

Aiding the elderly and those with disabilities to promote a vibrant and diverse society. Assisting the organizers and athletes in the 2020 Paralympic Games.

Social Landscape / Social Agenda

As a world leader in addressing the societal challenges of an aging population, Japan must promote a progressive social model.

As the world faces an aging population, Japan is expected to be a role model of an inclusive society. It is necessary to create a social system, including services and hardware, to enable the elderly, the disabled, and everyone else to participate equally in society.

Long-term Vision

Creating a healthy and inclusive society where everyone, including the elderly, those with disabilities, and those receiving and providing care, can live comfortably and enjoy longevity

During the Tokyo Games

Enabling everyone to engage with and enjoy the Games

Three Priorities

Social Impact

Demonstrating an inclusive society where the elderly and those with disabilities can engage with the Games

2 Hospitality during the Games

Providing a highly accessible environment to ensure a truly barrier-free experience for everyone

Shared Value

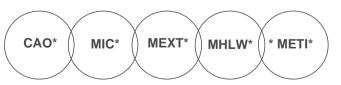
Boosting the development and adoption, both domestically and internationally, of next-generation services and hardware

Concept for 2020

Accessibility Innovation 2020

Social Participation Assistance System

Enabling the elderly and the disabled to participate in society alongside everyone else

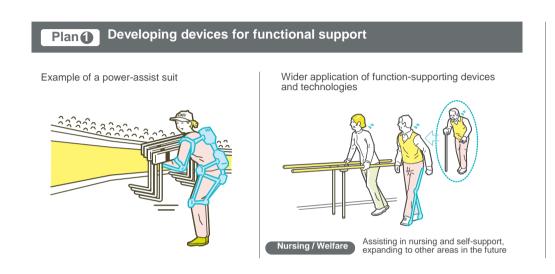


- * CAO : Cabinet Office
- * MIC : Ministry of Internal Affairs and Communications

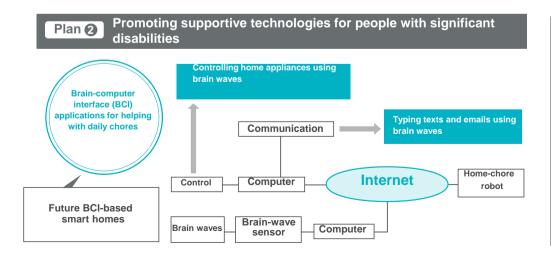
 * MEXT : Ministry of Education, Culture, Sports, Science and
- * MHLW : Ministry of Health, Labour and Welfare * METI : Ministry of Economy, Trade and Industry

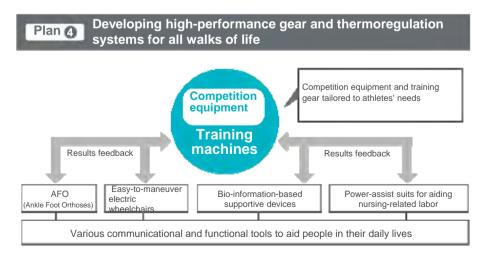


Creating a vibrant, inclusive, and diverse society by 2020, using the opportunity of the Games to showcase such a society



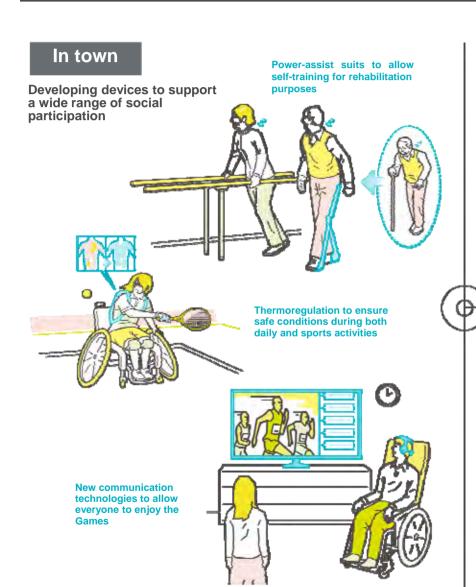






Course of Action Toward 2020

Promoting social participation and engagement with the Games, regardless of age or disability. Developing training devices to improve the performance of Paralympic athletes.



Supporting the Games

Developing equipment to support Paralympic athletes and their competition



Improved training devices to maximize athletes' potential

World-leading competition gear to help win more medals



During the Games

Developing devices to help the efficient operation of the Games
Assisting people between and around venues





