The bottleneck

CFD ANALYSIS

MORE CFD ANALYSIS

YOUR DATA

Regulation:
less CFD hours

CFD only

YOUR RESULTS

Why **reduce** the number of aerodynamic results available when you can **increase** it?

The enabler

AI: leverage your data to generate more predictions

… WAY MORE

… AND MORE

YOUR DATA

AI

YOUR RESULTS

NAVASTO

Aerodynamics complexity in Formula 1 keeps increasing

Aerodynamic complexity

2022

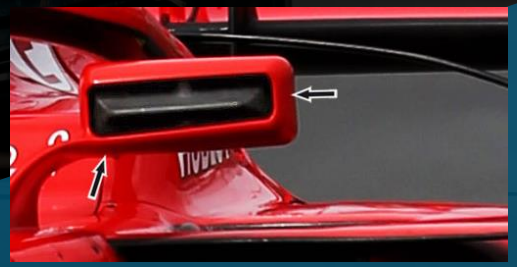
Tightening **aerodynamic testing restrictions**

2023

Ride **height and diffuser adjustments**

Revised mirrors to improve driver visibility

Doubled number of **sprint events**



2026

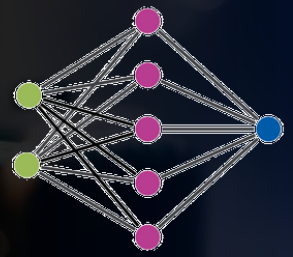
More efficiency, **less fuel**, and carbon net zero

Active aerodynamics to reduce drag and fuel consumption

NAVASTO

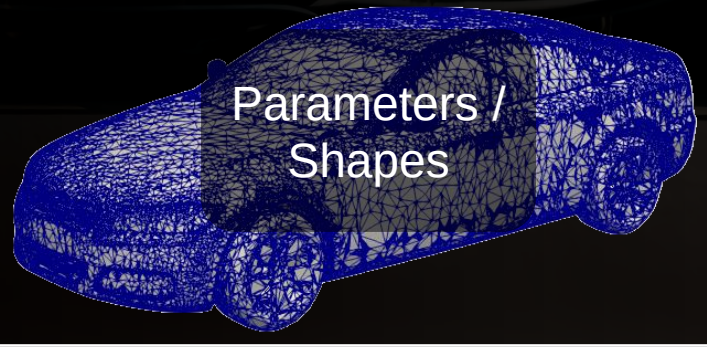
What if you could leverage your data for aerodynamic predictions?

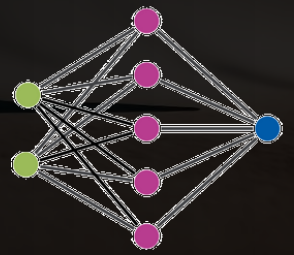
Train from your data…



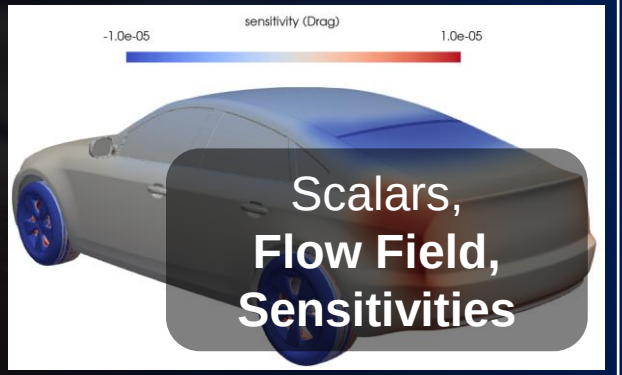
AI Model

…and **Predict**





AI Model



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F1 Customer - Undisclosed

CHALLENGE

Find optimal design with **limited** amount of CFD runs

SOLUTION

Use of **AI model, trained on CFD data** to generate results for geometries not previously analysed

RESULTS

- **unlimited** tested geometries
- reduction of compute
- reduction in lead time for results

