Science and Technology Innovation for SDGs

- To think, proceed, and create together with the world -

Teruo KISHI

Science and Technology Advisor to the Minister for Foreign Affairs

Scenario for Session 6 National STI Roadmaps for the SDGs and capacity building Conference Room 4, UN Headquarters New York, 6 June 2018, 10:00 - 11:00

STI for SDGs

Breakthrough in Nutrient Use Efficiency for Rice

by Genetic Improvement and Fertility Sensing Techniques in Africa



Rapid and extensive monitoring of geographical conditions of rice fields and nutrition status of rice plants

using a drone

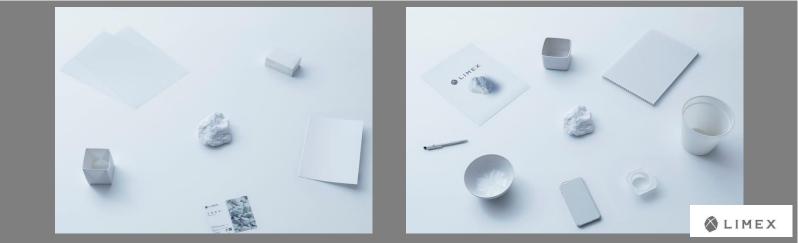




Selection of lines that show high productivity in a local paddy field lacking phosphorus Source: Book of Japan's Practices for SDGs https://www.jst.go.jp/sdgs/pdf/sdgs book en 2017.pdf

Alternative to paper and plastic

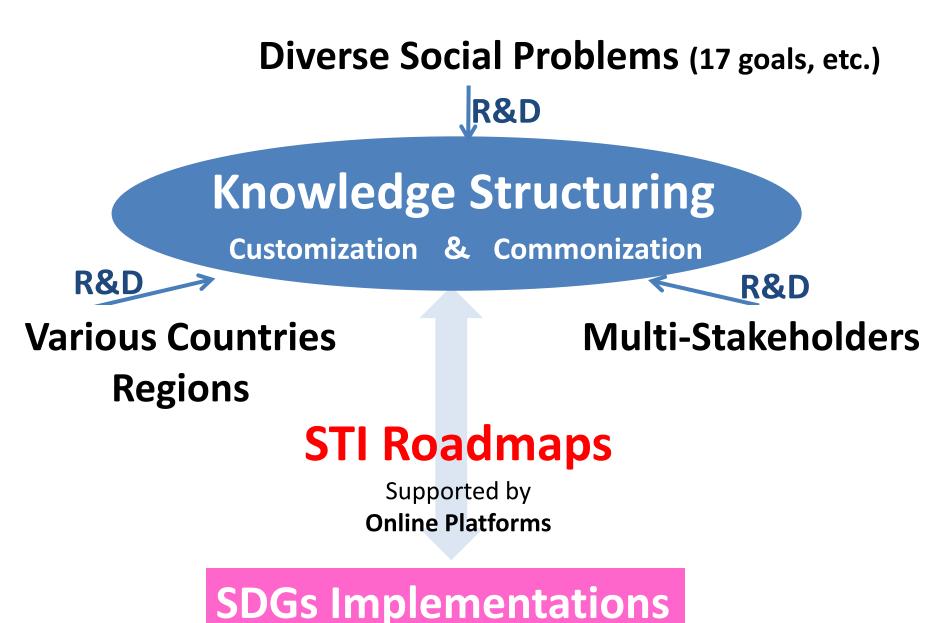
Revolutionary new materials made out of limestone, an abundant natural resource



Source: TBM Co., Ltd. https://tb-m.com/en/

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Maximize the Benefit of STI for SDGs



Overview Structure for SDGs Initiative

Prime Minster

The SDGs Promotion Headquarters

Chief of Headquarters: Prime Minister Deputy chief: Chief Cabinet Secretary, Minister of Foreign Affairs Members of Headquarters: All other Ministers of State

The SDGs Promotion Roundtable Meetings

- NGOs / NPOs
- Academia
- Private Sector
- International Organizations
- Various Organizations

Council for Science, Technology and Innovation (CSTI)

STI for SDGs Task Force

Relevant Ministries and Agencies

Academia

(Univ. of Tokyo)

Private Sector (Keidanren, JIN)

