

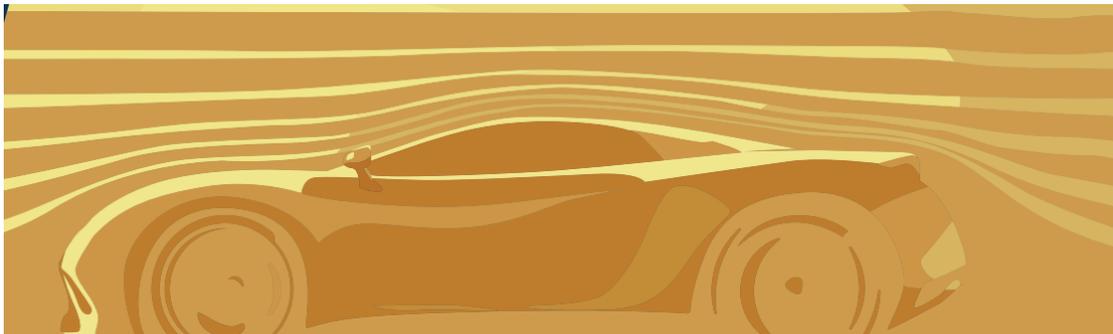
# TOTALSIM<sup>US</sup>

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## The Roles of Simulation and Testing in Product Development

Using simulation early in the design process helps minimize late-stage design changes, reducing costs associated with prototyping and rework. By putting simulation tools directly into the hands of designers and engineers, they can make informed decisions more quickly, while also freeing up dedicated analyst resources for other high-priority tasks.



"Frontloading" simulation typically involves integrating simulation tools directly into the CAD environment, allowing for tasks like 3D CFD, structural analysis, topology optimization, and more. These tools should be aligned with the designers' workflow, expertise, and experience to ensure effective use.

Read the full e-book to learn more about how companies are shifting simulation earlier in the product development process, as well as how they are tackling challenges in simulation data management and enhancing collaboration.

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## Welcome to the TotalSim Family: Headspace Design Lab

We're excited to introduce [Headspace Design Lab](#) as our newest client at TotalSim! Based in Santa Cruz, CA, Headspace Design Lab was born out of a small garage with one goal in mind: turning innovative ideas into reality. Their focus? Revolutionizing helmet design and advancing concussion and brain injury protection. With over 75 years of combined experience in engineering, testing, and product development, they're dedicated to working with leading brands to push the boundaries of helmet technology and help make helmets people actually *want* to wear.



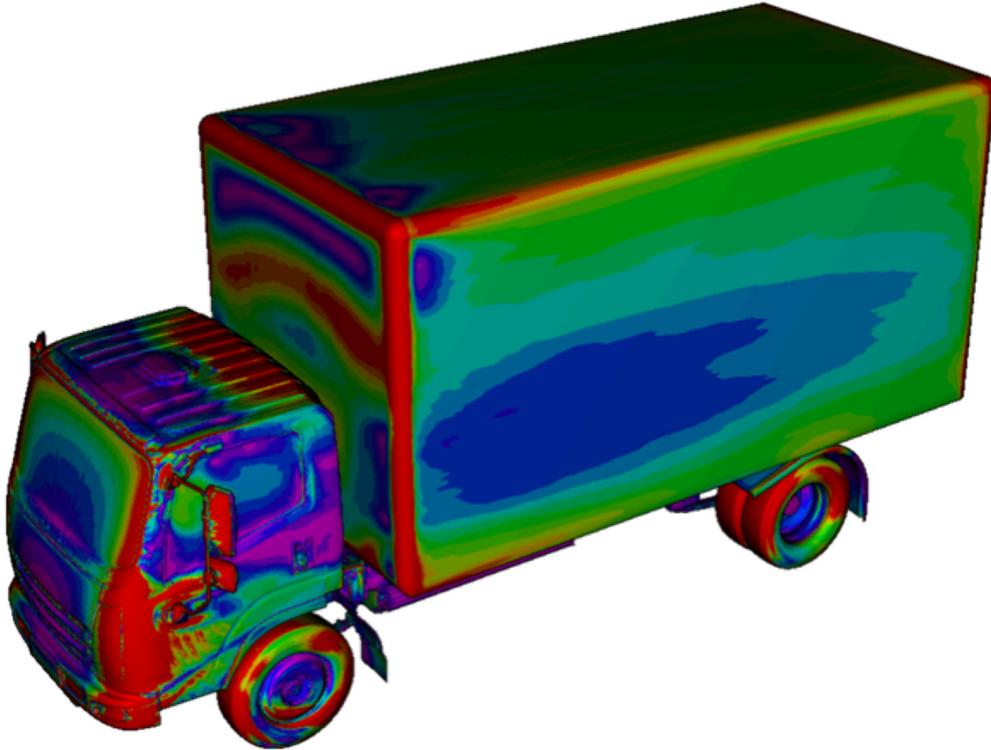
What brings them to TotalSim? After years of using CFD tools for their designs, Headspace made the switch from ANSYS FLUENT to [STAR-CCM+](#) for its seamless, end-to-end workflow. With STAR-CCM+'s ease of use and powerful features, they're ready to take their helmet designs to the next level.

At TotalSim, we're thrilled to be partnering with Headspace Design Lab and supporting their mission to make head protection smarter, safer, and more innovative than ever.

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## TotalSim's Back at WorkTruck Week 2025— Catch Us on the Floor!

TotalSim is excited to be back at [WorkTruck Week 2025](#)! This is the go-to event for anyone in the commercial vehicle industry, packed with the latest tech and trends. Nick will be walking the floor, catching up with industry folks, and showing how we've worked across every corner of the trucking world.



With Naethan's years of leading aerodynamic project work in the [transport industry](#), and his role on the SAE Truck and Bus Committee—an influential group focused on developing standards for truck testing and performance—we're excited to continue shaping the future of work trucks. See you there!

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### [Upcoming Events](#)

[Work Truck Week](#) // Indianapolis, IN // March 4 - 7

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### Industries Where We Excel





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