





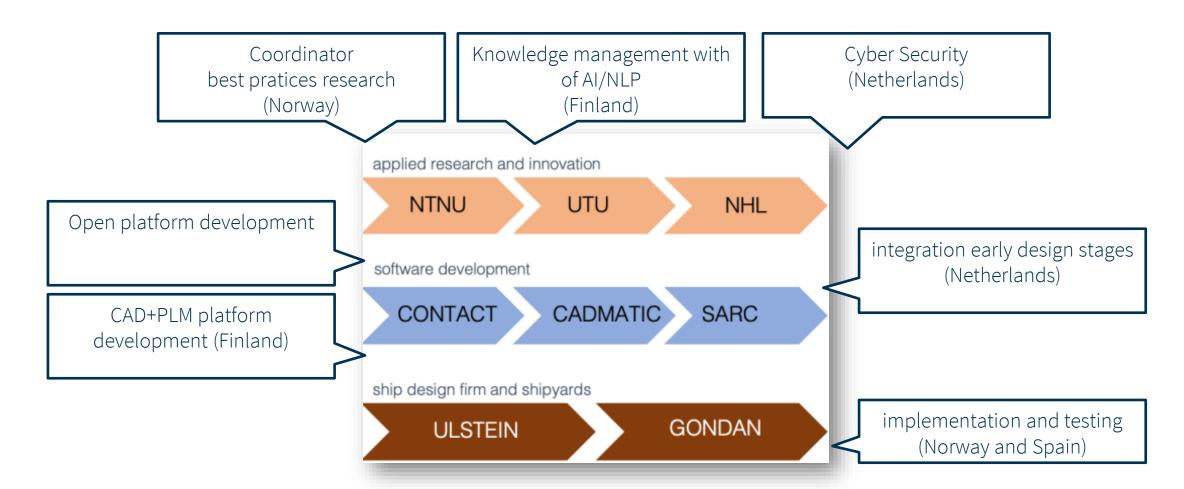
EU resrach project SEUS

create a "framework" for European shipyards architecting and developing an **integrated platform** for a combined solution incorporating **CAE**, **CAD**, **CAM**, and **PDM** software and testing it at shipyards





SEUS: Participants and Roles





Partnership CADMATIC

lead: Nam Nguyen









Outfitting and Piping Design

Electrical & Automation

Information Management

Goal: integrated CAD + PLM solution for shipbuilding

=> CADMATIC WAVE





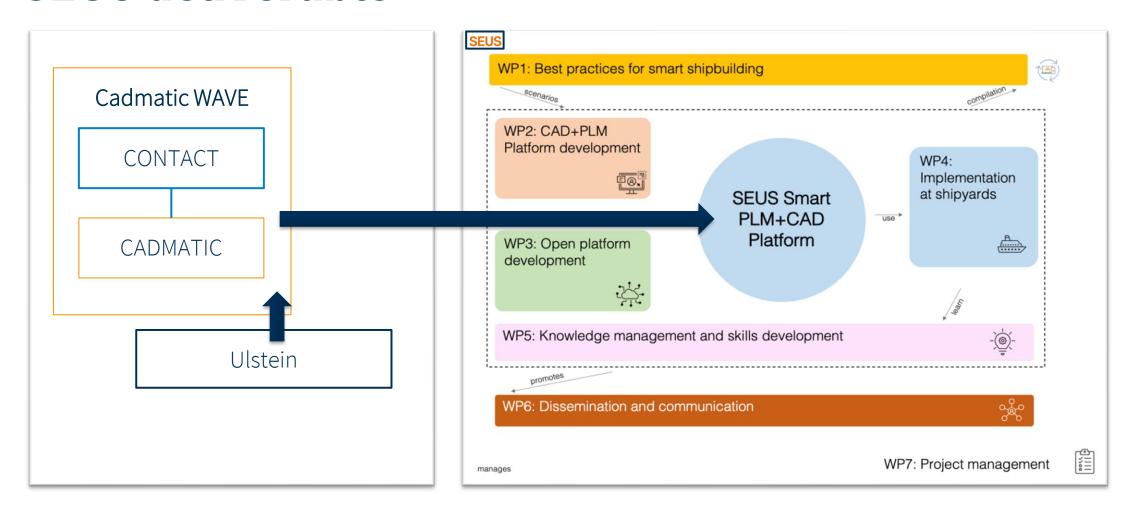
Ulstein customer project lead: Markus Feldmann

- PLM Strategy
- Project Management
- Document Management
- ERP-Integration
- Go-Live in November

