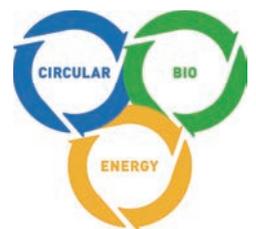




# Technology Strategy Center



New Energy and Industrial Technology Development Organization  
March 2022

# What's TSC?

## NEDO's Technology Strategy Center (TSC) is

a technology strategy research institute that contributes to the promotion of technology development that realizes NEDO's missions of addressing energy and global environmental problems and enhancing industrial technology.

TSC will lead the realization of a sustainable society by identifying and multilaterally analyzing global trends in technology, industry, and policy, providing insight into technology seeds and social challenges, and as a result, proposing technology strategies and implementing initiatives to realize them.

# Message



**KISHIMOTO Kikuo**  
Executive Director, NEDO TSC

Born in Tokyo, 1952. Ph.D. in engineering (1982), Professor (1995-), Vice President (2012), and Professor Emeritus (2018-) of Tokyo Institute of Technology. Executive Director of NEDO TSC since April 2020.

Established in 2014, TSC conducts surveys and analyses of trends in Japan and abroad in industrial, energy, and environmental technologies and formulates technology strategies that outline the fields Japan should invest in as well as areas where research and development should be undertaken. TSC works closely with the Ministry of Economy, Trade and Industry (METI) of Japan and other governmental agencies to develop strategies of significance and is always open to frank opinions from industry and academia. TSC continues to fulfill its responsibilities to society by formulating technology strategies and practical project plans, which contribute to strengthening Japan's competitiveness in industry while solving energy and global environmental problems.

# Mission & Activities

## Catch Moves, Design Our Future and Show Strategies Forward



### TSC Brief Report

TSC publishes the TSC Brief Report series, which describes research and analysis results in response to changes in social trends.



### TSC Vision for the Future

TSC publishes reports that outline both a vision for the future and practical guidelines based on TSC surveys and analyses to lead the creation of a better, more sustainable society.



### TSC Technology Strategy

When considering key technology areas, TSC identifies social issues to be solved and future visions to be realized based on technological, industrial, and policy trends in Japan and abroad and publishes technology strategies with practical implementation processes to resolve these issues.

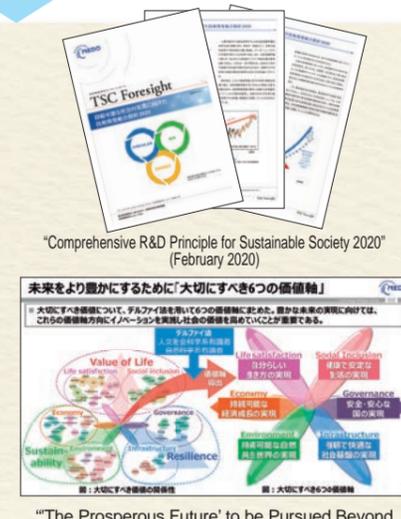
TSC periodically publishes "NEDO Overseas Technology Information" and "NEDO Overseas Technology Report" featuring technological news releases from public institutions outside Japan. TSC has also released a total of ten "TSC Foresight Brief Reports" so far, as of February 2022, beginning with "Social Changes and Promising Innovations in the Post-COVID World" in June 2020 and including "Material Technology that Contributes to the Realization of Well-Being in Society," which examines a topic of growing interest worldwide: well-being.



Scan here to access "TSC Brief Report"

"Material Technology that Contributes to the Realization of Well-Being in Society" (December 2020)

TSC released the "Comprehensive R&D Principle for Sustainable Society 2020" in February 2020. With an eye toward 2050, this principle proposes conducting a comprehensive and objective evaluation of technologies effective in CO2 reduction. TSC also sent out "The Prosperous Future" to be Pursued Beyond Innovation" in June 2021. This report summarizes the concepts of a 'core value compass with six directions to keep in mind' and 'twelve visions of society to achieve,' both of which promote innovation activities.



Scan here to access "TSC Vision for the Future"

"The Prosperous Future" to be Pursued Beyond Innovation" (June 2021)

Since its foundation in 2014, TSC has formulated technology strategies in a total of 80 fields, and these have been used in 110 NEDO projects and leading research activities as of FY2020 (e.g., "The Technology Strategy of the Smart-Teleautonomy Field" has led to the establishment of "Development of AI-Based Innovative Remote Technologies" project). As of February 2022, technology strategies covering 48 fields have been published in our online report, TSC Foresight.

