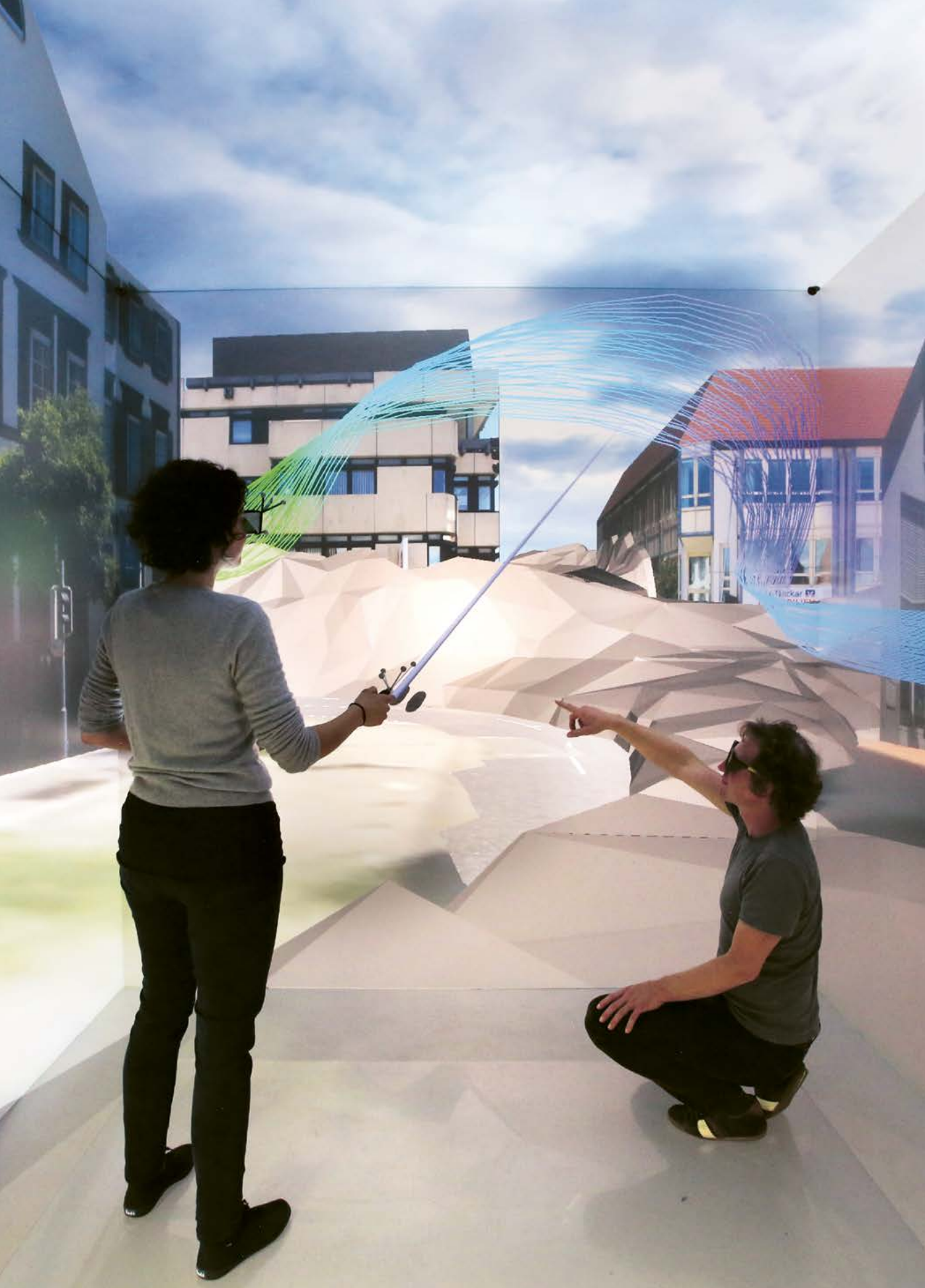
Supercomputing für Wissenschaft, Industrie und Gesellschaft

HLRS

High-Performance Computing Center Stuttgart



Supercomputing for Science, Industry and Society



Addressing Global Challenges in the Digital Age Globale Herausforderungen im digitalen Zeitalter

Simulation, artificial intelligence, visualization, and data analytics using high-performance computing (HPC) have become critical tools for addressing many of society's most complex challenges. At the High-Performance Computing Center Stuttgart (HLRS), seizing the opportunities that HPC offers for meeting such challenges is at the center of all that we do.

