

Saving costs through innovative maintenance planning and performance

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On the edge to the future – Crystal ball reflections



1. Industry trends

- Maintenance
- Logistics

2. New requirements

- Technology
- Processes
- Digitalization and data quality
- Software functionality

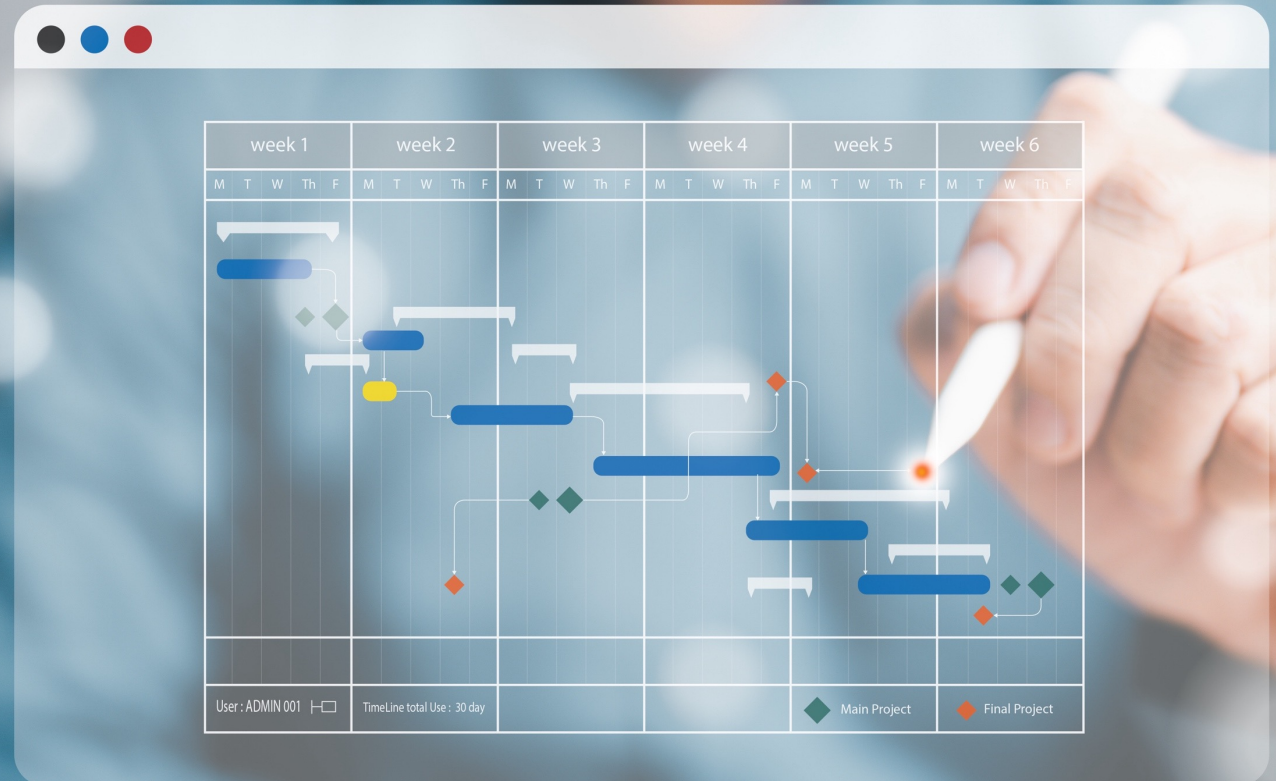
Trends Maintenance

- More complex equipment
- Sensors for equipment condition
- Experts needed to analyze sensor data [OEM]
- Onboard crew not qualified to perform maintenance
- Less crew onboard [cost saving]
- Responsibility for the vessel remains at the operator/manager
- From calendar based to condition based



Requirements Maintenance

- 3rd party service providers and special maintenance teams.
- Maintenance while ship is in port.
- Maintenance campaigns.
- More planning, preparation, and coordination of resources.
- Integrations.
- Sufficient access to information.
- Sharing of information.





Maintenance with STAR Suite

STAR Planner – Digital Twin

Software for alternative plans, coordination, and “what if” analysis.

STAR Mobile apps – Crew support

Easy access to data and end-user support while in remote locations.

Generic API for exchange of data [any data] relevant for planning, performance, condition, etc.

Integration with OEMs for equipment condition.

Supporting condition-based maintenance.

Processes for data quality improvements.

Digital twins for processes and/or data.

Trends Inventory, Supply and Logistics

- Reduced inventory costs/value
- Reduced procurement costs
- Simplified procurement processes
- Overview of fleet inventory
- Simplified data processing



Requirements Inventory Supply and Logistics

Master data quality

What is needed and when

Equipment condition and
predicted time for supply of spare
parts

Who can supply – where to get it
from

Delivery of service and spare
parts at the same time



Inventory, Supply and Logistics with STAR Suite



Stock sharing for onboard inventory

Warehouses for fleet purchase and distribution

Inventory at manufacturer

Notification for overstock quantities available

Automated transfer between ships for overstock items

Automated replenishment of consumables

Automated purchasing through contracts

Process and tool for master data quality

Planning, preparation and coordination of materials needed for maintenance campaigns

On the edge to the future – Crystal ball reflections

What is your vision of the future?
Please share!





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