



**TSUS e-Brief March 2023 | Issue 3**

---

## **Leverage TotalSim's CFD Capabilities for your Aerospace R&D Challenges**

The world of aircraft and aerospace research and development doesn't have to feel overwhelming. TotalSim can help make life easier and reach your goals by taking aerospace related CFD needs off your hands.

TotalSim uses our extensive experience in aerodynamics, related to aircraft ranging from UAS to AAM, GA and commercial, along with our advanced CFD technology to create solutions that help you visualize your project and outperform the competition.

All of this can be done in the virtual world, lowering your R&D spend by helping you produce fewer, better prototypes while solving problems with minimal physics testing. Learn more about how we can help you lower your R&D spend [here](#).

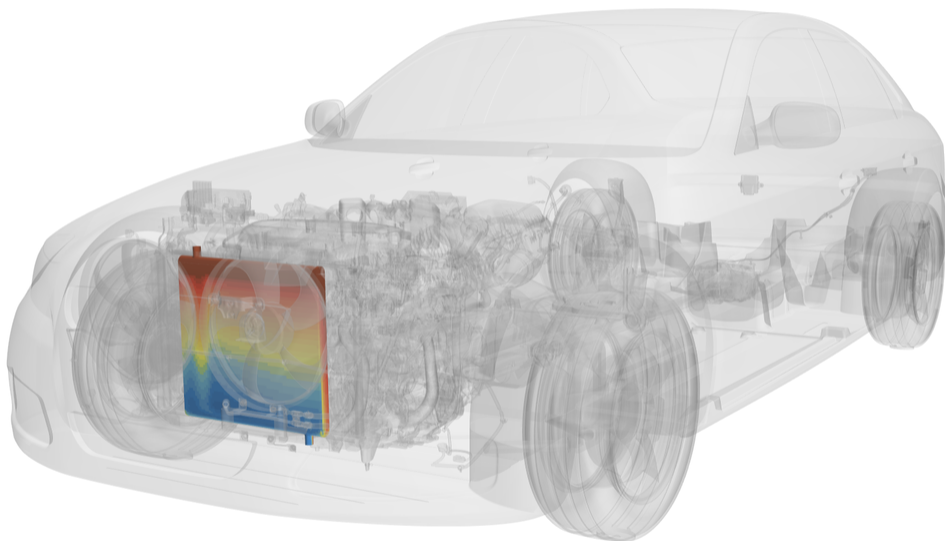
Even if you don't need a full-on consulting partner, TotalSim can help with technologies such as our intuitive app TSAero that lets you take your current knowledge of aerodynamics and CFD and integrate it on your own terms. Learn more about TSAero and what it can do for you on [our website](#).



---

## The Man Behind the Curtain? In this Case, it's CFD

Despite keeping our eyes on a lot of industry-related media, we don't run across CFD articles very often. Maybe it's because teams and suppliers who use it know that CFD modeling gives them a competitive advantage and want to keep it under wraps. So we were pleasantly surprised to see [this article](#) in a recent issue of PRI Magazine about industry-leading cooling system suppliers using CFD.



While the suppliers featured in the article aren't our clients, the discussion perfectly encapsulates what we do and illustrates the benefits of utilizing powerful CFD technology in many different segments of automotive development. These quotes, in particular, had us nodding our heads in agreement:

*'Early-in-the process use of software gives the supplier a 'competitive advantage' in which solutions often 'are contrary to what is generally accepted.'*

*When the model is proven in real-world application, ‘then you have an advantage because everybody is going down one path that is wrong, and you are coming out of left field with an idea that is weird but works 10 times better.’*

[Connect with our president, Ray Leto](#) if you’d like to learn more about how CFD and physical testing work hand-in-hand to produce a better product and keep you competitive.

