

Framework of 'STI for SDGs Roadmap' – case in Japan

May 8th, 2018

Science, Technology and Innovation Policy

Cabinet Office, Japan



Current Status of Japan – Strength and Weakness

- Japan is ranked 11th in the SDG Index and Dashboards Report 2017. (reported by the Bertelsmann Stiftung, 2017)
 - The report indicated Japan's weakness such as SDG 1, 2, 5, 7, etc.
- Serious national challenges
 - Declining birth rate and rapidly aging population
 - Gap and Separation, large enterprises and SMEs, urban and rural area
 - Uncertainty for societal and economical sustainable growth



Achieving SDGs is identical with solving Japan's social issues

- **How can Japan overcome these challenges**
 - **5th Science and Technology Basic Plan (Apr.2016)**
 - **A new concept “ Society 5.0”**
- **Formulating “Roadmap of STI for SDGs” announced by the Prime minister (Dec.2017)**

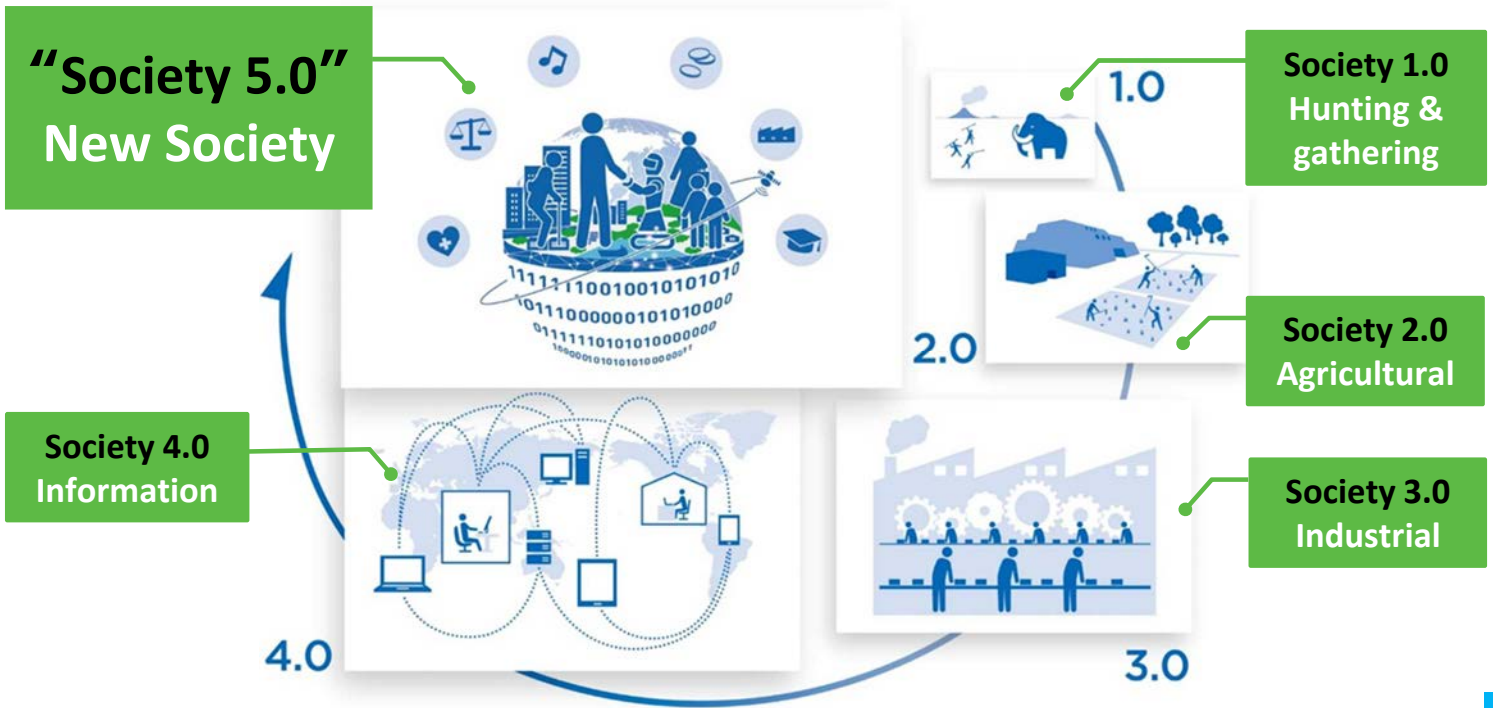
Concept of “Society 5.0”