As a leading European high-performance computing center with a team of more than 100 HPC experts, HLRS provides essential infrastructure and solutions for science, industry, and the public sector. This includes an emphasis on supporting the applied sciences and computational engineering. At the same time, we work to solve key problems facing the field of high-performance computing, and help to identify and implement new applications of HPC in other areas where it can have an impact, such as public administration, sustainable city planning, and the arts.

Because even the largest supercomputer cannot solve problems alone, an important part of our mission is also to increase expertise in high-performance computing. Our extensive HPC training and user support programs give scientists, engineers, and others the specialized knowledge and skills they need to use supercomputers confidently and effectively. HLRS has also been a leader in supporting private industry, including small and medium-sized enterprises, in realizing the potential of high-performance computing and artificial intelligence for innovation and global competitiveness.

In the coming decades, meeting global challenges such as climate change, pandemics, natural disasters, and the need for more sustainable mobility, energy, and manufacturing concepts will require high-performance computing. HLRS is optimally positioned to support these important efforts.

Heutzutage sind Simulation, künstliche Intelligenz, Visualisierung und die Analyse gigantischer Datenmengen mit Höchstleistungsrechnen (High-Performance Computing, HPC) ein Muss, um viele der komplexen Herausforderungen der Gesellschaft anzugehen. Das Höchstleistungsrechenzentrum Stuttgart (HLRS) setzt alles daran, HPC zur Bewältigung dieser Herausforderungen zu nutzen.

Als eines der führenden europäischen Höchstleistungsrechenzentren mit einem Team von mehr als 100 HPC-Expert:innen stellt das HLRS Infrastruktur und Lösungen für die Wissenschaft, Industrie und für den öffentlichen Sektor bereit. Ein Fokus liegt auf angewandten Naturwissenschaften und computergestützten Ingenieurwissenschaften. Zudem lösen wir Fragestellungen im Bereich des Höchstleistungsrechnens und helfen bei der Ermittlung und Umsetzung neuer HPC-Anwendungen in anderen Bereichen, z.B. in Behörden, der nachhaltigen Stadtplanung und der Kunst.

Da auch der größte Supercomputer allein keine Herausforderungen lösen kann, besteht ein wichtiger Teil unserer Aufgabe unter anderem darin, das Fachwissen zum Höchstleistungsrechnen zu erweitern. In unseren HPC-Schulungs- und User-Support-Programmen können Forschende, Ingenieur:innen und andere lernen, wie sich Supercomputer effektiv nutzen lassen. Das HLRS ist auch führend bei der Unterstützung der Privatwirtschaft, einschließlich kleiner und mittelständischer Unternehmen, die mithilfe von HPC und KI wettbewerbs- und innovationsfähiger werden können.

In den kommenden Jahrzehnten wird die Bewältigung globaler Herausforderungen wie des Klimawandels, Pandemien, Naturkatastrophen und der Bedarf an nachhaltigeren Mobilitäts-, Energie- und Produktionskonzepten Höchstleistungsrechner erfordern. Das HLRS ist optimal für diese wichtigen Bemühungen aufgestellt.



Solutions for HPC and Artificial Intelligence Lösungen für HPC und künstliche Intelligenz

HLRS provides state-of-the-art supercomputing infrastructure, training, and user support for advanced applications of high-performance computing and artificial intelligence. For more than 30 years, scientists and engineers working at the frontiers of discovery and innovation have relied on these essential resources for computer simulation. As coordinator of the AI Factory HammerHAI, HLRS now also supports medium- to large-scale applications of artificial intelligence, machine learning, and large-scale data analysis, as well as new kinds of workflows that combine traditional simulation and data-driven methods.

