

## Red Bull Racing and Ansys Fast-Track Race Winning Design

February 16, 2021

Ansys' industry-leading digital technologies cut engineering costs, greatly reduce race car development time

PITTSBURGH, Feb. 16, 2021 /PRNewswire/ --

Ansys\_\_\_Red\_Bull\_Racing\_Simulations

## / Key Highlights

- Red Bull Racing uses Ansys to optimize aerodynamic performance as the team heads into the 2021 season
- The renewed innovation partnership helps the team's engineers quickly create the most high-performing designs substantially faster, equipping them with a significant performance edge over the competition

Red Bull Racing is using Ansys' (NASDAQ: ANSS) cutting-edge simulation solutions and highly advanced materials data management system to rapidly develop its Formula One race cars. Building on a 13-year relationship as innovation partners, Red Bull Racing and Ansys are continuing to drive engineering productivity and slash design cycle time by helping engineers create enhanced car designs faster.

With mere days to plan between competitions, Red Bull Racing's engineering team must operate within a tight development window to evolve race car aerodynamics and shave seconds off lap times. The team relies on <a href="Ansys@Fluent@Ansys">Ansys @Ansys @

Additionally, engineers leverage Ansys® Granta MI<sup>™</sup>, a comprehensive, single source of truth materials data management system that enables engineers to swiftly select materials, reduce errors and drive team collaboration. The team also depends on Ansys® LS-DYNA® to define car crash structures by simulating and correlating impacts with real-world testing, greatly decreasing the need for physical tests.

"Digital simulation is core to Red Bull Racing's rapid design process and extending our innovation partnership with Ansys ensures that our team continues to benefit from best-in-class simulation technologies," said Matt Cadieux, chief information officer at Red Bull Racing. "As a team, we are always pushing our innovation partners to deliver the latest competition-beating tools to maximize on-track performance. By integrating Ansys' technology into our design processes, our team iterates aerodynamic designs much faster, giving us the edge against our competition on the track."

"Facing extremely short development periods between races to overcome complex aerodynamic design issues creates major hurdles for developing enhanced Formula One cars," said Shane Emswiler, senior vice president at Ansys. "By renewing our longstanding partnership with Red Bull Racing, their team's engineers will continue to rely on Ansys' high-fidelity simulation solutions to speed the design of championship race cars that consistently outpace and outperform the competition."

## / About Ansys

If you've ever seen a rocket launch, flown on an airplane, driven a car, used a computer, touched a mobile device, crossed a bridge or put on wearable technology, chances are you've used a product where Ansys software played a critical role in its creation. Ansys is the global leader in engineering simulation. Through our strategy of Pervasive Engineering Simulation, we help the world's most innovative companies deliver radically better products to their customers. By offering the best and broadest portfolio of engineering simulation software, we help them solve the most complex design challenges and create products limited only by imagination. Founded in 1970, Ansys is headquartered south of Pittsburgh, Pennsylvania, U.S.A. Visit <a href="https://www.ansys.com">www.ansys.com</a> for more information.

Ansys and any and all ANSYS, Inc. brand, product, service and feature names, logos and slogans are registered trademarks or trademarks of ANSYS, Inc. or its subsidiaries in the United States or other countries. All other brand, product, service and feature names or trademarks are the property of their respective owners.

ANSS-C

## / Contacts

Media Mary Kate Joyce

724.820.4368

marykate.joyce@ansys.com

Investors Annette N. Arribas, IRC

724.820.3700

annette.arribas@ansvs.com

ansys\_\_inc\_\_logo

C View original content to download multimedia: <a href="http://www.prnewswire.com/news-releases/red-bull-racing-and-ansys-fast-track-race-winning-design-301228387.html">http://www.prnewswire.com/news-releases/red-bull-racing-and-ansys-fast-track-race-winning-design-301228387.html</a>

SOURCE Ansys