- **“Society 5.0”**
 - **The basic concept: "human-centered" society pursuing human well-being and happiness released from physical restrictions**
 - **Same idea aimed at SDGs which is " No one will be left behind"**
- **Preparing new national innovation strategy**
 - **Specify policy package for realizing “Society 5.0”**
 - **Solution through IoT and AI for addressing social challenges, etc.**
 - **Data exchange platform**
 - **Reform of ecosystem of innovation for improving the effectiveness and productivity of STI.**

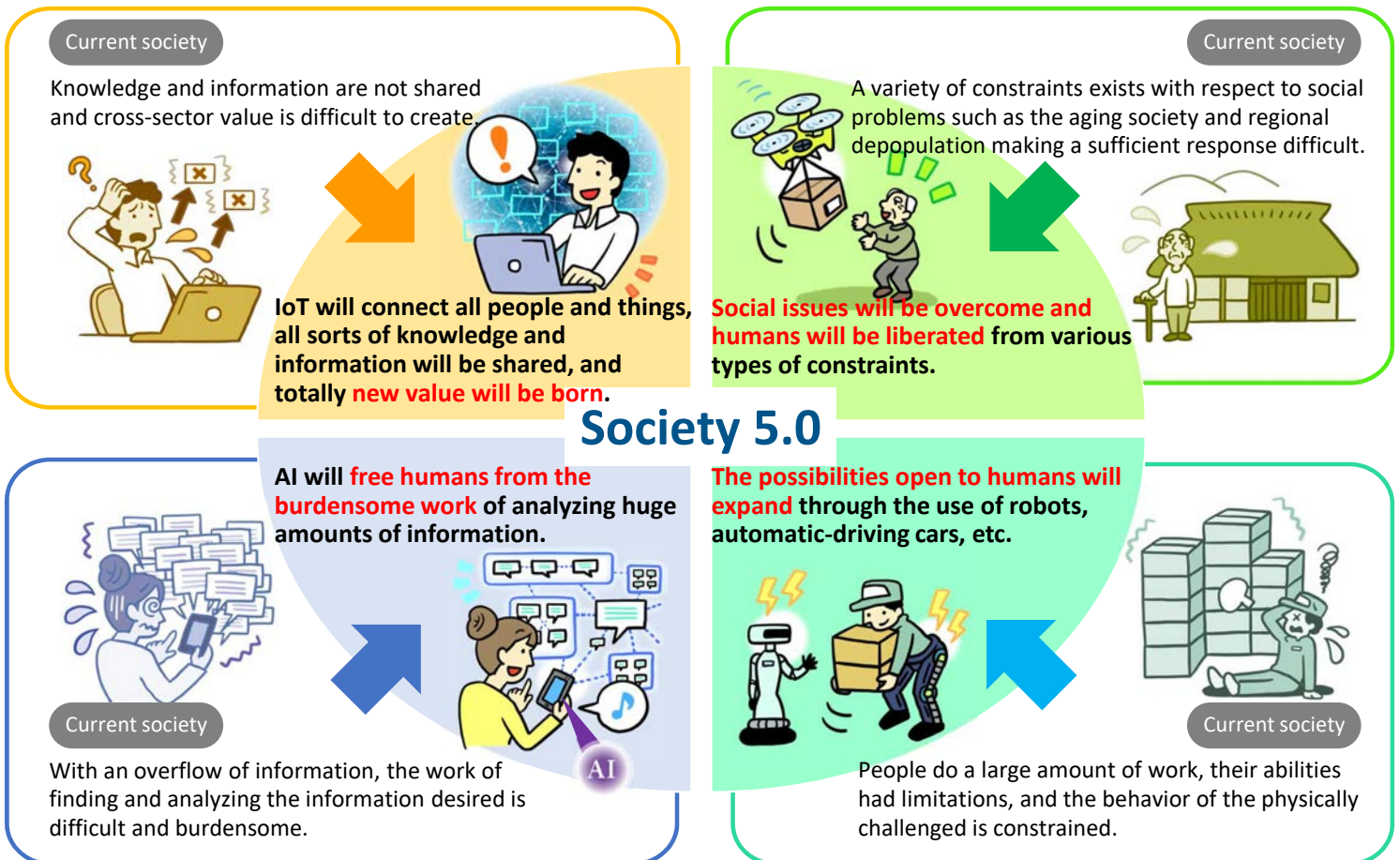
Society 5.0

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



Society 5.0

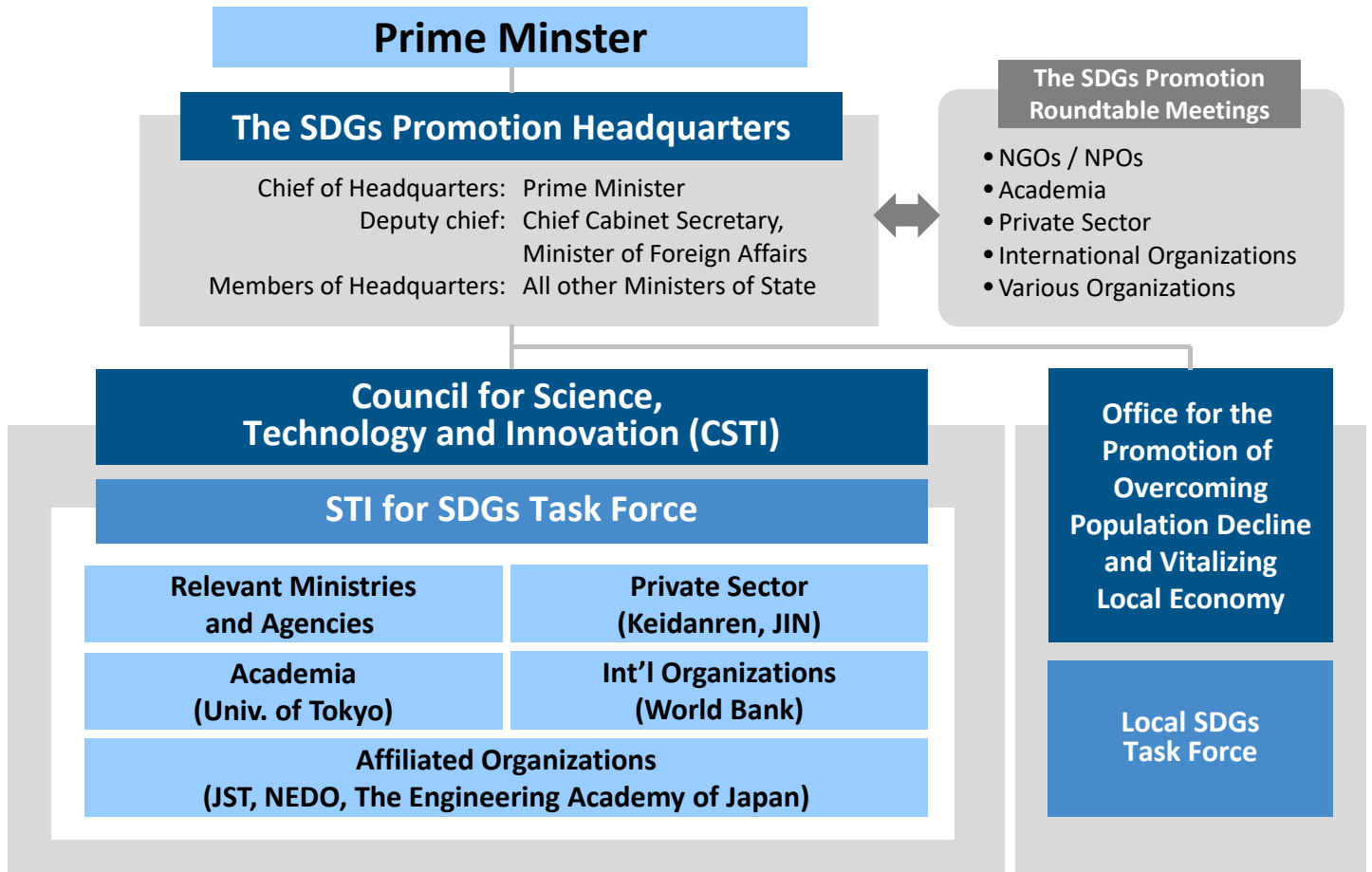




Implementation Framework for SDGs Initiative

- Leadership of Prime Minister