Das HLRS bietet modernste Supercomputing-Infrastruktur, Schulungen und User Support für anspruchsvolle Anwendungen von Höchstleistungsrechnen und KI. Seit mehr als 30 Jahren sind unsere Rechnerressourcen unverzichtbare Werkzeuge für Wissenschaftler:innen und Ingenieur:innen geworden, die an den Grenzen von Forschung und Innovation arbeiten. Als Koordinator der AI Factory HammerHAI unterstützt das HLRS nun auch groß angelegte Anwendungen im Bereich der künstlichen Intelligenz, des maschinellen Lernens und der Datenanalyse sowie Workflows, bei denen traditionelle Simulationsverfahren mit datengetriebenen Methoden kombiniert werden.

HPC & Simulation
HLRS's supercomputer offers the performance necessary to realize large-scale, computationally demanding simulation projects.

Artificial Intelligence
We operate high-performance infrastructure and offer expertise for AI, machine learning, and data science applications, as well as hybrid approaches combining HPC, AI, and cloud.

Visualization
By connecting our HPC systems with virtual reality and augmented reality technologies, we make it easier to gain insights from large datasets.

Learn more: www.hlrs.de/solutions



State-of-the-Art Computing Infrastructure Modernste Rechnerinfrastruktur

HLRS's high-performance computing systems provide infrastructure necessary for today's most important HPC applications, including simulation, artificial intelligence, high-performance data analytics, and visualization. Together, these systems are designed to address the diverse needs of multiple user communities.

Die Rechensysteme des HLRS bieten eine leistungsfähige Infrastruktur für die wichtigsten HPC-Anwendungen, darunter Simulation, künstliche Intelligenz, Höchstleistungsdatenanalyse und Visualisierung. Unsere Systeme sind darauf ausgelegt, die vielfältigen Bedürfnisse diverser Nutzergemeinschaften zu erfüllen.

HPE Cray EX4000 (Hunter)
With an APU-accelerated architecture, Hunter provides large-scale computing power for simulation, data generation, data analytics, and artificial intelligence. This „stepping stone" system is enabling HLRS's users to prepare for Herder, a much larger system that will arrive in 2027.

NEC Cluster (Vulcan)
Vulcan is continually adapted with the most recent technology platforms to meet increasing user demands and provide requirement-optimized solutions. It contains CPU, GPU, and vector computing components.

NVIDIA GB200 NVL4 by HPE (HammerHAI)
Hosted at HLRS in conjunction with the AIFactory HammerHAI, this system offers a powerful platform for medium- to large-scale workloads involving artificial intelligence, machine learning, and data science methods. (HammerHAI is scheduled to go into service in early 2027.)

CAVE
This immersive 3D facility offers powerful tools for visualizing and interacting with large, complex data sets in virtual and augmented reality.

HPSS Data Management
Our high-performance storage system is designed to safely manage and archive petabytes of data saved on disks and in tape libraries.

Learn more: www.hlrs.de/systems



Powering Advanced Research in Science and Engineering Spitzenforschung in Wissenschaft und Technik

High-performance computing has become an essential tool for researchers working at the forefront of nearly all scientific and technical disciplines. HLRS's supercomputing resources enable researchers in the basic and applied sciences to study extremely complex problems that would be impossible to investigate in any other way. Some typical application areas in which our users are active include automotive and aerospace engineering, combustion, biomedical engineering, astrophysics, molecular dynamics, computational chemistry, materials science, particle physics, and bioinformatics.

Das Höchstleistungsrechnen ist zu einem unverzichtbaren Instrument für die Spitzenforschung in fast allen wissenschaftlichen und technischen Disziplinen geworden. Die Supercomputing-Ressourcen des HLRS ermöglichen die Untersuchung von komplexen Fragestellungen der Grundlagen- und angewandten Forschung, die auf andere Weise nicht zu erforschen wären. Zu den typischen Anwendungsbereichen, in denen unsere Nutzer:innen tätig sind, gehören Automobil-, Luft- und Raumfahrttechnik, Verbrennung, Biomedizintechnik, Astrophysik, Molekulardynamik, computergestützte Chemie, Materialwissenschaft, Teilchenphysik und Bioinformatik.

