Our contribution to the SDGs through standardization activities

Hideyuki Iwata

President, Director-General
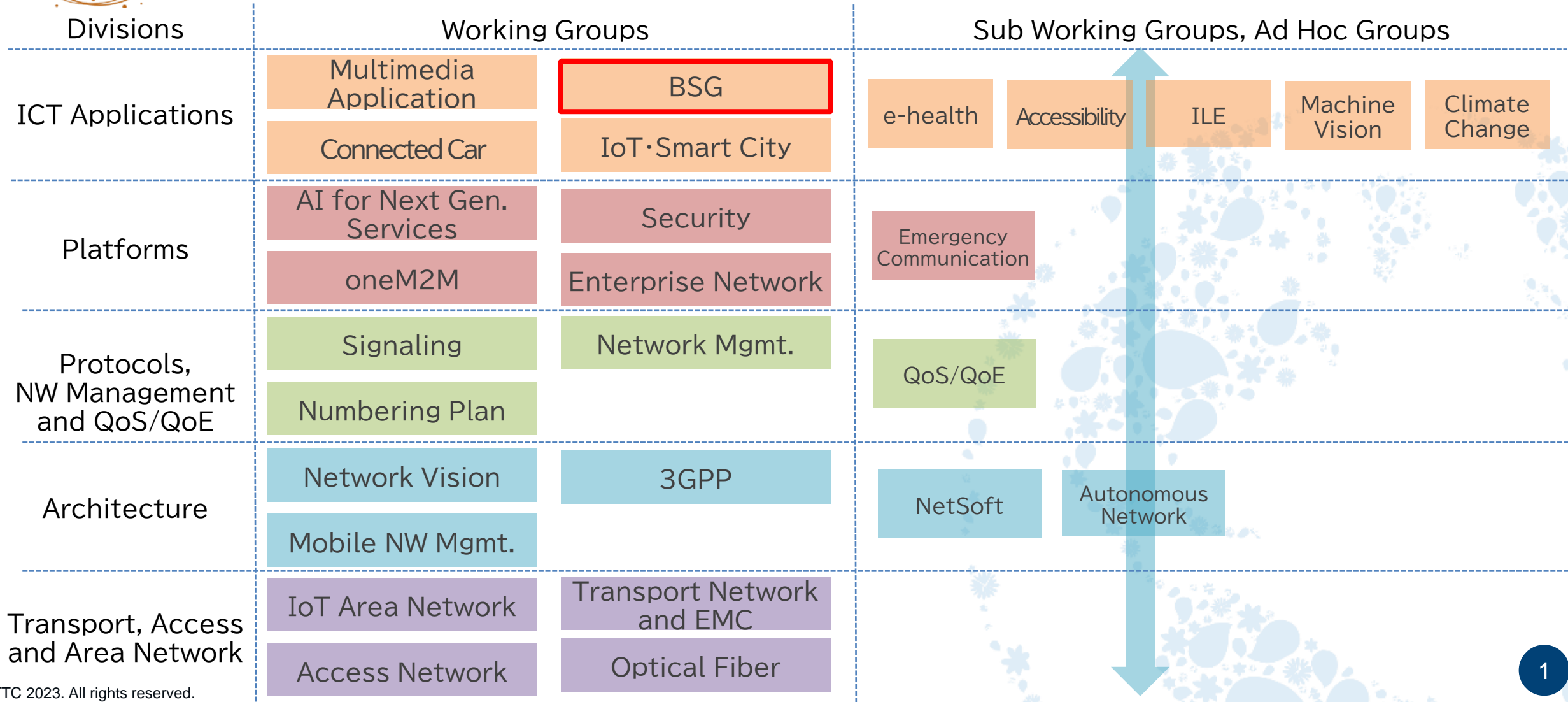
The Telecommunication Technology Committee

27/04/2023

TTC Working Group

Divisions	Working Groups		Sub Working Groups, Ad Hoc Groups				
ICT Applications	Multimedia Application	BSG	e-health	Accessibility	ILE	Machine Vision	Climate Change
	Connected Car	IoT·Smart City					
Platforms	AI for Next Gen. Services	Security	Emergency Communication				
	oneM2M	Enterprise Network					
Protocols, NW Management and QoS/QoE	Signaling	Network Mgmt.	QoS/QoE				
	Numbering Plan						
Architecture	Network Vision	3GPP	NetSoft	Autonomous Network			
	Mobile NW Mgmt.						
Transport, Access and Area Network	IoT Area Network	Transport Network and EMC					
	Access Network	Optical Fiber					

SDGs and standardization activities 1/2

TTC is committed to addressing social issues through our standardization activities. Each year, TTC working groups publish a standardization strategy that maps each working group's standardization activities and SDGs goals.

