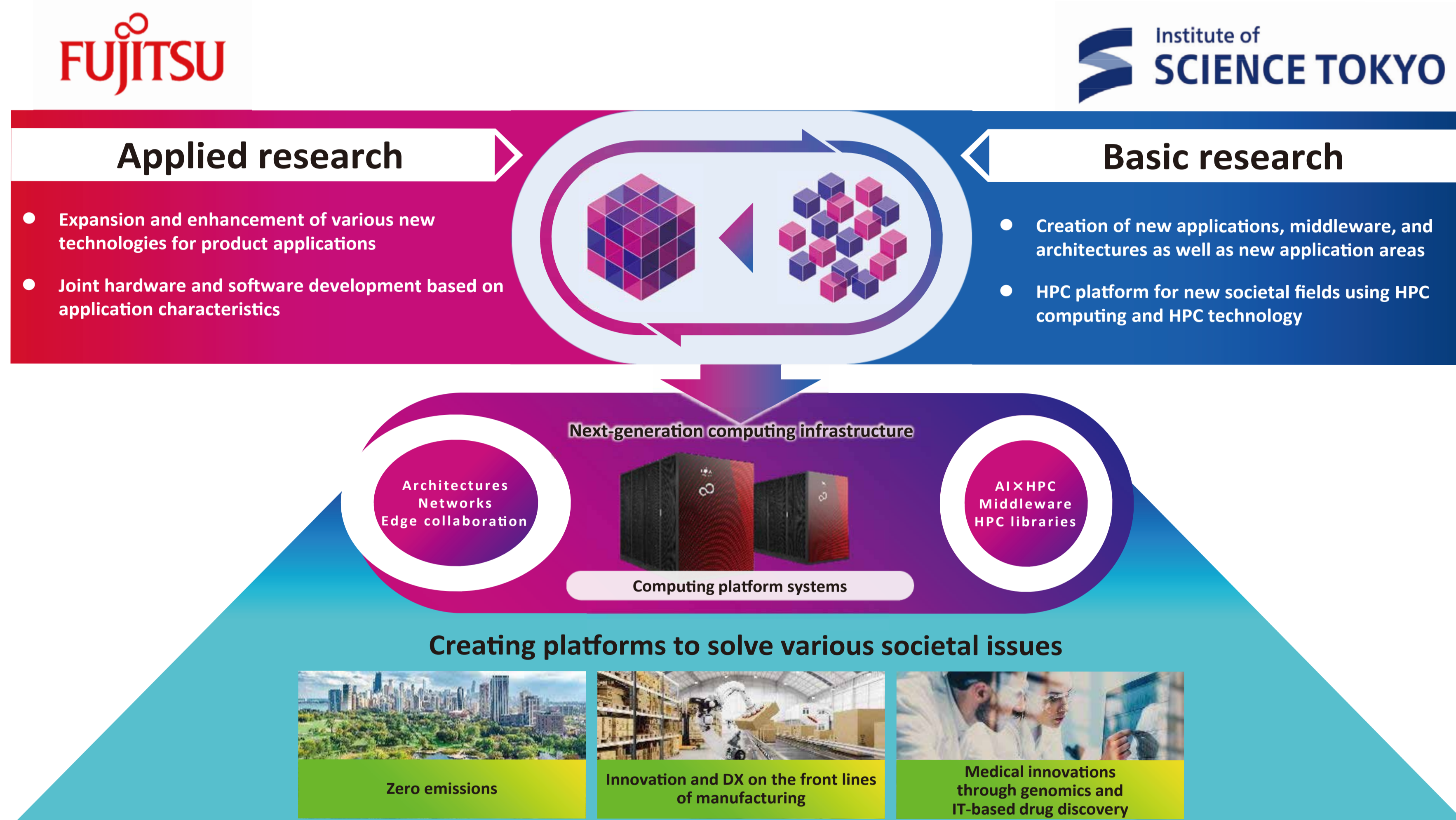


Collaborative Research between Science Tokyo and Fujitsu

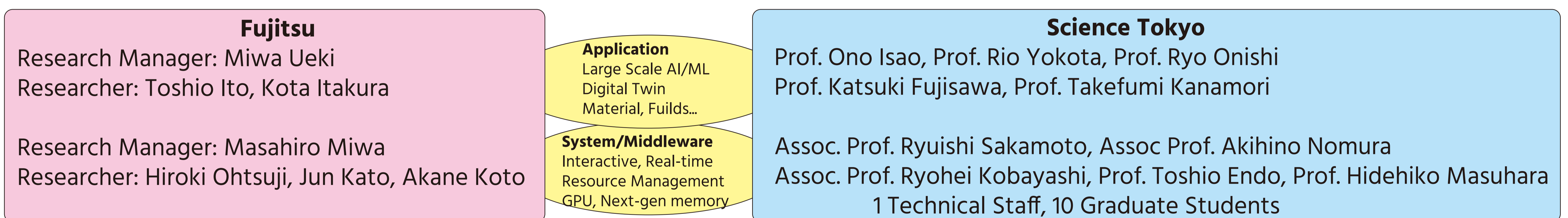
Overview of Collaborative Research Cluster

