rescale

Spotlight on Engineering Excellence

How top companies are modernizing R&D with Rescale's digital engineering platform

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Stories Of Engineers And Scientists Achieving R&D Breakthroughs

Addressing the Toughest Challenges in Innovation

Across industries—from aerospace and automotive to biotech, energy, and government—leading organizations are turning to Rescale's digital engineering platform to modernize, reduce costs, and accelerate development. This interactive eBook highlights how global enterprises and high-growth innovators are transforming simulation, harnessing AI, and optimizing HPC to drive better outcomes. Through case studies, expert panels, videos, and podcasts—each sharing measurable results—you'll gain practical, proven insights you can apply today.

Rescale: The Digital Engineering Platform for Compute, Data & AI

Rescale is the most trusted digital engineering platform for cloud HPC, data, and AI—built to accelerate innovation, reduce complexity, and improve IT efficiency. Designed for modern teams, Rescale delivers full-stack automation, broad support for simulation tools and infrastructure, and helps teams align workflows with business goals. Globally, Rescale helps engineers and scientists innovate, bring products to market faster, and reduce costs by optimizing the use of time and resources.

Rescale's Platform Advantages

- Complete Automation of Compute, Data, & Workflows
- Continuous Optimization Across Clouds, Regions, and Architectures
- Integration of Simulation Data and AI Models
- Industry Expertise and Full-stack Support
- End-to-end Security of Systems and Data for Sensitive Workloads

Anchored by the Benefits of SaaS Approach
Operational Monitoring | Seamless Collaboration | Optimized Configurations | Global, Flexible Load-Balancing

With End-to-End Security & Compliance
Encryption | Audits | Leading Compliance Certifications (SOC-2, ISO-27001 +) | Public Sector Authorizations (FedRAMP, ITAR +)

Business Impact

Accelerate Innovation

6X faster simulation results with elastic hardware capacity, automated workflows, and real-time collaboration.

Manage Costs & Complexity

20x improved resource output with full-stack resource optimization and streamlined administration.

Increase Productivity

30% engineering time saved by automating manual tasks in data management and configuration.

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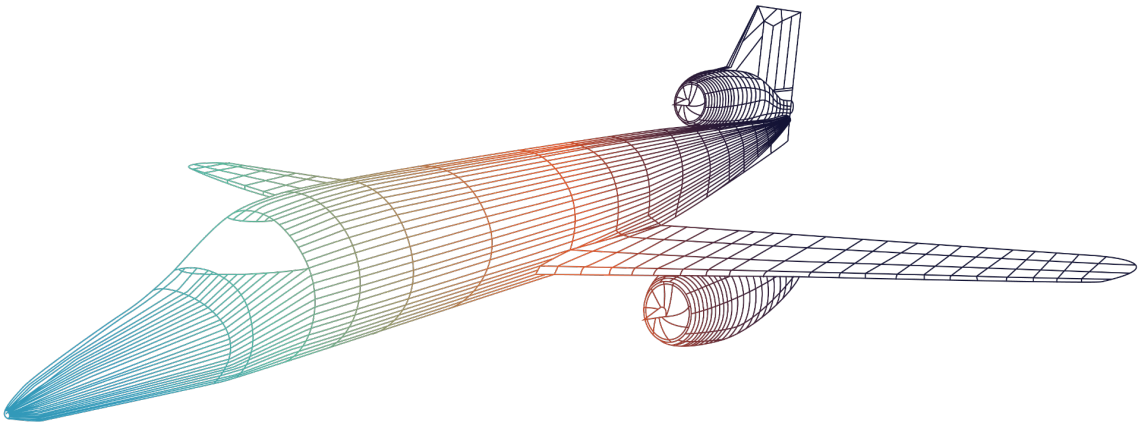

Aerospace

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BENCHMARK space systems

Company Benchmark Space Systems
Use Cases Computational Fluid Dynamics

"With the Rescale platform we have the flexibility to adapt our computational usage to a problem, a wide range of software options, easy licensing and setup, in an easy to use platform."

– Christopher Carella
Executive VP of Business Development & Strategy

85% Reduction
In Simulation Time-to-Solution

Read the Case Study

BOOM

Company Boom Supersonic
Use Cases Computational Fluid Dynamics

"At Boom, our mission is to make the world dramatically more accessible by making supersonic travel mainstream. We are also accelerating aircraft development with digital engineering and AI. Studies that used to take months and cost millions can now be done in days, thanks to cutting-edge computing and AI technologies developed by Boom, Rescale, and NVIDIA."

– Blake Scholl
Founder and CEO

4x Increase
In Design Possibilities Explored

10x Faster
CFD Simulation Performance

30x Greater
Cost-Efficiency with GPUs and AI Surrogates

Read the Press Release

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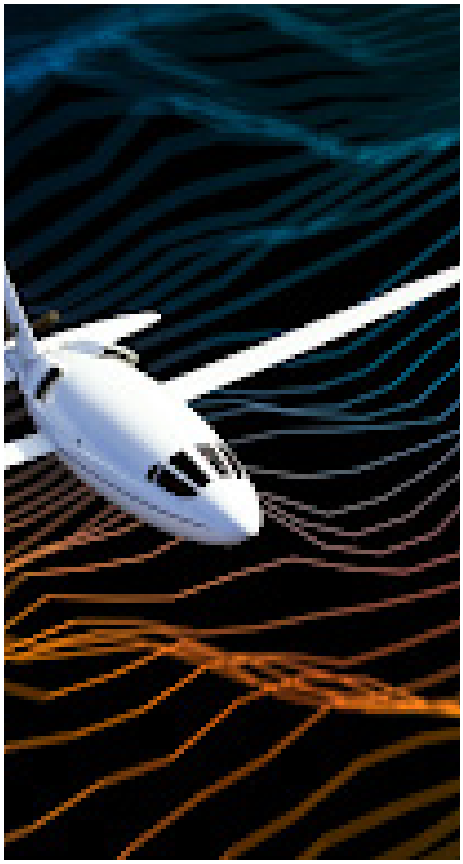

OTTO

Company Otto Aerospace
Use Cases Computational Fluid Dynamics, Decarbonization

"Otto Aviation is innovating to develop more efficient, environmentally friendly aircraft. Rescale's platform supports our efforts to optimize laminar flow design and composite materials, resulting in a 50-60% reduction in carbon emissions and 30-40% reduction in operating costs."

– Kyle Heironimus
VP of Engineering

30-40%
Reduction in Operating Costs

Learn More

sensatek

Company Sensatek Propulsion Technology
Use Cases Computational Fluid Dynamics, Electromagnetics

"Utilizing Rescale's compute expertise gives us an advantage of tools that would normally be available to larger companies. Our strategic investments in technology like Rescale are important for our ability to solidify our competitive advantage in the market, especially for our speed to market and enabling our team to focus on what we do best."

– Reamonn Soto
CEO

78%
Reduction in time to R&D Discovery

Read the Case Study

Watch the Video

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VERTICAL

Company Vertical Aerospace
Use Cases Aerodynamics, Acoustics, Finite Element Analysis

"Our Investments in digital R&D partners like Rescale ultimately helped us produce an aircraft that is 100x safer, 100x quieter, and at a fifth of the cost from what was previously possible."

