CUSTOMER CASE STUDY

AVEVA Marine streamlined operations for Deltamarin Poland, so that the company could deliver total customer satisfaction in shipbuilding and design.

Deltamarin - www.deltamarin.com
Industry - Shipbuilding

Goals

- To achieve better collaboration between the hull and piping departments.
- To update existing Tribon software solution.

Challenges

- Errors were costly.
- It was crucial that Deltamarin have full control over the project.

AVEVA Solution

- Hull Structural Design
- Hull Detailed Design
- Surface Manager
- Outfitting
- Marine Drafting

Results

- Engineers from different locations are now able to work on the same model.
- Now that error reports are much easier to read, mistakes can be fixed before fabrication starts.
- Clashes are quickly identified and fixed.

Deltamarin Poland Benefits by Migrating from Tribon to AVEVA Marine.

Poland – Deltamarin Sp. z o. o. is a subsidiary of Deltamarin Ltd, Finland, a ship design, offshore engineering and construction group operating in the marine and offshore industries worldwide. The group's services include the full range of consulting, design and engineering, as well as procurement, construction and installation. All phases and disciplines in new building and conversion projects are covered, as well as project management and operational support.

Deltamarin's customers include major international ship owners, offshore contractors, shipyards, and equipment and system suppliers.

An old, outgrown system

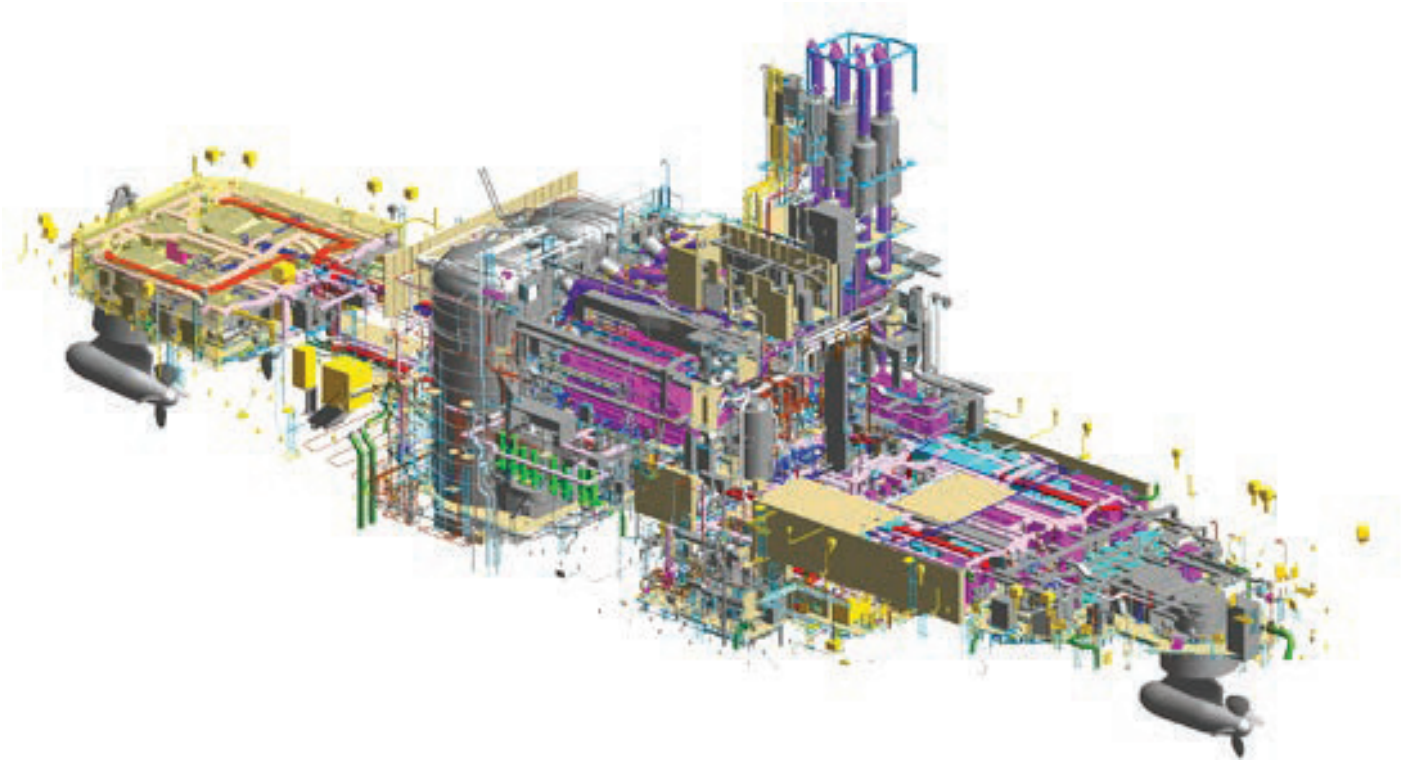
Deltamarin's office in Poland had been a long-established user of the Tribon design solution. However, as client demands continued to grow for more advanced and complex vessels, Deltamarin Poland quickly decided to migrate to AVEVA Marine to increase its capabilities and gain the efficiency advantages of a next-generation solution which was rapidly becoming the industry standard.