AI enabled unlimited iterations

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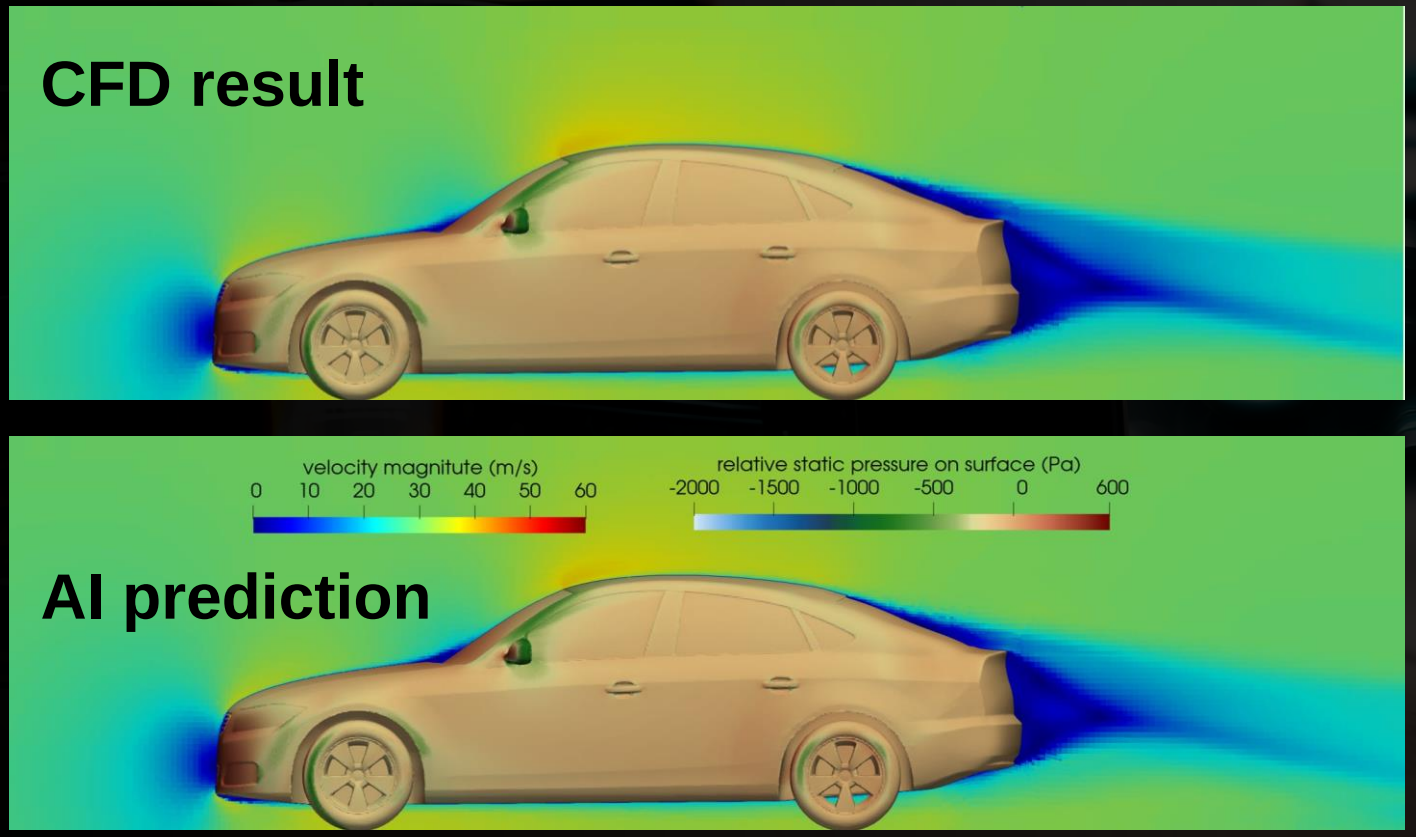
High speed & High accuracy



12 hours

20 ms

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Start your AI journey with NAVASTO

Contact information

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