– Madhu Bhabuta
CIO

3.3x Faster
Rotor Dynamics Simulations

75%
Reduced Cost per Job

Read the Case Study

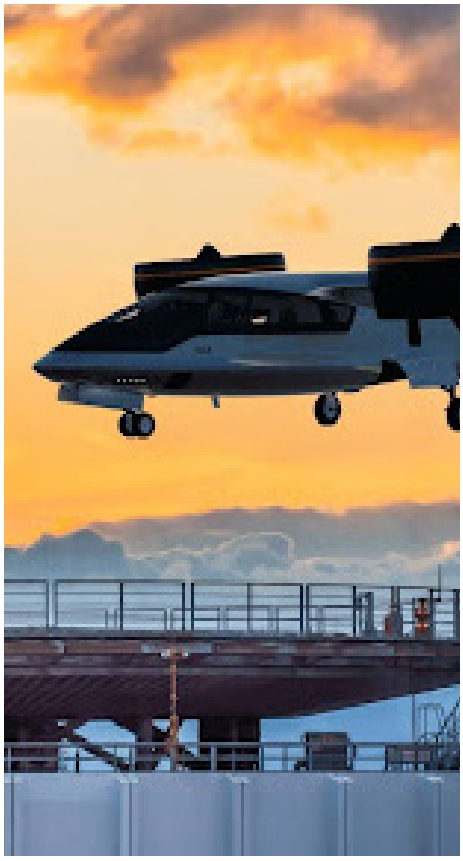
XTI AIRCRAFT

Company XTI Aircraft
Use Cases GPU Acceleration, Computational Fluid Dynamics

"We're delighted to see Rescale validate the performance potential of FUN3D on cloud-based, NVIDIA GPU infrastructure. With increased authorized user access to NASA applications like FUN3D and specialized computing hardware in the cloud, we hope to see faster U.S. aerospace innovation potential for a large variety of applications."

– Eric Nielsen
Senior Research Scientist
NASA Langley Research Center

Read the Article



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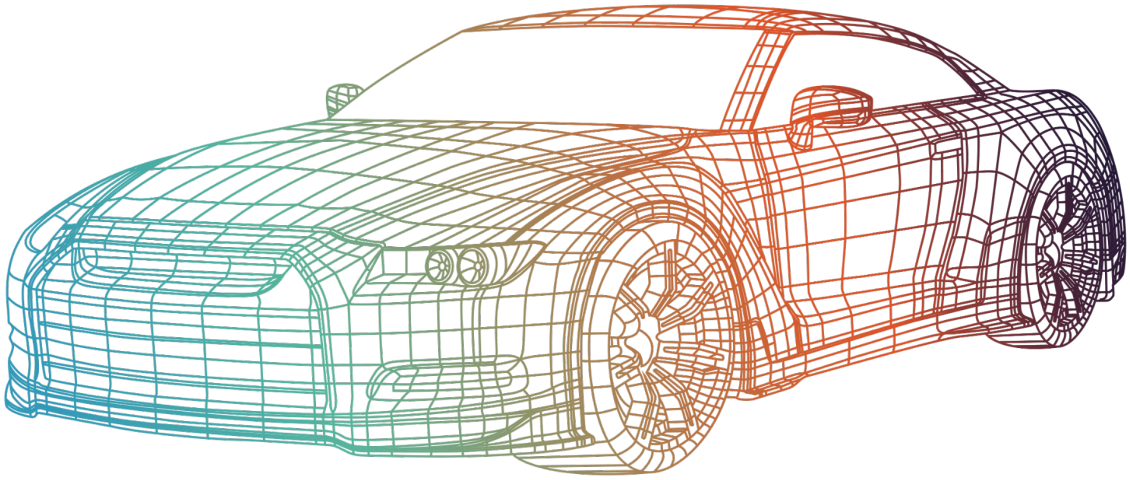

Automotive

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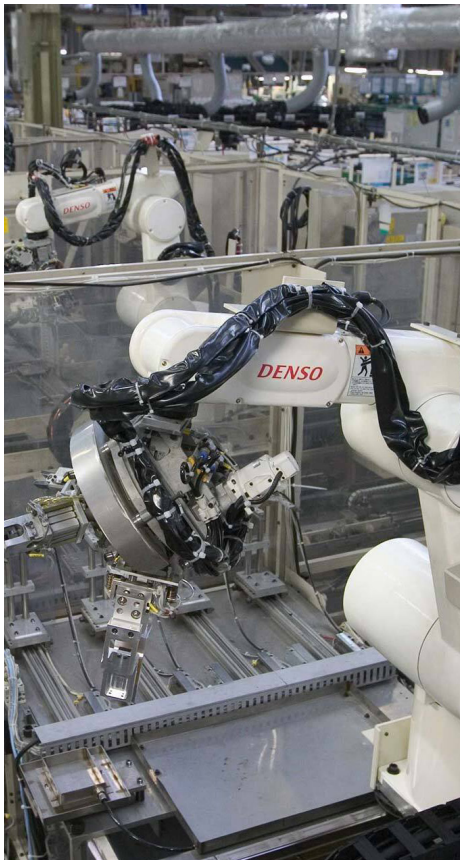

DENSO

Company Denso Global
Use Cases Computational Fluid Dynamics, Finite Element Analysis

"We were immediately surprised at the ease of use of Rescale for COMSOL multiphysics calculations, which can be run with just a few clicks. The amount and cost of computing resources can be controlled according to simulation usage. Rescale allows us to build our ideal simulation environment, which is ideal for our various needs,"

– Hiroshi Ogawa
Manager, Heat Exchanger R&D Division

75%
Reduced Simulation Time

50%
Reduced Product Development Time

Read the Case Study

general motors

Company General Motors Motorsports
Use Cases Aerodynamics, AI & Machine Learning, Data Management

GM Motorsports is pioneering new AI-accelerated aerodynamics prediction to accelerate simulation results 10,000X with 99%+ accuracy. In new vehicle platform development GM Motorsports engineers leverage AI Physics on Rescale powered by NVIDIA to optimize every aspect of chassis aerodynamics. By automating physics-based AI prediction on Rescale with the latest technologies from NVIDIA, Microsoft Azure, and NAVASTO, GM Motorsports accelerates R&D decision-making with greater computing performance and resource efficiency.

10,000x
Acceleration of CFD Evaluation

Watch the Video

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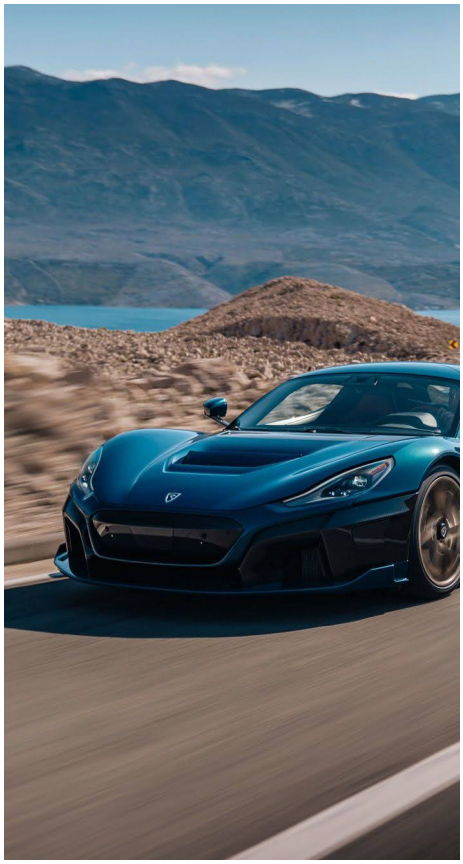


RIMAC TECHNOLOGY

Company Rimac Technology

Use Cases Data Management, AI & Machine Learning, Computational Fluid Dynamics, Cost-Performance Optimization

"We're focused on making sure that our data is labeled in a way that is AI-ready, meaning our simulation data is structured properly with as much metadata as possible so that it's not just a data vault where you need the engineer to sit with you and interpret what they did at each point in time. Rescale helps us to make sure that we have all the metadata sorted for when we're ready to deploy AI."