Computational Fluid Dynamics
Simulation of turbulent flows is important across numerous domains, including aerodynamics, combustion, atmospheric science, and water quality management.

Molecular Dynamics
Simulation of matter at the atomic level helps in the development of advanced materials and in identifying new strategies for treating disease.

Scientific Applications of AI
Traditional HPC remains essential for generating AI training data and validating AI-generated models. Scientists are also investigating how AI could make traditional simulation faster and more efficient.

Learn more: www.hlrs.de/research



Guiding the Future of Supercomputing Supercomputing für morgen

HLRS scientists and other staff lead and contribute to numerous collaborative research projects, working closely with academic and industrial partners to address key problems facing the future of high-performance computing, artificial intelligence, and their uptake in science and industry. In many projects, solving such technical problems also supports the implementation of practical solutions for urgent local, national, and international challenges. In addition, HLRS is the coordinating center for EU-funded projects focused on increasing HPC expertise across Europe.

Wissenschaftler:innen und andere Mitarbeitende des HLRS beteiligen sich an zahlreichen Kooperationsprojekten, in denen sie eng mit Partnern aus Forschung und Wirtschaft an Lösungen für wichtige Fragestellungen zur Zukunft des Höchstleistungsrechnens und der künstlichen Intelligenz sowie deren Anwendung in Wissenschaft und Industrie arbeiten. In vielen Projekten unterstützt technische Forschung auch die Umsetzung praktischer Lösungen für dringende lokale, nationale und internationale Herausforderungen. Darüber hinaus koordiniert das HLRS einige EU-geförderte Projekte, die das Wissen und die Fähigkeiten rund um HPC in Europa fördern und erweitern.

EuroCC 3 and CASTIEL3
HLRS has led collaborative projects that have increased and coordinated HPC competencies across Europe. One outcome is the HPC in Europe Portal, a comprehensive online platform for finding computing resources, technical expertise, or training opportunities.

HammerHAI
HLRS coordinates this EuroHPC Joint Undertaking AI Factory, which provides AI-optimized supercomputing capabilities, personalized services, and training opportunities for industry and science, particularly in the manufacturing, engineering, and research sectors.

Future Computing Group
This initiative tests and evaluates emerging HPC technologies to assess their relevance for HLRS's user communities and to support industrial research on next-generation hardware.

Learn more: www.hlrs.de/projects



Expert Training in HPC and AI
Aus- und Weiterbildung zu HPC und KI

HLRS's HPC training program is among the most extensive and experienced in Europe, with more than 40 continuing professional education courses that reach more than 1,600 trainees each year. Our training program continually evolves to address new topics in a rapidly changing technology landscape, addressing topics in parallel programming, computational fluid dynamics, visualization, cluster usage and administration, performance optimization and debugging, artificial intelligence, accelerators, and programming languages for scientific computing. Additionally, HLRS conducts "train the trainer" programs to spread its HPC know-how across Europe, and helped launch the Supercomputing-Akademie to address HPC needs in industry.

Das HPC-Schulungsprogramm des HLRS gehört mit mehr als 40 fortlaufenden Kursen zu den umfangreichsten und am längsten bestehenden in Europa. Es bietet jedes Jahr professionelle Aus- und Weiterbildung für mehr als 1.600 Kursteilnehmer:innen. Unser Schulungsprogramm wird kontinuierlich weiterentwickelt, um neuen Themen in einer sich rasch wandelnden Technologielandschaft Rechnung zu tragen, darunter Themen wie parallele Programmierung, numerische Strömungsmechanik, Visualisierung, Clusternutzung und -verwaltung, Leistungsoptimierung und Debugging, künstliche Intelligenz, Beschleuniger sowie Programmiersprachen für wissenschaftliches Rechnen. Darüber hinaus leitet das HLRS die Supercomputing-Akademie, um den Bedarf an HPC-Expertise in der Industrie zu decken.