- Multi-stakeholder Engagement related to the SDGs; ministries, local government, NGO/NPO, universities
- Council for Science, Technology and Innovation (CSTI) of Cabinet Office is promoting “STI for SDGs”

Overview Structure for SDGs Initiative



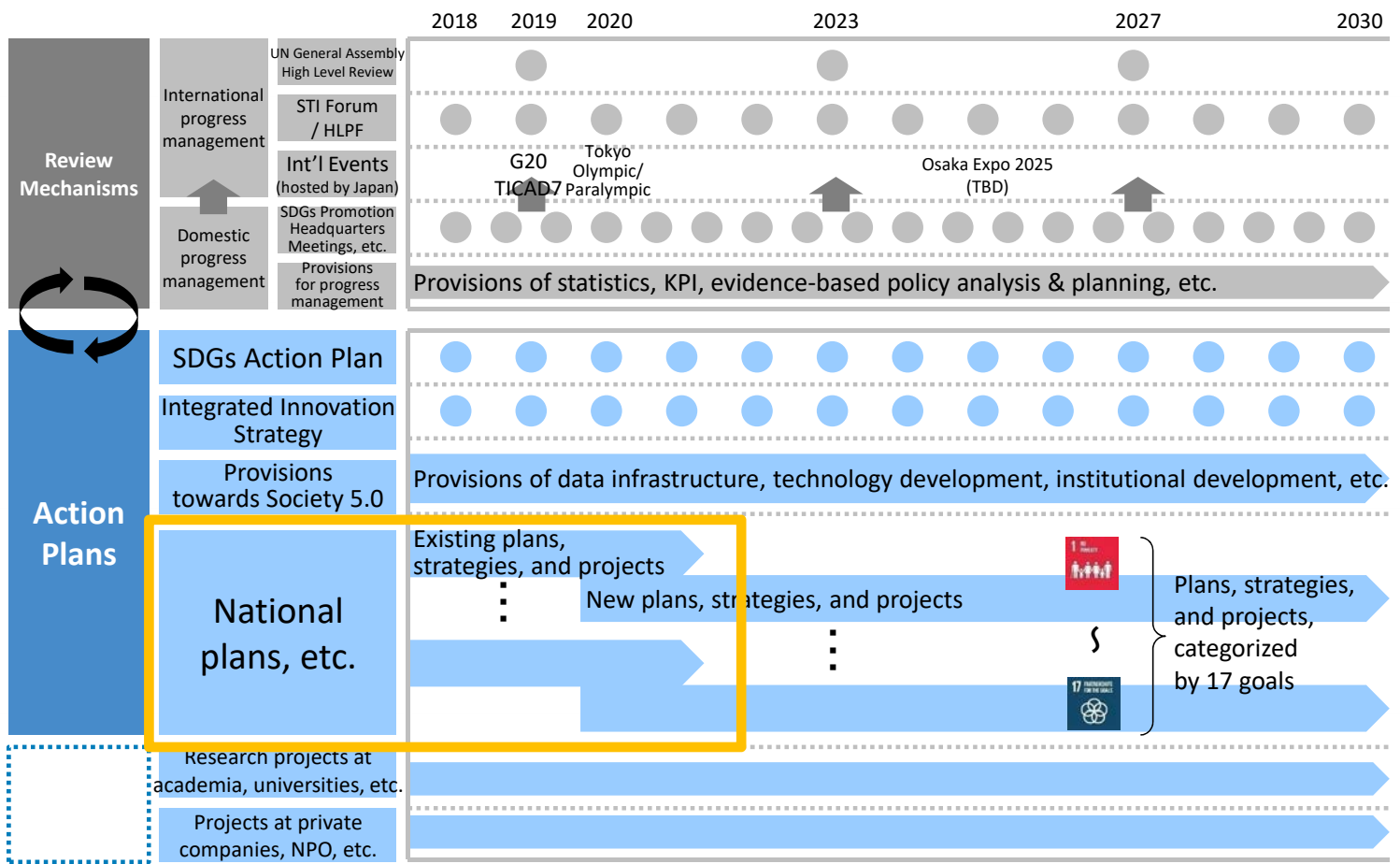
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Formulating STI for SDGs Roadmap