"We are constantly challenged to simulate increasingly complex scenarios. Given the cyclical nature of our R&D – intense computing for six months, followed by lower demand – Rescale provides the flexibility and agility to manage these fluctuating needs across multiple projects. This, combined with the rapid advancements in hardware, reinforces our decision to operate in the cloud rather than continuously purchasing hardware."

– George Oates, Thermal Lead Engineer

90% Post-Processing Workflows Automated

Watch the Panel

HANKOOK

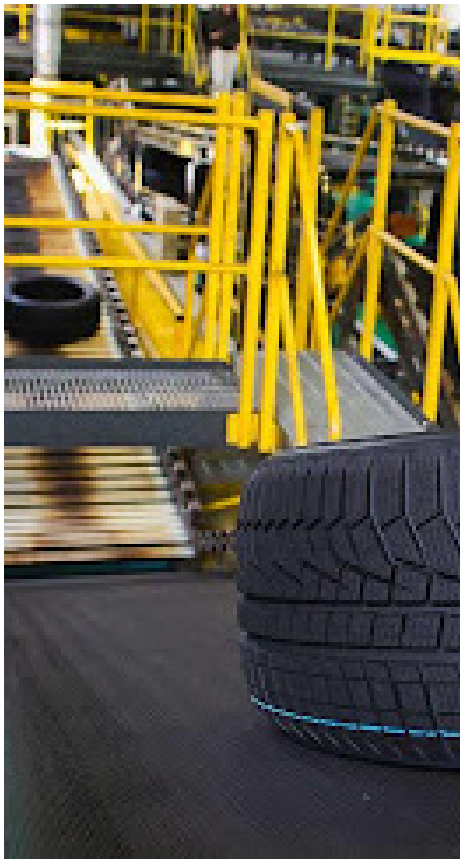
Company Hankook Tire

Use Cases Digital Transformation, Digital Twin, Custom Simulation

"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

Read the Press Release



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Röchling

Company Röchling Automotive
Use Cases Material Development, Finite Element Analysis

"Less than 2 hours turnaround time to deploy ad-hoc computational resources for demanding international Tier 1 automotive OEMs - the only viable solution in our competitive world!"

– Thomas Tsigkopoulos
Manager CAE Engineering & Global Functions CAE

Read the Article

Sumitomo

Company Sumitomo Electric
Use Cases Material Development, Cost-Performance Optimization, AI & Machine Learning

"The simulations that used to take a week on our own servers can now be completed in about half a day on Rescale's high-memory, state-of-the-art GPU environment, making them more than 10 times more efficient."

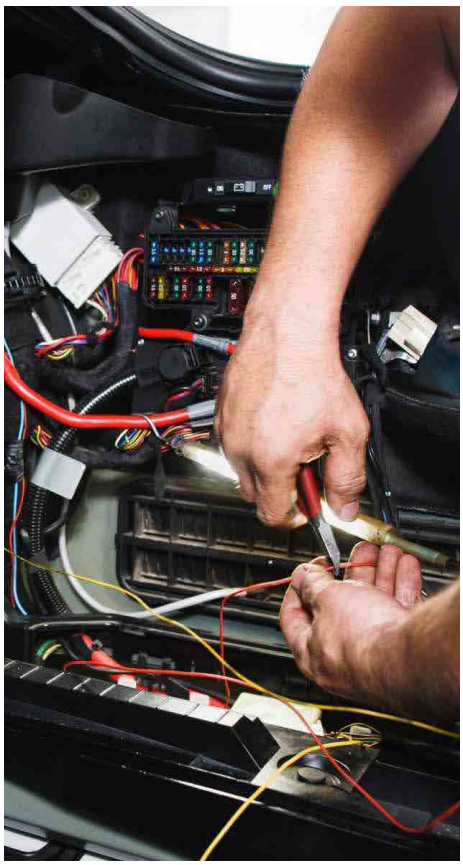
– Tatsuya Takakuwa,
Group Manager, MI/PI, AI , & IoT R&D Departments

10x
Accelerated AI Performance

90%
Reduced Simulation Time

5x
Increase in New Patents

Read the Case Study



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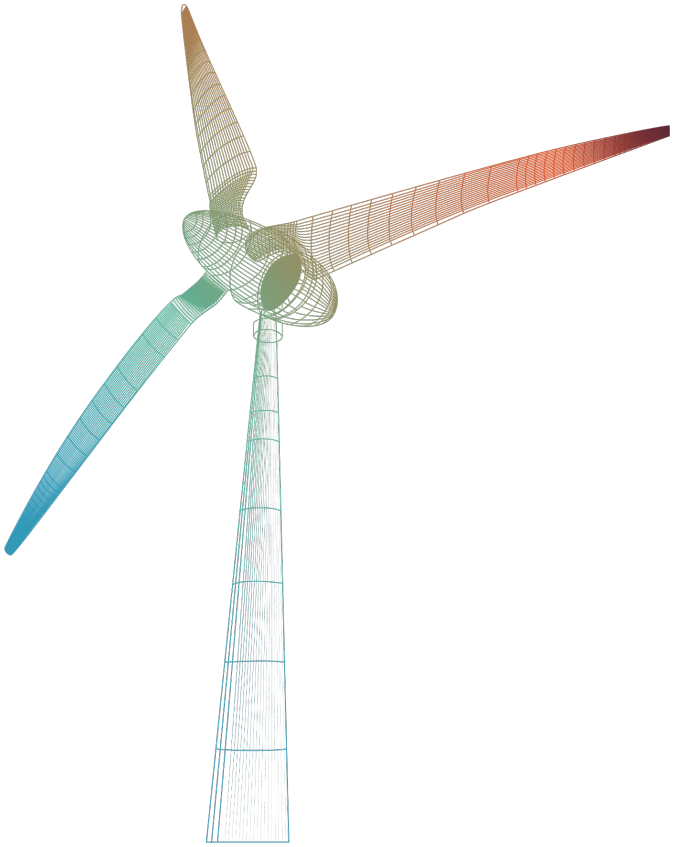

Energy

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AMOGY

Company Amogy

Use Cases Design Exploration, Computational Fluid Dynamics, Decarbonization

"Rescale simplifies high performance computing, which helps us improve our models and make new discoveries faster. Ultimately it's about commercializing our technology faster so we can accelerate global decarbonization. Simulation and modeling are critical to transforming heavy duty transportation - it's essential for large scale projects. Proving out product designs and testing small changes upfront is important because hardware scaling is costly and takes a long time."

– Seonghoon Woo, Co-Founder & CEO

"Rescale's intuitive interface, end-to-end job monitoring, and easy-to-use templates help to streamline my day-to-day work. We needed a solution with the best of speed, cost, reliability, and simplicity - that's what led us to choose Rescale."

– Chris Stanczak, Lead Simulation Engineer

Read the Case Study

EATON
Powering Business Worldwide

Company Eaton Electrical and Industrial

Use Cases Digital Transformation, Computational Fluid Dynamics, Finite Element Analysis

"Eaton is focused on optimizing digital solution development and delivery for our customers, and we invest in Rescale to accelerate these capabilities and accelerate the R&D of new industry 4.0 technologies. Rescale enables our cloud-first strategy to flexibly equip our engineering teams with intelligent computing solutions they need while IT can easily govern a secure, compliant, and policy-driven environment across all of our regions and divisions.