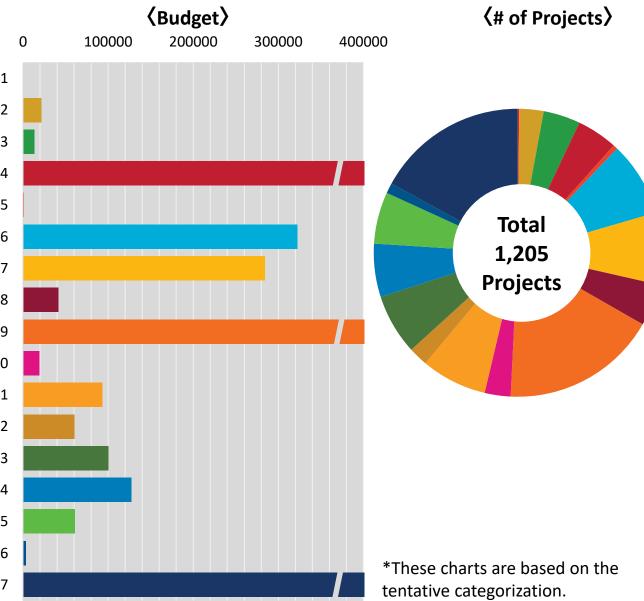
Int'l Organizations (World Bank)

Affiliated Organizations (JST, NEDO, The Engineering Academy of Japan) Office for the Promotion of Overcoming Population Decline and Vitalizing Local Economy

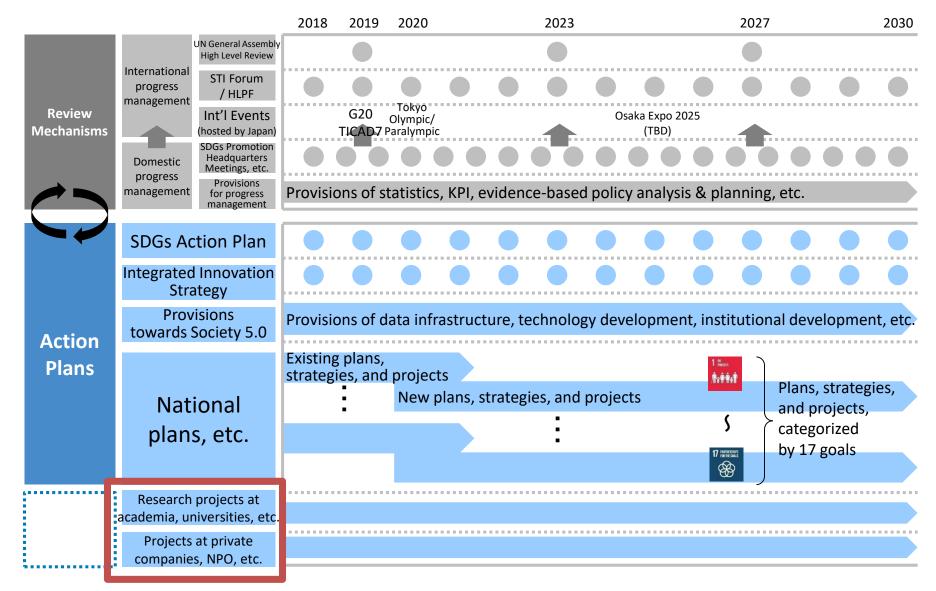
> Local SDGs Task Force

STI Projects, categorized by 17 Goals (under investigation)

	# of Projects	Budget (million yen)	0	
1	2	106	1	
2	33	21,433	2	
3	50	13,379		
4	55	1,118,534	3	
5	6	789	4	
6	101	322,473	5	
7	97	284,327	6	
8	57	41,603	7	
9	211	633,823	8	
10	35	19,243	9	
11	89	93,172	10	
12	26	60,305	11	
13	82	100,418	12	
14	72	127,183	13	
15	70	60,890	14	
16	14	3,413	15	
17	205	832,403	16	
total	<u>1,205</u>	<u>3,733,490</u>	17	