- Analyzing national policies and plans related to 17 SDGs based upon concrete roadmap for realization of the “Society 5.0”
- Integrating the elements into STI for SDGs Roadmap
- Disruptive innovation for realization “Society 5.0”; AI most important component targeting human resources development
- Specify concrete milestone to achieve the SDGs in national plans and strategies
- Further consideration of national review mechanisms to promote the roadmap
- Realization for “Society 5.0” will be contribute to achieve to the SDGs

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STI for SDGs Roadmap (draft)



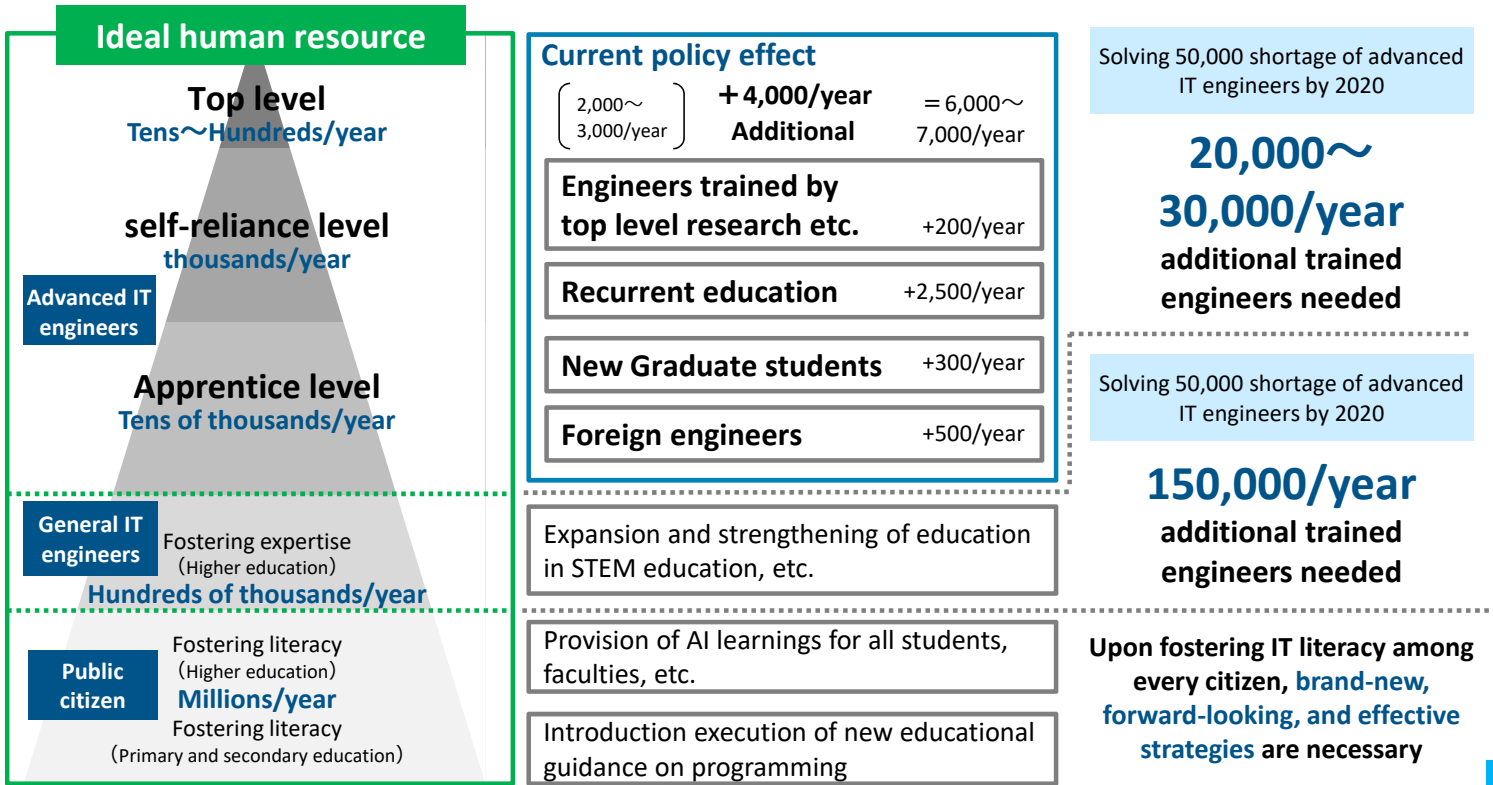
STI for SDGs Roadmap (draft)