The purpose of **Fujitsu Next Generation Computing Infrastructure Collaborative Research Cluster** is to realize a new computing infrastructure capable of extremely large-scale data processing and simulation based on AI and High Performance Computing (HPC) technologies.

- Oct 2022: The cluster was established between Tokyo Institute of Technology (Tokyo Tech) and Fujitsu
- Oct 2024: Tokyo Tech became **Institute of Science Tokyo**, due to merger with Tokyo Medical and Dental University



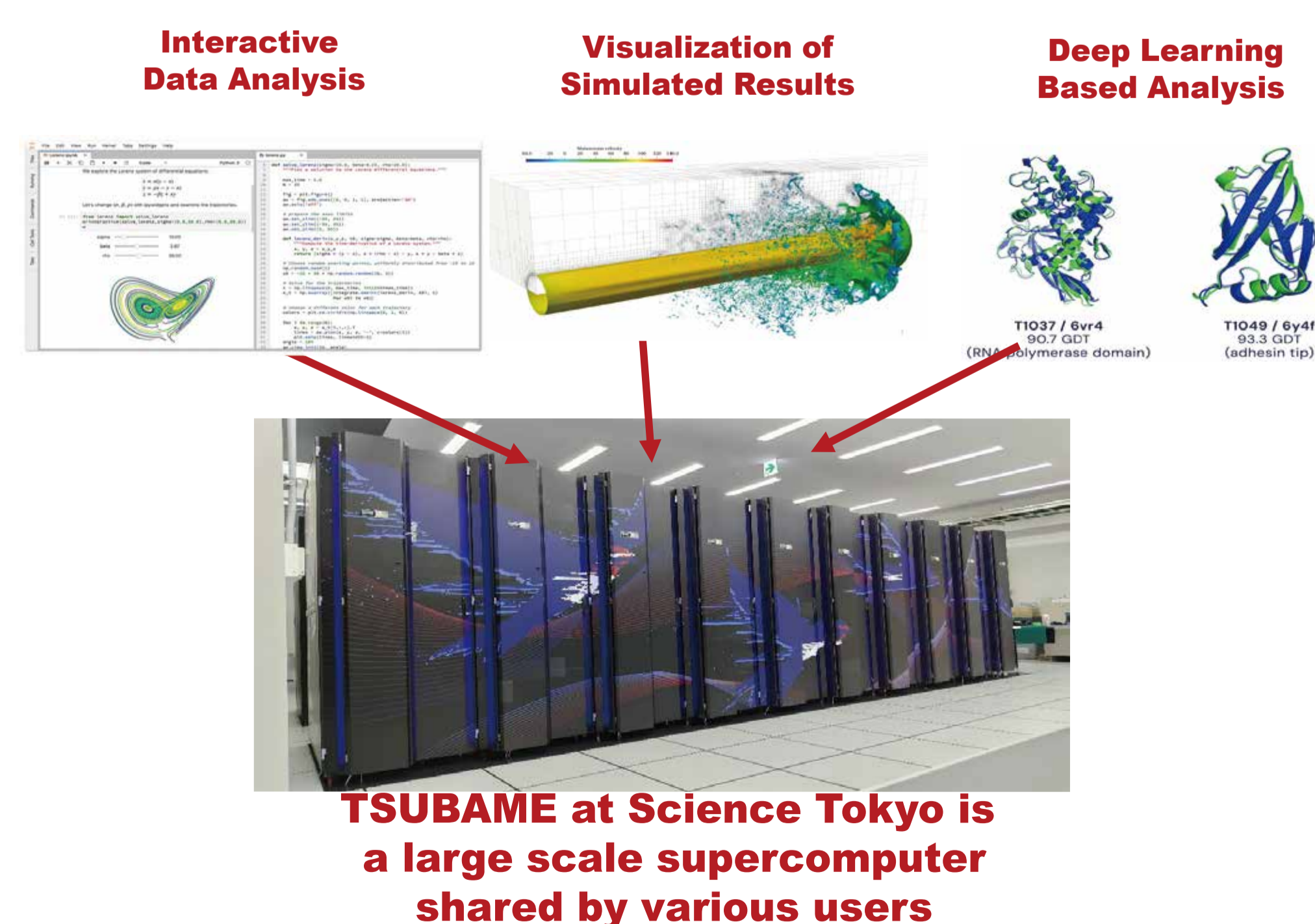
Leader: Science Tokyo) Prof. Hidehiko Masuhara
Deputy Leader: Fujitsu) Fellow Naoki Akaboshi, Science Tokyo) Prof. Toshio Endo



