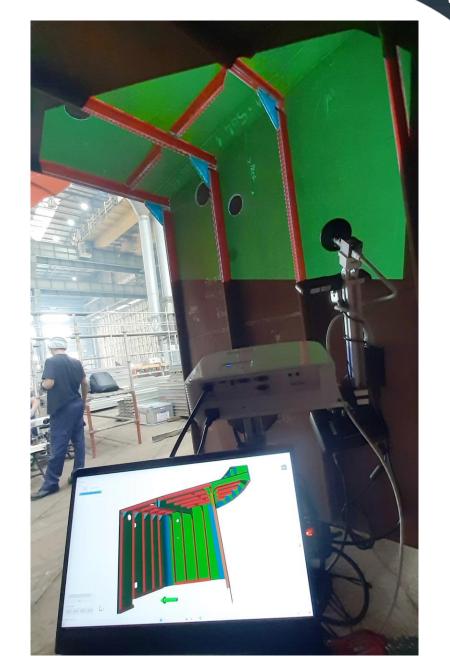
MARI4YARD



Safer, smarter, stronger:
Mari4_YARD human-centric shipbuilding



The technology







The technology

- ✓ Projection of guiding information directly in the environment can help the operator <u>work faster</u> and with <u>higher accuracy</u> and <u>reliability</u> when performing <u>cutting</u>, <u>welding</u> and <u>assembly operations</u>.
- ✓ Instead of having to read extensive documentation, perform manual measurements and mark the positions of the cutting / welding / assembly operations, the operator only needs to load the CAD model of the ship section and provide an approximate pose of the tripod that holds the projector, 3D sensor and laptop.
- ✓ The augmented reality system captures a 3D point cloud of the environment, aligns it with the CAD model and then projects the CAD information into the surfaces of the ship.
- ✓ The operator can cut / weld / assemble using the projected CAD outlines or mark with chalk for performing the operations later or assign them to a specialized worker.









The demonstration in the shipyard







Watch the video of the demonstration in the shipyard





The impact for the shipbuilding industry



MARI4YARD

The impact for the shipbuilding industry

- ✓ When there are clusters of operations, such as the examples below, the projection system can reduce the marking time by 70%.
- ✓ It can achieve a projection error below 5 mm, making it suitable to be used for inspection of the assembly of the ship's foundations and stiffeners while also providing an analysis of the structural bending due to welding.
- ✓ The system starts up in around 90 seconds and takes around 25 seconds to reposition to a new projection zone.











Safer, smarter, stronger:
Mari4_YARD human-centric shipbuilding

