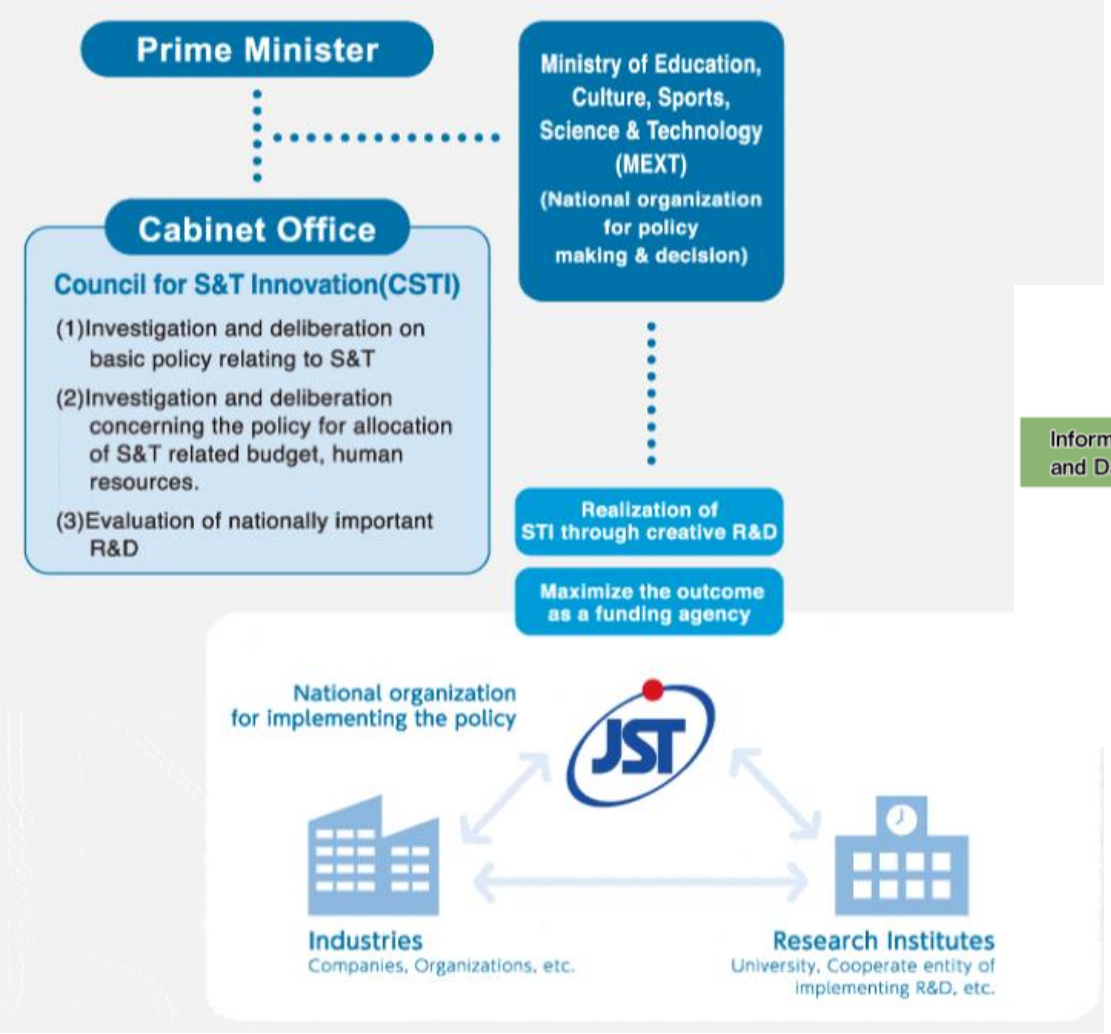
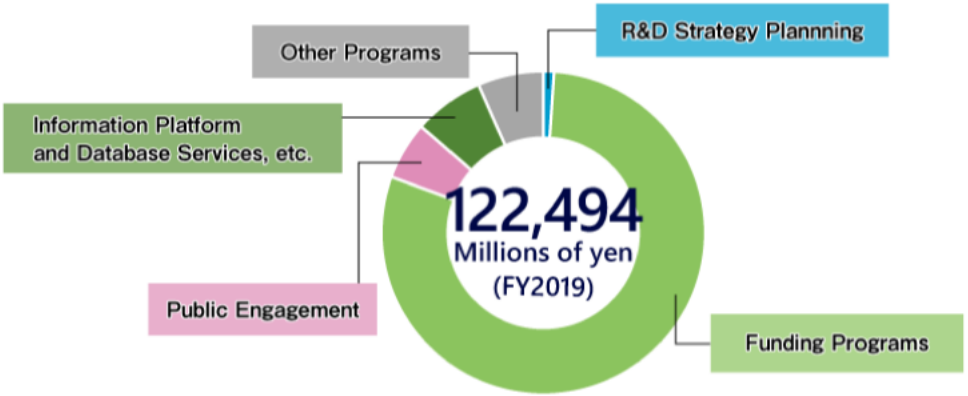
JST-NSF Joint Research Program