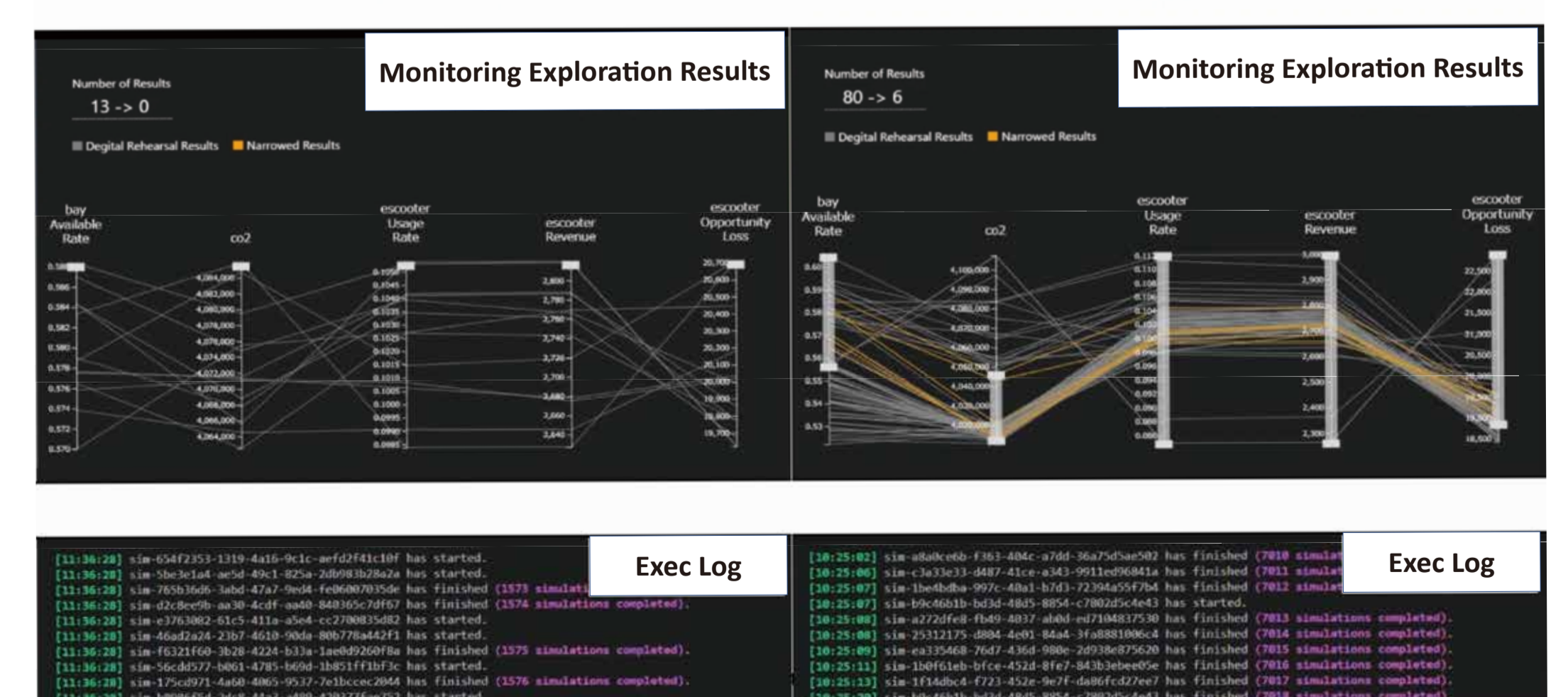
System Infrastructure Supporting Real-World Interactive HPC

Analysis of real-world big-data requires HPC technologies with innovation. Achievement of both interactivens and efficient resource usage is required.

- Interactive/real-time job scheduling based on preemption and gang scheduling
- Supporting "cloud-native" apps on system without "root" privilege



See Demo Video at Booth Before After



Digital twin application (e-Scooter placement) is run on TSUBAME with interactive scheduling

Contact: Toshio Endo (endo@srcr.iir.isct.ac.jp)

