Go Further, Faster.

ICON Intro & Update



CONFIDENTIAL

Presented by ICON

November 2026

Overview

Simulation Engineering Excellence

30+ years of independent CFD partnership with global industry manufacturers.

Choice. **Speed.** **Trust.**



iconCFD+
State-of-the-art CFD simulation software

iconPlatform
Unified Environment for Simulations, Data, Workflows, Computing and Know-how

ICON Consulting
Expert Aerodynamics and CFD service

OUR JOURNEY

iconConsulting → iconCFD → iconPlatform → iconCFD+

1992-2010 100% Consulting

2010-2020 50:50 Products : Services

2020 onwards Cloud services, AI and CPU/GPU computing added

AUTOMOTIVE CFD APPLICATIONS

Meshing & Wrapping

External aerodynamics
- Steady & transient
- Aeroacoustics
- Adjoint optimisation
- Dynamic mesh
- DoE



Contamination
- Water management
- Self-soiling
- Snow deposition
- Wipers modelling
- Wading & fording



Thermal management
- Under-hood TM
- Brakes cooling
- Thermal soak
- Battery charging
- HVAC



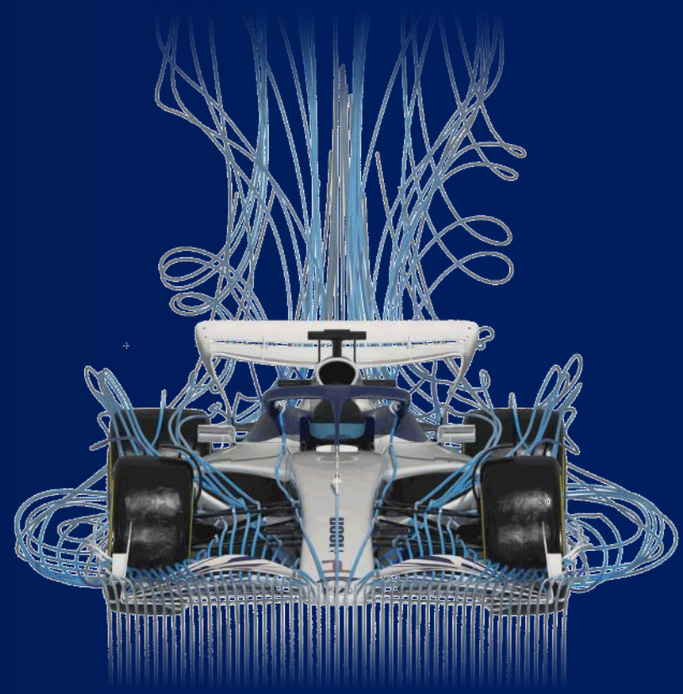
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iconCFD

Scale your simulation, not your cost.

Engineered to the highest standards of precision, iconCFD runs large concurrent simulations at scale, on any hardware, at a fixed cost regardless of usage, with dedicated global support.



At scale
runs & hardware

Fixed cost
any usage

2nd order
true, any mesh

y+1
layer coverage

UNIQUE FEATURES OF iconCFD

01 Robustness
to mesh quality & time-step

- Checkerboard-free pressure stabilization
- Improved mass conservation
- Dynamic convergence control

02 Performance
less time-to-solution

- Revised pU-coupling with guaranteed convergence
- Larger time-steps, less relaxation

03 Fidelity
aero accuracy

- True 2nd-order schemes on general meshes
- Avoids non-orthogonal limiter artefacts

04 Automated Meshing
industrial-grade meshing

- Snapping or cut-cell geometry capture
- Full layer meshing down to y+1
- Multi-threaded, memory-optimized for HPC

"iconCFD is the most used software on our High Performance Computers (HPC) globally"

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iconCFD+

3 seconds of transient full-vehicle aero. Less than two hours.

A first look at the **GPU-ready iconCFD+ NextGen solver**.

