

TOTALSIM^{US}

TSUS e-Brief | Issue 3

Fresh Tracks: Pushing the Limits of CFD

TotalSim US Co-Founder, Ray Leto, shares how with Siemens Digital Industries Software

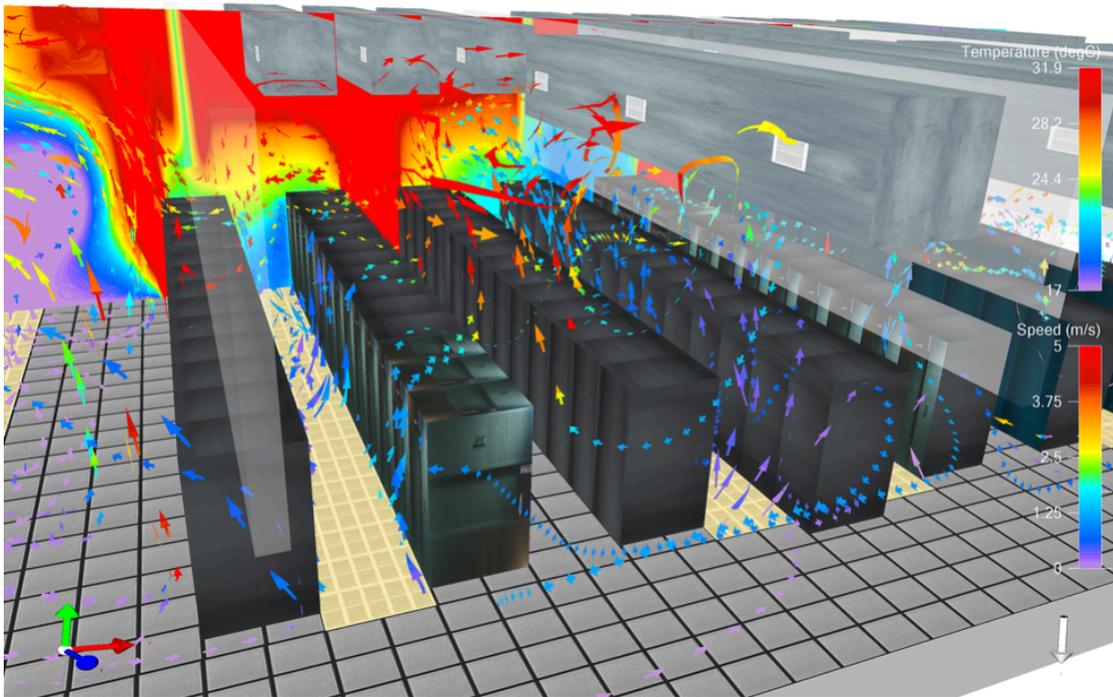
Ray recently stepped in front of the camera for a video interview where he talks all things thermal management—and trust us, it’s cooler than it sounds (literally). From behind-the-scenes tech to real-world impact, he breaks down how smart simulation is turning up the performance dial in motorsports and beyond.

Want to hear Ray’s take? Watch the full video on our [website](#) or check it out on [YouTube!](#)



Industry Spotlight: Supercharging Data Center Design with CFD

When it comes to designing efficient data centers, cooling and airflow are critical—but they don't have to be a guessing game. With CFD, engineers can accurately simulate airflow and temperature distribution before the physical work even begins. TotalSim leverages advanced CFD technology to help optimize data center layouts, ensuring efficient cooling and energy use, while identifying potential hotspots or areas of concern early on.



With CFD, data center designs can be fine-tuned for maximum performance and efficiency, saving both time and costs. Whether you're planning a new build or upgrading existing infrastructure, simulations offer valuable insights into how your design will perform under real-world conditions—allowing you to make data-driven decisions that enhance reliability, reduce energy consumption, and future-proof your facility. [Chat with a TotalSim team member](#) and learn more!

Webinar Alert: Optimizing Data Center Design and Performance

June 11th, 2025 12:30 PM Eastern

Join TotalSim's own Perry Lee to dive into the world of datacenter thermal management! Discover how mastering the heat can unlock peak performance and unstoppable uptime, even when systems are under pressure.

Efficient cooling is crucial for data center reliability, performance, and longevity, as well as for reducing energy consumption and associated costs.

