

- Future Vision: Digital Impacts on Growth and Society -

**ICT Policy in Japan for the Internet of Things (IoT)
/Big Data (BD)/ Artificial Intelligence (AI) Era**

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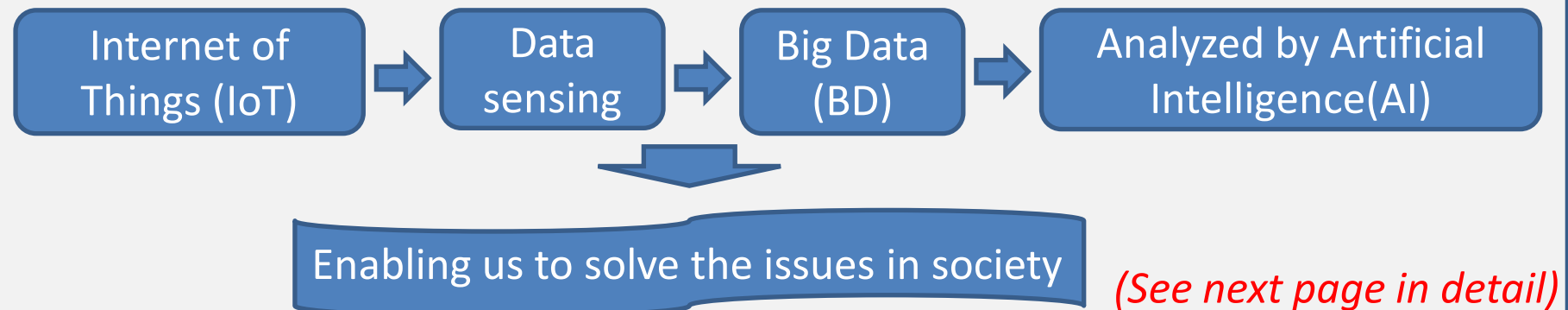
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Digitalization: the combination of 0 and 1.
Through digitalization, data can be processed by computers and computers capacity and technological advancements increase year by year.

Recent Trends



Another example is Digital Terrestrial Television (DTT).
Integrated Service Digital Broadcasting-Terrestrial (ISDB-T) will enable

- 1) Data broadcasting,
- 2) Mobile reception (one-SEG) and
- 3) Disaster prevention, such as the Emergency Warning Broadcasting System (EWBS),

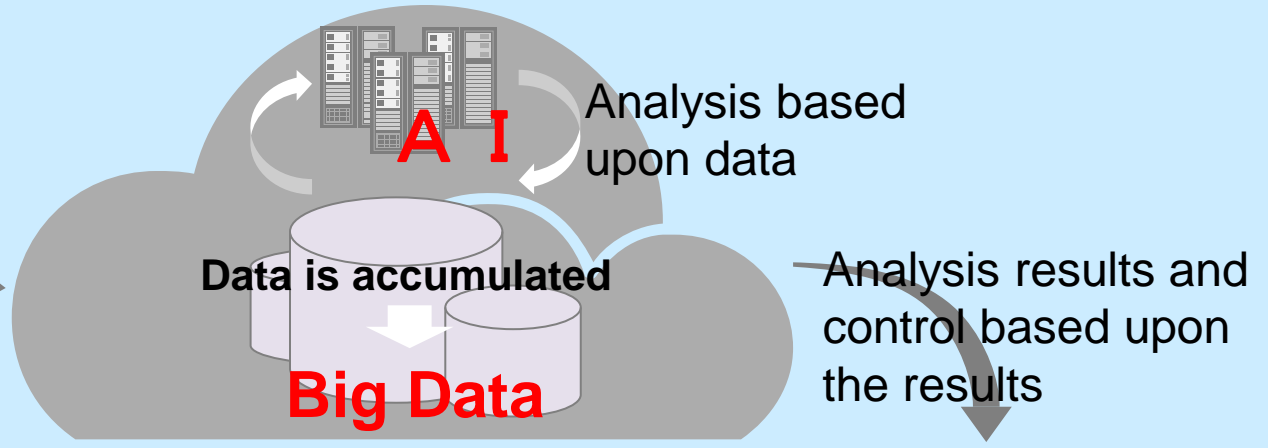
thus solving social and economic issues, digital and regional divides.