Existing National Plans and Strategies	Time frame					SDGs																	
	2018	2019	2020	2021	2022	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Against child poverty Charter	█					█			█														
Basic Plan for Agriculture, Forestry and Fisheries Research	█	█																					
The Third Basic Plan for Dietary Education	█	█	█																				
The Second Basic Plan for the Promotion of Education																							
The fourth Basic Plan for Gender Equality	█	█	█																				
Basic Plan for Water Resource Development	█	█	█	█	█																		
Strategic Energy Plan	█	█	█																				
The Fifth Science and Technology Basic Plan	█																						
Intellectual Property Strategic Program 2017	█																						
The Fourth Basic Environment Plan	█																						
Basic Plan on Ocean Policy	█																						
Development Cooperation Charter	█	█	█	█	█																		

█ : Primary Goal █ : Secondary Goal

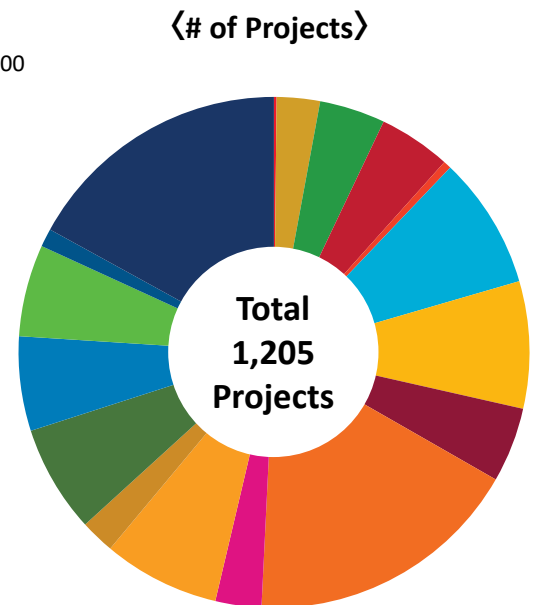
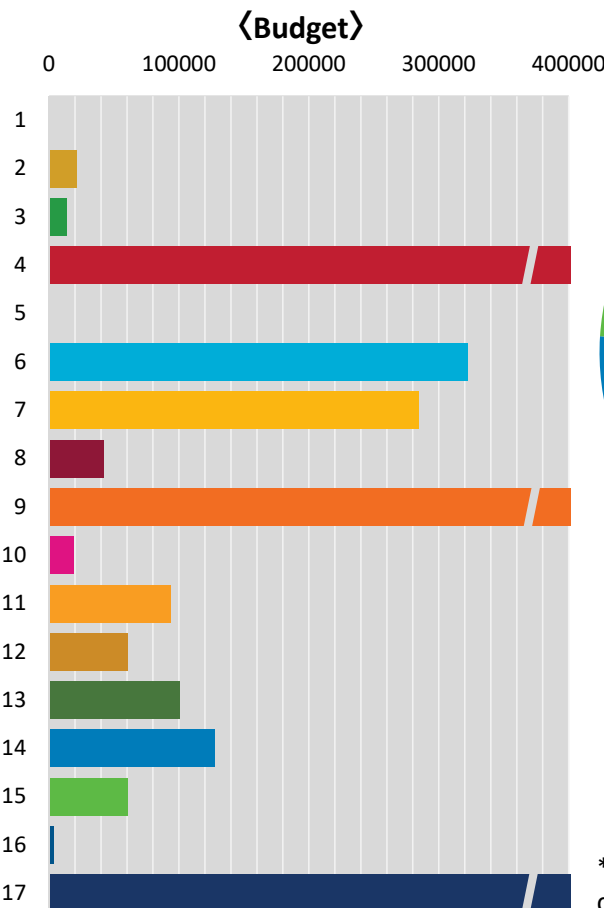
AI / IT-Human Resource Development, corresponding to the disruptive innovation

In AI era, training of advanced/general IT human resources and IT users is crucially important. In Japan, it is expected that approximately shortage of 50,000 advanced IT engineers and 300,000 general IT engineers in 2020. It is urgent necessity to train about 2~30,000 additional advanced IT engineers and about 150,000 general IT engineers annually.



STI Projects, categorized by 17 Goals (under investigation)

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



*These charts are based on the tentative categorization.