By applying advanced thermal management—powered by [STAR-CCM+](#)—we will discuss key challenges in Datacenter Thermal Management and how they can be resolved

- **High Heat Density:** Modern servers and other IT equipment generate significant heat, especially during high-performance workloads like AI and machine learning
- **Consistent Cooling:** Manage dynamic workloads that cause fluctuations in heat generation
- **Space Constraints:** Datacenters are often packed with equipment, making it difficult to install and manage cooling systems effectively
- **Energy Efficiency:** Cooling systems themselves consume a significant amount of energy, so minimizing their energy consumption through operational planning is crucial

[Register Now](#)

Join the Conversation



WEDNESDAY, JUNE 11



12:30 PM EASTERN

SPEAKER



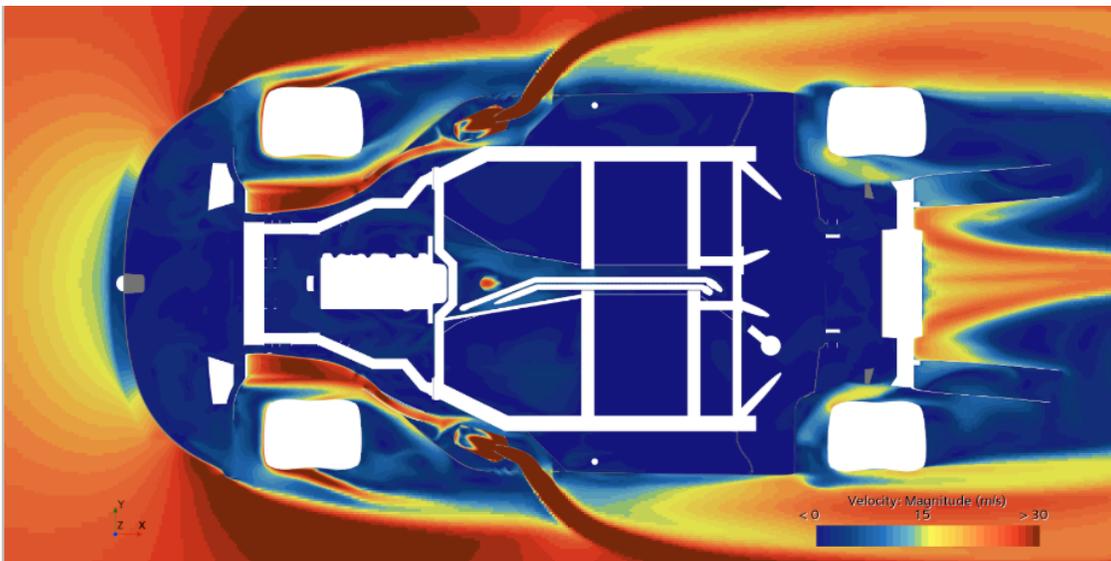
PERRY LEE

SENIOR CFD
ENGINEER

Coming Up Next: TotalSim at the 2025 VFS Forum in Virginia Beach

Next up, TotalSim US will have a booth at the [2025 VFS Forum 81](#). **The Vertical Flight Society's 81st Annual Forum & Technology Display** is the world's leading international technical event on vertical flight technology. The conference will span three days and include 300+ technical papers on every discipline from Acoustics to Test & Evaluation, as well as invited presentations and discussions by leaders in the military, government agencies and industry. **Come say hi at Booth #611.**

Blast from the Past: Enhancing Thermal Analysis in NASCAR Racing



It's hard to believe it's been almost a year since our very first webinar, *"Enhancing Cabin Comfort Through Advanced Thermal Management."* As we gear up for our next session, we're taking a moment to reflect on Greg's webinar debut!

In this webinar, we explored how conjugate heat transfer, radiation, and advanced thermal management—powered by STAR-CCM+—were used to elevate the racing experience. From detailed simulations to optimized design iterations, we helped improve cabin comfort so NASCAR drivers could focus on the win.

Missed it? You can still catch the full webinar on our [YouTube channel](#) or [website](#).

Upcoming Events

VFS Forum 81 // Virginia Beach, VA // May 20 - 22

Webinar // Optimizing Data Center Design and Performance // June 11

VFS Electric Aircraft Symposium // OshKosh, WI // July 19 - 20

Industries Where We Excel



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