

TOTALSIM^{US}

TSUS e-Brief | Issue 9



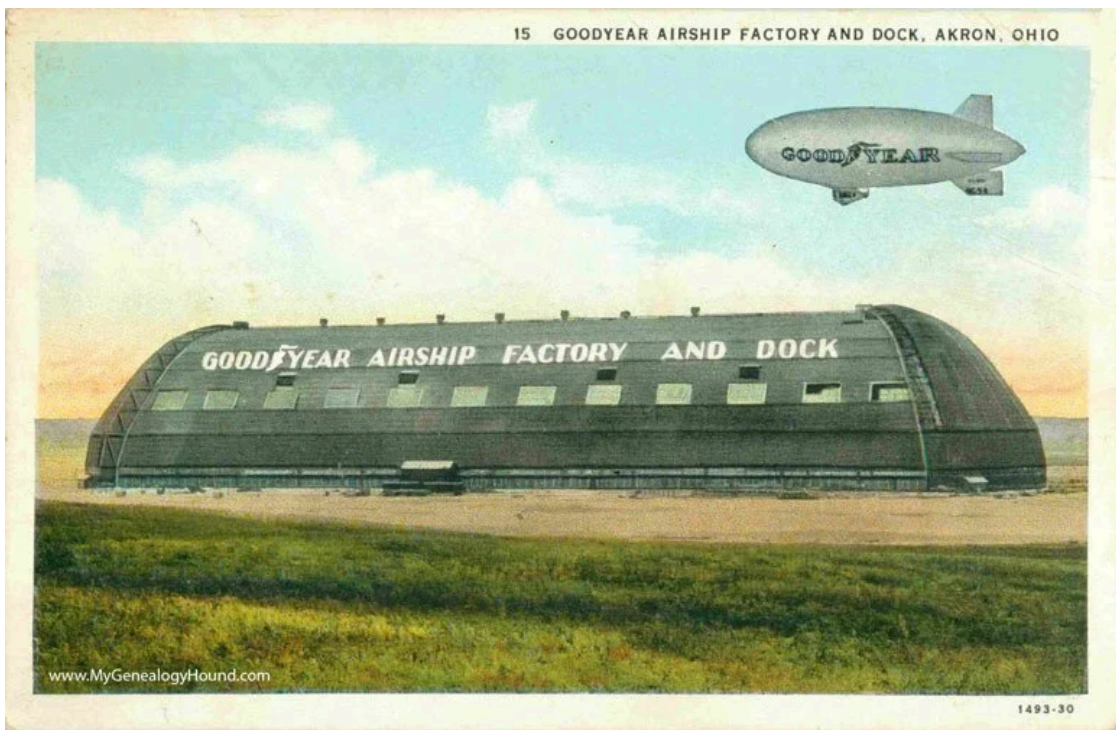
Oh-High-Oh: Where Innovation Takes Flight

TotalSim US is headquartered in the beautiful city of Dublin, Ohio. Located in the Midwest and being part of an innovation hub isn't something that people always associate, but both TotalSim US and Ohio have been driving aerospace and technology innovation for years. Here are a few of the better-known Ohioan connections:

- The Wright brothers, [Orville and Wilbur Wright](#), lived and worked in Dayton, Ohio, where they conducted experiments, developed their theories, built their first airplane factory, and trained hundreds of pilots for World War I. While their groundbreaking first sustained flight occurred in North Carolina, much of the Wright brothers' essential research, calculations, and technological advancements took place at Huffman Prairie in Dayton.
- Ohio's airship history centers on the cities of Akron and Wingfoot Lake, becoming a hub for both rigid airships and commercial blimps due to the Goodyear Tire & Rubber Company's operations starting in the 1910s. Key events include the 1925 crash of the U.S. Navy airship USS Shenandoah in eastern Ohio, and the 1931 first flight and subsequent destruction of the larger USS Akron, also built in Akron. The historic Goodyear Airdock in Akron was central to construction and maintenance, with Wingfoot Lake serving as the oldest operating airship base in the U.S.
- Ohio has a deep NASA history, exemplified by the NASA Glenn Research Center in Cleveland, which began in 1941 as an aircraft engine research lab and now focuses on power, propulsion, and communications technologies for space exploration and sustainable aviation. The state is a significant source of astronauts, with Neil Armstrong and John Glenn being famous natives, and hosts the Neil Armstrong Test Facility in Sandusky for large-scale space hardware testing.