International Contribution as of Japan

- **Contribution on Roadmap**

Extracting principal elements and co-developing ‘Guideline’ on how to formulate STI for SDGs Roadmap at country and international levels, taking into account various experiences including Japan

- **Contribution on Seeds-Needs matching**

Essential characteristic of international contributions from Japan i.e., Win-Win approach through nourishing burgeoning business
 ⇔ one time ODA, unsustainable infrastructure, etc...

International Collaboration (draft)

		UN-related occasions	Int’l occasions in Japan
<u>2018</u>	MAY		EGM Experience sharing on formulation of STI Roadmap including that of Japan
	JUN	STI Forum 2018 Shaping general consensus on common elements/guiding principles, possible frameworks/methodologies for country level STI Roadmaps ↓	
		Peer learning on STI Roadmap	
<u>2019</u>	JUN	STI Forum 2019 Addressing Int’l STI Roadmaps and country-specific action plans ↓	G20 Summit 2019 Proposal for joint action plans on ‘STI for SDGs’ Among G20 economies
	JUL	HLPF (High Level Review) Review on progress on ‘STI for SDGs’ at country and international levels	
	AUG		
<u>2020</u>			TICAD7 Strengthening collaboration among African countries and Japan on ‘STI for SDGs’
<u>2024</u>		HLPF (High Level Review) Review on progress on ‘STI for SDGs’ at country and international levels	Tokyo Olympic/Paralympic (Showcase for Japan’s ‘STI for SDGs’)
			Osaka Expo 2025 (TBD) (Showcase for Japan’s ‘STI for SDGs’)

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SUSTAINABLE DEVELOPMENT GOALS 17 GOALS TO TRANSFORM OUR WORLD



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