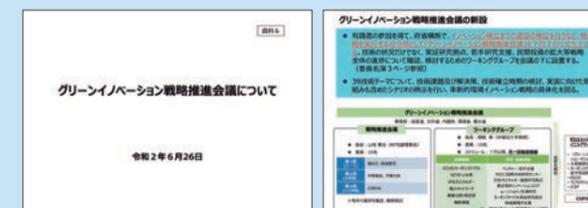


Scan here for "TSC Technology Strategies"

Concept of "AI-Based Innovative Remote Technologies"

# Column Contributing to important policymaking

TSC's reinforcement of activities in policymaking areas contributes to governmental policy planning and drafting in the field of industrial technology. In the fiscal year 2020, the results of TSC's activities were reflected in policymaking outcomes, such as "The Green Innovation Strategy Meeting" (from July 2020, Cabinet Office), discussions toward "The Sixth Strategic Energy Plan" (from August 2020, METI), "Materials Innovation Strategy" (from October 2020, Cabinet Office), and "The Fifth Industrial Revolution Cultivated with Biotechnology" (February 2021, METI).



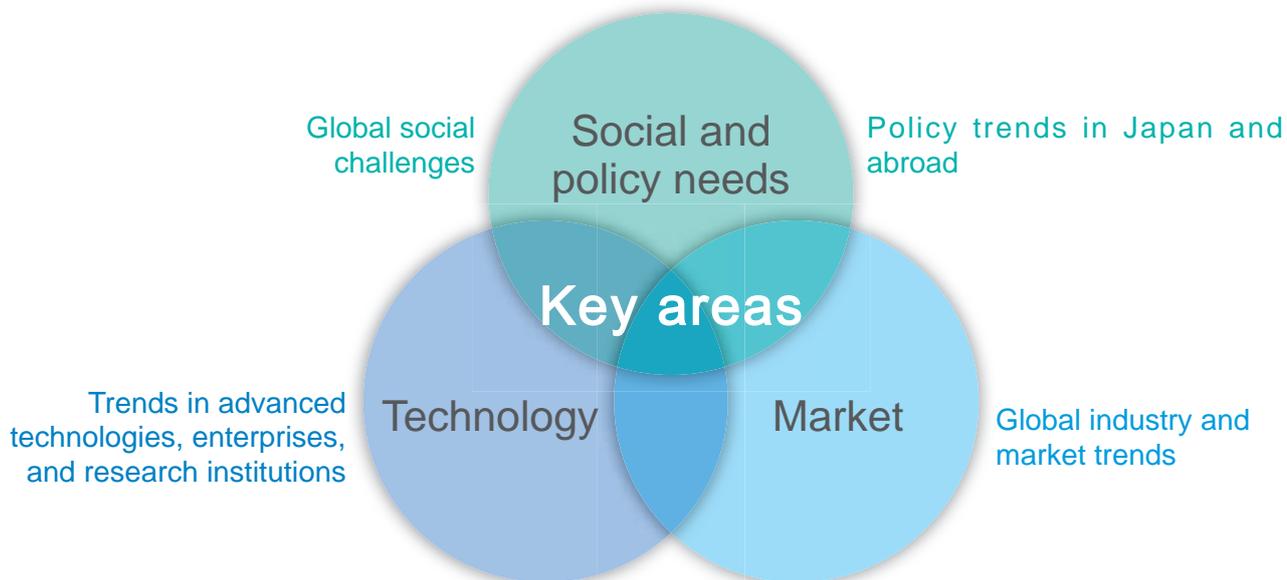
"The Green Innovation Strategy Meeting" (from July 2020, Cabinet Office)



"Materials Innovation Strategy" (from October 2020, Cabinet Office)

# View Point

Technology becomes valuable only when it is implemented in society. TSC analyzes social, policy, market, and technological trends from a global and diverse perspective and devises a “winning strategy” that creates value from the target technologies.



# Area

Address energy and global environmental problems

Enhance industrial technologies

Technology fields	<b>Sustainable Energy</b> 	<b>Environment and Green Chemistry</b> 	<b>Bioeconomy</b> 
	<b>New Technology Frontiers and Multi-Disciplinary (Collaborative Zero Emission in AFF Fields)</b> 	<b>Nanotechnology and Materials</b> 	<b>Digital Innovation</b> 
	<b>Global Technology Research</b> 	<b>Macroanalysis</b> 	<b>Standardization and Intellectual Property</b> 
Cross-sectoral fields			