			TTC Working Groups																	TTC Advisory Groups		
			Transport, Access and Area Network				Architecture			Protocols, NW Management and QoS/QoE			Platforms				ICT Applications					
			Transport Networks and EMC	Access Network	Optical Fiber	IoT Area Network	Network Vision	3GPP	Mobile Network Management	Signalling	Network Management	Numbering Plan	AI for Next Gen. Services	oneM2M	Security	Enterprise Network	Multimedia Application	Connected Car	BSG	IoT · Smart City	Global Collaboration	Technology Research	Capacity Building
Sustainable Development Goals	1	NO POVERTY		✓				✓	✓	✓			✓			✓			✓	✓	✓		
	2	ZERO HUNGER		✓				✓	✓	✓			✓							✓	✓		
	3	GOOD HEALTH AND WELL-BEING	✓	✓				✓	✓	✓			✓			✓	✓		✓	✓	✓	✓	
	4	QUALITY EDUCATION		✓				✓		✓			✓			✓			✓	✓	✓		✓
	5	GENDER EQUALITY		✓				✓		✓			✓			✓			✓	✓	✓		✓
	6	CLEAN WATER AND SANITATION		✓				✓	✓	✓			✓							✓	✓		
	7	AFFORDABLE AND CLEAN ENERGY	✓	✓		✓		✓	✓	✓			✓	✓		✓			✓	✓	✓	✓	

Sustainable Development Goals	TTC Working Groups																		TTC Advisory Groups		
	Transport, Access and Area Network				Architecture			Protocols, NW Management and QoS/QoE			Platforms				ICT Applications						
	Transport Networks and EMC	Access Network	Optical Fiber	IoT Area Network	Network Vision	3GPP	Mobile Network Management	Signalling	Network Management	Numbering Plan	AI for Next Gen. Services	oneM2M	Security	Enterprise Network	Multimedia Application	Connected Car	BSG	IoT・Smart City	Global Collaboration	Technology Research	Capacity Building
8 DECENT WORK AND ECONOMIC GROWTH	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10 REDUCED INEQUALITIES		✓			✓					✓			✓	✓			✓				
11 SUSTAINABLE CITIES ANS COMMUNITIES	✓		✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
12 RESPONSIBLE COSUMBTION AND PRODUCTION	✓			✓			✓					✓		✓						✓	
13 CLIMATE ACTION	✓	✓		✓		✓	✓	✓			✓			✓			✓	✓	✓	✓	
14 LIFE BELOW WATER		✓			✓	✓	✓				✓						✓	✓	✓		
15 LIFE ON LAND		✓			✓	✓	✓				✓						✓	✓	✓		
16 PEACE, JUSTICE AND STRONG INSTITUTIONS		✓				✓		✓			✓	✓					✓	✓	✓		
17 PARTNERSHIPS FOR THE GOALS	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓

Developing IoT human resources in rural areas using APT projects

Philippines/Thailand (e-Agriculture) @2009~

Malaysia/Kuching (e-Education) @2010~

Philippines (e-Aquaculture) @2010/4 ~

Malaysia/ Kuching (e-Healthcare) @2021/4~

Malaysia/ Kuching (Knowledge Data Server) @2019/1~

Malaysia/ Bario (e-Education) @2011/4~

Indonesia/West Sumatra (e-Office) @2009/4~

Indonesia/West Sumatra (e-Healthcare) @2008~

Indonesia/ Palangkaraya (e-Environment) @2011/5~

Vietnam/Ho Chi Minh City (e-Aquaculture) @2015/3 ~

4

Solving social issues
Contribution to reducing CO2 emissions in Indonesia

- Antenna & Lightning pole
- Network (WiFi)
- Field server
- CO2 amount
- Temperature
- Humidity
- Visual image
- Precipitation

