

**Technical** Department Requisition Handling Tech. approval Spare parts Oualification Forecasting

Ouotes Orders Approval Supplier Invoice

Cost Control Management Matchina

**Purchasing** 

Department

Logistics & Distribution



- Agents
- **Forwarders**
- Shipment Documents

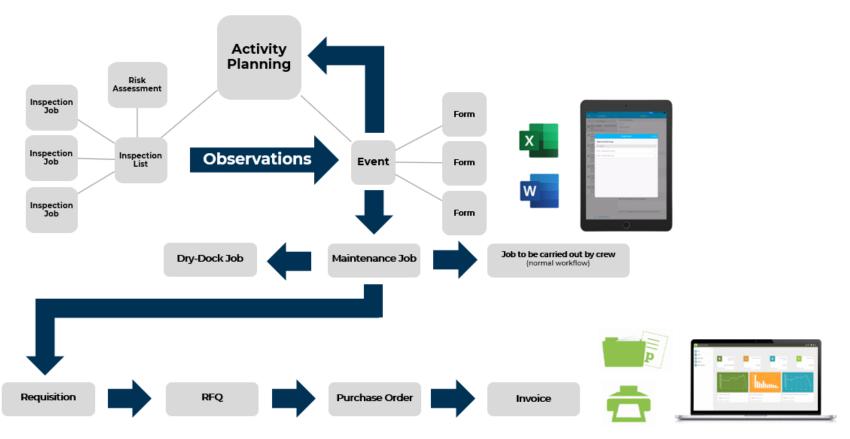
Finance & Management



- Contracts
- Accounts
- Invoice payment
- √ Financial Reporting

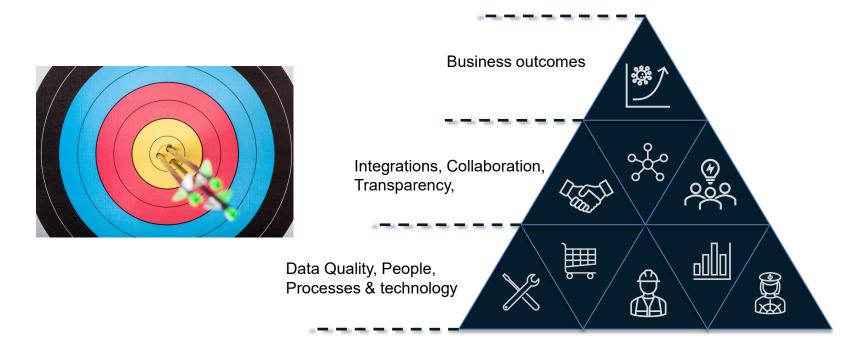
# **SERTICA HSQE**, example





## **Building the Business outcome**





Agree on the objective

Having the right data

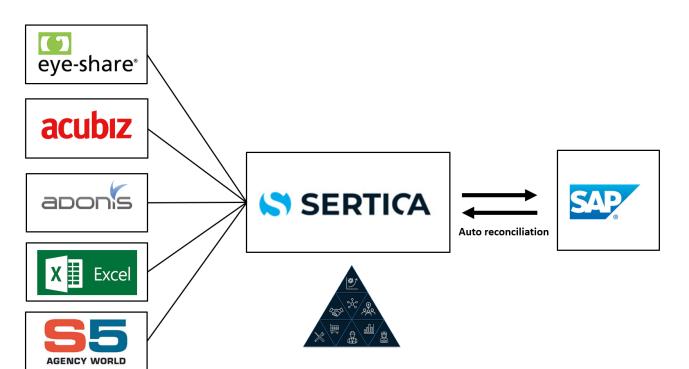
At the right place & time

With the right peolpe & partners

Making informed decissions

# **SERTICA SYNC.** | Customer example





All costs (OPEX, Dry-Dock, New buildings etc.) are updated in SERTICA.

SERTICA then feeds SAP with data & info and is total in-sync with SAP.