Supercomputing-Akademie
The Supercomputing-Akademie enhances HLRS's core training program by offering a selection of courses in a flexible online learning format, enabling trainees to develop HPC and AI skills alongside other responsibilities.

Professional Certification in HPC
With professional certification tracks in simulation, machine learning and artificial intelligence, and parallel programming, HLRS helps HPC users build expertise that helps them to stand out in today's rapidly evolving tech landscape.

HPC Training across Europe
In projects such as EVITA, HLRS has collaborated with other European HPC centers to standardize and integrate training opportunities, giving trainees more options for finding courses that fit their interests and needs.

Learn more: www.hlrs.de/training



Comprehensive User Support
Umfangreiche Anwenderunterstützung

Because programming HLRS's high-performance computing systems requires specialized knowledge, our user support staff works closely alongside our system users to provide expert advice on technologies and tools for HPC and AI. We offer mentoring as well as extended user support that assists research teams in optimizing the performance of their codes on our systems. Our emphasis on performance optimization both enhances our users' scientific capabilities and enables a more sustainable operation of HLRS's computing resources.

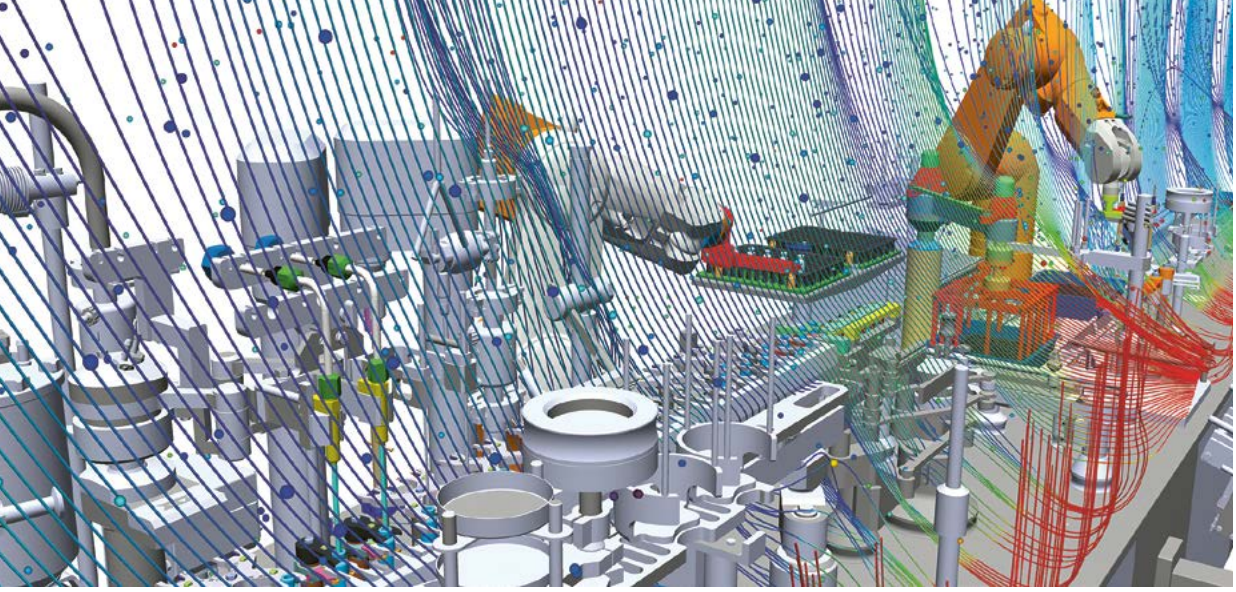
Die Programmierung von Hoch- und Höchstleistungsrechnersystemen erfordert besondere Fachkenntnisse. Unser User-Support-Team arbeitet eng mit Systemnutzer:innen zusammen und bietet fachkundige Beratung zu Technologien und Tools für HPC und KI. Wir bieten Mentoring sowie Extended User Support Services, die Forschungsteams dabei helfen, die Leistung ihrer Codes auf unseren Systemen zu optimieren. Unser Schwerpunkt auf Leistungsoptimierung steigert sowohl die wissenschaftlichen Fähigkeiten unserer Nutzer:innen als auch den nachhaltigen Betrieb der HLRS-Rechenressourcen.