- Wind Speed
- Methane
- Water Level
- Solar panel
- Battery and Charger control

Image © 2011 TerraMetrics
© 2011 Tele Atlas
© 2011 Europa Technologies
lat -2.320810°   lon 114.048921°   elev   8 m
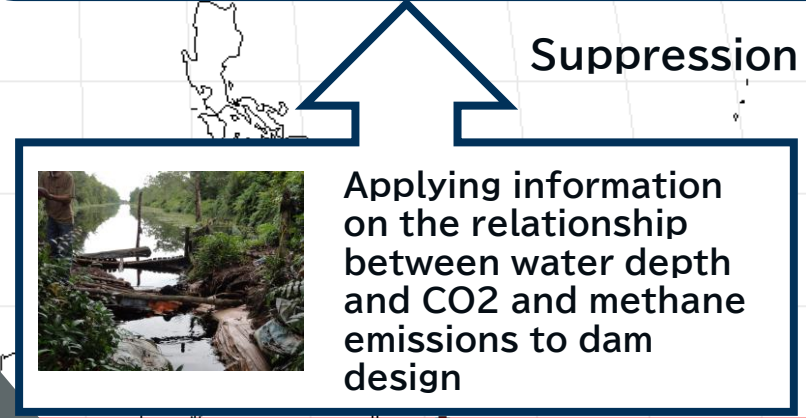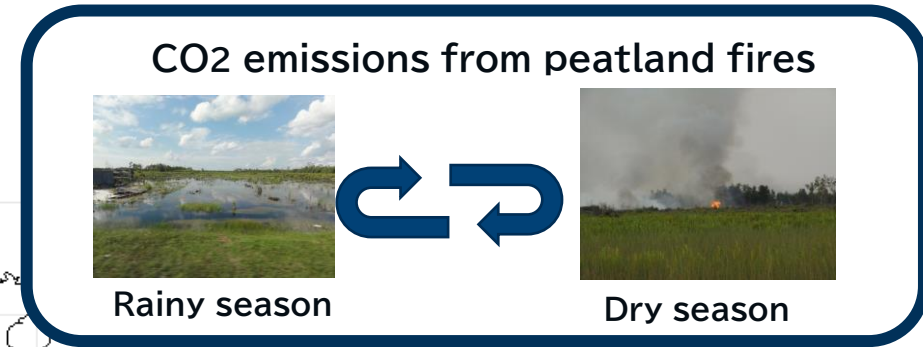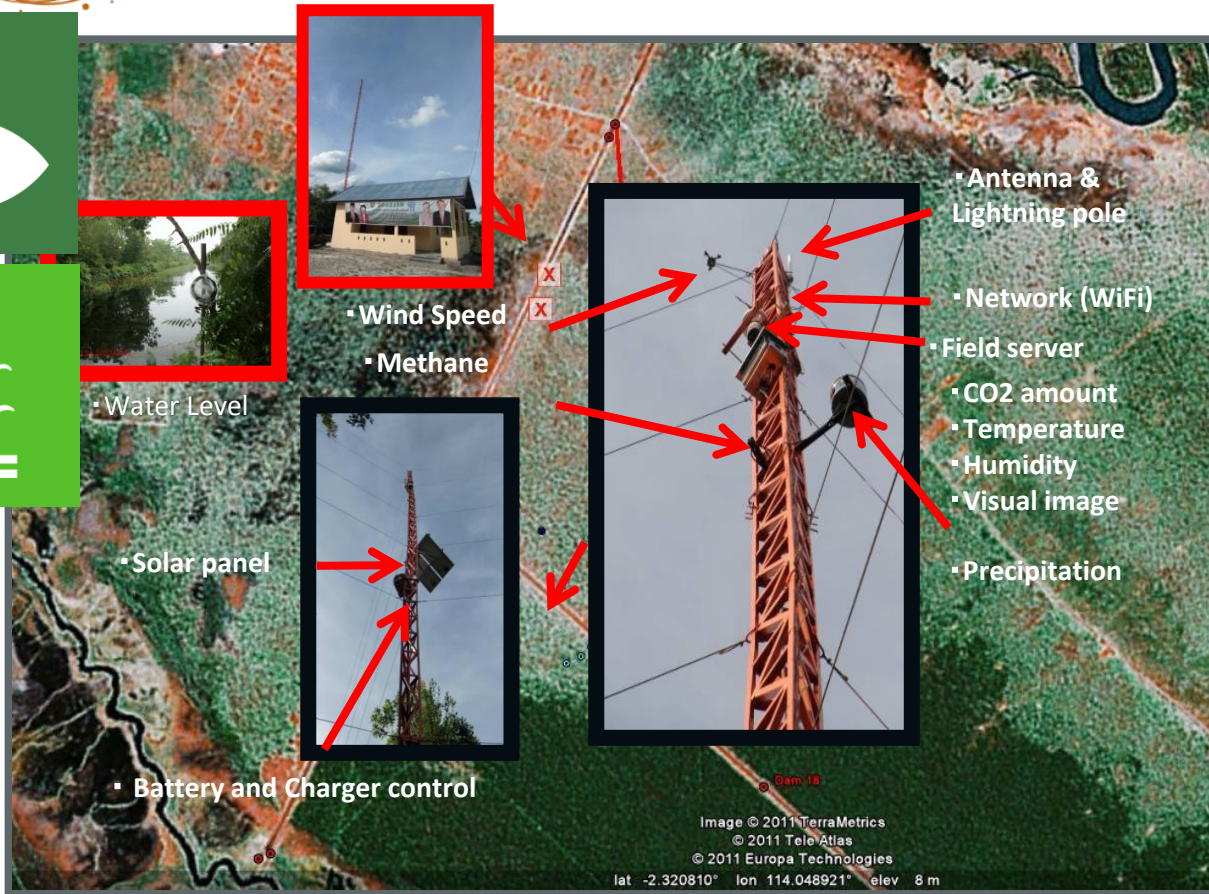
Kalimantan Palangkaraya, central Indonesia (2011 -)