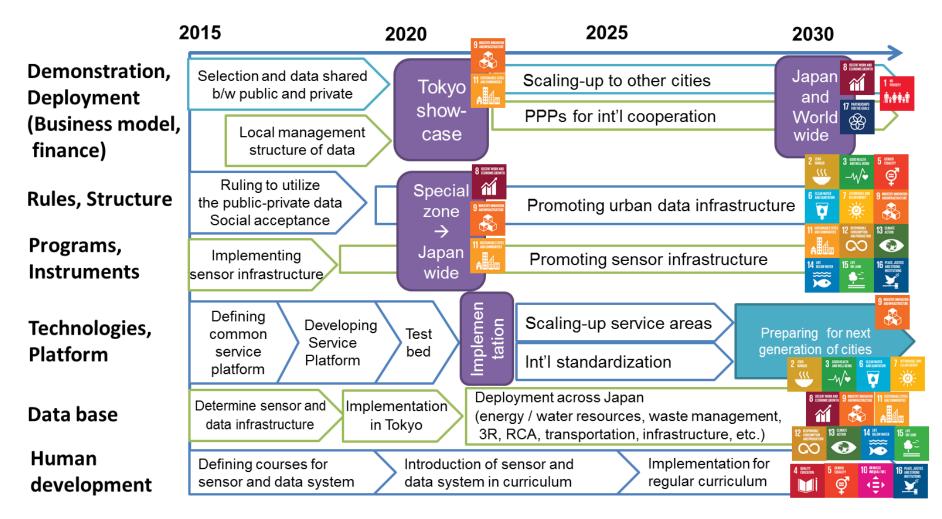


STI for SDGs Roadmap (draft)



Example of the Roadmaps

Digitized and optimized activities in urban cities by Public and Private Partnership



* Prepared by JST based on various references

Recommendation for the Future STI as a *Bridging Force* to Provide Solutions for SDGs implementations

- 1. Change through Innovation: Global Future Creation through Society 5.0
- 2. Grasp and Solve: Solution Enabled by Global Data
- 3. Link across Sectors, Unite across the Globe
- 4. Foster Human Resources for "STI for SDGs"

STI can contribute to the achievement of the SDGs as a "bridging force"

Reference

Japan's experience to fight against pollution

City of Yokkaichi around 1970



Public-Private Partnerships

- Policy/Laws/ Social systems
- Business/ Investment
- Research and Development/ Capacity Building

City of Yokkaichi today



From now,

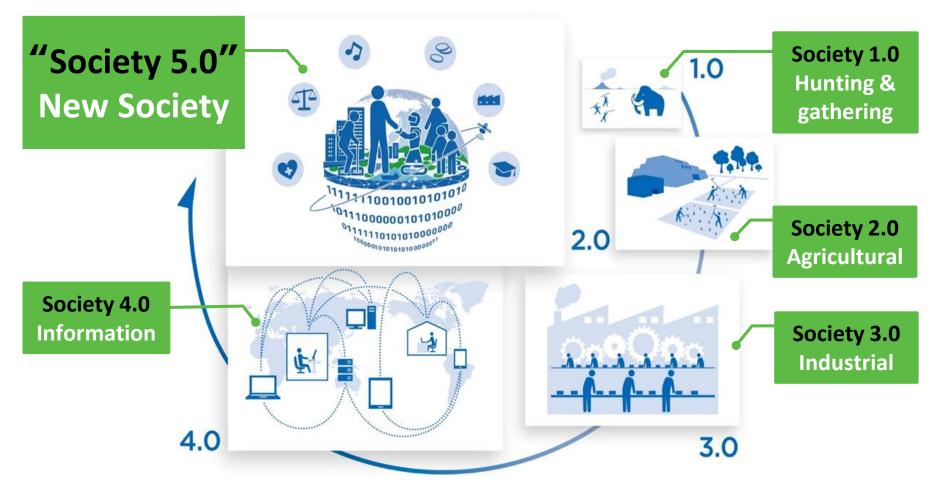
+ Data analysis and integration

Source: Presentation of Dr.Michiharu Nakamura at STI Roadmaps for SDGs-Expert Group Meeting May 8-9, Tokyo https://www.ist.go.jp/sdgs/pdf/20180508/20180508_opening_4.ddf

http://yokkaichi-kougai.www2.jp/index.php/siryo/2011-02-17-13-36-32/103-2011-02-12-05-09-10.html

What is "Society 5.0"?

Realize the advanced fusion of cyberspace and physical space, To balance economic advancement with the resolution of social problems, Bring about a human-centered society





Visibility of Japan's Practices

- A collection of various practices for implementing the SDGs in Japan by private sectors, research institutes, universities and other NGOs was printed and distributed in the sideevent at the 2017 STI forum.
- This book was also introduced by Co-chair of the STI forum, Macharia Kamau, Permanent Representative of Kenya to the UN, in the opening session, as one of three leading actions across the world.

