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SIEMENS DIGITAL INDUSTRIES SOFTWARE

Steer to the future

Set the course to a sustainable business with digital ship lifecycle management.
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Maritime transportation has a long history. Essential in the past, vital in the present, maritime transport will remain a pillar of commercial and cultural exchange in the future. Yet its recent evolution hasn't followed a steady course.

Influenced by economic changes, the demand for new vessels ebbs and flows in a nearly unpredictable way. As a result, the competition between shipyards intensifies, as every yard attempts to secure orders for the years to come. And yet, winning bids isn't enough to ensure a company's security. Companies must deliver on time, on budget, and on quality to avoid penalties and setbacks.

Meanwhile, the requirements for new vessels have evolved drastically, constrained by regulations and market demand. Modern ships need to be safe, smart, connected, sustainable, cost-effective, and versatile. Also, the future of technologies such as innovative propulsion systems remains uncertain.

While the market is changing rapidly, shipbuilding companies are also suffering from a severe shortage of skilled labor force. Shipyard managers fail to attract new talents while the trained workforce gradually leaves the labor market, interrupting the flow of experience and knowledge transmission.

In this challenging context, how can shipbuilding companies keep up with today's and tomorrow's requirements while reaping the benefits of offering value throughout the ship's lifecycle?

Trends

Trend #1

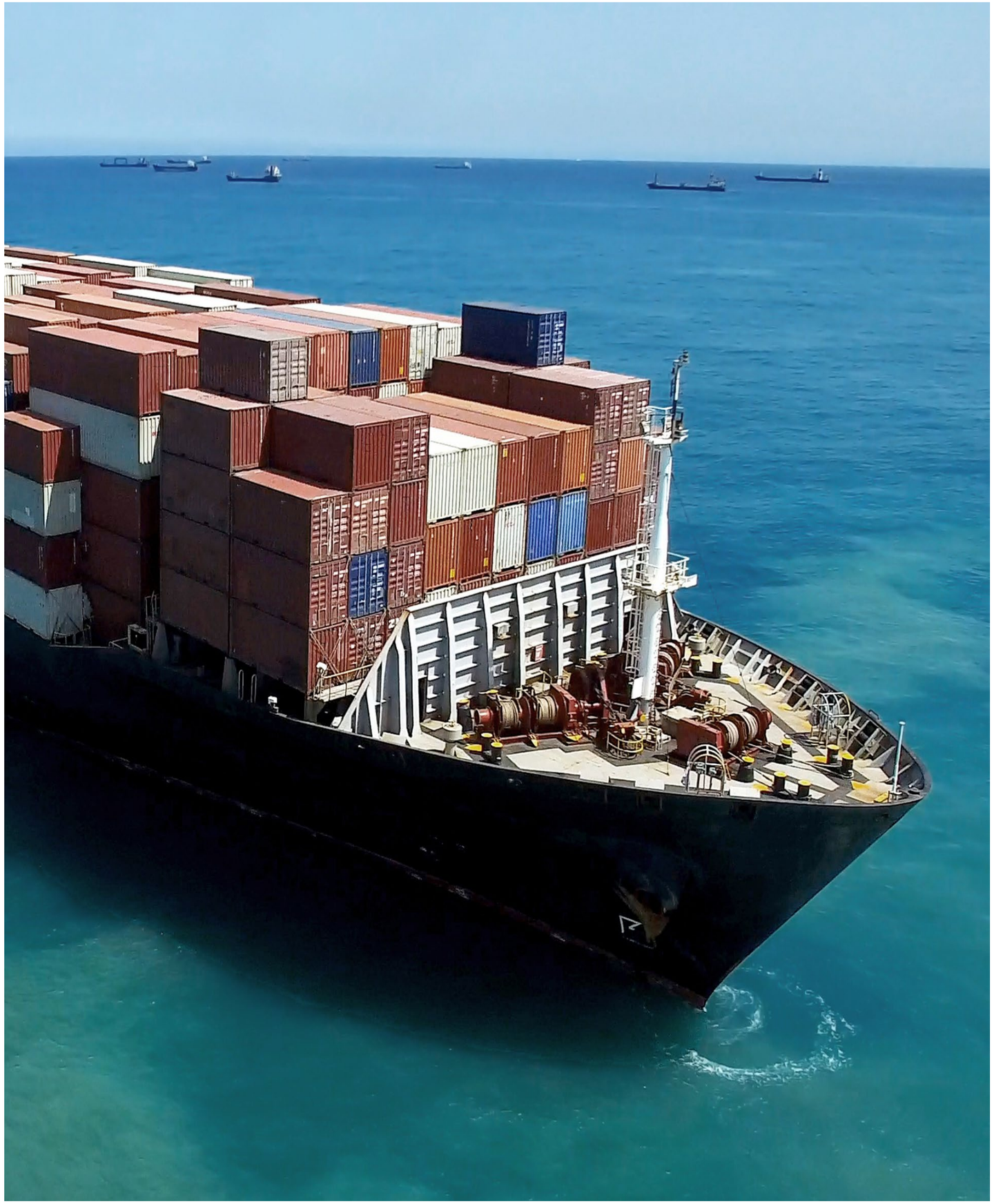
Intense global competition due to high market volatility