A new way forward

From the extensive AVEVA Marine product portfolio, Deltamarin Poland selected AVEVA Hull Structural Design, AVEVA Hull Detailed Design and AVEVA Surface Manager. For piping, cabling and equipment layout they are using AVEVA Outfitting, with AVEVA Marine Drafting being used for the creation of deliverables.

As hull and outfitting design are now tightly integrated, clashes can be quickly identified and eliminated, which streamlines the design process. AVEVA Marine also enables engineers from multiple locations to work on the same model; Deltamarin retains full control over the model as it develops.

Throughout the workflow, AVEVA Marine increases efficiency and quality. It can automatically generate an easy-to-understand error report that enables Deltamarin Poland's engineers to eliminate design mistakes before the fabrication stage.



Deltamarin Poland has benefitted from offering its customers higher-quality production information in other ways as well. For example, they can now precisely define plate- and pipe-bending parameters according to the individual machines to be used.

Standard construction production elements, such as brackets, cut-outs, notches and clips can be easily created, while AVEVA Marine's powerful parts-nesting application ensures that they can be efficiently cut from the minimum quantity of raw plate. This has reduced costly postfabrication rework and materials wastage for Deltamarin Poland's customers; a strong selling point for the design firm.

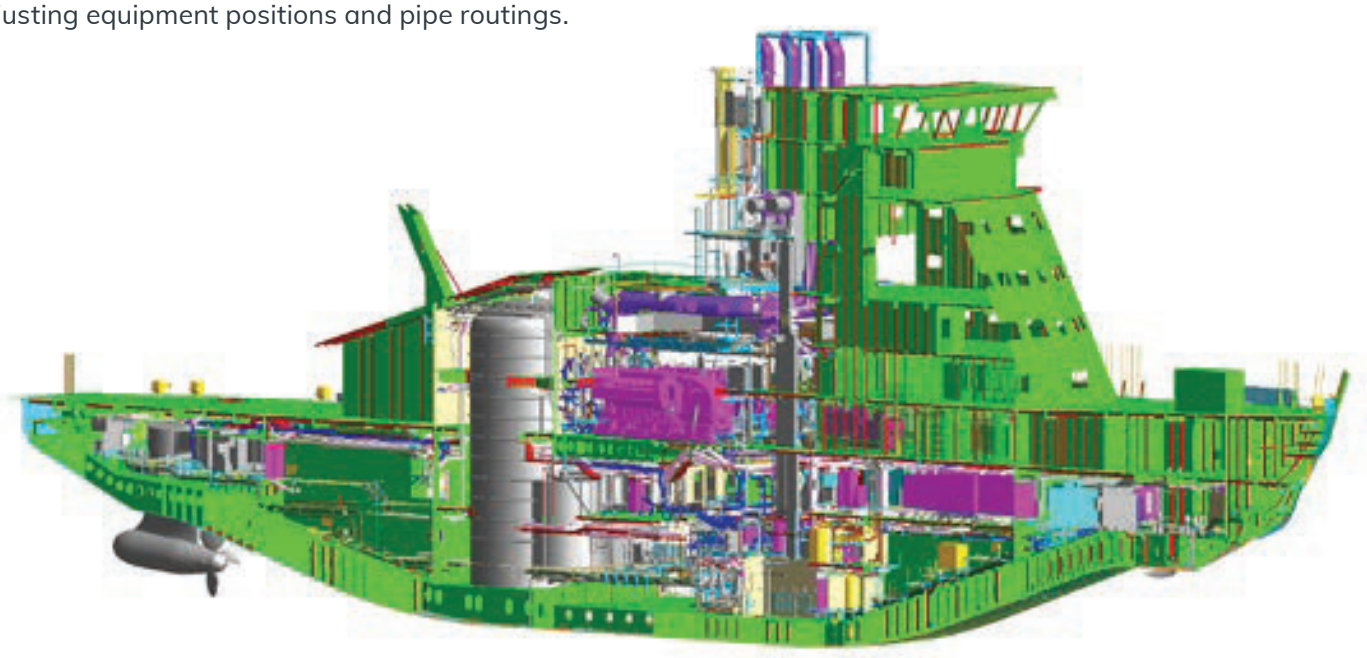
In their daily work, engineers can readily optimise the onscreen layout of toolbars and icons to cater for specific tasks or personal preferences. Deltamarin Poland can now speed up its design work through the use of a batch system for modelling structures. But, as design is by nature an iterative process, AVEVA Marine also makes it easy to progressively refine a design by changing pipe sizes and specifications, and easily adjusting equipment positions and pipe routings.

Delivering the highest quality on key projects

Together with Deltamarin Finland, Deltamarin Poland has prepared the 3D model of machinery, piping and outfitting for Arctech's NB510 icebreaker. The vessel is operated by the Finnish Transport Agency in the Baltic and is the first LNG-powered icebreaker ever built.

The vessel will be able to move continuously through ice up to 1.6 m thick, and the surface speed of the vessel in open water will be 16 knots.

Other important projects include the B.Delta bulk carrier series project, in which Deltamarin Poland played an important role in both class and detail design phases and Oldendorff B.Delta37 open hatch general cargo carrier vessel; Deltamarin Poland provided the basic design with an extensive package of hull strength calculations.



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