## **PROJECT ORCHESTRATION PLATFORM** FOR HIGHLY COMPLEX **DEFENCE INDUSTRIES PROJECTS**

**Basic information for conceptual work on the example of** highly complex maintenance projects

Hamburg/ Mannheim; Q3 2023





### AGENDA

- **1** Stakeholder overview
- 2 Flowcharts w/ variations
- **3** Requirements + potential purpose
- 4 Input Avatar/ Hypertrust



**STAKEHOLDER OVERVIEW** 



## **STAKEHOLDER OVERVIEW**







## **FLOWCHARTS W/ VARIATIONS**



### A CRITICAL-PATH BASED OVERVIEW ON HIGH COMPLEX "CONVERSION-/MODIFICATION-" AND MRO-PROJECTS IN THE MARITIME DEFENSE ENVIRONMENT



### Slide 6

Vessel handover

Training

### HIGH COMPLEX "CONVERSION-/MODIFICATION-" AND MRO-PROJECTS SCENARIO: System/ Module modification initially contracted (Shipyard and Supplier Tier 1/2 parallel involved)



### Slide 7

Vessel handover

Training

### HIGH COMPLEX "CONVERSION-/MODIFICATION-" AND MRO-PROJECTS SCENARIO: **Unplanned component replacement after inspection w/ findings (change-order process)**



### Slide 8

Vessel handover

Training

### HIGH COMPLEX "CONVERSION-/MODIFICATION-" AND MRO-PROJECTS SCENARIO: **Planned component replacement after inspection w/o findings**



### Slide 9

Vessel handover

Training

### **REQUIREMENTS + POTENTIAL PURPOSE**



## **BUSINESS REQUIREMENTS AND ASPIRED PURPOSE**

- Design and provide an overarching process landscape for project success, as far as possible commonly agreed between major stakeholders
- Connect all stakeholders independent of contractual basis to improve information and project management performance
  - > Project management: manage change-orders, manage schedule
  - Define standard set of information for project success (schedule, order specification with all change-orders)
- > Steering function for project client
- (Additionally/ extended service offering: management of documentations)
- Comply with safety and security regulations (managing confidential information, BSI-certification, security clearances for persons involved)

- Much faster availability of safety critical objects (e.g. Navy vessels) (today up to 300% time-overrun)
- > Much reduced costs for MRO- and Modification projects (today up to 200% cost-overruns)
- Increased transparency over project status (schedule and dependent works)
- Increased planning and steering capabilities for project teams over various (contractually independent) stakeholders
- Reduced leadtimes and process costs due to:
  - > Increased process speed for information exchange
  - > Increased sharing of inspection results
  - > Tremendously increased process cycle time for change requests and orders
- Reduced documentation management and reporting effort (today up to 500 pages excel based scope of work)
- Future development potential e.g. predictive maintenance based on collected data



## **INPUT AVATAR/ HYPERTRUST**



## **CROSS-PROJECT FLOW ORCHESTRATION**

Transparency and Process Control in a Make To Order Environment





## **CROSS-COMPANY SUPPLY CHAIN FLOW EXECUTION**

**Transparency and Process Control in a Make To Order Environment** 





## **CROSS-COMPANY SUPPLY CHAIN FLOW FEATURES**

Transparency and Process Control in a Make To Order Environment





# **ANY MORE QUESTION?**

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