Trend #2

Increased demand for high-tech, autonomous, or multi-purpose vessels

Trend #3

Shortage of skilled labor force



Reap the benefit of data throughout the lifecycle

Future-ready businesses have realized the potential of managing their ship's data throughout the entire ship lifecycle. With a robust centralized data management system, they not only handle projects more efficiently but can also offer value beyond the delivery of a newly-build vessel.

When realizing a digital transformation, the centralized data management system becomes the backbone of the ship's digital twin, empowering teams to:

- Protect corporate knowledge by consolidating design and construction information in a single place
- Manage bills-of-materials (BOMs) and project information in a centralized environment
- Reduce risk exposure by ensuring closed-loop change management
- Ensure safe and smooth collaboration between all stakeholders, across departments, companies, and continents
- Control costs and improve the shipbuilding processes

Sustained with accurate, up-to-date and comprehensive information, the digital twin propels shipbuilding companies into a future where data provides value throughout the ship's lifecycle.

Navigate future changes with a digital ship lifecycle management solution

Set the course to the future: Siemens Digital Ship Lifecycle Management is a fully integrated solution that helps businesses realize the potential of the digital twin.

It enables shipbuilders, marine suppliers, as well as ship owners and operators to maximize their productivity by bringing together all product information and processes in one centralized system.

Relying on a single source of truth, companies can effectively manage the complexity of the entire ship's lifecycle, from inquiry to decommissioning.

In that way, they become sufficiently agile to respond to future market, regulatory or technological changes.

Learn more

Explore the possibilities

Connect ship data at every stage of design and construction

A centralized data management system helps shipbuilders manage their multi-domain BOMs and accurately track ship configuration at every stage of design, manufacturing and operation. The open data flow improves the concurrent engineering process by removing communication blocks, making information easy to access and visualize. Shipbuilders can manage more easily their modular, multi-variant or sister ship programs throughout their lifecycles.

Enable cross-team collaboration

By managing information in a centralized system, globally distributed teams can collaborate with a common set of data, tools and processes. Clients and partners can pull information when and where they need it, speeding up communication and giving everyone the most up-to-date information.

Ensure project integrity with closed-loop change management

The integrated data management system ensures that changes are accurately recorded and efficiently managed. This optimizes the end-to-end project execution by synchronizing changes and making them visible both upstream and downstream. It reduces the risk that key details get missed and makes it easier for shipyard workers to embrace changes.

Handle job-relevant information with personalized applications

Future-ready companies can use personalized applications to improve operational efficiency, modernize their legacy systems, accelerate innovation or improve their users' experiences. A low-code platform makes development easy for all, with no software development knowledge needed to develop the apps they need for their job.

Enter the digital era of lifecycle management

Enjoy the benefit of a full lifecycle management system, extending from initial design and build phases to ship operations, maintenance and services, and take the digital twin from the design office to the construction site and onto the sea:

- Facilitate cross-team collaboration and compliance.
- Ensure accurate multi-domain BOM and configuration management, efficient supply chain management, and robust change management.
- Capture, manage and re-use valuable knowledge for the optimization of future projects.

The Digital Ship Lifecycle Management solution:

- Is highly customizable to adjust to any company's pace of innovation.
- Offers an open ecosystem for secure, seamless collaboration of all stakeholders.
- Exists on-premises or in the Cloud, for a lower entry price, full scalability, and easier deployment.

What our customers say

Newport News Shipbuilding is digitizing its entire process, from design and manufacturing to operations and service, using Siemens software.

An integrated digital shipyard is the foundation for us building our product more efficiently.

Newport News Shipbuilding

Royal IHC uses Siemens tools to streamline processes for developing highly complex bespoke vessels.

What we supply to our customers is an integrated product, and we build it in an integrated, project-oriented way.

Royal IHC

About Siemens Digital Industries Software:

Siemens Digital Industries Software, a business unit of Siemens Digital Industries, is a leading global provider of software solutions to drive the digital transformation of industry, creating new opportunities for manufacturers to realize innovation. With headquarters in Plano, Texas, and more than 140,000 customers worldwide, Siemens Digital Industries Software works with companies of all sizes to transform the way ideas come to life, the way products are realized, and the way products and assets in operation are used and understood.

For more information on Siemens Digital Ship Lifecycle Management, visit siemens.com/dslm or follow us on LinkedIn and Twitter.

Siemens Digital Industries Software

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