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America's Cup 2021: ESTECO technology for the world's fastest monohull

After Land Rover Bar and Groupama Team France, American Magic and Luna Rossa Challenge also partner with ESTECO in their quest for the world's oldest sailing trophy

TRIESTE, ITALY - June 4th, 2018 - ESTECO is proud to announce its technical partnership with two contestants for the 36th America's Cup - American Magic and Luna Rossa Challenge.

Following the partnership with Land Rover Bar and Groupama Team France during the last year's edition, the ESTECO technology for numerical optimization continues proving itself an important tool for the America's Cup contestants across the world.

"The cutting-edge nature of modern America's Cup boats means that we need the best design tools available," said Terry Hutchinson, American Magic executive director and skipper. "That is exactly what ESTECO will provide to our experienced design team, and we are excited to move forward together".

The next America's Cup will take place in 2021 in New Zealand, with several preliminary events scheduled around the world in 2019 and 2020. But the engineering race has already begun. The AC75 Class Rule, the official document launched last month, has defined the parameters within which each team can design a yacht eligible to compete. This has marked the start of the race for some of the best minds in yacht design and technology who are now competing to engineer the best performing boat within the allowed parameters. Strict limitations on the number of components that can be built encourage teams to rely even more on simulation.

"The America's Cup has always driven innovation in the sailing sector, but this year it does so even more thanks to an unprecedented boat architecture, and to the limited number of prototypes that can be built. This time, the engineering teams will have to base the design mainly on virtual models", said Carlo Poloni, president of ESTECO.

"This is exactly the field in which ESTECO excels with its solutions for numerical optimization - from process automation to the efficient management of data generated by simulation, to multidisciplinary and multi-objective optimization", he added.



Poloni underlined that the new Class Rule leaves wide space for innovation despite the return to the monohull after the catamarans used in the recent editions of the race. The new 75-foot long AC75 foiling monohull will be equipped with foils - 'wings' foldable under the hull that enable the boat to 'fly over the water', minimizing hydrodynamic drag and thus multiplying the sailing speed.

"We are happy to be able to use modeFRONTIER - it allows us to optimize the single components as well as the entire boat, taking into account different disciplines, from fluid dynamics to structure, all the way to system control", said Matteo Ledri, fluid dynamics expert of the Luna Rossa Challenge design team.

The launch of the official America's Cup class AC75 boats is not allowed before 2019, but the teams are already rising sails on their training monohulls as part of their preparations for the big race.

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About ESTECO

ESTECO is an independent software provider, highly specialized in numerical optimization and simulation data management with a sound scientific foundation and a flexible approach to customer needs. With almost 20 years' experience, the company supports leading organizations in designing the products of the future, today. ESTECO smart engineering suite brings enterprise-wide solutions for design optimization, simulation data management and process integration and automation with the aim of helping companies excel across this innovation journey. Over 300 international organizations across many different industries have chosen ESTECO to consolidate specialized expertise, streamline teamwork and boost product development. Founded in 1999, the company is headquartered in Trieste (Italy), with offices in Michigan (USA), Pune (India) and an international network of channel partners. esteco.com