– Katrina R. Redmond
Senior Vice President & CIO

30-60%
Increasing Speed of Engineering Simulation

90%
Cost Reduction of Full-Stack Simulation

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Intelligent Energy

Company Intelligent Energy

Use Cases Computer Aided Engineering, AI & Machine Learning

"By reducing complex simulation times from 24 hours to mere milliseconds and preprocessing times from 8 hours down to milliseconds, Rescale's platform transforms our design process, enabling engineers to receive real-time feedback and significantly accelerating the delivery of next-generation solutions. We see this AI-based CAE approach as a game-changer for optimizing our modeling and simulation workflows and a key enabler for improving the efficiency of our R&D efforts."

– Novid Beheshti
Engineering Specialist CAE

24 Hours to Milliseconds

Reduction in Simulation Time

Watch the Webinar

Kairos Power

Company Kairos Power

Use Cases Data Management, Computational Fluid Dynamics, Finite Element Analysis

"Simulation collaboration across our engineering disciplines is essential in making fast and accurate product decisions. Rescale Data allows engineers to capture context on components, parameters, and performance outcomes, accelerating engineering decisions and cutting product delivery time. Rescale provides a source of truth for our engineering data to capture the intent and outcome of every simulation, making insights easily accessible and decisions are traceable for all teams involved. This helps us meet tight R&D timelines, while reducing time spent managing data and preventing duplicate work."

– Brandon Haugh
Director, Modeling and Simulation

Read the Press Release

Watch the Panel

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Company Kent Plc
Use Cases Computational Fluid Dynamics

"Rescale brings more high performance computing power in the cloud to crunch mathematical models, empower people to make decisions at the right time. Using Rescale, our engineers can now perform CFD models 15x faster than previously possible on-premises."

– Damian O'Gara
Chief Digital and Information Officer

Watch the Video

Company NOV / National Oilwell Varco
Use Cases Computational Fluid Dynamics, Finite Element Analysis

"Being cloud-native gives NOV the advantage of improved agility and efficiency across our many areas of R&D from offshore to renewables. Rescale streamlined our cloud transformation and continues to help us find new ways to improve our engineers' productivity and develop new products faster. Deploying cloud HPC across multiple software and cloud providers would have taken us 9 months, but with Rescale we were up and running in a matter of days."

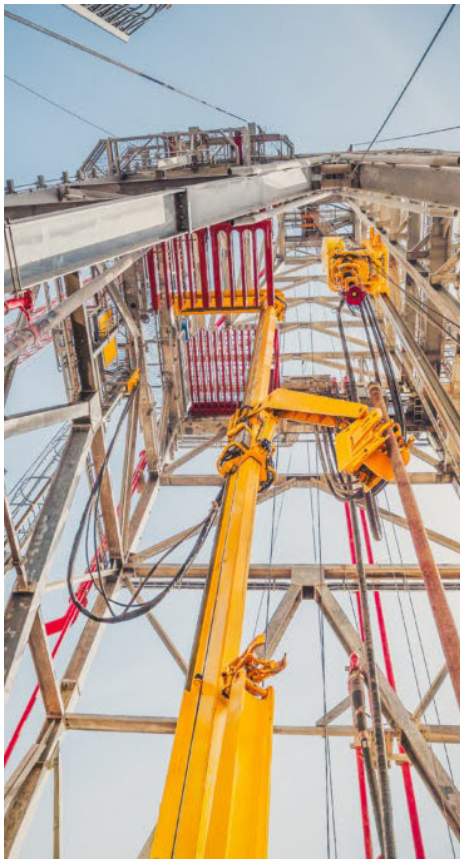
– Matthew Robinson, Engineering Systems Administrator

100%
Software License Utilization

95%
Reduction in Cloud HPC Deployment Time

80%
Decrease in Overall Operational Costs

Read the Case Study



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ORPC

Company Ocean Renewable Power Company

Use Cases Computational Fluid Dynamics, Finite Element Analysis

"We needed a scalable and cost-effective solution that didn't require extensive setup on our end. Rescale offered an accessible interface that didn't need specialized IT support, which was crucial for us as a small team. Previously, we relied on local hardware that limited us to smaller models, making it difficult to run concurrent simulations. Rescale not only provides the scale but also simplifies job submission, allowing our engineers to focus more on analysis than on managing computing resources."

– Jarlath McEntee
Senior Vice President & Chief Technology Officer

Read the Article

slb

Company SLB (FKA Schlumberger)

Use Cases Computational Fluid Dynamics, Discrete Element Method, AI & Machine Learning, Reduced Order Modeling

"Our partnership with Rescale began just last year. Their platform is software-agnostic—not tied to any specific code or vendor—which makes collaboration much easier. Since then, we've effectively eliminated hardware limitations. Before, we were always asking whether we had enough computing power for a simulation. Now, it feels like we have unlimited access to the resources we need."

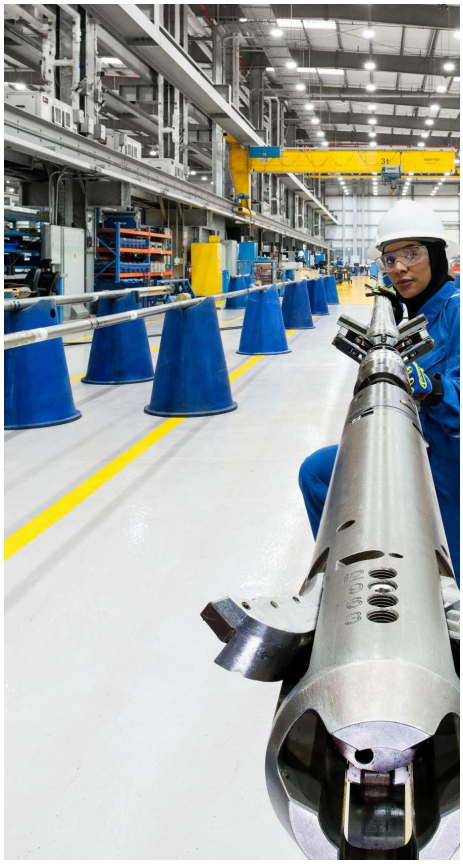
– Gocha Chochua
Technical Advisor, Modeling and Simulation

Hundreds of millions
in new contracts won

10x+
reduction in wait time and costs

Millions
of tons of GHG reduced annually

Read the Article



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Company Scottish and Southern Energy
Use Cases Computational Fluid Dynamics, Renewable Energy

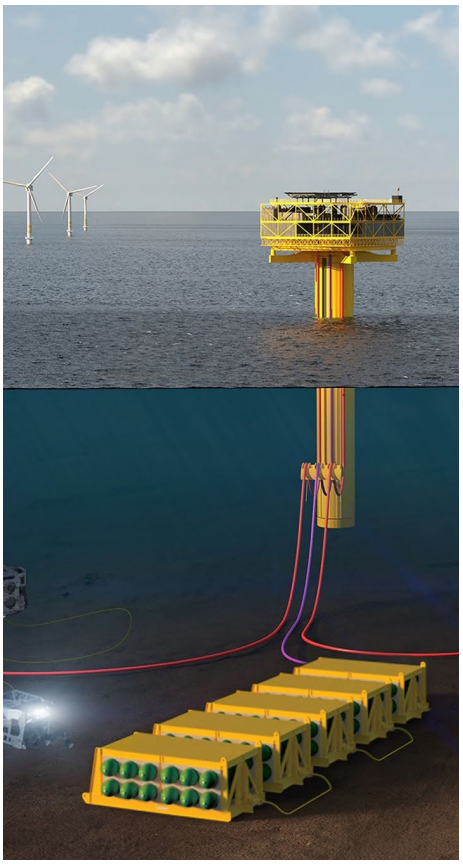
"Rescale was able to optimize our bespoke application and give us access to flexible cloud resources to rapidly run large simulations, enabling us to maximize our compute investments for wind farm analyses."

