

CATESBY PROJECTS **SERVICES**

Company Overview



UK Based with a Global Presence

Catesby Projects, part of the TotalSim Group, provide cutting-edge aerodynamic and engineering consultancy, along with physical testing services, across high-performance automotive, motorsport and elite sports sectors.

With a discreet and adaptable approach, we work behind the scenes as both service providers and trusted partners.

Our engineers have played a key role in developing race-winning cars, from grassroots motorsport to Formula 1 and have contributed to the success of world champions across multiple disciplines.

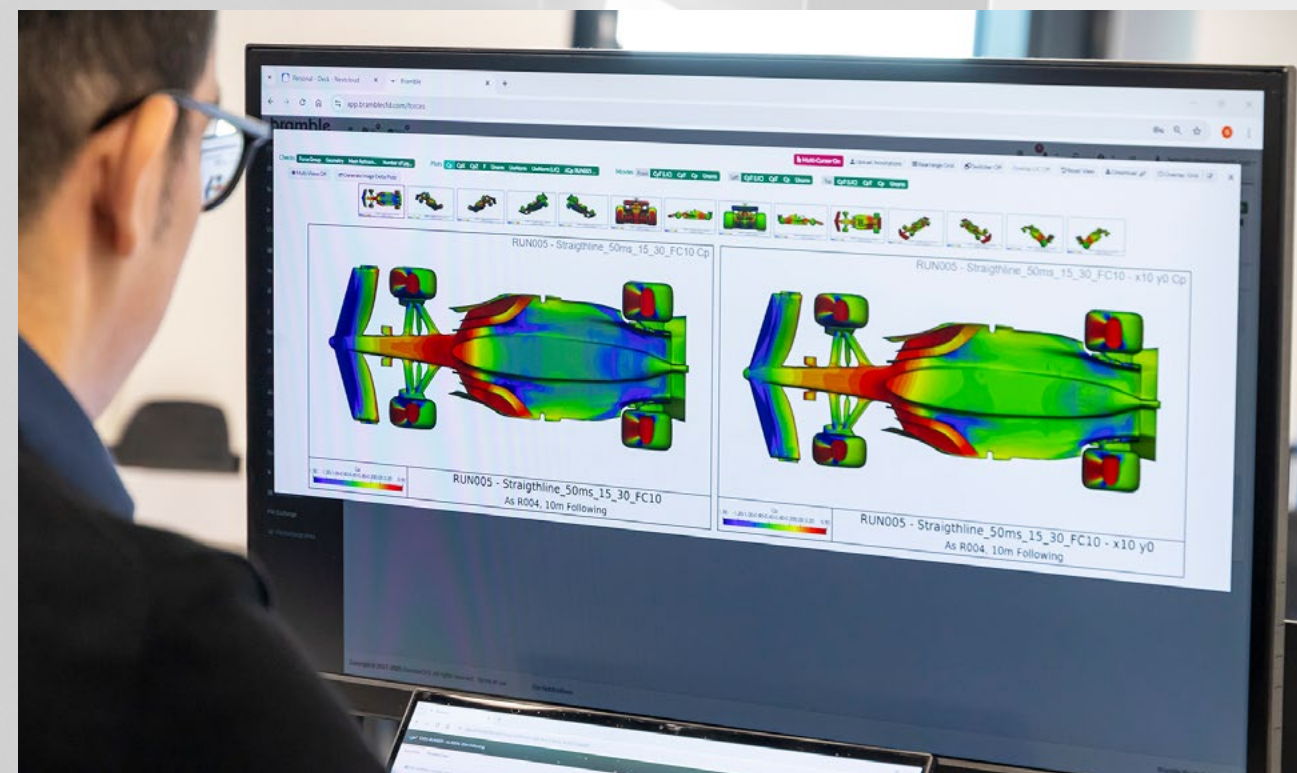
Our success is built on delivering performance, maximising value, and fostering long-term partnerships, many of which have endured for over a decade.