Extended User Support
HLRS supports close cooperation between users, vendor staff, and HLRS experts to optimize code performance and develop more efficient methods. In special User Support Workshops mentors from HLRS work one-on-one with code owners.

Code Porting to GPUs
With the arrival of the Hunter supercomputer, HLRS transitioned from a CPU-based architecture to a modern GPU-accelerated system. HLRS has worked closely with system users to support them in adapting codes to the new platform.

AI Support
As coordinator of the AI Factory HammerHAI, HLRS and its partners help industry, SMEs, and startups to implement strategies for developing and scaling AI applications and business models.

Learn more: www.hlrs.de/user-support



High-Performance Computing for Industry
HPC für die Industrie

Besides supporting academic research, HLRS makes its supercomputing resources available for private industry. From large, globally recognized corporations to small and medium-sized enterprises (SMEs) and startups, companies can access world-class computing resources for simulation, artificial intelligence, and data analytics without the need to purchase and operate their own systems. In addition, HLRS holds events and provides specialized training to address the unique needs of HPC users in industry. These comprehensive services support the competitiveness of high-tech engineering companies across Germany and Europe.

Über die Unterstützung der akademischen Forschung hinaus ermöglicht das HLRS auch der Privatwirtschaft den Zugang zu seinen Supercomputern. Sowohl weltweit bekannte Großkonzerne als auch kleinere und mittelständische Unternehmen und Startups greifen für Simulation, künstliche Intelligenz und Datenanalyse auf unsere HPC-Systeminfrastrukturen zu. Außerdem bietet das HLRS spezielle Workshops und Schulungen an, die auf die dezidierten Bedürfnisse dieses Nutzerkreises ausgerichtet sind. Diese Angebote und Dienstleistungen unterstützen die Wettbewerbsfähigkeit von Hightech-Unternehmen in Deutschland und Europa.

Consulting for SMEs
Our partner organization SICOS BW offers free consulting services for SMEs interested in simulation, artificial intelligence, or data analytics, and facilitates access to HLRS's computing resources.

HPC training for industry professionals
HLRS's Supercomputing-Akademie enables working professionals to develop HPC skills and knowledge alongside their other obligations.

FFplus
This EU-financed project offers funding and support to European SMEs and start-ups to conduct business experiments and innovation studies demonstrating the benefits of HPC and generative AI.

Learn more: www.hlrs.de/industry



Solution Centers Promote Innovation Solution Center für mehr Innovation

Many companies could benefit from high-performance computing, although its uptake in certain industries has been slow due to gaps in knowledge, methods, or resources. To eliminate such barriers, HLRS has worked with representatives of the automotive, medical, and culture industries to develop a model called the solution center. Solution centers bring together multidisciplinary expertise — for example, engineers, computer scientists, HPC specialists, artists, and other interested specialists — to identify industry-wide challenges and develop solutions in a collaborative manner.

Viele Unternehmen könnten vom Höchstleistungsrechnen profitieren, obwohl es in manchen Branchen aufgrund von Wissenslücken oder Ressourcenmangel nur langsam eingeführt wird. Um Hindernisse aus dem Weg zu räumen, hat das HLRS gemeinsam mit Vertreter:innen der Automobil-, Medizin- und Kulturbranche sogenannte Solution Center gegründet. Solution Center bündeln multidisziplinäres Fachwissen – z. B. aus dem Ingenieurwesen, Informatik, HPC, Kunst und anderen Disziplinen – um branchenweite Herausforderungen zu identifizieren und gemeinsam Lösungen zu entwickeln.

Automotive Solution Center for Simulation
The ASCS connects companies from across the automotive branch to exchange knowledge, access HPC resources, and develop solutions to shared problems.

CASE4Med: The Medical Solution Center
CASE4Med supports companies in the medical technology industry in developing solutions that use high-performance computing, simulation, data analytics, and artificial intelligence.