Choice
You choose the hardware.
One code base, GPU or CPU

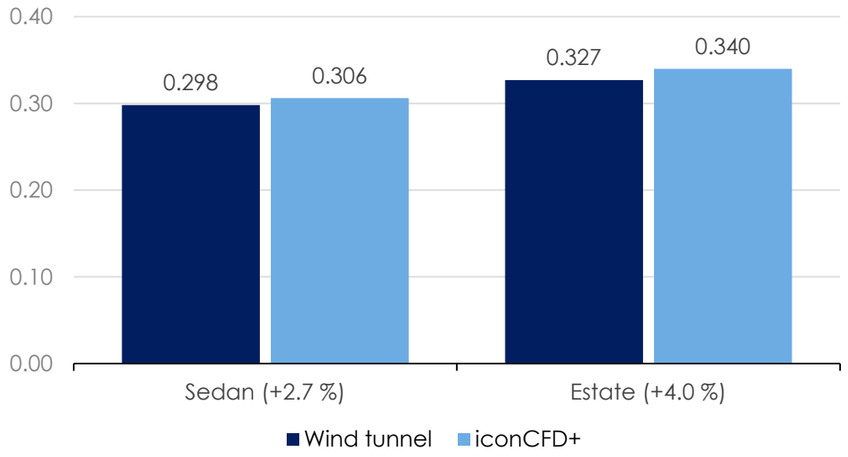
Speed
Faster time to result.
≈1.5 h for 3 s of transient, full vehicle

Trust
Wind-tunnel accuracy.
≤4 % Cd, 5 counts on the delta

VALIDATION CASE

Vehicle	OEM production car, sedan & estate
Setup	5-belt wind-tunnel template
Model	SA-DDES, transient
Simulated	3 s, averaged over 1-3 s
Wall-clock	1 h 30 min
Hardware	4 NVIDIA GPUs
Compared	Aerodynamic forces and surface-pressure probes vs wind-tunnel measurements

Drag coefficient Cd: experiment vs CFD



One code. CPU or GPU. Same accuracy.



CPU
Your existing HPC clusters

Same code
Same accuracy



GPU nodes
Your futre HPC

- **Protect your CPU investment** No forced migration: CPU clusters stay fully productive.
- **Adopt GPUs at your own pace** Add GPU capacity project by project, with the same solver.
- **One solver to qualify** One code base on both architectures: no second solver to validate.

Wind-tunnel correlation, on a production car

1. **Deltas captured**
   Estate vs sedan ΔCd: +0.034 predicted, +0.029 measured
2. **More accurate than v5**
   Consistently improved accuracy over current iconCFD v5
3. **Headroom left**
   Timings obtained on 2021 GPUs with a non-optimised build