April 7-9, 2021

Kazuo Iwano, Japan-side Program Officer

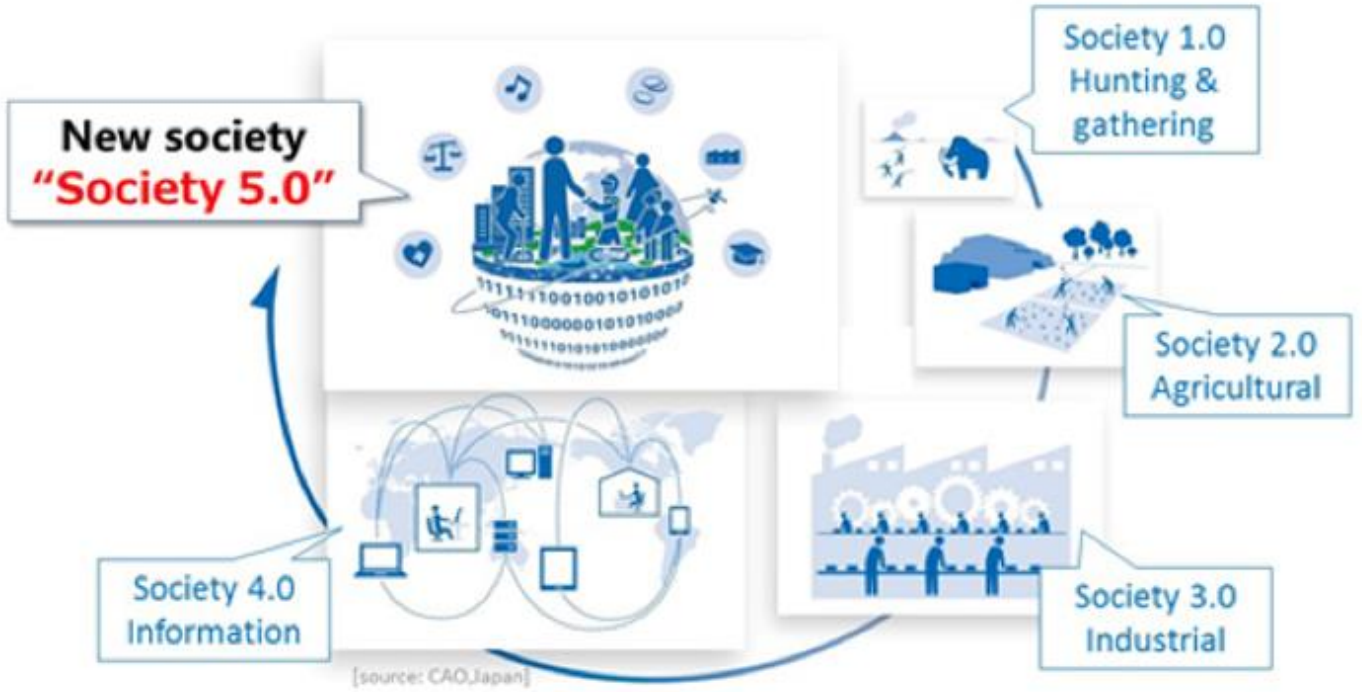
JST is a funding agency under MEXT for R&D in Japan.