Media Solution Center Baden-Württemberg
International in scope, the MSC supports innovation in the culture and creative industries by facilitating access to HPC expertise and resources for artists and arts organizations.



Simulation for the Public Sector
Simulation für den öffentlichen Sektor

High-performance computing (HPC) and AI offer powerful tools for making our communities more sustainable and resilient. For example, simulation and artificial intelligence offer strategies for accelerating energy transformation, planning healthier and more livable cities, improving administrative efficiency, and predicting and managing natural disasters. As a nonprofit German national high-performance computing center affiliated with the University of Stuttgart, HLRS operates supercomputing infrastructure in the interest of the public good. Public ministries, agencies, and organizations at all levels in Germany can use and benefit from our computing resources and expertise in simulation, artificial intelligence, data analytics, and visualization.

Höchstleistungsrechnen (HPC) und künstliche Intelligenz sind leistungsstarke Werkzeuge, mit denen wir unsere Gesellschaft nachhaltiger und widerstandsfähiger gestalten können. Mit Simulation und KI lassen sich beispielsweise die Energiewende beschleunigen, gesündere und lebenswertere Städte planen, die Effizienz der öffentlichen Verwaltung steigern und Naturkatastrophen vorhersagen sowie bewältigen. Als öffentliches Bundeshöchstleistungsrechenzentrum und eine zentrale Einrichtung der Universität Stuttgart betreibt das HLRS Supercomputing-Infrastruktur im Interesse des Gemeinwohls. Bundes- und Landesministerien, Behörden und Organisationen auf allen Ebenen in Deutschland können unsere Rechenressourcen und unser Fachwissen nutzen und davon profitieren.

Urban digital twins
Integrating and visualizing data in virtual reality can improve decision-making and public communication surrounding city and regional planning measures.

Natural disaster prediction and prevention
Simulation can help communities identify and manage risks related to wildfires, flooding, and other effects of climate change.

Pandemic and health systems management
The Federal Institute for Population Research used HLRS's systems to predict intensive care unit occupancy during the COVID-19 pandemic.

Learn more: www.hlrs.de/public-sector



Certified for Environmental and Energy Management Zertifiziert für Umwelt- und Energiemanagement

Because the operation of high-performance computing centers requires sizable amounts of energy and other resources, HLRS has committed itself to taking practical measures whenever possible to reduce its CO_2 footprint, prevent pollution, and limit other negative effects on the environment. Since 2020, HLRS has been certified under the Eco-Management and Audit Scheme (EMAS) and works continually to improve its environmental and energy performance. At the same time, HLRS computing resources provide essential tools for research related to climate change, green energy, and more sustainable mobility and city planning concepts.

Der Betrieb von Höchstleistungsrechenzentren erfordert erhebliche Mengen an Energie und weiteren Ressourcen. Das HLRS hat sich dazu verpflichtet, praktische Maßnahmen zu ergreifen, um seinen CO_2-Fußabdruck zu verringern, Umweltverschmutzung vorzubeugen und andere negative Auswirkungen auf die Umwelt zu begrenzen. Das Zentrum ist seit 2020 nach dem Eco-Management and Audit Scheme (EMAS) zertifiziert und verbessert kontinuierlich seine Umwelt- und Energieleistung. Gleichzeitig stellen die Computerressourcen des HLRS wichtige Instrumente für die Forschung in den Bereichen Klimawandel, grüne Energie und nachhaltigere Mobilitäts- und Stadtplanungskonzepte bereit.

Eco-Management and Audit Scheme
HLRS was the first high-performance computing center to receive EMAS certification, the most demanding system for environmental management worldwide.

Building for the Future
A new datacenter called HLRS III maximizes efficiency and sustainably. Waste heat from HLRS's supercomputers will be captured and distributed to the University of Stuttgart's district heating network.

SRI DiTEns
HLRS is a partner in this University of Stuttgart research initiative to develop methods for energy system transformation, using urban digital twins to support decision making in communities.