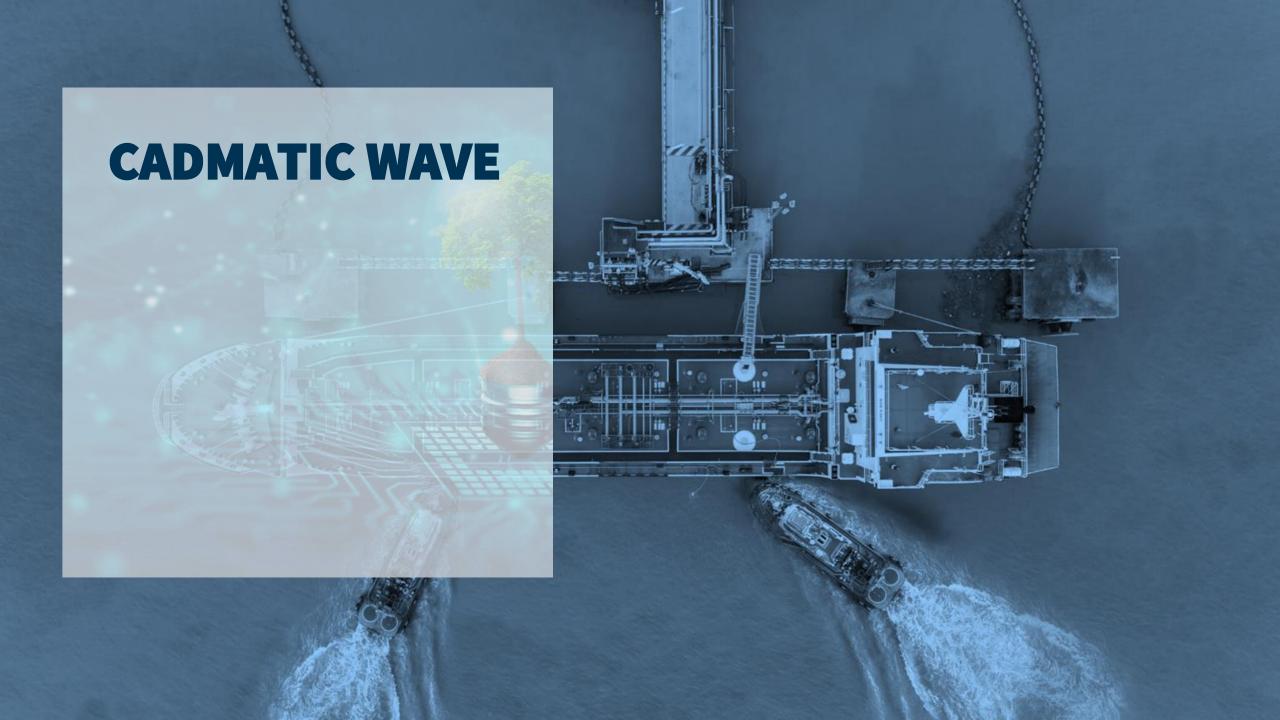




SEUS deliverable







WAVE PRODUCT

- Technology behind the CADMATIC Wave is using existing modules from our partner CONTACT Software
- Examples of out of the box functionality with CONTACT modules:
 - Document management
 - Project management
 - Workflows
 - Collaboration
- WAVE development focuses on:
 - CAD integrations
 - PLM usability and use cases in shipbuilding
 - Making the standard configuration for shipbuilders
 - Enabling shipbuilders a quick start with PLM



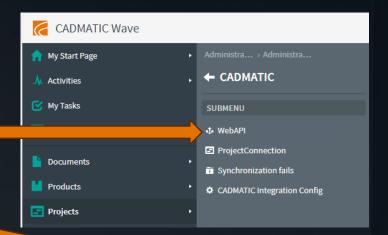


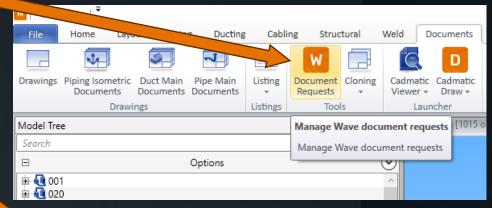
Wave first release

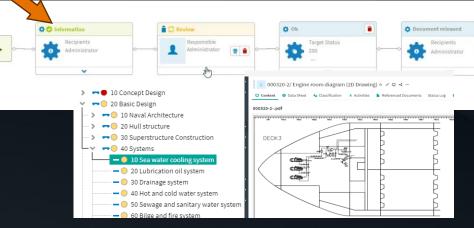
- Integration classes and configuration objects created to connect Wave with COS (CADMATIC object storage)
- CADMATIC Document integration with document reply and request functionality
 - CADMATIC Outfitting documents
 - CADMATIC P&ID documents
- Ready to use shipbuilding specific workflows
- CADMATIC Integrated document management
- CADMATIC Integrated project management