GoJ aims for realizing Society 5.0

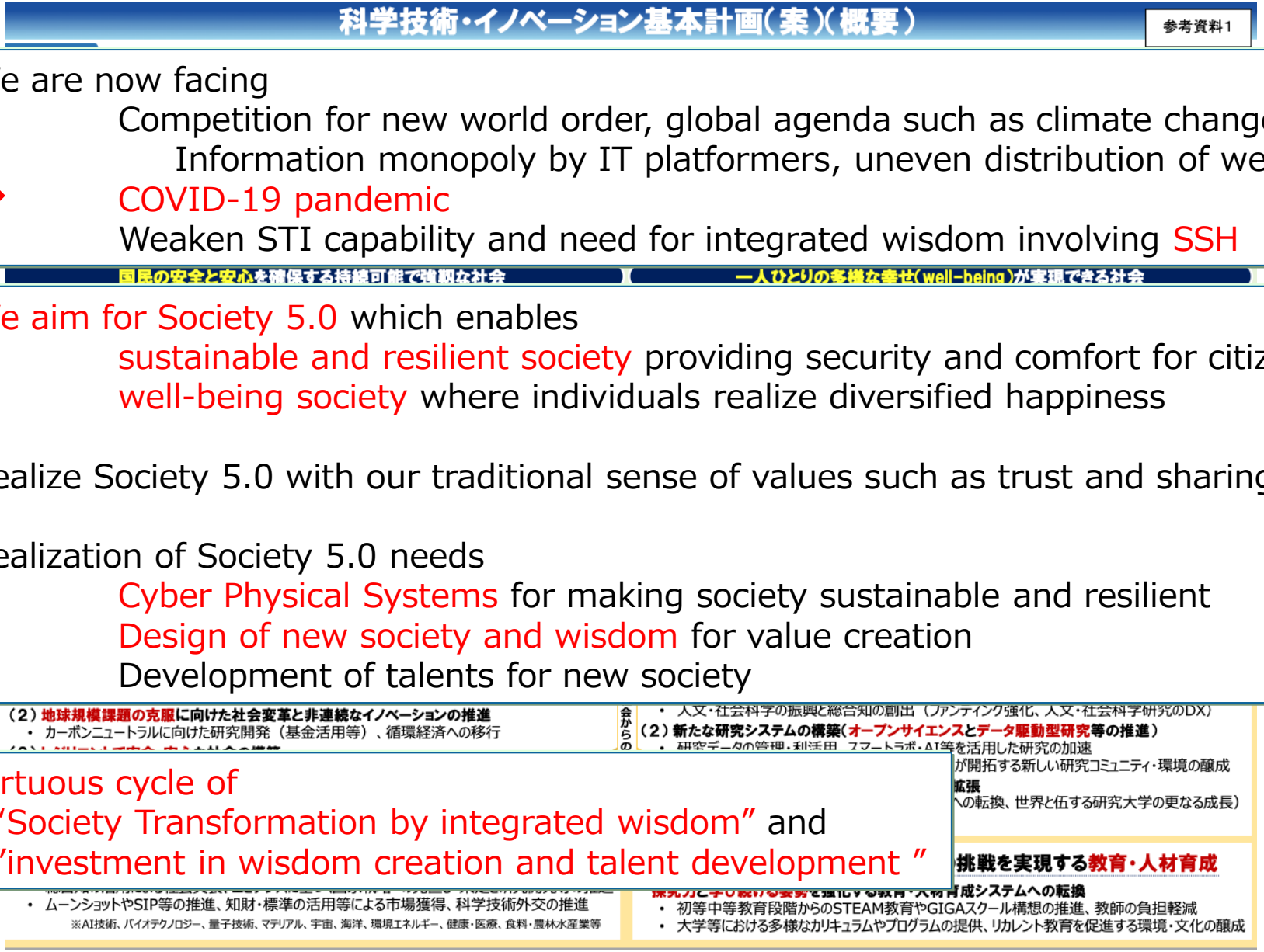
Society 5.0 was proposed in the 5th Science and Technology Basic Plan as a future society that Japan should aspire to.
the hunting society (Society 1.0), agricultural society (Society 2.0), industrial society (Society 3.0), and information society (Society 4.0)