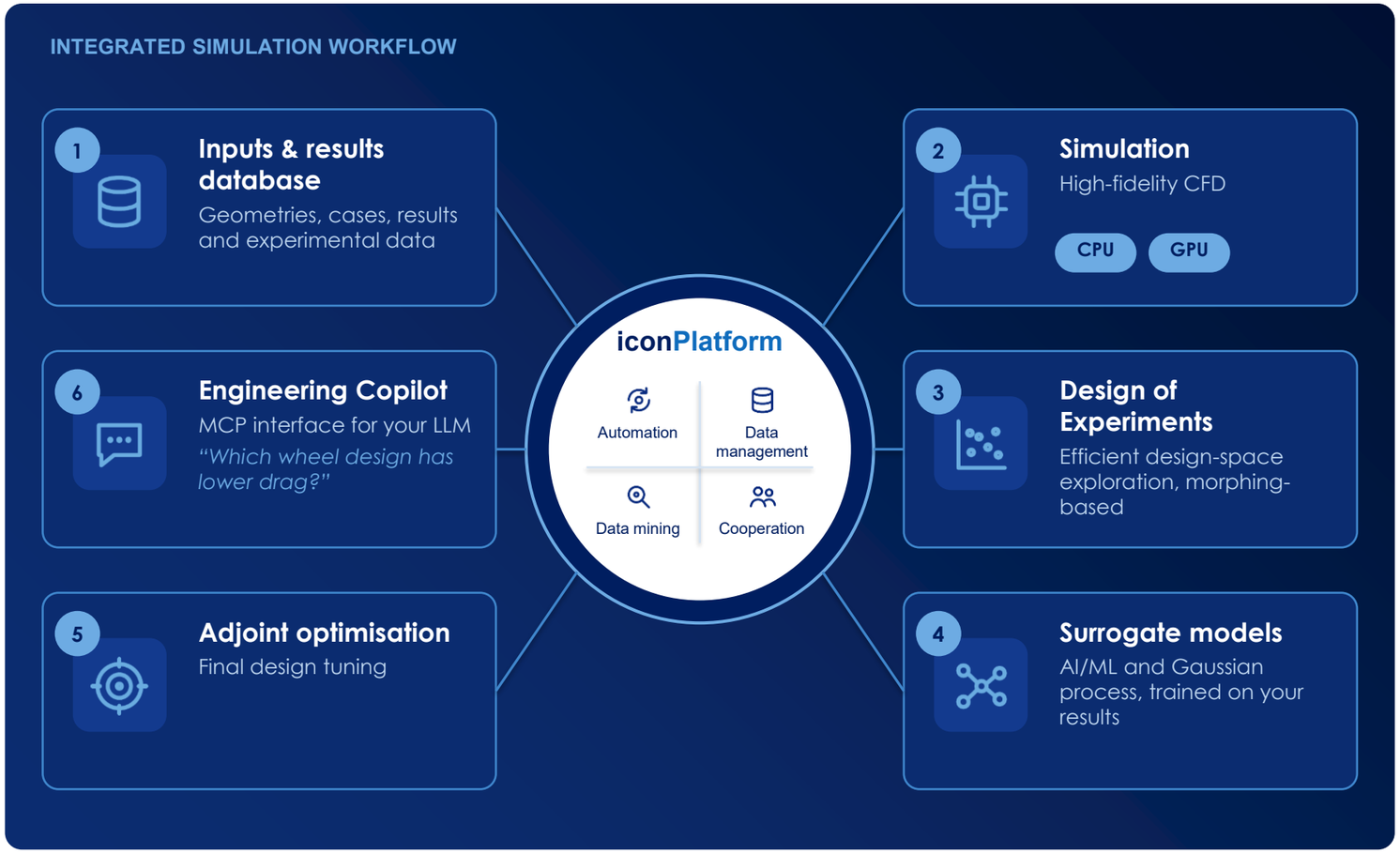
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iconPlatform

One environment for simulation data, workflows, computing and know-how

Web-based, software-agnostic, engineering agent ready. **Your CAE methods become Apps**, data lives in **one database**, compute sits behind **one interface**.



UNDER THE HOOD



Simulation methods as Apps
Workflows packaged once, Git-versioned, controlled usage.



Centralised database
Inputs, cases, results and test data in one place.



Resource management
CPU, GPU, HPC and cloud with token-based allocation.