Creation of New Values through IoT, Big Data and AI

■ New ICTs such as IoT are expected to play a more important role through the improvement of productivity in the companies and the creation of new products and services.

Cyber Space

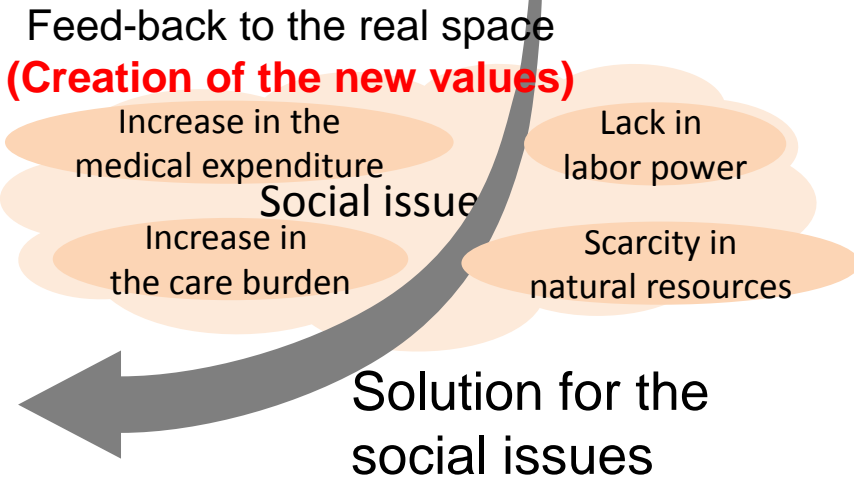
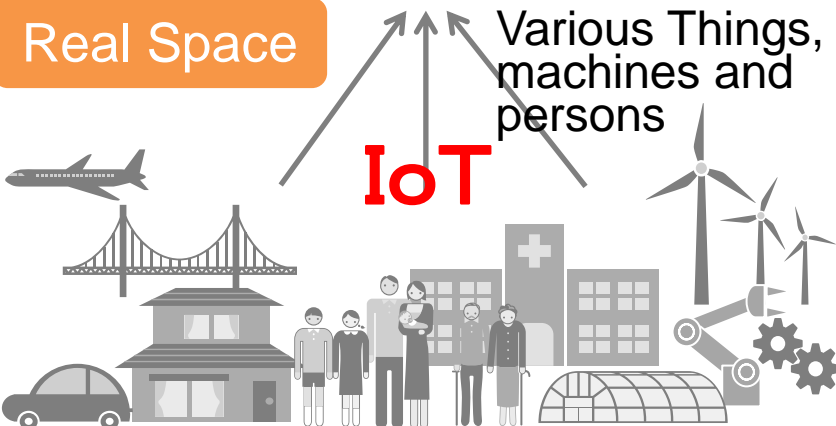
Transmission of the data in a real space



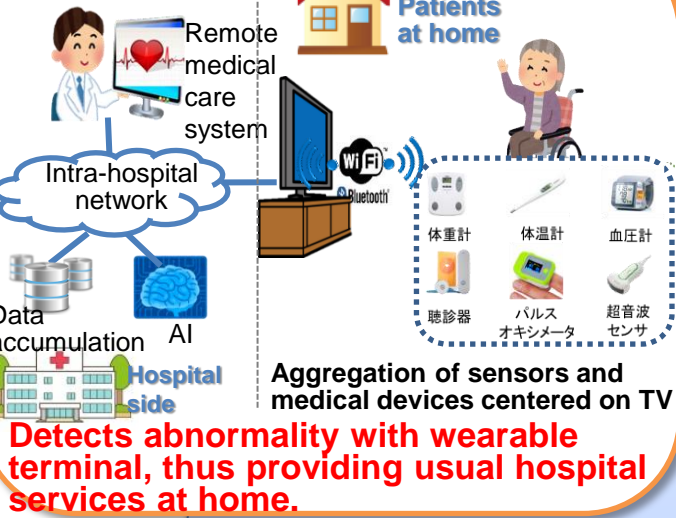
Sensing, digitalization, conversion or extraction of data



Real Space



Healthcare



Challenges of achieving social changes

Data utilization and application

- Development of utilization and application rules to promote the proactive use of a vast amount of data.
- Utilization of AI and robots that will ensure highly advanced, instantaneous data processing and distribution.