"A human-centered society that balances economic advancement with the resolution of social problems by a system that highly integrates cyberspace and physical space."

Science and Technology・Innovation Basic Plan (preliminary) in 2021

Science and Technology/Innovation Basic Plan (preliminary) in 2021



JST-NSF Collaboration

J-RAPID collaboration with NSF RAPID mechanism

・2011: International Urgent Collaborative Projects regarding the Great East Japan Earthquake within the J-RAPID Program

・2020: J-RAPID Collaborative Research/Survey Program for Urgent Research on the Coronavirus Disease 2019 (COVID-19)

・2011: Metabolomics for a Low Carbon Society

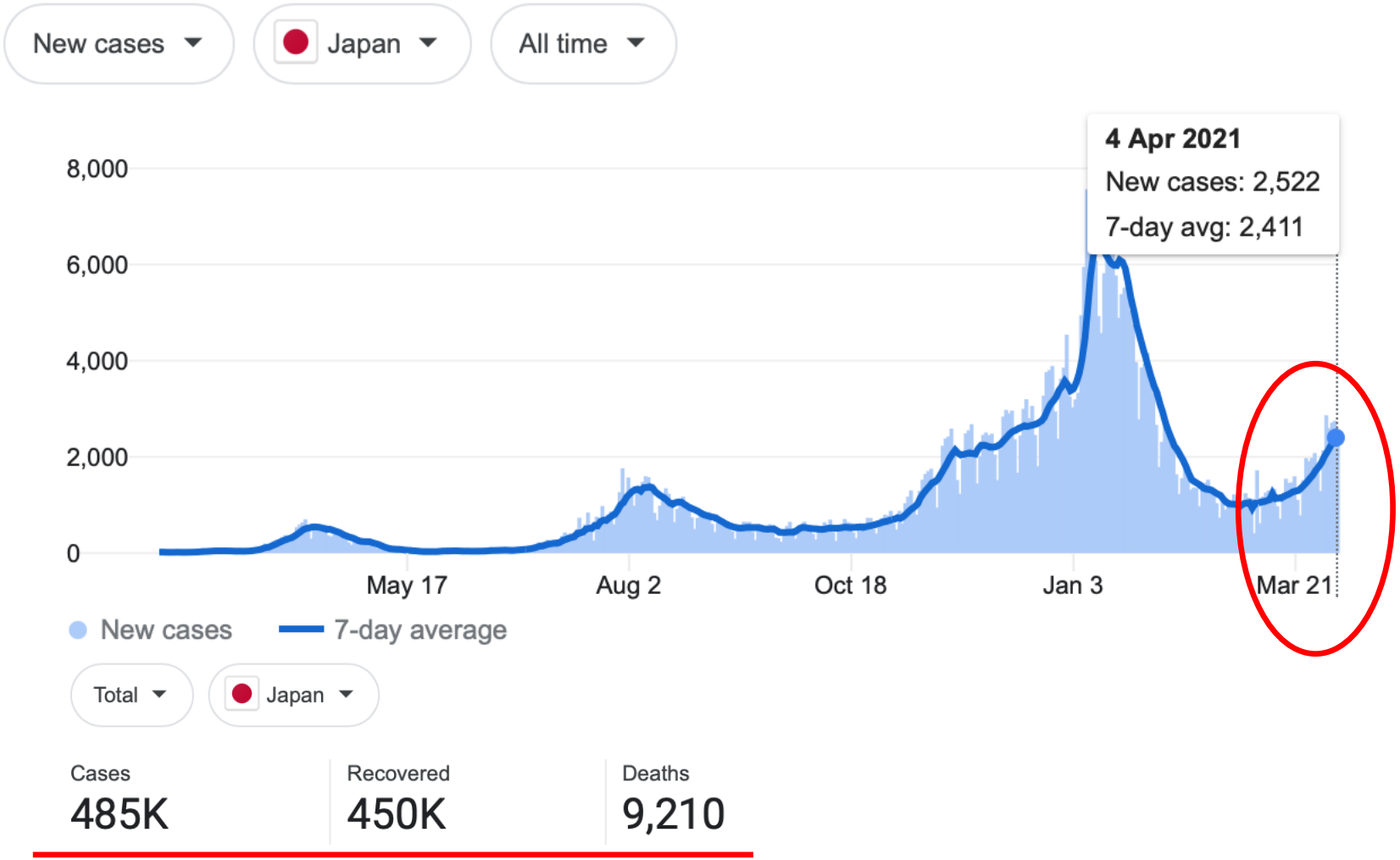
・2014: Big Data and Disaster Research

・2019: JST-NSF Joint Research 2019 with Smart and Connected Communities for Digital Science (next page)

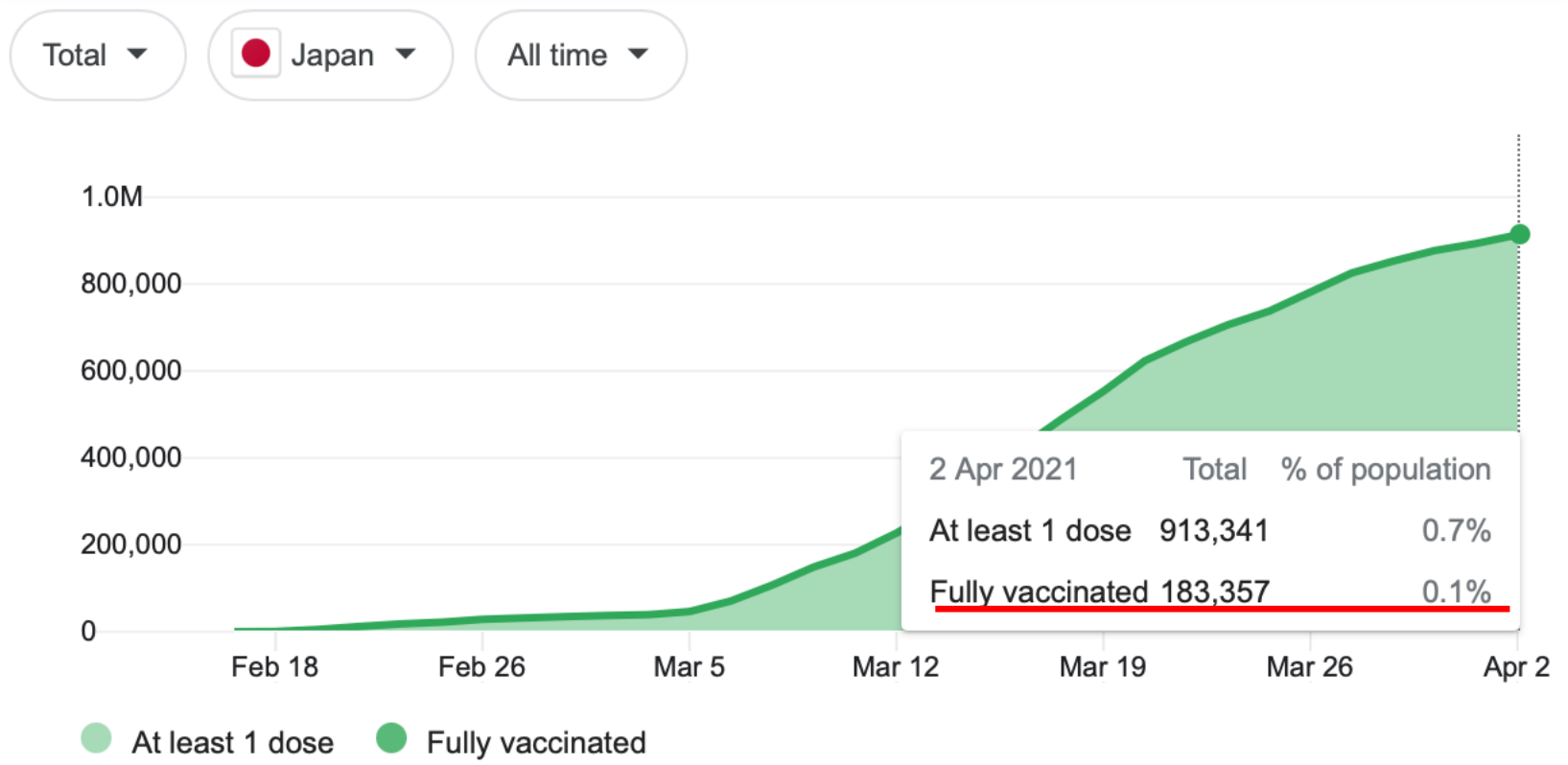
JST-NSF Joint Research 2019 with Smart and Connected Communities for Digital Science (next page)