Services

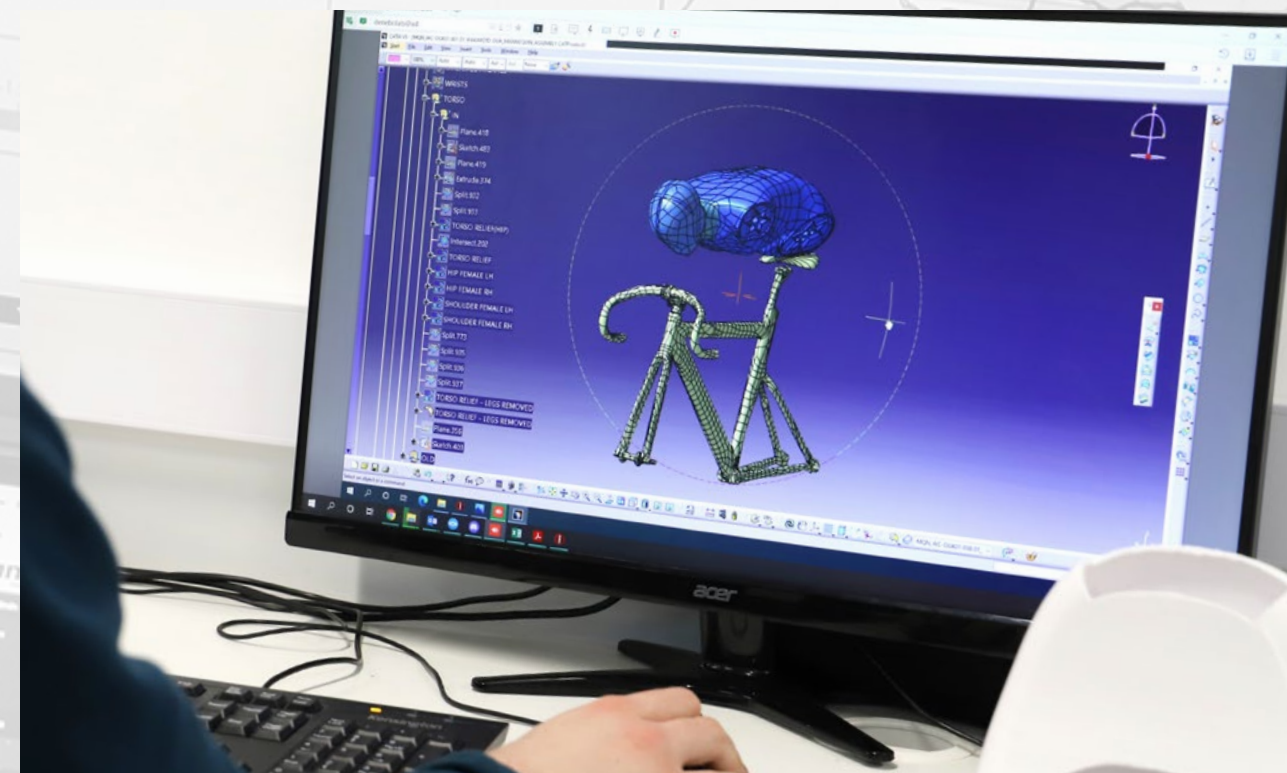
Catesby Projects provide a range of services to help customers develop and extract performance from their vehicles, from concept through to the chequered flag.

Aerodynamics



- CFD Aerodynamic Development
- CFD Support
- Aerodynamic Mapping
- Aeroacoustics
- Correlation and Validation
- Catesby Tunnel Facilities Hire

Engineering & 3D



- Mechanical Design
- 3D Scanning and Reverse Engineering
- 3D Printing and Prototyping
- FEA
- Catesby Tunnel Test Support

Design



- Creative Design
- Styling
- Rendering and Visualisation
- Aerodynamic Animation
- Livery Design

Leading Aerodynamics and CFD Consultancy

We are experienced and have helped our customers deliver performance leading aerodynamics, world titles and Olympic medals. Our team of engineers have more than a hundred years of combined applied aerodynamics consultancy experience between them, so you can be assured we are well suited to help you achieve your ambitions.

Our computational toolset has been developed within the TotalSim Group, and continues to evolve, in order to deliver bespoke, rapid and accurate solutions that maximise delivery to our customers.

We take confidentiality extremely seriously

Catesby Projects has partnered with some of the world's leading marques, contributing to world titles and record-breaking achievements across various disciplines. Our expertise, rapid turnaround times, and commitment to discretion set us apart, delivering cost-effective results without compromise.



3D Scanning

A complete range of full vehicle and component 3D scanning services designed to meet your needs.

Whether you are looking to scan your vehicle in order to carry out CFD simulations or to reverse engineer a historic race car, Catesby Projects are highly experienced in vehicle scanning and can capture your required geometry efficiently, accurately and affordably.

Motorsport scanning for CFD mapping

Competitor benchmarking

Tyre and contact patch scanning

Historic car reverse engineering

Assembly quality control

Isolated component scanning

Full vehicle scanning



Catesby Tunnel

Catesby Projects is the worldwide reseller for Catesby Tunnel, a 2.7km long purpose-built indoor straight road test track, perfect for repeatable and representative real-world testing.