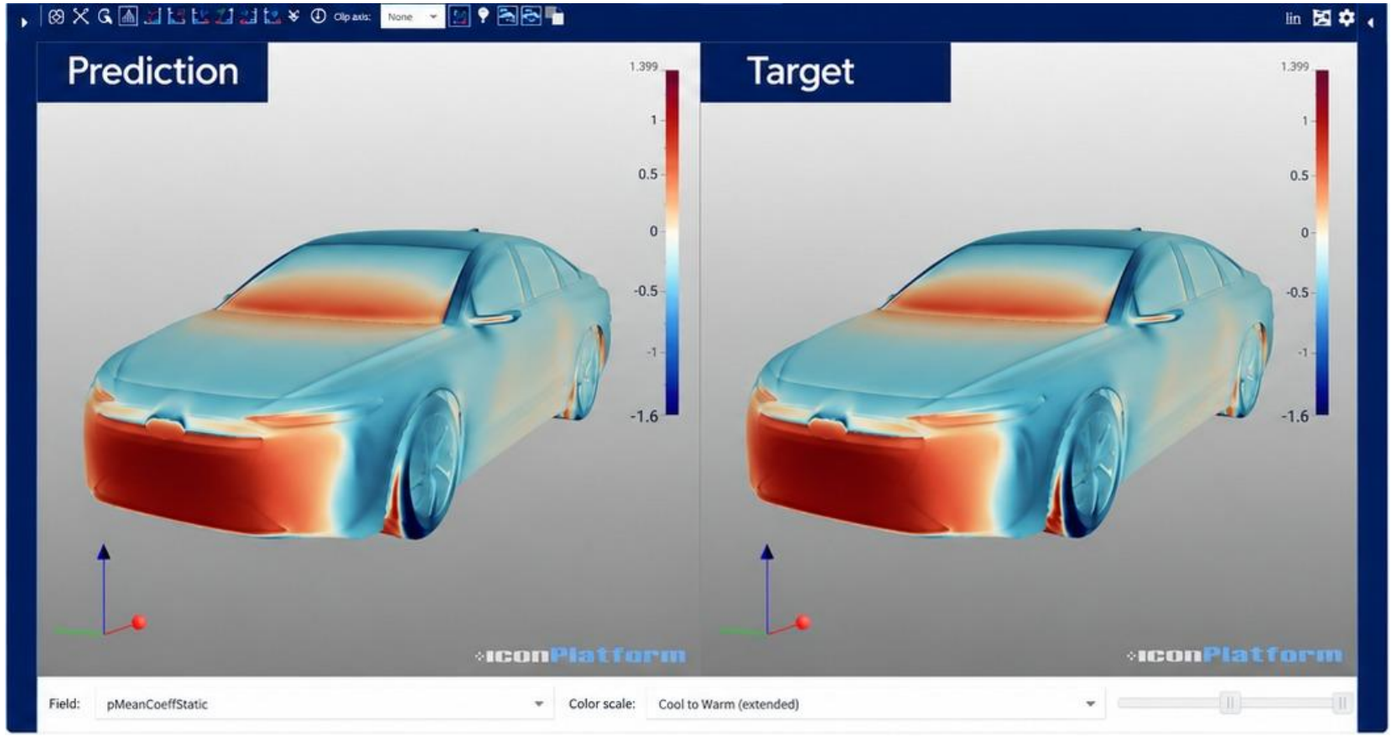


Share & protect IP
Partners use your methods without seeing your know-how.

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iconPlatform AI Surrogates

AI surrogates, governed like any other simulation



Transolver-3, ICON implementation: predicted vs simulated Cp, side by side in iconPlatform.

Train a surrogate on top of any App, then run that App in **High-Fidelity** or **Surrogate** mode.

High-Fidelity **Surrogate**

1. **Built in**
   Transolver-3, TripNet and MARIO. Transolver-3 reports the lowest errors of the models compared on the DrivAerML benchmark.

2. **Bring your own surrogate**
   Reuse the platform's data management, data loading and post-processing.

3. **Native projects**
   Full provenance, versioning and validation metrics.

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Go Further, Faster.

Let us talk about modernising your simulation environment – building on what you already run.

1 **Choice. You choose the hardware.**
- GPU or CPU, one solver, sold alongside iconCFD
- AI surrogates trained on your own data
- Control and sovereignty over your data and methods

2 **Speed. Faster time to result.**
- 3 s of transient full-vehicle aero in about two hours
- One environment to run, compare and share every simulation
- Live iconPlatform demo available

3 **Trust. Proven in production.**
- Within 4 % on Cd, validated on a production car
- Full iconCFD+ validation case available

"ICON technology stands out even when compared to the current market leader"

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