Sensor-equipped autonomous wheelchair to enable safe navigation in crowded areas

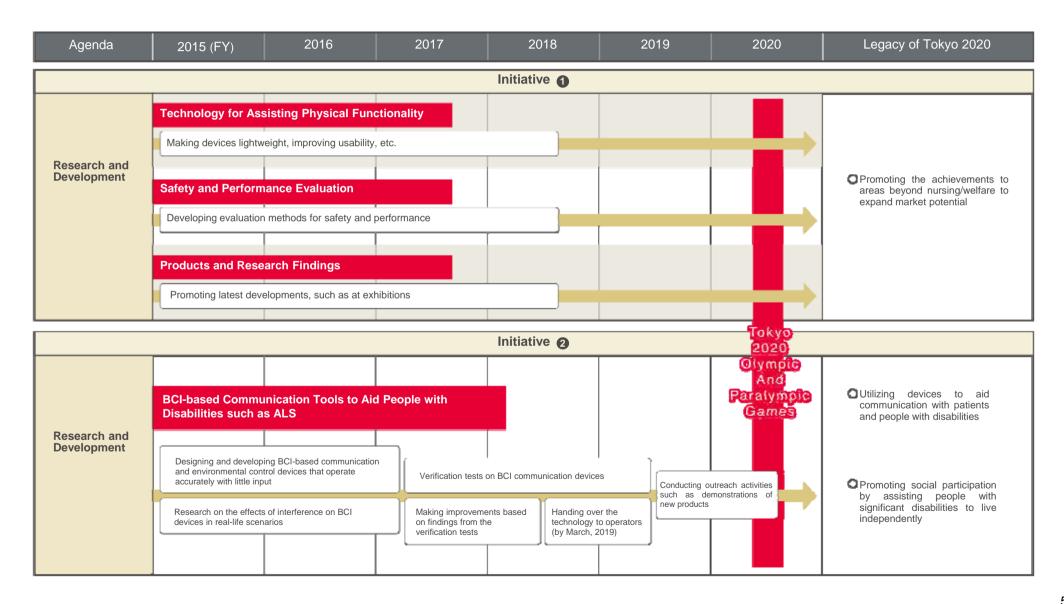
Initiatives and Partners

Initiatives		Cooperating Organizations	Details
Research and Development			
Initiative 1	Developing technology aimed at assisting physical functions	METI*, NEDO*, AIST*	Improving physical aids — lightweight and with enhanced usability — to take into account different users and circumstances, as more varied and complex technology becomes available.
	Evaluating safety and performance		Developing new methods to evaluate the safety and performance of devices
Initiative 2	R&D on communication methods using technologies such as BCI (brain-computer interface) for patients with ALS and other communication handicaps	MHLW* Japan Agency for Medical Research and Development (AMED) National Rehabilitation Center for Persons with Disabilities	Developing communication aids using BCI. Developing practical technology to regenerate physical functions, such as restoring cerebral functions of patients with spinal injuries
Initiative 3	Improving sensor technologies for obstacle detection	MIC*, etc	Developing highly sensitive sensor technologies to detect obstacles, such as tiny bumps on the ground or wet surfaces that may affect the performance of mobility aids
	Developing technology to enable multiple mobility aids to operate in one area		Developing technology to enable multiple mobility aids to operate in crowded areas, such as at the Games venue
	Improving connectivity technology		Improving network technology to provide constant connection so that mobility aids can safely and accurately navigate themselves to their destination. Developing off-line control technology to ensure devices can navigate themselves even when they lose network connectivity.
	Prototyping mobility aids Developing a universal platform for mobility aids (3D map data, etc.)		Prototyping mobility aids that use communication technologies and developing a universal platform to connect such devices for deployment in the 2020 Games.
Initiative 4	Developing robotic assistive devices	METI, NEDO	Promoting cooperation between private companies that develop robotic assistive devices and organizations/private entities (including welfare institutions) engaged in user evaluation. Supporting the development of user-friendly mobility aids and infrastructure, communication tools that are suitable for the disabled and/or a multilingual environment, and other products with a universal design.
	Developing equipment for competition, training, and conditioning	MEXT*, etc.	R&D to support athletes competing for specific Paralympic sports that are likely to bring medals to Japan. This includes custom-made equipment and uniforms/shoes for each athlete, training and conditioning devices especially designed to strengthen areas where Japanese athletes are particularly weak, and new methods for quick recovery from exhaustion.
	R&D on thermoregulation system	MHLW, National Rehabilitation Center for Persons with Disabilities	Developing a thermoregulation system to enable social participation for people with cervical cord injuries and other symptoms that cause difficulty in controlling body temperature
	Enhancing coordination between developers of competition equipment and robotic assistive devices to share information on elemental technologies	MEXT, MHLW, METI, etc.	Organizing a cooperative environment after the 2016 Rio de Janeiro Olympic and Paralympic Games to enhance coordination between developers of competition equipment and robotic assistive devices to share information on elemental technologies

[[]Initiatiú] Promoting development of versatile devices by utilizing technologies including power-suits that reduce physical burde? or enhance functionality. [Initiative] Promoting devices to help people with significant disabilities [Initiation of performance, user-friendly devices for competition and nursing/welfare purposes as well as developing a thermoregulation system

METI : Ministry of Economy, Trade and Industry
 MENUM : Ministry of Health, Labour and Welfare
 NEDD : New Energy and Industrial Technology Development OrganicalMinistry of Internal Affairs and Communications
 AIST : National Institute of Advanced Industrial Science and Technology

Timeline



Timeline