Title	Research Leader in JapanResearch Leader in the U.S.
Bridging the Digital Gap and Identifying Cross Cultural Pathways for Adoption of IoT Technologies to Support Super Aging Societies in the U.S. and Japan	OKAMURA Koji, Professor, Kyushu University Cybersecurity Center Anupam Joshi, Oros Family Professor, University of Maryland・Baltimore County
Multimodal Data Analytics and Integration for Emergency Response and Disaster Management	SHIBASAKI Ryosuke, Professor, The University of Tokyo Center for Spatial Information Science Shu-Ching Chen, Professor, Florida International University School of Computing and Information Science
Understanding Heat Resiliency via Physiological, Mental, and Behavioral Health Factors for Indoor and Outdoor Urban Environments	MUKAIGAWA Yasuhiro, Professor, Nara Institute of Science and Technology, Graduate School of Science and Technology Suren Jayasuriya, Assistant Professor, Arizona State University School of Arts, Media and Engineering the School of Electrical, Computer and Energy Engineering
Green Low-Speed Mobility in an Aging Society	MORIKAWA Takayuki, Professor, Nagoya University, Institutes of Innovation for Future Society, Global Research Institute for Mobility in Society Perez Miguel, Associate Professor, Virginia Polytechnic Institute and State University, Transportation Institute
Socially-integrated Technological Solutions for Real-time Response and Neighborhood Survival After Extreme Events	YAMAMOTO Toshiyuki, Professor, Nagoya University Institute of Materials and Systems for Sustainability Cynthia Chen, Professor, University of Washington Civil and Environmental Engineering
Privacy-Enhanced Data-Driven Health Monitoring for Smart and Connected Senior Communities	YOSHIKAWA Masatoshi, Professor, Kyoto University Graduate School of Informatics Xiong Li, Professor, Emory University Department of Computer Science

We are facing the fourth surge of the pandemic.



Serious delay of vaccination (only 0.1% has fully vaccinated as of April 2nd).



Nov 2020 : JST-NSF Joint Research 2021 Smart and Connected Communities

"Recovery from COVID-19 and future resilience planning related to pandemics and disasters, including how the proposed research will enable community adjustment to life in the new normal of a post-COVID-19 society"