WESTERN BALTIC ENGINEERING
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KLAIPĖDOS MOKSLO IR TECHNOLOGIJŲ PARKAS

Case 3 on Shipyard Processes 3D (WP2, WP3

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EUROPEAN UNION
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Hull section measuring work using the 3D scanner - 0 "tolerance

Partners:

1 OSK- ShipTech

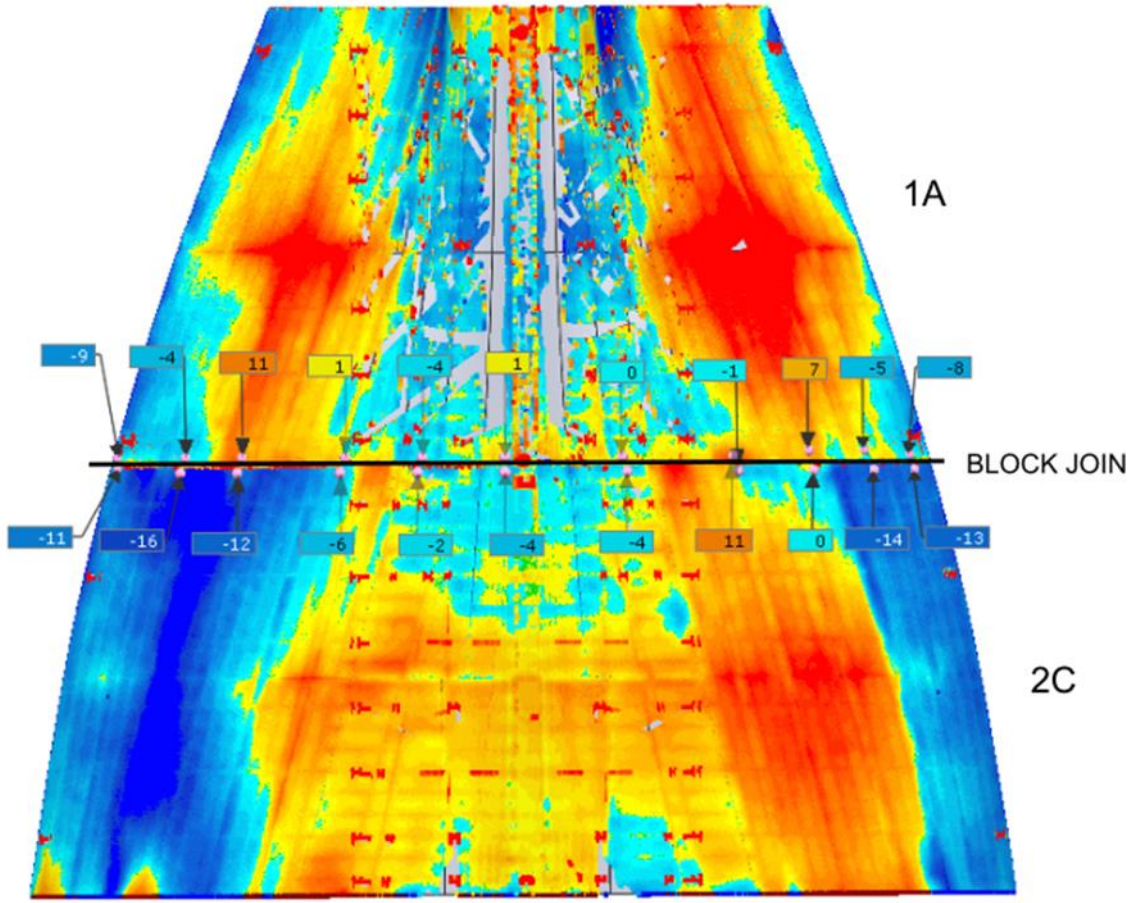
2 Western Baltic Engineering

3. Klaipeda Science and Technology Park

Hull section measuring work using the 3D scanner - 0 "tolerance

Hull section measuring 3D scanner - 0 "tolerance

- Measurements of the ship's hull section in the production process in order to maintain tolerance of "0";
- Measurements of the ship's hull section upon production



Hull section measuring work using the 3D scanner - 0 "tolerance

Efficiency achieved:
1-5 days on measurement control
Up to 1000 men hours in assembling the blocks