After first release

- Document requests from Hull and Electrical
- Embedding eShare as file viewer
- Integrating eShare markups with Open Issues objects in Wave
- Product/Part integration
- Embedding eShare as product structure viewer









CADMATIC Wave Enter Search Term(s) ... ny Start Page My Start Page Manage ... ▲ Activities ■ My Dashboard / New Dashboard All 🕶 My Tasks ∑ ▼ Enter Filter Text ... × 🌣 ▼ Documents Last Worked on ▼ P000226 Nordic Tanker ▼ My Tasks - My review tasks C Task Boards P000226 Nordic Tanker 🔁 Drag column headers here to group Today **Documents** Un... Type Name Status Deadline Tags 000000-25 / Engine room layout (-) Products ■ 000000-23 / b Lubrication oil diagram (unknown) Projects 000000-23 / a Lubrication oil diagram (unknown) Ø Defects ■ 000000-24 / Sea water cooling system arrangement dra... Actions 000000-23 / Lubrication oil diagram (unknown) Specifications Yesterday 000000-21 / Fresh water cooling system drawing (-) >>> Workflows 000000-22 / Engine room arrangement (-) Organizations 000000-13 / Arrangement Deck 4 (-) 000000-20 / Area 20 (-) 000000-19 / Area 19 (-) Administration & Configuration License Dashboard



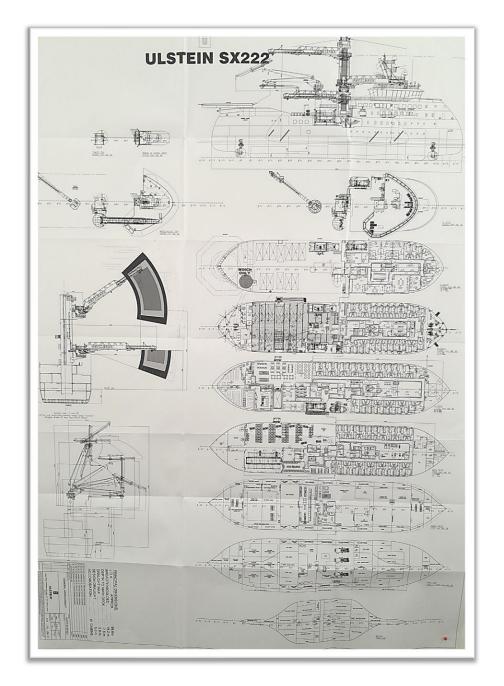
◀ Close Menu



Shipbuilding Characteristics

- Document based working
 - 28,700 documents for the design phase only
 - Multiple files per document
 - Up to 45 filter for documents
 - With external and internal processing and approval steps
 - Simultaneous work on different versions of a document

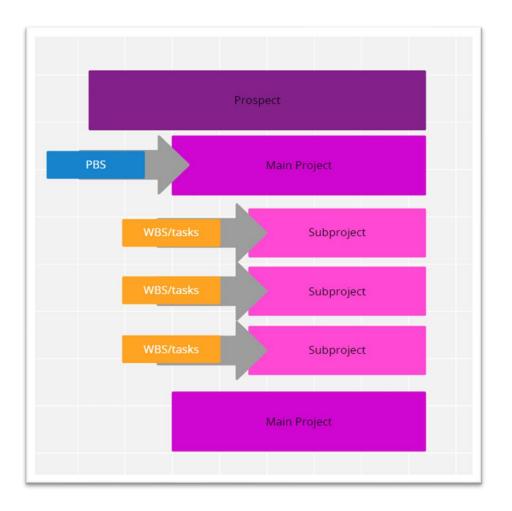
45 working structures-> Distinguished by the view of the product in relation to the process