– Paul Housley
Technical Analysis Team Manager

Company TechnipFMC
Use Cases Computational Fluid Dynamics, Finite Element Analysis

"We now have the ability to run a variety of pre-processing, solving, and post-processing routines interactively in a user-friendly, integrated, and cloud-based experience on Rescale. With cloud HPC in our engineering toolbox, when COVID-19 struck we were able to maintain business continuity and project performance as normal, ensuring the success of our global operations from R&D to engineering and installation."

– Olivier Mustiere
Group VP of Engineering



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Svante

Company Svante
Use Cases Material Development, Computational Fluid Dynamics

"At Svante, we believe that technology has the power to solve some of humanity's most pressing challenges. Working with Rescale has assisted in accelerating our innovation and bringing our vision for a sustainable future closer to reality."

– Claude Letourneau
President and CEO

Read the Press Release

subsea 7

Company Subsea7
Use Cases Weather Prediction, Data Analytics

"Leveraging our internally developed tool in conjunction with Rescale's cloud computing capabilities for enhanced offshore weather assessment has led to a reduction in weather-related downtime, demonstrating clear operational improvements. Given the time-sensitive nature of these operations, Rescale's reliability prevents costly downtime, while its scalability ensures our simulation analyses and operations across all vessels are efficient."

"With Rescale we have a robust data archiving system, allowing us to enforce the deletion of data after specific periods, save what's useful, and easily reproduce it as-needed, which we can implement across all workspaces as a cost-savings approach."

"By integrating Rescale into our workflow, we reduced the simulation time for over 1000 fatigue load cases from over 20 hours to just 5."

– Matthew Chung
Principal Engineer - CAE

Watch the Video

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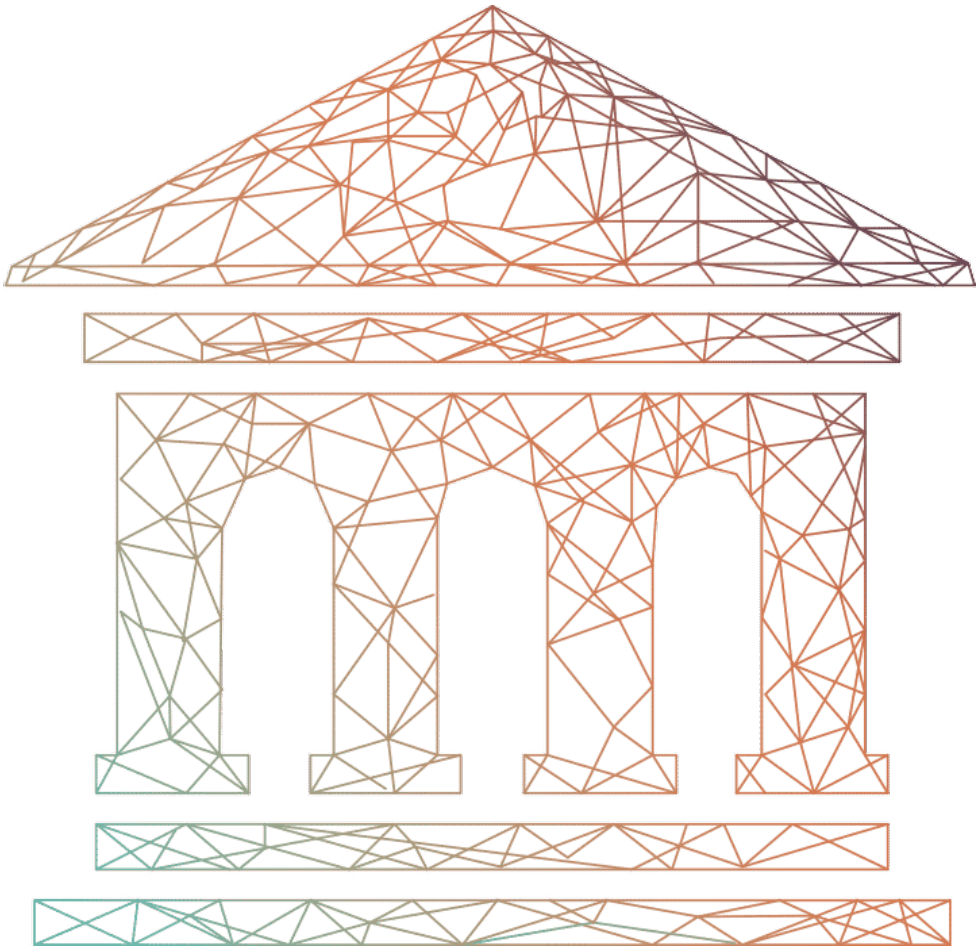

Government

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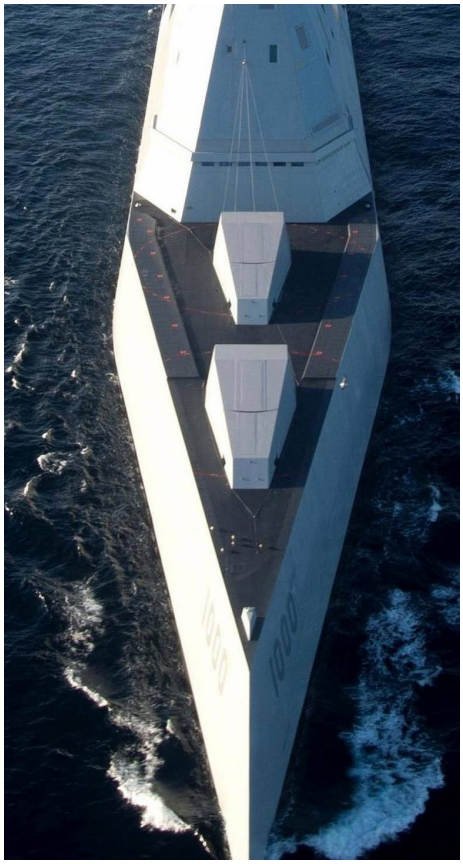

Company US Department of Defense (DoD)
Use Cases Digital Transformation

"If a company says 'We use Rescale, and based on running 100,000 reps that would have [previously] taken 10 years, using high-level compute in the cloud, we can fast forward this.' That is proven and that's an easier decision because they've translated it into our language which is outcomes."

– Justin Fanelli, Chief Technology Officer
US Department of the Navy

Watch the Podcast

Company HPC Modernization Program / Defense Innovation Unit
Use Cases Hybrid-Cloud Management

"This capability allows the HPCMP to securely combine the capacity and capability of DoD HPCMP Defense Supercomputing Resource Centers (DSRCs), with the flexibility and diverse hardware associated with commercial cloud providers in order to create a seamless ecosystem for DoD researchers. Researchers are [now] able to access cloud resources when appropriate to augment their work at on-premises centers. This has given them access to a wider variety of hardware, and the ability to scale resources beyond what is currently possible, all within one secure, easy to use, environment."