3D scanner for the modernization of vessels and repair of Hull

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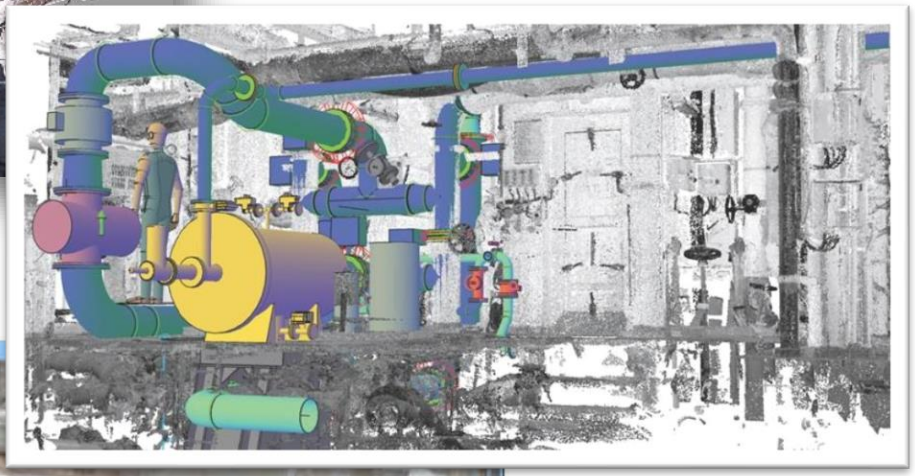
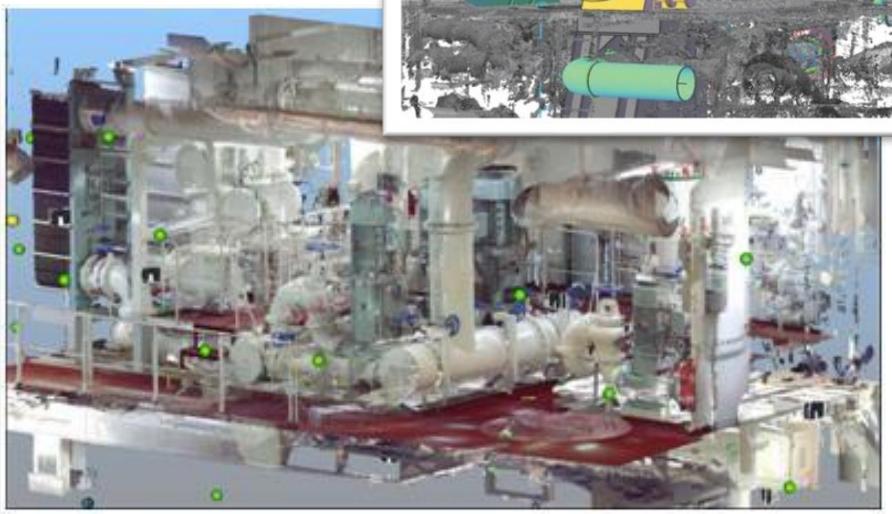
- Faster surveys and quicker results
- High accuracy and minimum errors
- After 3D scanning, data acquisition helps to determine severity of damage and deformation and to assist in the planning of necessary repairs or new installations





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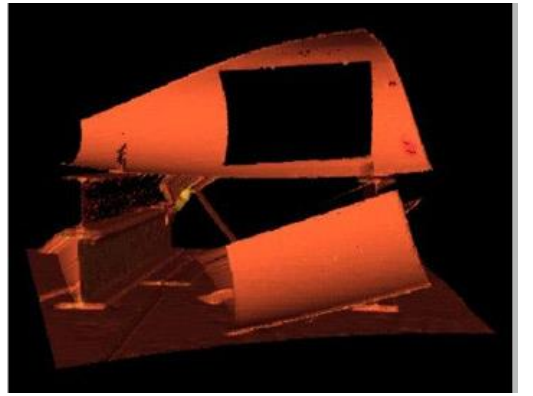
- Scan of damaged ship's constructions and moving into three-dimensional space - accelerating the design and production of new sections
- 3D laser scanning service for applications in the maritime sector allows to obtain massive measurements of large-scale volumes with high precision and resolution
- facilitate decision-making processes through more informed decisions, saving both time and money



