



**The Government's Role  
in Fostering Growth and Innovation of  
M 2 M Communications**

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# The Future Society

**“Ubiquitous Network Society” (2004)**



**A New “Global Connected Space” (2025)**

## Economic Effects of M2M

### I Dramatic Increase in the Value of Information

- Quantitative transformation
- Qualitative transformation

### II Informatization in All Areas

### III Cross-sector Informatization

## Maximizing Advantages

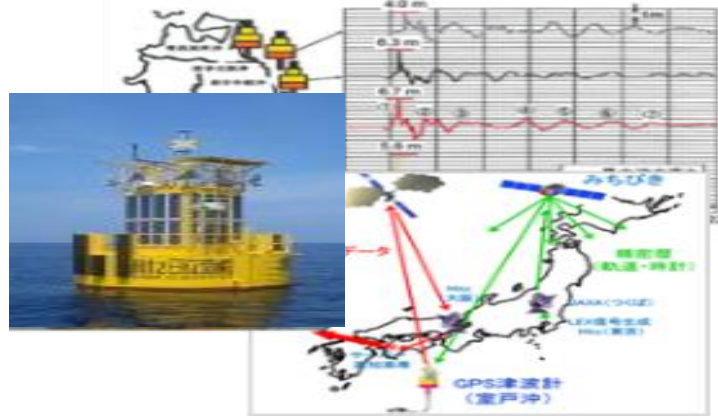
- I Promoting Spectrum Usage
- II Standardization
- III Development of Legislation
- IV Utilizing M2M in the Public Sector
- V R&D

## Minimizing Disadvantages

- I Ensuring Cybersecurity
- II Protecting Privacy

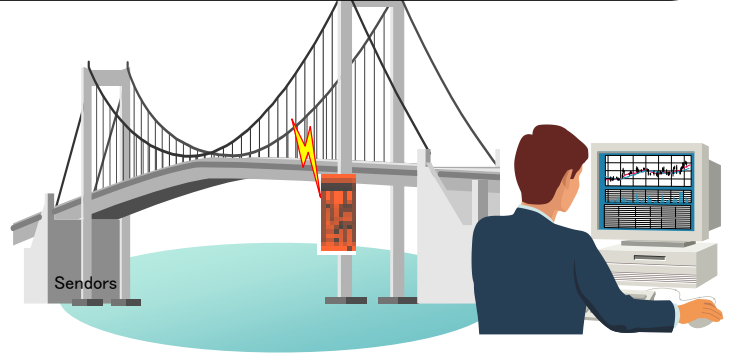
# Examples of Utilization of M2M in the Public Sector

## Disaster Management



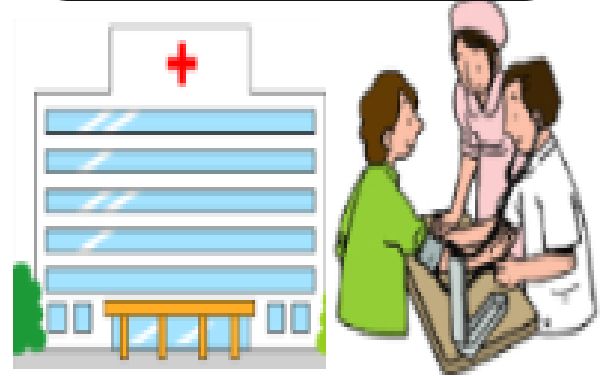
**Advanced disaster-management system combining GPS wave sensors with location data**

## Infrastructure Management



**Achieving efficient maintenance of social infrastructure by utilizing sensor technology**

## Medicine



**Realizing "smart platinum society" by sharing medical information and elongating healthspan**

## Smart City



**Cities with high-efficiency social infrastructure utilizing advanced technologies such as ICT**

## ① Issues arising from connecting M2M devices to the internet

Connecting M2M device networks to the internet creates new issue of cyber threats from external networks.



Standards concerning the settings and operation of M2M communications network connected to the internet.

## ② Issues among M2M communications devices

Ensuring security of sensors and wearable devices which lack processing power and capacity to handle large amounts of data.



Developing encrypted communication technology which allow energy and resource-saving and secure data communications.

## ③ Issues arising from the expanding use of M2M

If M2M communications devices installed in high value goods such as cars and home appliances lack sufficient levels of security, there could be huge social and economic losses.



Developing internet protocols which ensure long-term security in devices.

- ◆ **Promoting Economic growth and Innovation**
- ◆ **Overcoming Social Challenges**
- ◆ **Overcoming Global Challenges**



**Promoting Utilization of M 2 M Communications**

Public-Private-  
Partnerships

International  
Cooperation