"The HPCMP is looking forward to providing this capability to our DoD partners to further enhance our HPC compute and data analytics capabilities. These capabilities are essential to meeting the needs of the DoD scientific and technology, test and evaluation, and acquisition communities who are key to supporting the warfighters across the globe."

– Dr. Benjamin Parsons
Chief Technology Officer

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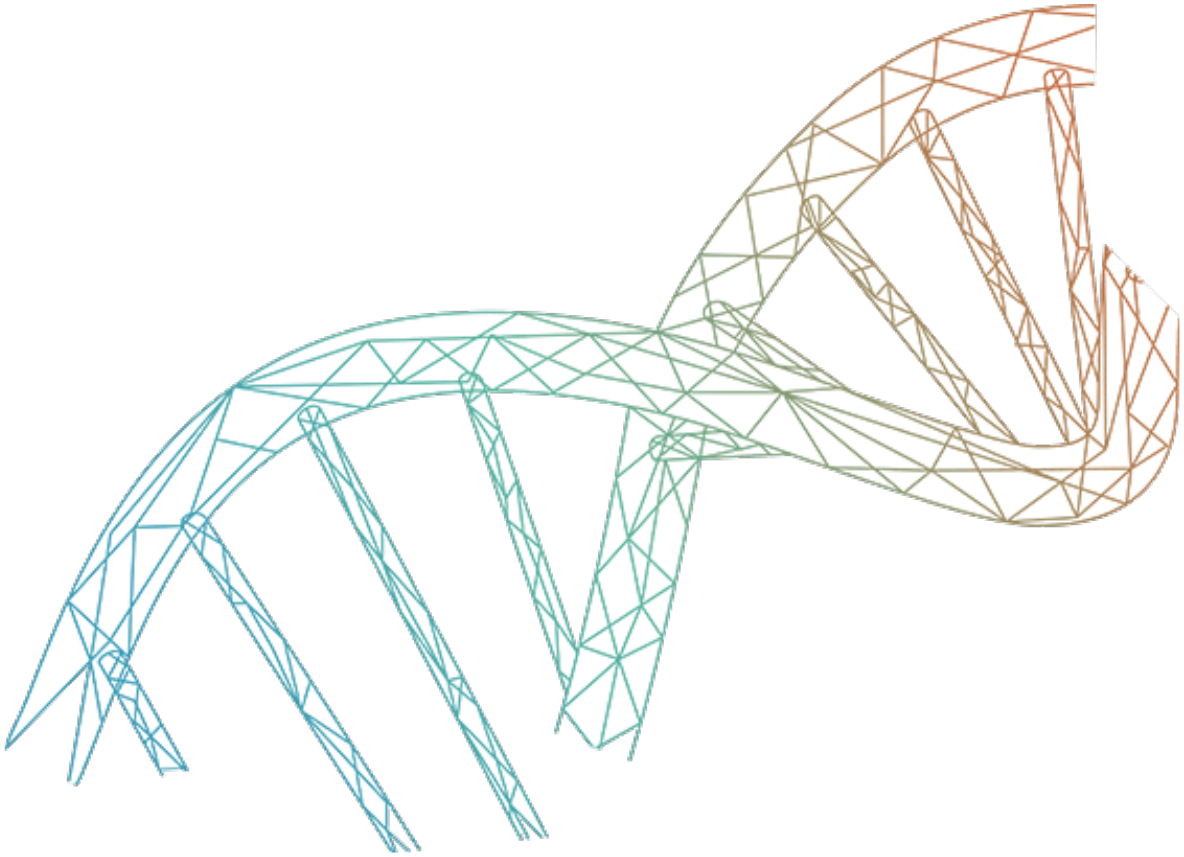

Life Sciences

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Company AzothBio

Use Cases Molecular Dynamics, Drug Discovery, AI & Machine Learning

"As a researcher, I don't have much experience in IT, so I was nervous migrating our HPC to the cloud. But Rescale's user-friendly platform did not require expertise in IT or HPC. Rescale understands both HPC and R&D fields, which provides us crucial support and lets us focus solely on R&D."

– Dr. Hyejin Park
Director AI Research Institute

Read the Case Study

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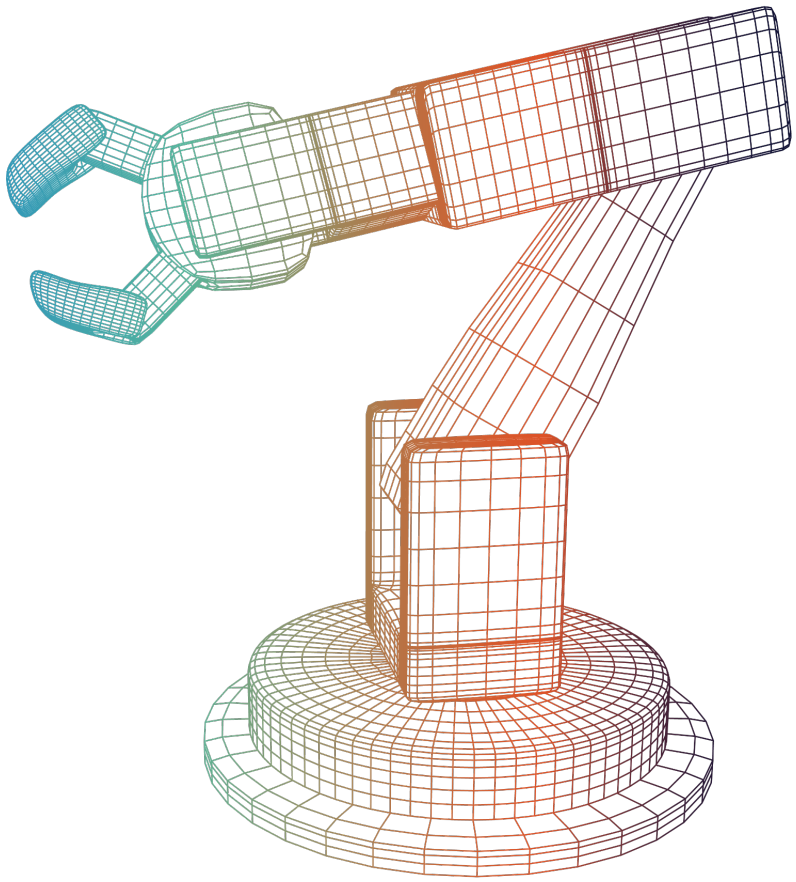

Manufacturing

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brother

Company Brother Industries

Use Cases Digital Transformation, Workflow Automation, Cost-Performance Optimization

"In printer development, there are parts with complicated structures such as combinations of resin and metal, and it takes time to analyze the strength of such parts. However, with Rescale, the analysis results can be obtained in a timely manner, which naturally speeds up the design."

"Engineers have a lot of incidental work other than design. Moreover, the development period is getting shorter year by year. The purpose of introducing Rescale was to reduce the waiting time for calculation and create an environment where they can concentrate on their original work."