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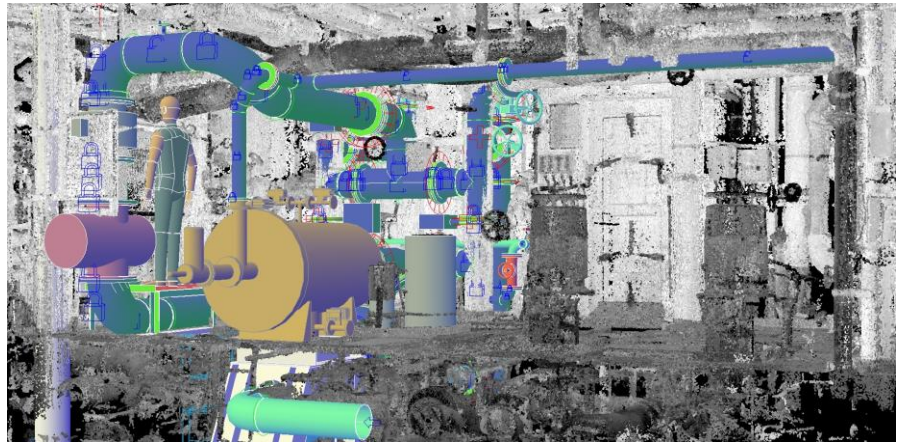
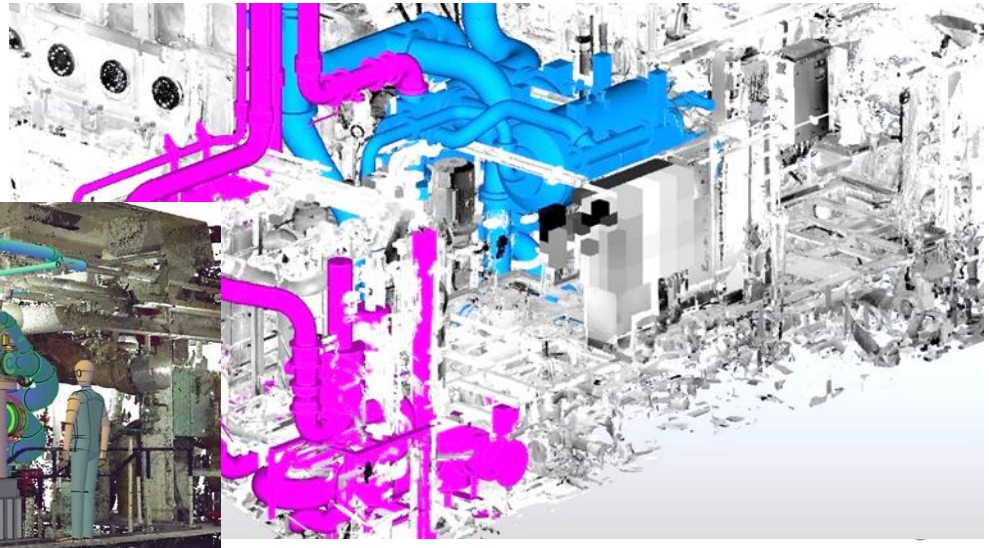
Ballast water management system



3D scanning tool make much more easier life with:

- Onboard survey
- Conceptual design
- Selection of Ballast water treatment system
- Introducing Customer with solutions
- By using 3D scan data, a physical object can be translated directly to the engineering phase of a project and moved on from there.
- Shortens design and manufacturing time



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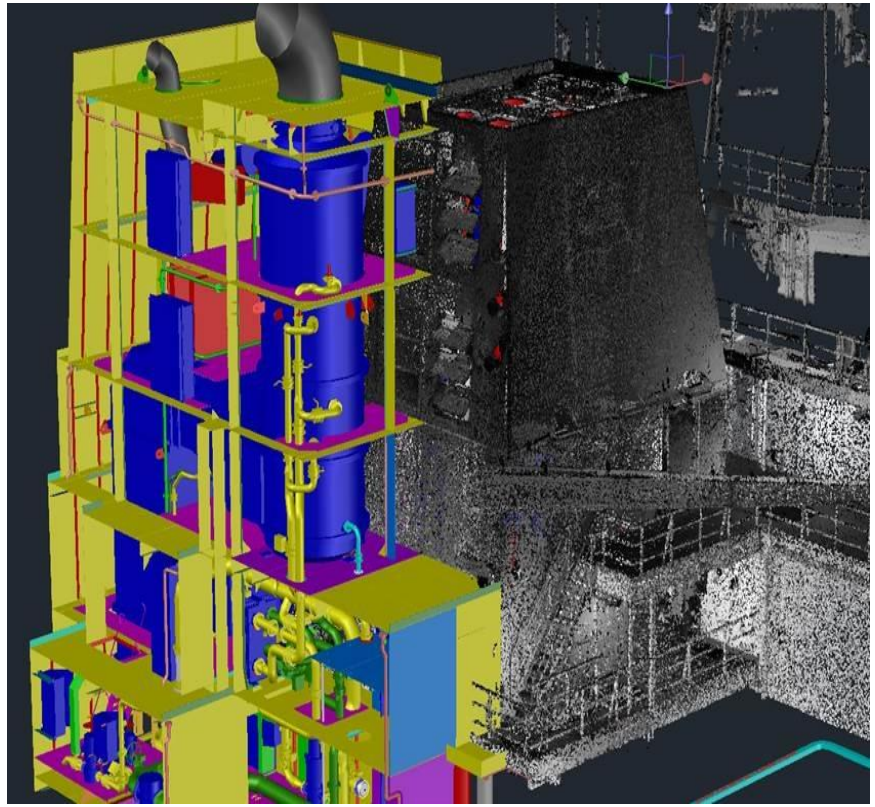
Scrubbers systems design and installation