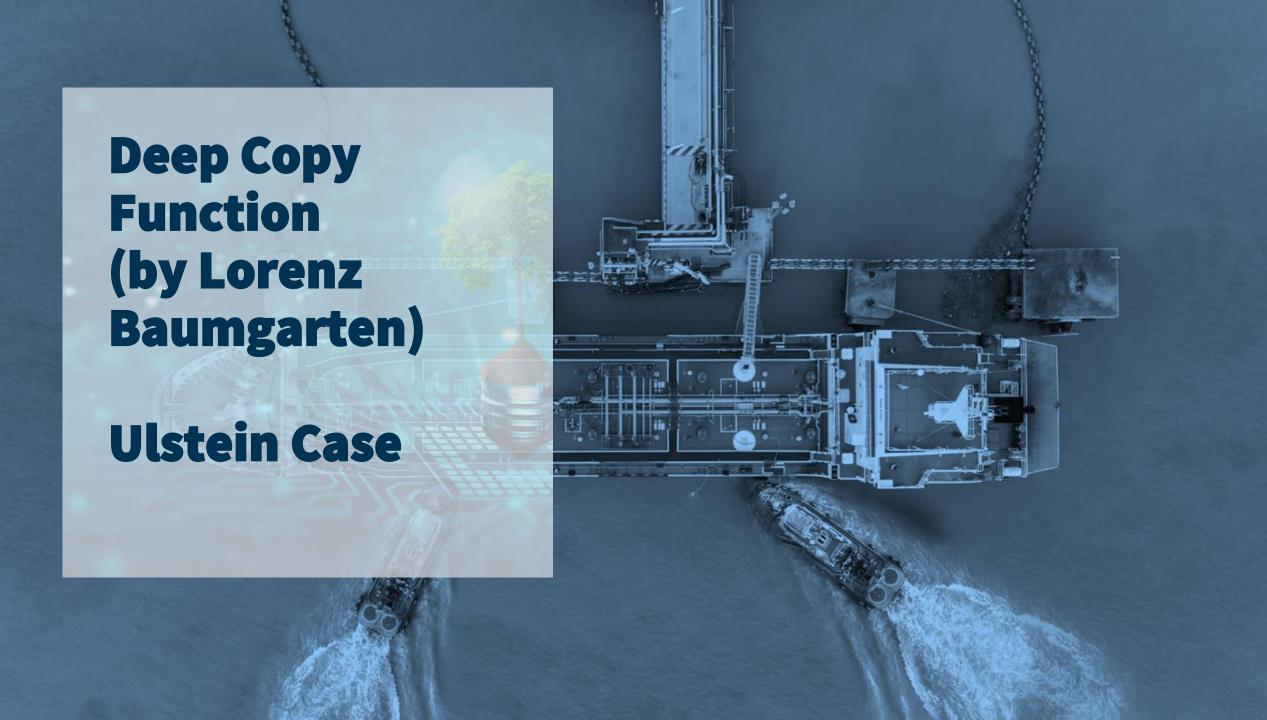


Project Structure (templates)

- Prospect Projects:
 - collects all projects for one client
- Main Project:
 - created on request
 - connected with product
- Subproject
 - projects with task and document (templates)
 needed (related to the request)

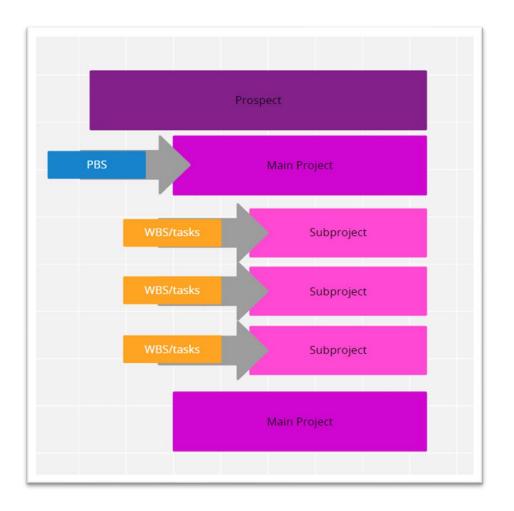






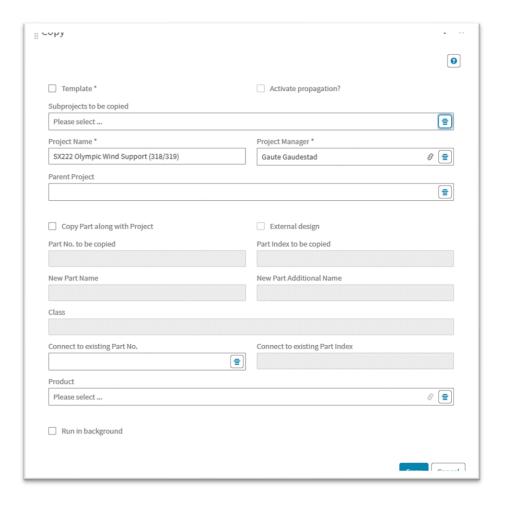
new "deep copy" function

- Main project kopieren, mit Übernahme der entsprechenden parts und documents
 - parts in der BOM werden kopiert statt referenziert(noch) keine Wiederverwendbarkeit
- Sub-projects zu bestehenden projects hinzufügen
 - beim Zufügen von Subprojekten werden die neuen Tasks/Documents mit den schon bestehenden Parts im Main Project verbunden
 - Sind documents im main project/bestehendem sub project schon vorhanden, werden nur die Relationen zu den neuen tasks erstellt





- Standard: Kopier-Funktion langsam, weil konfigurierbar, vieles gecheckt werden muss (Signale) und Objekte iterativ kopiert werden
- für komplexe Projekte mit Ship 1
 Woche warten
- Custom sql querys stattdessen (jetzt 20 min zum Kopieren)





Manage Library Parts

