

Luna Rossa Prada Pirelli adopts Siemens Xcelerator as a Service for America's Cup yacht design

- **Luna Rossa Prada Pirelli uses Siemens Xcelerator as a Service to accelerate development of the ultimate AC75 America's Cup yacht**
- **Cloud-based collaboration is used to manage increased design complexity and improve manufacturing repeatability, in and out of season**
- **The team leverage the power of high-performance computing (HPC) clusters, running thousands of simulations per day to explore new designs**

Siemens Digital Industries Software announced today that the Luna Rossa Prada Pirelli America's Cup team is using the Siemens Xcelerator portfolio of software and services to design, simulate and optimize its racing yacht for the forthcoming America's Cup challenge (37th America's Cup).

"The Siemens Xcelerator as a Service portfolio provides critical tools to Luna Rossa Prada Pirelli that allow the team to design, analyze and evaluate all aspects of the boat's hydraulics and fluid-dynamic performance," said Matteo Ledri, Head of CFD, Luna Rossa Prada Pirelli Team. "Using Siemens' software, the hull, foils, rudder and sails can be analyzed as part of the digital twin, to understand how each surface responds to the changes in the project parameters, thus speeding up our work."

The hull, foils, rudder and sails are designed and analyzed virtually using Simcenter™ STAR CCM+™ software to understand how sails, hull and the complex hydrodynamics of the hydrofoil respond to the changes in the project parameters. Simcenter™ Amesim™ software is used to simulate all on-board hydraulic lines and optimize performance, an essential aspect given that on-board hydraulic power for the aerial parts of the boat is generated by four cyclors using pedal power.

Luna Rossa Prada Pirelli is also taking advantage of Xcelerator Share, the cloud-based collaboration capability in [Siemens Xcelerator as a Service](#), to effectively manage increased design complexity, improve manufacturing repeatability across the growing number of parts undergoing thousands of engineering changes per year, both in and out of racing season. In the highly competitive America's Cup environment, these advanced shape description capabilities and high-fidelity CFD simulations of an extreme class of sailing boats allow the team to meet their needs on the timetables demanded by global racing competitions.

Siemens Xcelerator as a Service enables a high degree of automation, so the [Luna Rossa Prada Pirelli team](#) can fully leverage the power of modern high-performance computing (HPC) clusters, running thousands of simulations per day to quickly explore the characteristics of new designs in different environmental conditions. In addition, Siemens provides a dedicated support service to assist the team in extracting the maximum value out of their investment. The agreement also includes Siemens' NX™ software, which Luna Rossa Prada Pirelli licensed to start evaluating its potential with a view to its future introduction.

“The Luna Rossa Prada Pirelli team's selection of Siemens Xcelerator as a Service is another proof point that organizations at the bleeding edge of innovation are using our solutions to bring their ideas to life and find new areas for true innovation,” said Franco Megali, Vice President and CEO Italy, Israel and Greece, Siemens Digital Industries Software. “Whether that's teams competing in the world's most extreme sailing races, taking new vehicles to the edge of space or building a more sustainable future for us all, pioneers are choosing our solutions.”

Siemens Digital Industries Software helps organizations of all sizes digitally transform using software, hardware and services from the Siemens Xcelerator business platform. Siemens' software and the comprehensive digital twin enable companies to optimize their design, engineering and manufacturing processes to turn today's ideas into the sustainable products of the future. From chips to entire systems, from product to process, across all industries, [Siemens Digital Industries Software](#) is where today meets tomorrow.

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Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 76,000 employees internationally.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

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