Vehicle Aerodynamics

Aerodynamic Mapping

Full Vehicle Performance

Thermal Analysis

Competitor Analysis

Balance of Performance

Homologation Preparation

**A unique full scale testing facility,
providing complete confidentiality and privacy.**



Aero Mapping

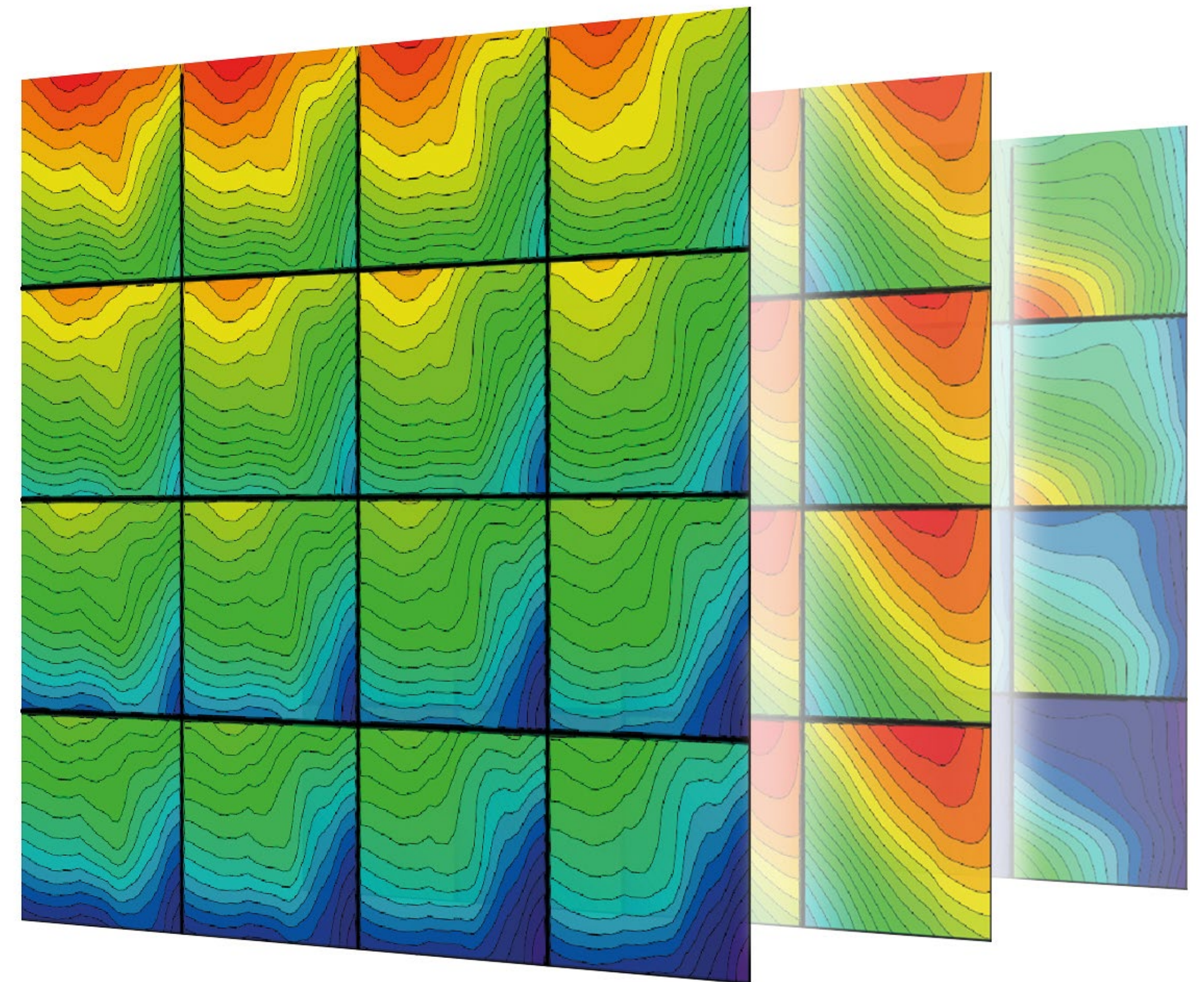
Catesby Projects has unique capabilities to fully realise the aerodynamic performance of your vehicle.

We create powerful and bespoke aerodynamic mapping data, enabling race engineers to quickly identify the optimum vehicle setup such as ride height and wing angles that will minimise lap times.

An aerodynamic map is a multidimensional lookup table that allows key performance metrics to be instantly found for any parameterised vehicle setup within its operating window. It quantifies the vehicle's aerodynamic performance envelope, revealing the configurations required to extract maximum performance and they are proven to correlate with both track and tunnel testing.

The key to unlocking the aerodynamic potential of your vehicle, finding marginal gains, even in a single-make series.

Our aerodynamic maps reveal unprecedented insight into a vehicle's aerodynamic behaviour, allowing engineers to make quick, informed and data-driven decisions at the track.