CO2 emissions from peatland fires

Rainy season   Dry season

Suppression

Applying information on the relationship between water depth and CO2 and methane emissions to dam design

13 CLIMATE ACTION

15 LIFE ON LAND

5 GENDER EQUALITY

4 QUALITY EDUCATION

5

Solving social issues
Suppression of death due to lack of oxygen in aqua products

Suppression of acid depletion in cultured fish

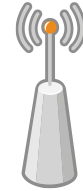Improvement of shrimp aquaculture production

Lake Parapakin, Philippines （2013-）   Mekong, Vietnam （2017-）

Solving social issues
Construction of e-Health and e-Education systems in rural areas
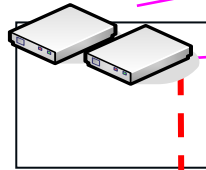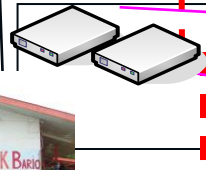
Development and dissemination of various standards

APT Reports Developed by ASTAP EG BSG

◆ **APT Report on "Handbook to Introduce ICT Solutions for the Community in Rural Areas"**   **June 2019**

APT/ASTAP/REPT-13 (Rev.3)

◆ **APT Report on Requirements of Information and Communication System Using Vehicle during Disaster**   **September 2015**

APT/ASTAP/REPT-21

Publishing Programme for ICT Policy and Development

☐ **(Implemented Projects for 2015)**
Handbook for ICT Projects for Rural Areas -
The Telecommunication Technology Committee(TTC),Japan

☐ **(Implemented Projects for 2016)**
Reserch Reoprt on "Smart City" in Asia Pacific Region
The Telecommunication Technology Committee(TTC),Japan

HANDBOOK for ICT Projects for RURAL AREAS

RESEARCH REPORT ON "SMART CITY" IN ASIA PACIFIC REGION
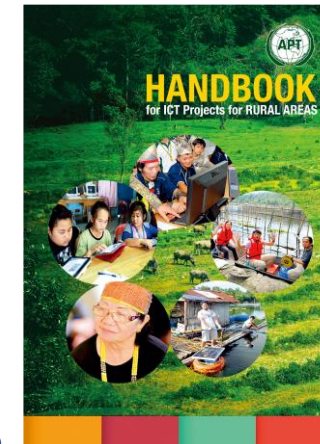
Thank you for your attention

Any further questions?

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