

The Value of Fujitsu HPC

FUJITSU



Fujitsu's Cycle of Value



Society



Competency



Computing



Tackling Social Issues with Fujitsu HPC



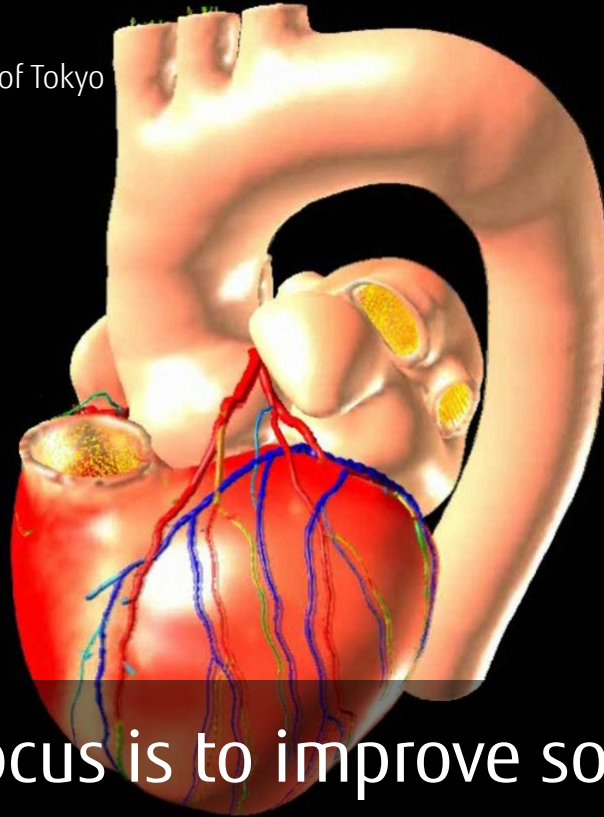
The K computer was jointly developed by RIKEN and Fujitsu, as part of the High Performance Computing Infrastructure Initiative led by MEXT (Japanese ministry of science and technology)



... Top LINPACK performance is not our final goal !

Heart Simulation

Jointly developed by Fujitsu and the University of Tokyo
(Prof. Hisada and Prof. Sugiura)



Our main focus is to improve society with
Fujitsu's competencies



Courtesy of Prof. Imamura,
International Research Institute of Disaster Science, Tohoku University

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Story 1 - HPC Wales

Industry Vitalization with HPC Value for SME's

- ✓ 20 new technological themes from research collaboration
- ✓ Launched HPC services and consultation for SME's
- ✓ Creation of new business projects (Creative Industries etc.)

Keys to Success



Disseminated HPC technologies among SME's to accelerate design and research activities.



Built collaborative project scheme between Fujitsu and HPC Wales to realize industry vitalization.



Continuing consultation support from early planning stage to practical utilization in target industries.



Story 2 - King Abdulaziz University (KAU)



Addressing 160,000 researchers to develop HPC users/talent

- ✓ Cultivation of high-level HPC human resources and launch of cutting-edge research with Fujitsu
- ✓ Started up a brand-new large HPC center quickly and efficiently
- ✓ Rapid increase of HPC users among a variety of domains

Keys to Success



Deep collaboration between Fujitsu and KAU has set up climate and meteorological, desert agricultural and genomics-based research.



Fujitsu provided KAU with face-to-face consultation and deep planning for the new HPC center.



Comprehensive HPC administrator and end user training was provided on-site.



Climate
&
Meteorology



Desert
Agriculture



Genomics




Story 3 - NSCC (National SuperComputer Center)



Singapore National Initiative for Boosting Scientific Research

- ✓ HPC platform to further advance R&D in Singapore and nurture young talents by bringing together research institutes of higher learning and industry partners
- ✓ Potential usage includes research in the areas of modeling and simulation, and data analytics

Keys to Success


-  Fujitsu's deep-rooted background in R&D and broad industry network facilitate research collaborations across physical boundaries.
-  Technical know-how and experience in building a HPC facility featuring robust architecture, providing high level of flexibility & scalability.
-  Fujitsu's integral professional and managed services in the design, build and maintenance of HPC facility.



What is Fujitsu's Competency?



Fujitsu is with you to reach your business goals
and to create a brighter future for society



The diagram illustrates Fujitsu's competency through two columns of four items each, connected by a circular flow. The left column lists technical and product-based competencies, while the right column lists human and experiential competencies. A central circular graphic with a green and yellow arc connects the two columns, symbolizing the integration of these competencies. Various icons are scattered around the diagram, including a circuit board, a shield, a laptop, a smartphone, a cloud, and server racks.

Services

Applications

Software

Hardware and Devices

Experience

Knowledge

Know-How

Human Resources

A close-up photograph of two hands holding two interlocking puzzle pieces. The puzzle pieces are a light blue-grey color with a slightly textured surface. The hands are positioned on either side of the pieces, with fingers visible. The background is a soft, out-of-focus light grey. Overlaid on the puzzle pieces is the text 'shaping tomorrow with you' in a white, sans-serif font. The text is split across the two pieces, with 'shaping tomorrow' on the left piece and 'with you' on the right piece.

shaping tomorrow with you