Learn more: www.hlrs.de/sustainability



Social and Ethical Dimensions of Simulation and AI Soziale und ethische Aspekte der Simulation und KI

Computer simulation and artificial intelligence are changing science, technology, politics, and society in fundamental ways that are so far only vaguely understood. HLRS's Department of Philosophy of Computational Sciences is investigating this transformation, conducting and promoting research that considers how to evaluate results generated by simulation and artificial intelligence. By enabling philosophers, social scientists, and historians of science to work side-by-side with simulation scientists at HLRS, the department is uniquely positioned to conduct research that considers the practice of simulation and its implications.

Computersimulationen und künstliche Intelligenz verändern Wissenschaft, Technik, Politik und Gesellschaft auf eine Weise, die bisher nur vage zu begreifen ist. Die HLRS-Abteilung Philosophy of Computational Sciences untersucht diesen Wandel mithilfe von Forschungsprojekten, die sich mit der Frage befassen, wie die durch Simulation und künstliche Intelligenz erzeugten Ergebnisse zu bewerten sind. Sie bringt Wissenschaftler:innen aus der Philosophie, den Sozialwissenschaften und der Wissenschaftsgeschichte mit Simulationswissenschaftler:innen am HLRS zusammen, wodurch sich eine einzigartige Gelegenheit zur methodischen Forschung ergibt, die Simulation und deren Auswirkungen im Detail untersucht.

The Science and Art of Simulation
This international, interdisciplinary conference and book series investigates computational methods from an interdisciplinary point of view, building bridges between researchers in the STEM disciplines and the humanities.

Trust in Information
A funded project led by the HLRS Philosophy Department developed perspectives for assessing the trustworthiness of computational science and limiting the spread of misinformation.

Technology, Policy, and Democracy
Other conferences have explored interactions between technology and politics, including the uses and impacts of simulation in society.

Learn more: www.hlrs.de/philosophy



Education and Public Outreach
Bildung und Öffentlichkeitsarbeit

As supercomputers have become more powerful, simulation, artificial intelligence, visualization, and related technologies have become a part of our daily lives. HLRS organizes and participates in a variety of activities intended to increase public understanding of what high-performance computing is, why it is important for science and engineering, and how it affects society. These include events and outreach activities for the general public, as well as projects that bring simulation and high-performance computing into schools in ways that encourage young people to consider future careers in computer science.

Mit der zunehmenden Leistungsfähigkeit von Supercomputern sind Simulationen, künstliche Intelligenz, Visualisierung und verwandte Technologien zu einem Teil unseres Alltags geworden. Das HLRS organisiert und beteiligt sich an einer Vielzahl von Aktivitäten, die das Verständnis der Öffentlichkeit dafür fördern, was Höchstleistungsrechnen ist, warum es für Wissenschaft und Technik wichtig ist und welche Auswirkungen es auf die Gesellschaft hat. Dazu gehören Veranstaltungen für und Kommunikation an eine breitere Öffentlichkeit sowie Projekte, die Simulation und Höchstleistungsrechnen in die Schulen bringen, um junge Menschen zu ermutigen, eine Karriere in der Informatik in Betracht zu ziehen.

Simulated Worlds
This education enrichment program offers motivated students the chance to complete research fellowships at HLRS, and organizes events for the general public to help improve understanding of computer simulation.

Tag der Wissenschaft (Science Day)
During the University of Stuttgart's annual campus-wide open house event, visitors can tour HLRS's computing room, experience virtual reality in our CAVE facility, and learn more about our latest activities.

Girls' Day
HLRS is a longtime participant in this nationwide program, which encourages girls to consider careers in IT, the sciences, engineering, and the skilled trades.

Learn more: www.hlrs.de/outreach

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GCS
Gauss Centre for Supercomputing

Funding for HLRS's national supercomputers provided by

Baden-Württemberg
Ministry of Science,
Research and Arts

Federal Ministry
of Research, Technology
and Space

Environmental certification

EMAS

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Photography and images
Page 5: Slaven Vilus. All other images property of HLRS.

Printing
Buch- und Offsetdruckerei H. Heenemann, Berlin

Design
GROOTHUIS. Gesellschaft der Ideen und Passionen mbH für Kommunikation und Medien, Marketing und Gestaltung; groothuis.de

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