

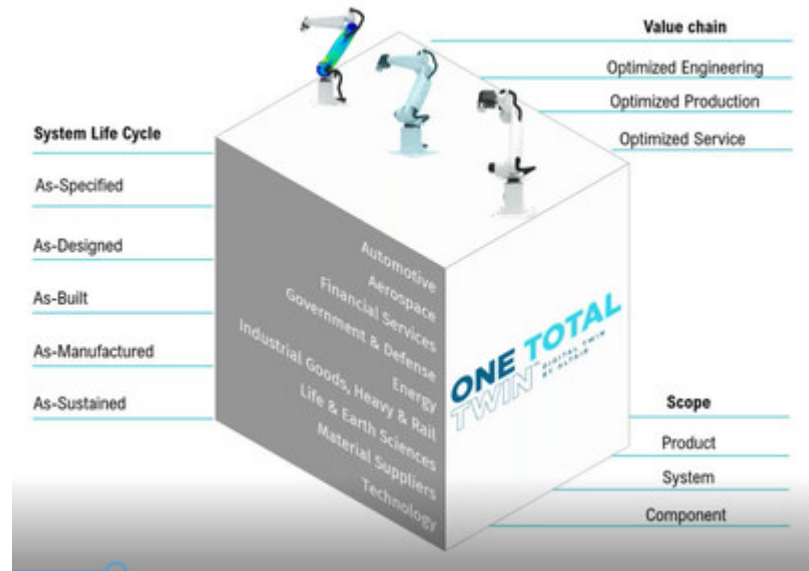


Altair Presents Open, Flexible, and Scalable Total Digital Twin Solution

October 4, 2022

Comprehensive, end-to-end offering gives anyone the power of digital twin technology

TROY, Mich., Oct. 4, 2022 /PRNewswire/ -- [Altair](#) (Nasdaq: ALTR), a global leader in computational science and artificial intelligence (AI), announced the launch of its broad digital twin solution that features the market's most connected, cross-functional capabilities that can be deployed through any and every stage of a product lifecycle.



"Altair offers the market's premier digital twin solution that can transform the way people and organizations design, develop, implement, and improve products and processes," said Sam Mahalingam, chief technology officer, Altair. "Moving forward, we will continue establishing our digital twin leadership to provide further democratized, more accessible digital twin solutions."

Fostering Evolution at Any Stage of a Product Lifecycle

Combining Altair's leading simulation, high-performance computing (HPC), AI, data analytics, and Internet of Things (IoT) capabilities, companies can apply digital twin technology at any stage of the product lifecycle — from concept through in-service — as part of a cross-functional, enterprise-wide effort that advances collaboration and eliminates departmental silos. Additionally, Altair's open, vendor-agnostic digital twin solution is the premier offering that gives customers the flexibility to run Altair software anywhere – whether on-site, in the cloud, hybrid, or via plug-and-play appliances – and the freedom to choose from a comprehensive toolset through a cost-effective, units-based licensing model called [Altair Units](#).

Pre-Production

In the pre-production stage, Altair offers toolsets for "as-specified" twins, which cover system requirements, development, validation, real-world performance prediction, streamlined mechatronic product development, and more. This allows teams to design, analyze, and optimize systems and performance without expensive physical prototypes. It also enables teams to converge multiphysics simulation with advanced HPC, AI, and data analytics capabilities in a unified environment.

Featured as-specified twin tools include [Altair Activate](#), [Inspire](#), [Drive](#), [HyperWorks](#), [PollEx](#), [Flux](#), [Compose](#), [Feko](#), [PSIM](#), and [XLDyn](#) (via the [Altair Partner Alliance](#)).

Post-Production

In the post-production stage, Altair has toolsets for "as-built" and "as-manufactured" twins. As-built twins allow teams to evaluate advanced virtual system dynamics under what-if scenarios, deploy reduced order modeling (ROM), detect design sensitivities, and resolve test failures. As-manufactured twins allow teams to evaluate integrated software, processors and hardware involved with systems such as human driver controls, ergonomics, immersion, virtual reality, and more. These twins help teams simulate realistic and unexpected events, improve workability and operation windows, and produce high-fidelity displays of innovations in interactive and realistic environments.

Featured as-built and as-manufactured twin tools include [Altair Embed](#), [MotionSolve](#), [HyperStudy](#), [Panopticon](#), [Design Explorer](#), and [Vortex Studio](#) (via the Altair Partner Alliance).

In-Service Systems

Lastly, Altair's digital twin tools for "as-sustained" twins cover predictive analytics and predictive maintenance of manufactured products that are in service. Teams can leverage real-time data stream analytics and machine learning to determine a system's remaining useful life (RUL), trigger insights based on anomaly detection, refine system performance, deliver optimized maintenance routines, and much more.

Featured tools for as-sustained twins include Altair RapidMiner, [SmartWorks](#), [SLC](#), [Monarch](#), and [Knowledge Studio](#).

Users can take advantage of Altair's end-to-end, holistic solutions and digital twin consulting team to help accelerate digital twin adoption in industries as diverse as aerospace, telecommunications, banking, financial services, manufacturing, energy, and electronics. Altair solutions allow organizations to do things like predict and optimize electric battery performance in buses, improve wind turbine efficiency, analyze and optimize the performance of an airborne radar system, analyze credit risk, monitor and detect financial fraud, design the ideal coffee machine, conduct prescriptive performance optimization and predictive maintenance of consumer products, and more.

To learn more about Altair's digital twin solution and use cases, visit <https://www.altair.com/digital-twin> and <https://www.altair.com/one-total-twin>.

About Altair

Altair is a global leader in computational science and artificial intelligence (AI) that provides software and cloud solutions in simulation, high-performance computing (HPC), data analytics, and AI. Altair enables organizations across all industries to compete more effectively and drive smarter decisions in an increasingly connected world – all while creating a greener, more sustainable future. For more information, visit <https://www.altair.com/>.

Media contacts

Altair Corporate

Jennifer Ristic

+1.216.849.3109

corp-newsroom@altair.com

Altair Investor Relations

Monica Gould, The Blueshirt Group

+1 212.871.3927

ir@altair.com

Altair Europe/The Middle East/Africa

Charlotte Hartmann

+49 7031 6208 0

emea-newsroom@altair.com



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