

AI/ML-Enabled Engineering

The first intelligent automation platform for high-performance computing and AI/ML

Data Sheet

AI/ML Challenges Solved with Rescale:

- » Address AI skills gaps
- » Meet growing data quality and volume needs
- » Modernize legacy IT and Engineering systems

Business Outcomes:

- » Accelerated Product Time-To-Market
- » Optimized Product Engineering
- » Reduced R&D Costs

Powering R&D Breakthroughs Across Industries



Aerospace



Automotive



Semiconductor



Energy



Higher Education



Life Sciences



Manufacturing



Government

Powering New Possibilities for Research and Development

The methods used by scientists, researchers, and engineers to develop new and more advanced products are changing rapidly to adapt to an increasingly complex and competitive landscape. Organizations are combining the latest artificial intelligence and machine learning techniques with existing high-performance computing (HPC) and computer-aided engineering (CAE) to explore a broader set of design possibilities and accelerate the pace of innovation.

The Convergence of AI, HPC, and CAE — Made Possible with Automation

Rescale brings intelligent automation to applications, workflows, and infrastructures across hybrid cloud to deliver new levels of performance, control and R&D empowerment.



Performance & Efficiency

Optimize the full HPC stack with HW and SW-aware performance and cost intelligence.

Key Features

- » Full-stack economics management with continuous performance optimization
- » Software license queuing & software license management
- » Multiple price/performance service levels

Key Benefits

- » Run 20%+ more simulations on the same budget
- » Financial flexibility with lower maintenance and staffing burden
- » Faster time-to-answer



Control at Scale

Define enterprise-wide policies to scale and standardize operations and meet business needs.

Key Features

- » Full-stack security with policy-based security management
- » Comprehensive visibility with policy-based financial and architectural controls
- » Service continuity with capacity bursting & fanout across hybrid and cloud

Key Benefits

- » Reduced risk of service outage affecting critical R&D efforts
- » Ensure critical projects are allocated the appropriate resources
- » Reduced risk of data loss & theft



Empowered R&D

Enable collaboration and simplify infrastructure to commercialize new innovations faster.

Key Features

- » Computational workflow automation with simulation data sharing
- » User and application-centric experience with automated HW matching
- » Full-stack professional support with application expertise

Key Benefits

- » Faster time-to-market of new innovations
- » Higher quality & more competitive products
- » R&D resources focused on innovation and higher R&D talent retention

END-TO-END HPC CONTROL AND INTELLIGENCE

Fully control and optimize your scale-out applications on any infrastructure

-  Accelerate AI & ML Workloads
-  Turnkey AI & ML Tools Access
-  IT Management Workflows
-  Science & Engineering Workflows



Latest AI & ML Tools

Traditional CAE Tools

Rescale optimizes 800+ applications on the latest optimal hardware

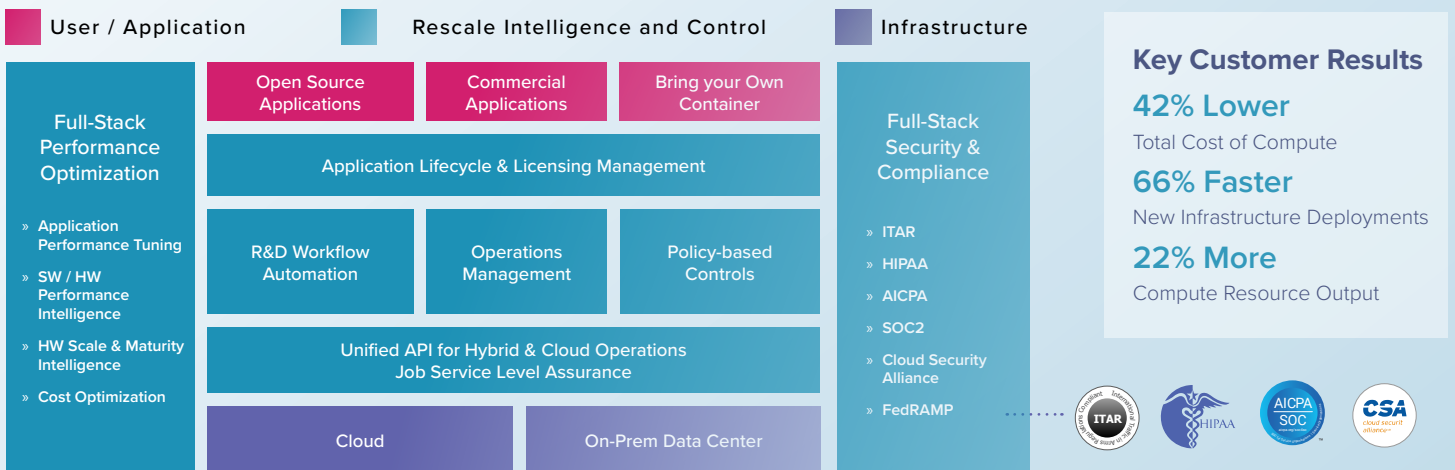
Largest Cloud Network

“By partnering with Rescale we are able to unlock new possibilities and unprecedented scale to solve cutting-edge engineering challenges across biomedical, consumer goods, automotive, and other industries. With Rescale, we have been able to enhance our solutions for CAE and AI/ML to deliver faster time-to-market, more efficient supply chains, and reduced overall R&D costs.”

— Jim Topich, SVP of Engineering, Kinetic Vision

kineticvision

Rescale Automates Applications and Hybrid Cloud Infrastructures to Deliver a Modern HPC Experience



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About Rescale

Rescale helps organizations accelerate science and engineering breakthroughs by eliminating complexity. From supersonic jets to personalized medicine, industry leaders accelerate new product innovations with unprecedented speed and efficiency with the Rescale Platform - a solution for intelligent full-stack automation for big compute and R&D collaboration on hybrid cloud. Rescale enables IT leaders to deliver high performance computing as a service, with software automation on a hybrid cloud control plane with security, architecture, and financial controls. Learn how you can modernize high performance computing at Rescale.com