

New Information and Communications Policy for IoT/ Big Data Era

- Consulting the Information and Communications Council about a new information and communications policy for IoT/ Big Data era.
- Planned to establish a dedicated sub-committee under the Information and Communications Policy Committee.

Overview

- As the IoT/ Big Data era arrives, use of enormous amounts of collected data in a wide range creates new merits. Success of such use becomes decisively important not only for international competitiveness but as a solution for social problems and also for productivity improvement and job creation through investment in growing sectors.
- In order to achieve such management innovations and social change, issues such as open IoT/ Data and response to privacy and security concerns should be addressed while intensively studying networks appropriate for the IoT era and creation of international rules.

<<Actions in other countries>>

- In the U.S., the “Global City Teams Challenges”, the industry-government-academia initiative led by the National Institute of Standards and Technology (NIST) and the “Industrial Internet Consortium” established by leading ICT companies operate testbeds and share findings.
- In Germany, “Industrie 4.0” in which the federal German government participates (such as ministries of Economic Affairs and Energy and Education and Research) promotes and encourages penetration. The government supports R & D and standardization.

Items expected to be reported

1. Policy to achieve management innovations and social change by IoT/Data
2. Information and communications infrastructures improvement to support IoT
3. International cooperation in accordance with the IoT era
4. Other items which would be necessary

Schedule

September 2015 Consultation to the Information and Communications Council

Around December 2015 Interim report (1)

Around March 2016 Interim report (2)

June 2016 Final report

Output

Will be incorporated into the improvement of legal systems and budget as necessary

Target

"T" is "something familiar"

- Focus on "Ts" such as IC cards, Network robots, Automobiles, TVs, and Wearable devices
- Aim to create new businesses as well as to solve social problems including medical and education issues
- Quantify impact in terms of productivity improvement and job creation



Policy

Upgrade infrastructure and establish new rules

- Renew funds to upgrade advanced wireless infrastructures
- Launch test beds on areas where Japan has an advantage, through which enabling technologies (e.g. authentication) are to be identified and standardized
- Introduce new rules for data usage and have them harmonized globally



Approach

Address trade-offs from a user's viewpoint

- Collection and analysis of data ever closer to individual lives versus data security and privacy
- Growth of global/national platforms versus equal participation of various market players
- Issues are to be addressed from a user's viewpoint

Information and Communications Council (General Assembly)

Information and communications technology study group

Information and communications policy group

Items for fundamental and comprehensive policy, or measures for future internet development

Telecommunication business policy group

Postal policy group

ITUgroup

Broadcasting system committee

IP network equipment committee

Land radio communication committee

Advanced mobile communication committee

Aeronautical and maritime radio communication committee

Satellite communication system committee

Electromagnetic Environment committee

Technology Strategy committee

Telecommunication system committee

Frequency management and work plan committee

radio propagation committee

Satellite and Science service committee

Land service committee

Broadcasting service committee

IoT policy committee

Newly-established

Access policy committee

Universal policy committee

Telecommunication number policy committee

Telephone network migration facilitation committee

The members list of IoT policy committee (Honorific titles are omitted.)

氏名	主要現職
Jun Murai	Dean/Professor, Faculty of Environment and Information Studies, Keio University
Shiro Tanikawa	Chief Corporate Counselor Nomura Research Institute, Ltd.
Hiroyuki Morikawa	Professor Research Center for Advanced Science and Technology, The University of Tokyo
Yoshihisa Aono	Cybozu, Inc. CEO and President
Nobuhisa Abe	Mizuho Financial Group, Inc. Incubation Project Team General Manager
Toshiyuki Inoko	Founder of teamLab
Kazumasa Iwata	President, Japan Center for Economic Research
Yukako Uchinaga	Board Chair, J-Win (Japan Women's Innovative Network) Non-Profit Organization
Minoru Etoh	Ph. D. Senior Vice President NTT DOCOMO, INC.
Kuniaki Kaga	The KAITEKI Institute, Inc. Representative Director, Member of the Board, President
Yuriko Kato	M2labo.co President
Noboru Koshizuka	Professor, Interfaculty Initiative in Information Studies, The University of Tokyo
Kaoru Sunada	Executive Research Fellow Associate Professor Center for Global Communications (GLOCOM), International University of Japan
Emi Takemura	Managing Director Pratix Asia Pte Ltd
Hajime Tamaoki	Group Senior Vice President, CIO
Keiji Mitsuyuki	DENSO CORPORATION Information Strategy Planning Division Director
Manabu Miyasaka	Yahoo Japan Corporation President & CEO

※observer: related ministries

