MEXT STI for SDGs Package

STI for SDGs: Science, Technology and Innovation for Sustainable Development Goals



Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan August 31, 2018 (Formulated) December 21, 2018 (Revised)

* Pages 4-11 include tentative translation.

[Background	i]
Sept. 2015	The United Nations adopted the "2030 Agenda for Sustainable Development" which comprises 17 Sustainable Development Goals (SDGs)
Dec. 2016	SDGs Promotion Headquarters, headed by the Prime Minister, formulated the "SDGs implementation Guiding Principles"
Dec. 2017	"SDGs Action Plan 2018" decided by SDGs Promotion Headquarters
Apr. 2017	MEXT formulated "Basic Policy on Promotion of STI for SDGs" (MEXT Basic Policy)
Jun. 2018	"Extended SDGs Action Plan 2018" decided by SDGs Promotion Headquarters. "Integrated Innovation Strategy" decided by the Cabinet
Aug. 2018	MEXT STI for SDGs Package

- MEXT, putting in order the ways to contribute to the SDGs through MEXT's STI policy measures, formulated the Package to systematically indicate the policy measures necessary to materialize contributions to the SDGs.
- O The Package aimed to go forward to solving various issues related to the SDGs with an integrated approach and possible time line toward 2030, and encourage collaborations between the STI for SDGs policy measures in an organic and cross-field manner. STI for SDGs, based on the principles of the SDGs putting importance on "fostering a participatory approach in which all stakeholders play a role," gives a good opportunity for STI itself (STI ecosystem) to change, too.
- MEXT will strategically and steadily promote the STI for SDGs policy measures included in the Package by appropriately reflecting those measures to the budget request every year, as well as by systematically implementing the measures with a holistic and comprehensive approach.

[Concept of formulating the Package]

- MEXT has contributed to solving issues related to the SDGs by conducting various STI policy measures in the fields of life sciences, environment & energy, space, ocean & earth, disaster prevention & disaster reduction, fostering human resources, international cooperation, etc.
- Having 17 Sustainable Development Goals (SDGs) and 169 Targets in mind, MEXT tries to put in order and systematize current MEXT's STI policy measures, considering their expected outputs and possible future developments, how they can contribute to the achievement of the SDGs, and how integrative outputs can be expected by encouraging collaborations between them.

(The policy measures are categorized into a group of cross-cutting & common effort and four groups of certain width of field. The latter groups are shown with possible time line toward implementing the SDGs.)

Visualizing a system of MEXT's major STI for SDGs policy measures, MEXT would like to expect that interactions and dialogues with various stakeholders will be enhanced, leading to further co-operation and co-creation, through open discussions widely involving stakeholders across fields and sectors. MEXT would like to contribute to "fostering environment" and "developing open platforms." Also, it is important to promote the Package, while timely updating it based on the situations related.



* The Package is promoted bearing in mind having effective collaborations with other policy measures in the fields such as education (Education for Sustainable Development (ESD) for example), sports, culture, and etc.

Address a wide range of issues related to economy, society and environment toward 2030 to realize society in which "no one will be left behind."

9 INDUSTRY, INNOVATIO AND INFRASTRUCTUR 17 FOR THE GOALS

Promote inclusive and sustainable industrialization and foster innovation & revitalize the Global Partnership



STI for SDGs Time-line map of major policy measures





STI for SDGs Time-line map of major policy measures

Make cities and human settlements inclusive, safe, resilient and sustainable

Cities & Disaster Prevention

For the achievement of Goal 11(Sustainable Cities), MEXT aims to contribute to reduce damage from disasters by upgrading survey information about wide range of natural disasters such as meteorological information and oceanographic data, and to reduce comprehensive disaster risk by sharing related information after disaster, establishing warning systems and cooperating with related organizations.





STI for SDGs Time-line map of major policy measures 13 CLIMATE ACTION

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For the achievement of Goal 7 (Energy) and Goal 13 (Climate Action), MEXT aims to contribute to enforce effective plans to climate change through the R&D of advancing climate model, and to realize low carbon society through the R&D of innovative technologies for low carbonization.





(solution)

STI for SDGs Time-line map of major policy measures 3 GOOD HEALTH AND WELL-BEING

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Ensure healthy lives and promote well-being for all at all ages

For the achievement of Goal 3 (Good Health), MEXT aims to contribute to overcome diseases in each research field, and to built the world's most advanced medicines such as regenerative medicine or genomic medicine.

2018	2020	2025	2030
Contribute to overcome disease (AMED) Japanese Initiative for Progravity Epidemic (J-PRIDE) In order to create innovative antibacterial conduct targeting research for finding new Project for Elucidating and C Aging and Longevity Project for Cancer Research (P-CREATE) Promote research to elucidate biological application of groundbreaking medical tree Strategic Research Program Brain Mapping by Integrated Studies (Brain/MINDS)	es in each research field ess of Research on Infectious Disaster f drugs, support Research Centers of infectious diseases in p v seeds for drugs to treat highly pathogenic virulent. Controlling Mechanisms of n and Therapeutic Evolution properties of cancer and research for practical atments and diagnostics. n for Brain Sciences (SRPBS) d Neurotechnologies for Disease	for global particular BSL4 and Cooperate with relevant govern clinical trial, and	Overcome diseases
Contribute to built the world's m genomic medicine [AMED] Research Center Network for Promote R&D for clinical applications of m	ost advanced medicines such as regenerat or Realization of Regenerative Medicine egenerative medicine using iPS cells and drug discovery.	ive medicine or	nt Goal 3 (Good Health) Achieve the world's advanced medicine
Platform Program for Promo Reconstruction of existing BioBanks as a utilizing these research infrastructures too	Ition of Genome Medicine research hub for collaboration, and Promote the target-setti Jether.	ng-type advanced R&D by	is most



Outline of Sustainable Development Goals (SDGs)

Goal 1 (No Poverty)	End poverty in all its forms everywhere
Goal 2 (Zero Hunger)	End hunger, achieve food security and improved nutrition and promote sustainable agriculture
Goal 3 (Good Health)	Ensure healthy lives and promote well-being for all at all ages
Goal 4 (Quality Education)	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
Goal 5 (Gender Equality)	Achieve gender equality and empower all women and girls
Goal 6 (Water & Sanitation)	Ensure availability and sustainable management of water and sanitation for all
Goal 7 (Energy)	Ensure access to affordable, reliable, sustainable and modern energy for all
Goal 8 (Decent Work & Growth)	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
Goal 9 (Industry, Innovation & Infrastructure)	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation
Goal 10 (Reduce Inequality)	Reduce inequality within and among countries
Goal 11 (Sustainable Cities)	Make cities and human settlements inclusive, safe, resilient and sustainable
Goal 12 (Responsible Consumption & Production)	Ensure sustainable consumption and production patterns
Goal 13 (Climate Action)	Take urgent action to combat climate change and its impacts
Goal 14 (Life below Water)	Conserve and sustainably use the oceans, seas and marine resources for sustainable development
Goal 15 (Life on Land)	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss
Goal 16 (Peace)	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
Goal 17 (Partnership)	Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development