Being part of the Ohio Innovation community is something TotalSim US is also a great way for us to collaborate both locally and globally with companies that have an interest in establishing or growing their operations here. Most recently, New and expanding aerospace companies in Ohio include Anduril Industries, building a hyperscale manufacturing facility near Columbus for autonomous systems and drones; Joby Aviation, constructing its first scaled electric vertical take-off and landing (eVTOL) aircraft production facility in Dayton; and Breeze Airways, which named Akron-Canton Airport as its newest base of operations. These companies are expanding Ohio's already robust aerospace ecosystem, which includes established players like GE Aerospace.

So if you are in Ohio, or in the area, or would like to explore opportunities, please reach out to us. We know people who can help.



Faster Results, Lower Costs: Rethinking CFD Workflows

Engineering teams today are being asked to do more with less — tighter timelines, more complex models, and rising demands for accuracy. The key to staying ahead isn't just better software or faster hardware alone — it's the right combination of both, with automation to tie it all together.

Join TotalSim for a free, 30-minute webinar:

Software + Hardware + Automation = CFD Acceleration

September 24, 2025 | 12 PM ET

In this session, you'll discover how to:

- Eliminate workflow bottlenecks and cut wasted time
- Make smarter hardware investments (without overspending)
- Use automation to boost throughput and reduce manual tasks
- See real-world hardware setups optimized for STAR-CCM+

With simulation workloads only getting heavier, inefficient hardware use can slow projects by up to **70%**. We'll show you proven strategies to unlock faster, more cost-effective CFD — so your team can spend less time waiting and more time innovating.

[Register Now](#) to reserve your spot and take the first step toward accelerating your CFD.



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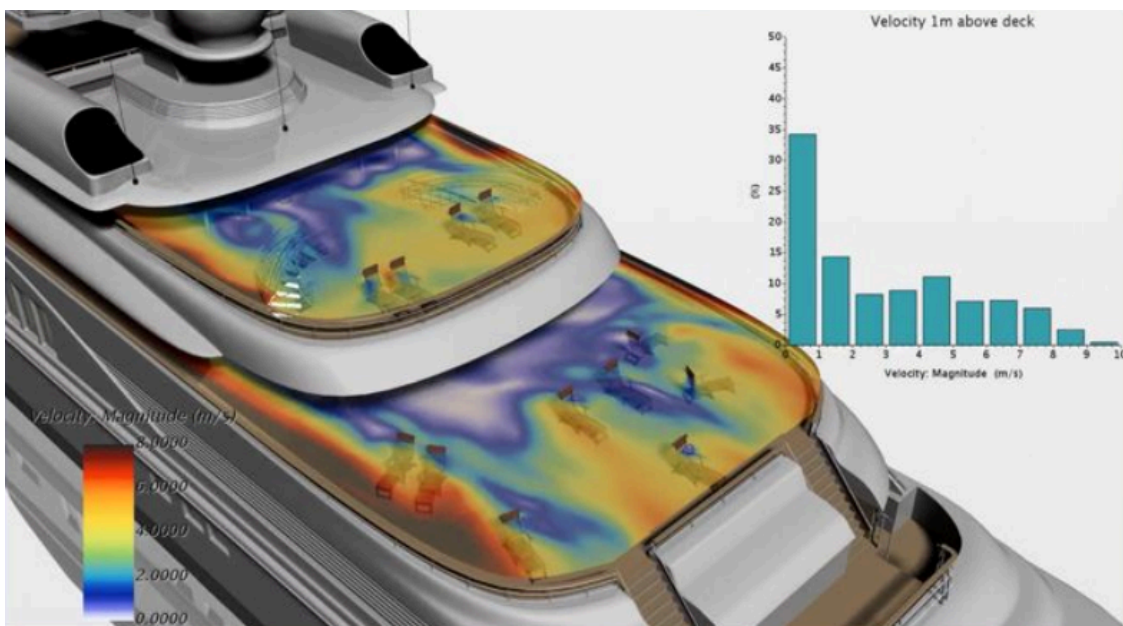
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- Reduce bottlenecks in simulation workflows
- Make strategic hardware investments
- Use automation to boost throughput