– Masahito Nakagiri
Manager IT Business Promotion Group

Read the Case Study

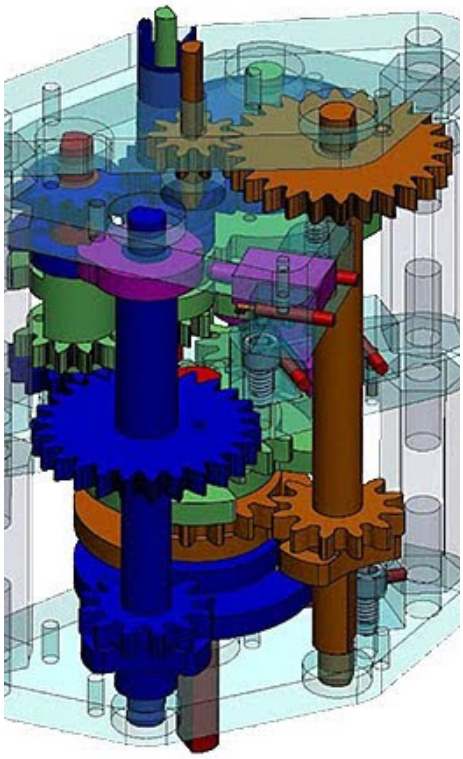
kinetic vision

Company Kinetic Vision

Use Cases AI & Machine Learning, Digital Twin

"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



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Company Daikin Applied

Use Cases Computational Fluid Dynamics, Finite Element Analysis, Acoustics, Digital Thread

"Rescale has been a game-changer in automating our data management processes, reducing time and effort from manual tasks by 50%, which has accelerated our engineering decisions and streamlined our R&D cycle. At Daikin Applied, we rely on Rescale's cloud-based simulations to optimize HVAC systems for peak performance in air quality and sustainability. Rescale Data allows us to capture, contextualize, and access vast amounts of data across various components and scenarios, driving innovation, enhancing manufacturing efficiency, and bringing products to market faster while meeting the highest energy efficiency standards."

– Alex Kachkovsky, Virtual Engineering Manager

"With Rescale we are able to explore the entire design space. We have engineering problems that benefit from specific classes of hardware, so it's a big help that Rescale allows you to set up architectures on the fly at the time of compute. Previously we were using an in-house cluster that was not reliable. We had to restrict our compute resources and were running software that was 2–3 versions old to prevent our jobs from failing. Now Rescale allows engineers to be more efficient and run the latest and greatest software and hardware."

– Sudip Mukerji, Principal Engineer

50%

Reduction in Time Spent on Manual Tasks

Watch the Webinar

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DOOSAN

Company Doosan Enerbility

Use Cases AI & Machine Learning, Computational Fluid Dynamics, Digital Twin

"Our strategy was to go with Rescale, and use the Cloud HPC running on the latest NVIDIA GPU. As a result, it only took one-third of the time it used to take with our previous computing resources."

"As the data keeps accumulating, AI is finally escaping the realm of possibilities into real-world applications. And Doosan Enerbility wants to be at its forefront."

"We are seeing great progress with new features and functionality for AI-based simulations, and Doosan Enerbility will be able to double down its effort toward accelerating digital twin and digital transformation initiatives."

Watch the Video

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SCHAEFFLER

Company Schaeffler

Use Cases Computer Aided Engineering, IT Management

"It takes just a few clicks to configure the system for a given simulation. This is hugely advantageous in terms of administration, user-friendliness, and operability—something our colleagues really appreciate. Through this project, we've gained a better understanding of their needs and can now work with them to develop more custom solutions."

– Tobias Frömel, Product Owner
Hybrid Cloud Platforms

"Thanks to our new HPC solution based on Azure and the SaaS solution from our partner Rescale, we can complete our simulations a good deal faster. This means we can begin the next round of calculations sooner, detect errors earlier, and develop products far more quickly. That's a massive boost to our competitiveness and innovative strength."

– Markus Kießling
Product Owner, Systems Engineering Solutions

12,000

Simulations for a large-scale project in a matter of days

Read the Case Study

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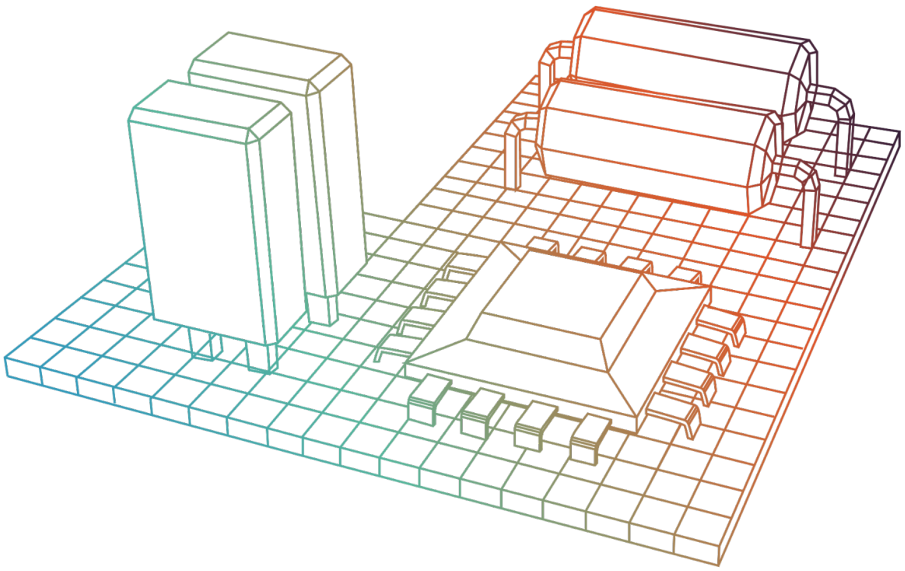

Semiconductor

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Company Applied Materials

Use Cases Patterning and Imaging, Materials Engineering, Packaging and Integration

"Rescale's high-performance compute software platform is helping industry-leading companies, including Applied Materials, accelerate innovation through the power of advanced computing and intelligent data. We've experienced firsthand how Rescale's software product suite can speed our AI physics simulation capabilities and catalyze adoption of our digital twin initiatives. We look forward to building on our successful collaboration with Rescale to empower our engineers and scientists."

– Dr. Om Nalamasu
Chief Technology Officer

Read the Press Release

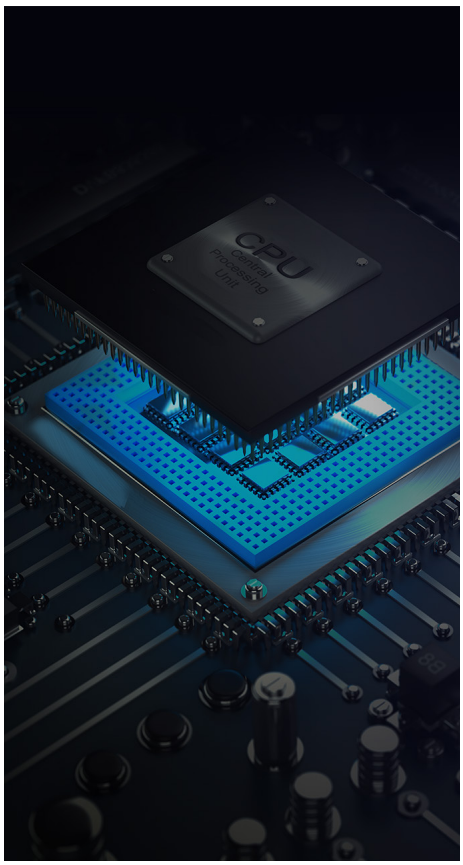
Company Samsung

Use Cases Chip Design

"Our innovative design platform co-developed in partnership with Rescale will play a crucial role for the fabless industry as it evolves into efficient cloud-based design environment. We remain committed to our efforts to bolster the SAFE™ ecosystem and will continue to collaborate with our SAFE™ partners on developing innovative programs that will help deliver ease of use and greater design efficiency for customers."