- Shortens design and manufacturing time
- Transportation of metal structures of the hull into three-dimensional space for creating sections drawings
- Visualization of installation



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3D scanner for the modernization of vessels and repair of Hull

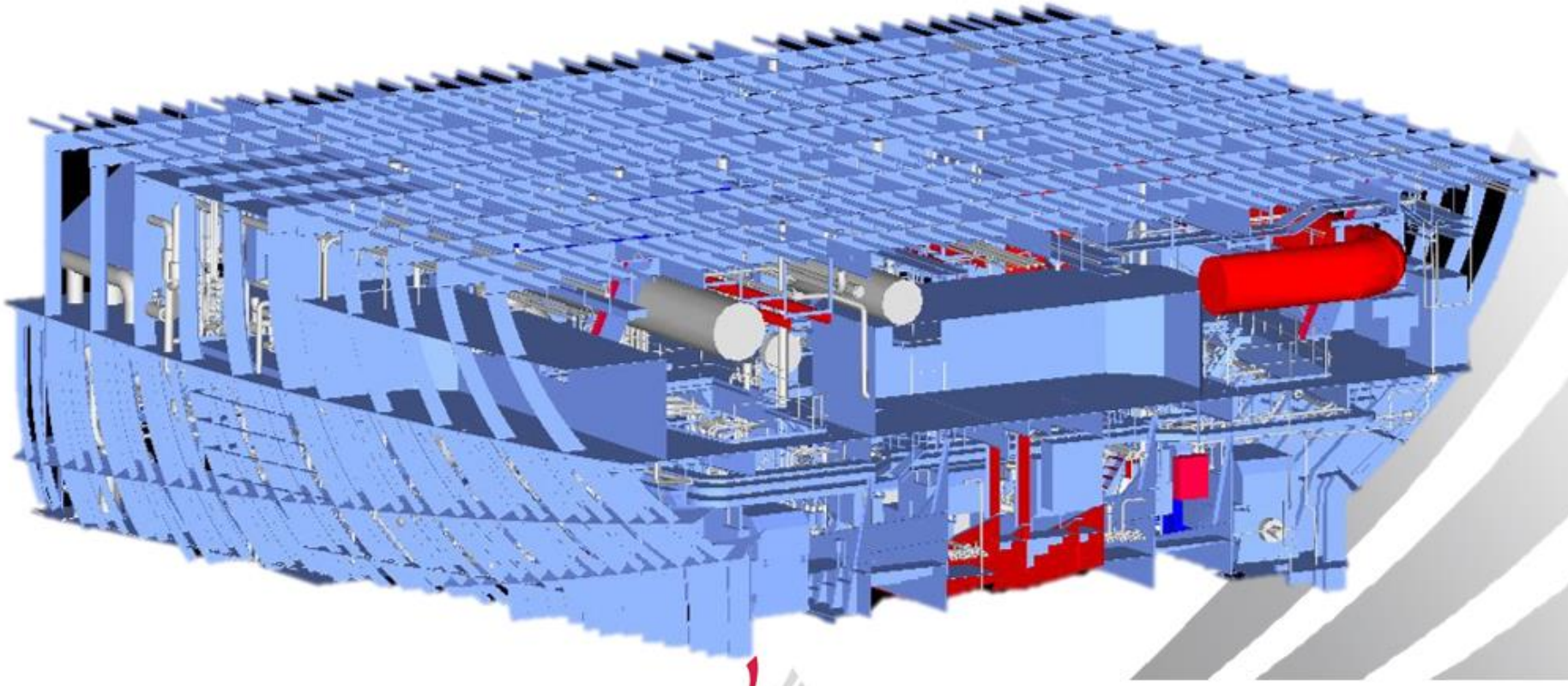
Efficiency achieved:

Design and planning of the project:
Savings up to 50% of man hours per project

Production – piping and steel work:
Savings 5-10% of total project costs $.

Availability to prevent un expectancy during project.

3D scanning increases the ecological and production efficiency



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