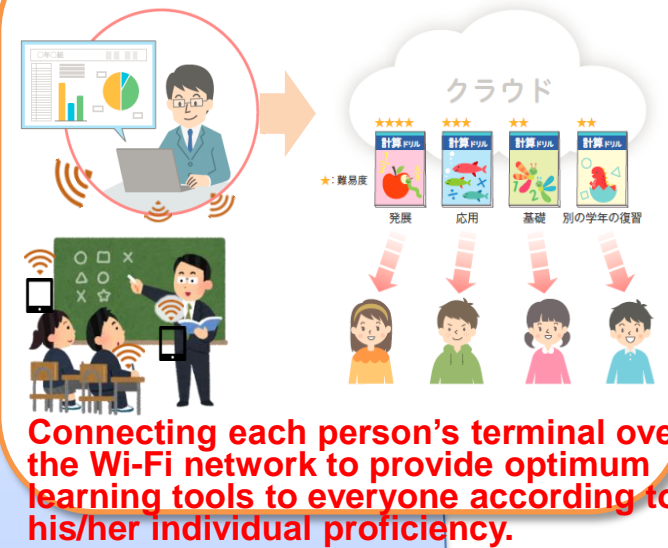
Human resource development in the future

- A quantitative and qualitative expansion of specialized ICT human resources with skills for the IoT era.
- Proactive utilization of IT, including clouds, Wi-Fi, and programming, for school education.

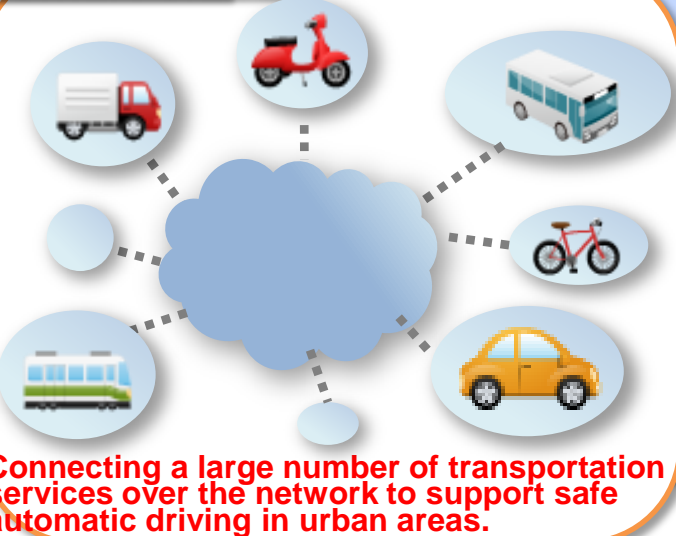
ICT infrastructure development in the future

- An ultra-high-speed and ultra-high-capacity network to achieve the simultaneous connection of a large number of points with low latency.
- Software control to ensure network operation flexibility.
- Cyber security measures to ensure the safety and security of data.

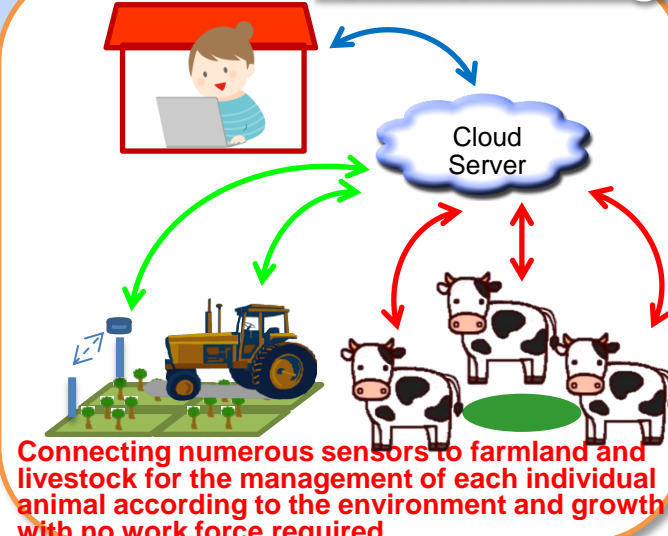
ICT education



Smart cities



Smart farming



“Information and Communications Technology (ICT) has become a driver for a range of social and economic activities and an engine for economic growth and human prosperity.”

Charter for the Digitally Connected World
G7 ICT Ministers' Meeting in Takamatsu, Kagawa, Japan, April 2016

