

# Rescale for Automotive Innovation

Purpose-Built Cloud Platform for Modern Computational Engineering

Industry Solutions

## Solution Overview

- » Flexible access to high performance computing capacity
- » On-demand access to simulation, modeling, and AI applications
- » Secure access to data on fast, parallel file systems
- » Shared context with automated metadata enrichment
- » Seamless collaboration for multidisciplinary, distributed teams

*"With this collaboration with Rescale, Hankook Tire's digital transformation has grown one step further at an incredible pace. We look forward to driving the Industry forward"*

— Wonhyuk Lee, Senior VP of R&D Innovation  
Hankook Tire

## Powering Breakthroughs in Mobility with AI-Enhanced Simulation

Automakers and suppliers depend on the simulation technologies and computational methods to improve vehicle performance, safety, and efficiency. Engineering teams need to collaborate and share data across broad value chains from design, to verification, and continuous improvement. Rescale delivers a purpose-built cloud platform for R&D and engineering teams to harness the latest simulation, AI, and HPC technologies to accelerate new products to market.

## Empowering 7 of the top 10 global automakers



### Latest HPC + AI Applications



Aerodynamics, Acoustics, Structural, Crash, Noise Vibration & Harshness, Durability, Handling

### Latest HPC + AI Infrastructure and Architectures



Multi Cloud, Hyperscale, Specialty Cloud, CPU, GPU, FPGA, Accelerators, etc.

## Full-Stack Automation for Computational Science and Engineering

### Compute Full-stack, flexible, and automated computing for HPC+AI applications

- Flexible & Scalable Job Submission with Intelligent Batch and Elastic Cloud Workstations
- Automated and standardized engineering processes with computational pipelines

### Data Unified engineering data management and collaboration

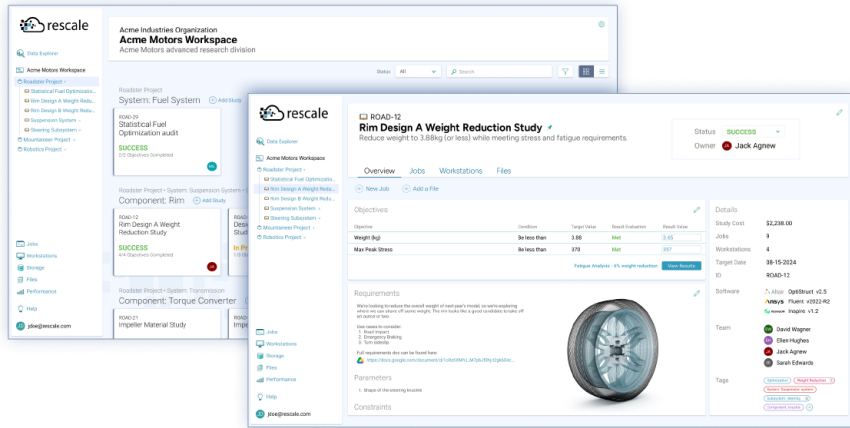
- Comprehensive simulation project and study planning with requirements tracking
- Seamless model-based collaboration for real-time, multidisciplinary analysis

### AI AI-assisted simulation and guided R&D experience

- AI Physics for Accelerated Inference of Simulation Results with pre-trained models and acceleration libraries
- R&D Copilot for AI-assisted workflows and natural language data search for new insights

# Seamless Collaboration for Multidisciplinary Product Engineering

Enable engineering teams to collaborate seamlessly and securely on advanced simulations. Rescale's cloud-native R&D platform delivers automated computing and data management capabilities to streamline product analysis and decision-making.

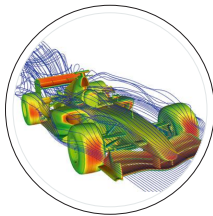


## Rescale Data Automation

- Integrated Planning & Management
- Model-based Collaboration
- Digital Thread
- Workflow Automation
- AI-Assisted Engineering
- Data Governance

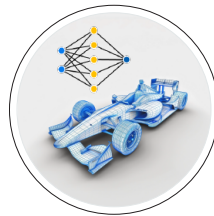
## General Motors Transforms Design Exploration with Rescale and AI Physics Design Exploration & Optimization Cycle with Simulation + AI

### 1 Simulation Data Generation



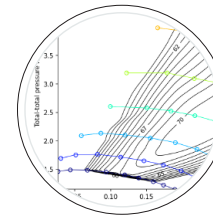
Generate deterministic CFD data, label data & prepare training datasets

### 2 Model Training & Deployment



Automate workflows for training & deploying custom AI models

### 3 Inference & Prediction



Run inference to rapidly evaluate one or many designs with probabilistic predictions

### Validation Tuning

Validate prediction accuracy and improve AI models with additional simulation

**85%**  
improved compute resource efficiency

**99%**  
accurate compared to traditional CFD

**10,000x**  
accelerated design evaluation



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#### About Rescale

Rescale's AI-powered cloud high performance computing (HPC) platform makes accelerating innovation possible for any organization. Innovators use Rescale to provide R&D teams the world's largest library of fully managed software applications and performance-driven computing architectures, robust data security, intelligent controls, and a seamless AI-driven experience. Leveraged by a majority of Fortune 500 companies to accelerate time to market, Rescale has been recognized by Gartner as a Cool Vendor for Cloud Infrastructure, by Deloitte as a Technology Fast 500 company, and by the World Economic Forum as a Global Innovator Unicorn. Learn more at [rescale.com](https://rescale.com).