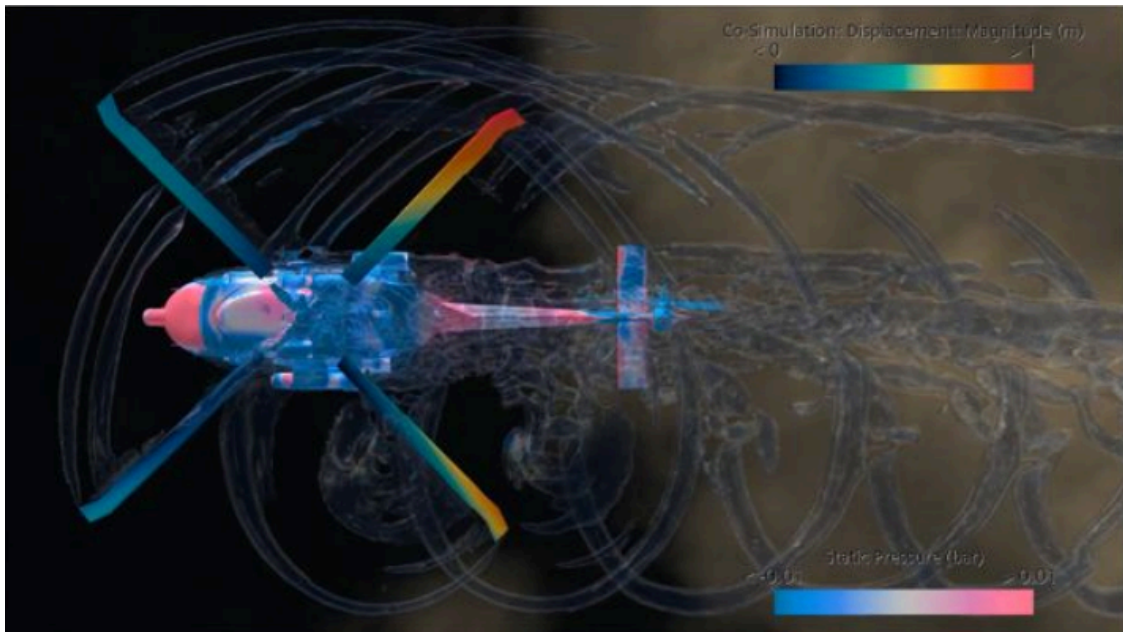
From Data to Decisions: How STAR-CCM+ Powers Smarter Design

Today's engineering challenges demand more than just running simulations — they require the ability to analyze, visualize, and communicate results quickly. That's where Simcenter STAR-CCM+ Data Analysis shines. With advanced visualization, photorealistic rendering, and collaborative web tools, engineers can cut through complexity and make confident design choices faster.



At TotalSim, we leverage these capabilities to help clients uncover critical insights, explore trade-offs early, and streamline decision-making — whether it's optimizing aerodynamics, balancing thermal loads, or conducting immersive VR reviews. The result? Smarter, faster innovation.

Read the [full post](#) to see how TotalSim applies STAR-CCM+ Data Analysis to deliver better outcomes for our customers.



Upcoming Events

[Software+Hardware+Automation = CFD Acceleration](#) // September 24, 2025

[National Advanced Air Mobility Industry Forum](#) // October 14 - 15, 2025 //
Springfield, OH

[PRI](#) // Booth #133 // December 11 - 13, 2025 // Indianapolis, IN

Industries Where We Excel



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