Why Catesby Projects?

Whatever the application, whatever the budget, our unique experience and expansive toolset will help deliver results to your aerodynamic problems quickly and effectively.

Trusted

Catesby Projects are trusted by the world's top OEMs and many respected motorsport teams to deliver aerodynamic services and development.

Beyond CFD

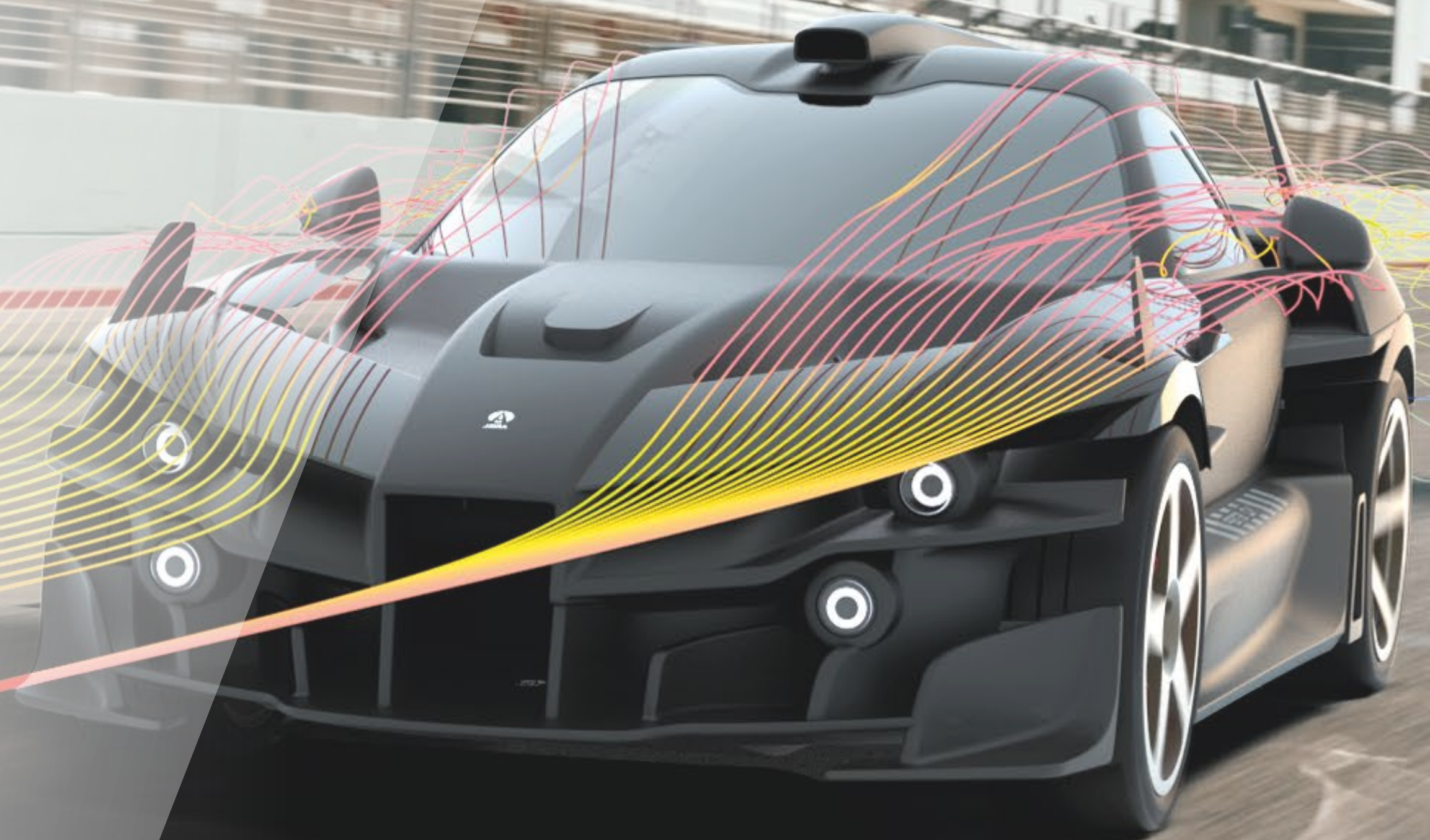
What sets us apart is our experience and knowledge in each part of the process. From scanning the vehicle, to running simulations, to full-scale testing. Our ability to consult on the up/downstream has proved invaluable to our existing customers.

Winning Recipes

Our methods and services are proven to deliver race winning advantages, securing world championships in nearly all categories of motorsport.

Value

Our approach and methods ensure that we deliver efficient and affordable solutions to match budgets.



**Think you might have a project
we can help with?**

Please get in contact via :
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