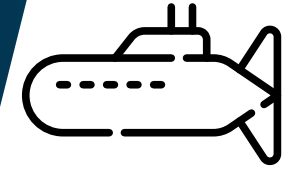


Definition and implementation of Systems Engineering to improve quality and performance throughout the entire supply chain and lifecycle



SELECTED RESULTS

MBSE – Function-System Allocation

PDP & Lifecycle Integration

SET Training-on-the-Job

CHALLENGE

- Major quality issues in the supply chain and delivery of new ships including poor supplier involvement
- Tough negotiations with customers about acceptance of new ships
- Very expensive, huge and late changes during development process
- Inconsistent proposals for new projects. Lack of profitability and poor delivery performance

LEVERS

- Defining the new operating model jointly with all involved disciplines
- High level, robust management commitment and mandate
- System Engineering processes, skills and competences including MBSE and digital twin
- Modular and flexible platform design and approach with strong orientation of customer standards

IMPACT

- Implementation of Requirements Management (System Requirements Definition)
- Implementation of System Design Definition incl. functional breakdown of product and mapping with requirements and new architectural process and roles
- Implementation of Functional Safety Process, (Customer) Review Process and Supplier Qualification and Involvement Process
- Platform design incl. key interfaces, contributions
- Rollout/migration plan including Systems Engineering Trainings, Tool support and common data base