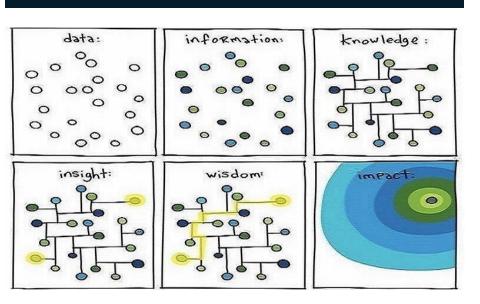
SERTICA is the main system.

This is where they find all relevant data & info for technical fleet operations.

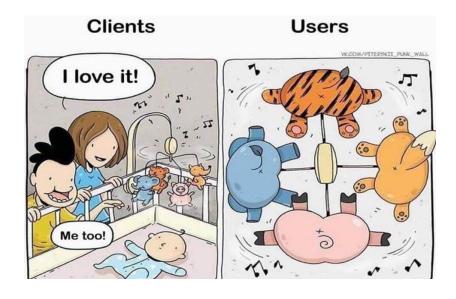
### **Adding Value**



### Data based goals - Value driven decisions



#### Make sure it adds value for end-users





- Near Miss Reports
- Event Reports
- Actionboard
- Drills
- N/C



- Spareparts
- Inventory
- Catalogs



Dry Dock

Yard Quote

Shipdex

### **AUTHORITY, CLASS, YARD, PORT**

Inspection Audits

#### SHIP / UNIT



- Cpt. / 1st / Chief
- Messages / Info
- Responsibility
- Response Log
- Notifications
- Ack. ISM



- Calendar / Hours / CBM
- Equipment / Assets
- Defects
- History
- Joblist

### **Connect Integration**

**Quote Overview** 

Price Management



Shipdex

Framework Contacts

#### **SUPPLIER**

#### **RESULTS**

No Detentions | Equipment Availability Vessel In Perfect Condition | Compliance W. Class **Happy Crew** 

Reduced Workflows | Minimizing Errors Fleet Overview | Cost Optimization **Data Streamlining Save Money** 







- Logistics / Stock
- Consolidation
- Connect Web
- Workflow
- Approval
- Supplier QA
- RFQ
- P.O



- Change Management
- User Management
- Operating status
- Synchronization
- Data Exchange
- Interfaces
- Admin



- Document Management
- Technical Review
- FM Overview
- PMS
- Approval



- Technical Review
- FM Overview
- Master Data
- Approval
- PMS



- Financial Follow-up
- Accounts
- Budget
- Invoice



- Management Reports
- Dasboards
- Analytics
- KPI



# Data integration | Next steps















#### **PROCESSES**

Procurement & logistics
Technical
People & quality

#### **MASTER DATA**





## Road ahead | focus



It now requires greater collaboration with business leaders and users"

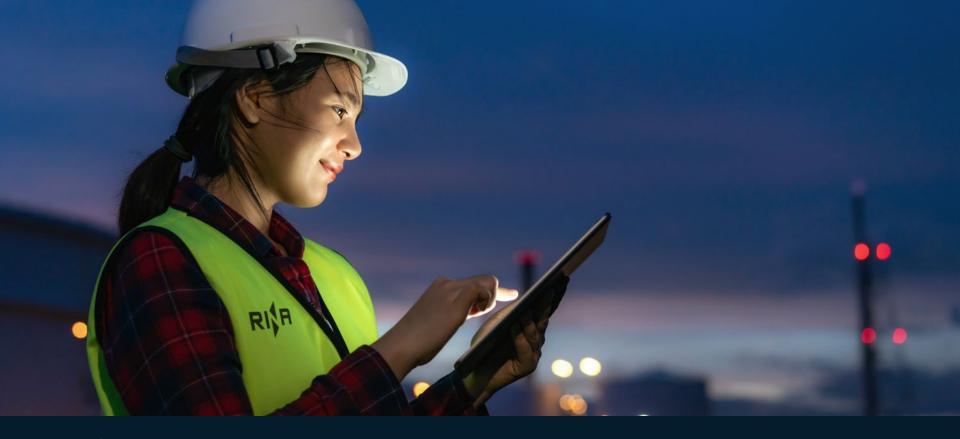








It must cover much more than just technology. It must include workflow, roles, collaboration and processes





Make it sure, make it simple.