– Jae-hong Park
Executive Vice President of Foundry Design Platform Development

Watch the Video



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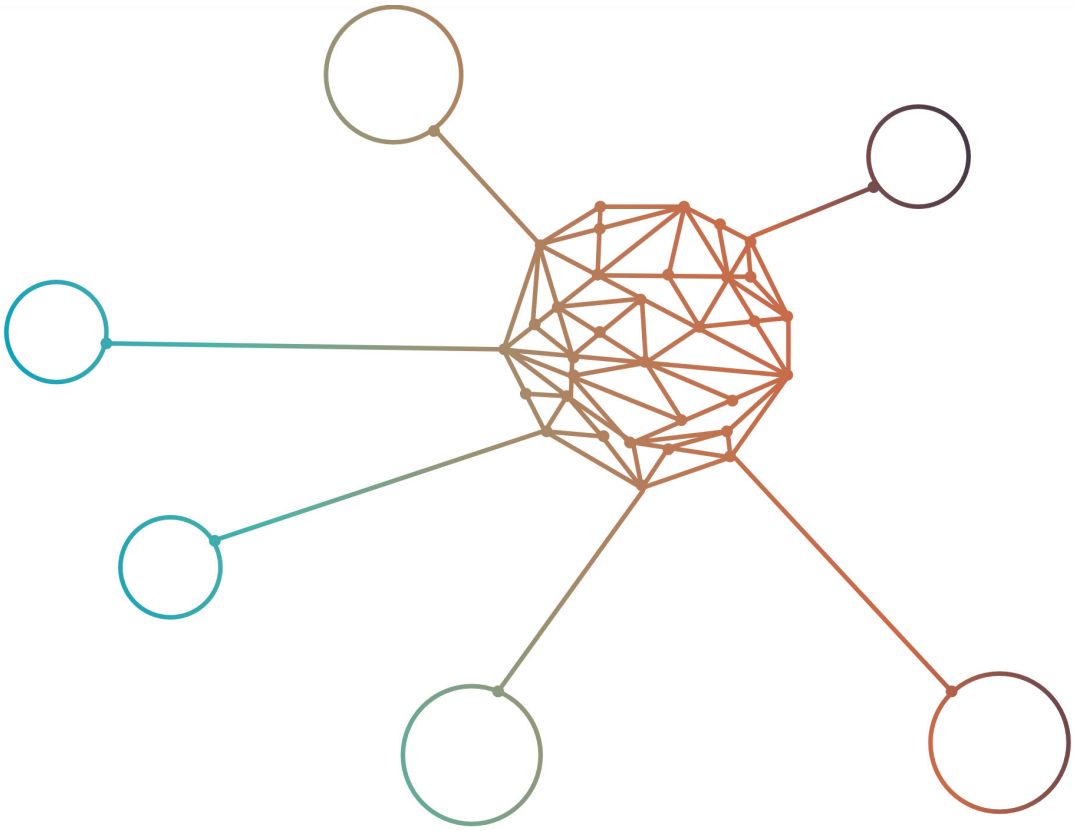

Other

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Exponent®

Company Exponent
Use Cases Computational Fluid Dynamics

"Technological complexity in our clients demands is growing so we need to have the computational capabilities to support them. Having access to HPC on-demand through Rescale was a game changer - on our largest jobs we see a 5-10x increase in speed of computing. Now we can take on more and larger client projects and don't have to make compromises to meet our clients' needs."

– Zach Owens
Sr. Managing Engineer

5-10x
Acceleration in Simulation Speed

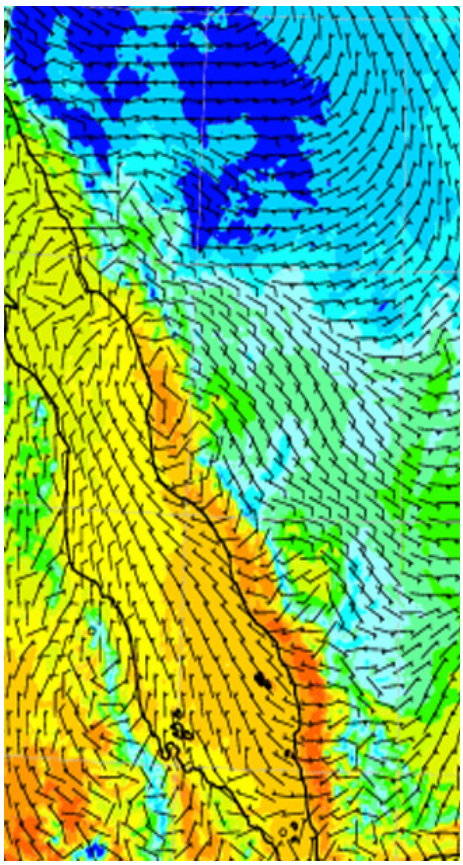
Read the Case Study

TempoQuest
WEATHER TRANSCENDED

Company TempoQuest
Use Cases Weather Forecasting and Modeling

"At TempoQuest we develop state-of-the-art technologies for weather and climate modeling. Delivering accurate and timely predictions requires extremely fast shared file system access across the large GPU clusters running our simulations. Effectively managing our massive storage challenges is critical for the success of our customers who rely on our predictions to make informed decisions regarding everything from launching rockets to emergency management in high-impact weather events."

– Samm Elliott
Director of Software Engineering and Customer Solutions



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A Proven Path to Digital Engineering Transformation

Start Your Expert-Guided Journey with Confidence

Rescale Meets You Where You Are—and Takes You Further

At Rescale, we partner with engineering and IT leaders to modernize their compute infrastructure and accelerate innovation. Whether you're new to cloud HPC or expanding existing initiatives, our proven and flexible approach meets you where you are—delivering measurable, lasting business impact.

Accelerate Engineering by Partnering with the Experts

How Organizations Use Rescale to Get More from Their Software, Hardware, and Engineering Teams

- HPC Cloud Bursting & Migration
- Modeling & Simulation Performance Optimization
- GPU Acceleration
- Financial Management & Cost Optimization
- Security & Compliance Management
- Application & License Management
- Cloud & Hardware Resource Orchestration
- Simulation Data & Workflow Management
- AI/ML for Engineering & Scientific R&D

Rescale makes these outcomes—and more—possible with a turnkey platform that seamlessly integrates, scales on demand, accelerates innovation, and is backed by expert support.

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Connect with Rescale Experts

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Innovation
Elevated

Accelerated Computing.
Driven by Data.
Powered by AI.
Secure & Compliant.

About Rescale

Rescale advances innovation and scientific discovery by providing a comprehensive digital engineering platform that integrates cloud high performance computing resources, intelligent data management tools, and applied AI to accelerate modeling and simulation. The Rescale platform delivers the world's largest network of engineering and R&D applications, automated workflows, and computing infrastructure to enterprises. The industries shaping the future are building on Rescale — including aerospace, automotive, energy, life sciences, semiconductor, manufacturing, and the public sector. Rescale is backed by leading investors such as NVIDIA, Sam Altman, Jeff Bezos, Paul Graham, Peter Thiel, Microsoft, Samsung, Hitachi, University of Michigan, and others, has a global customer base that includes Applied Materials, General Motors Motorsports, Samsung, SLB, and the U.S. Department of Defense.

Learn more at

rescale.com

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