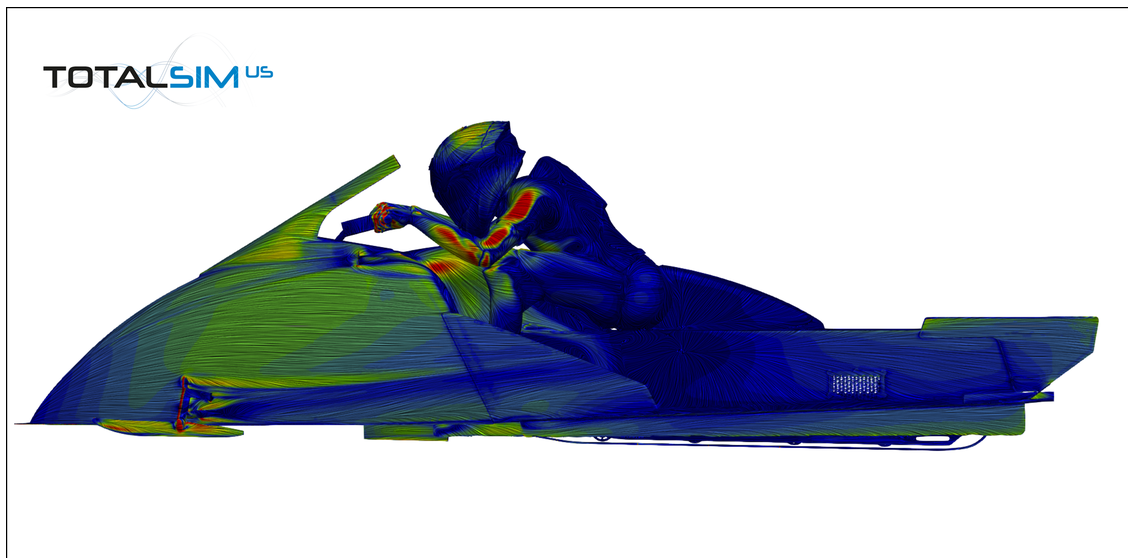
---

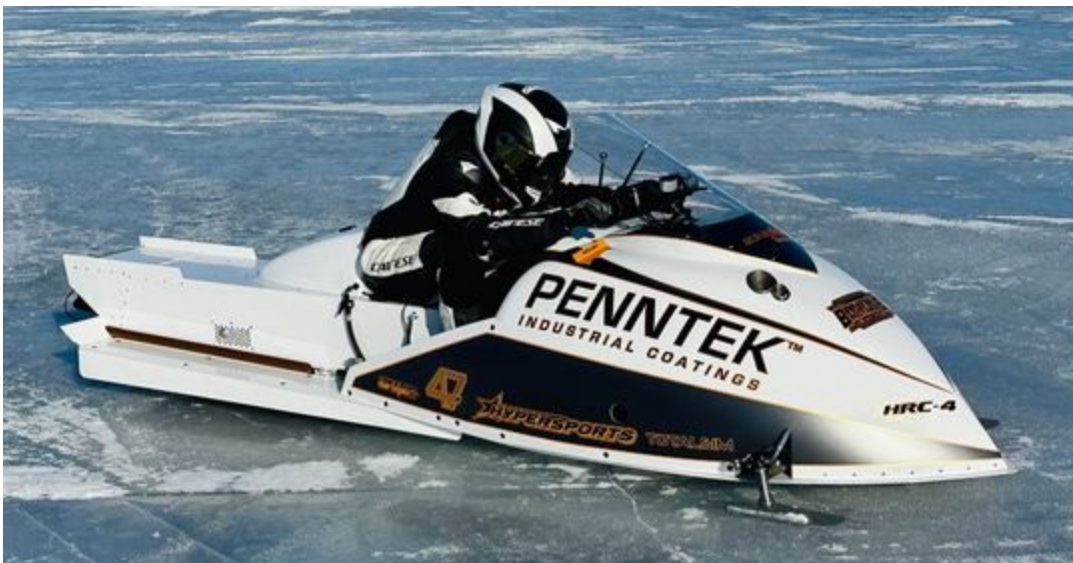
## TotalSim US and Hypersports Work Together to Beat Land Speed World Record

As we shared last month, [Hypersports](#), a Wisconsin-based builder of extreme high-horsepower, purpose-built snowmobiles and engines, came to TotalSim looking to beat the world record for speed with a goal of hitting 200 mph.

Hypersports recently raced the snowmobile and broke the world record with a speed of 198.67 mph over 1,000 ft.

Click [here](#) to read the full case study.





---

## Update your Toolkit with Star-CCM+

Though we are solver-agnostic, promoting free and open-source whenever possible, we realize there are some tools that help get you to market faster, at lower cost and with optimized design. One such tool is Simcenter Star-CCM+. We invested in this high-value simulation tool and are experts who know how to use it, so you don't have to. We skillfully apply the best of Star-CCM+'s functionality into elegant, customer-tailored workflows.

[Find out how our Star-CCM+ proprietary workflows can work for you.](#)



---

## Trade Shows and Conferences

This month, Tom had the opportunity to attend Work Truck Week in Indianapolis. Work Truck Week is North America's largest work truck event with commercial vehicles, equipment and products from 500 industry companies.

Tom met with our friends at Bollinger Motors and made some new connections. He also got to see some of the industry's latest products and technology.

Perry and Alberto also attended the International Fluid Power Exposition (IFPE) show in Las Vegas. IFPE is the number one trade show and conference for fluid power, power transmission and motor control. They were able to meet with past, current and potential new customers.



### Upcoming Events

[Ohio Air Mobility and Symposium](#), March 29-30, Columbus, OH

[SAE International's WCX](#), April 18-20, Detroit, MI

[Advanced Clean Transportation Expo](#), May 2-4, Anaheim, CA

[AUVSI Exponential](#), May 5-11, Denver, CO



Grow your business with  **mailchimp**