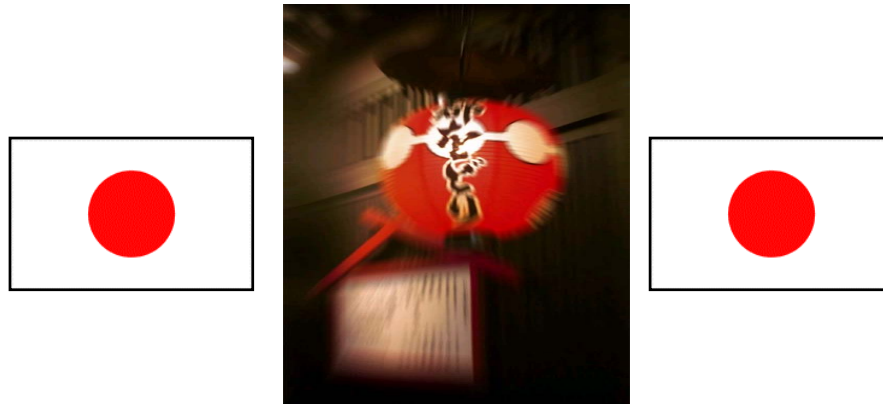


Ubiquitous Network Societies: Highlights from the Japan country case study



ITU Workshop on “Ubiquitous Network Societies”
6 April 2005

Lara Srivastava

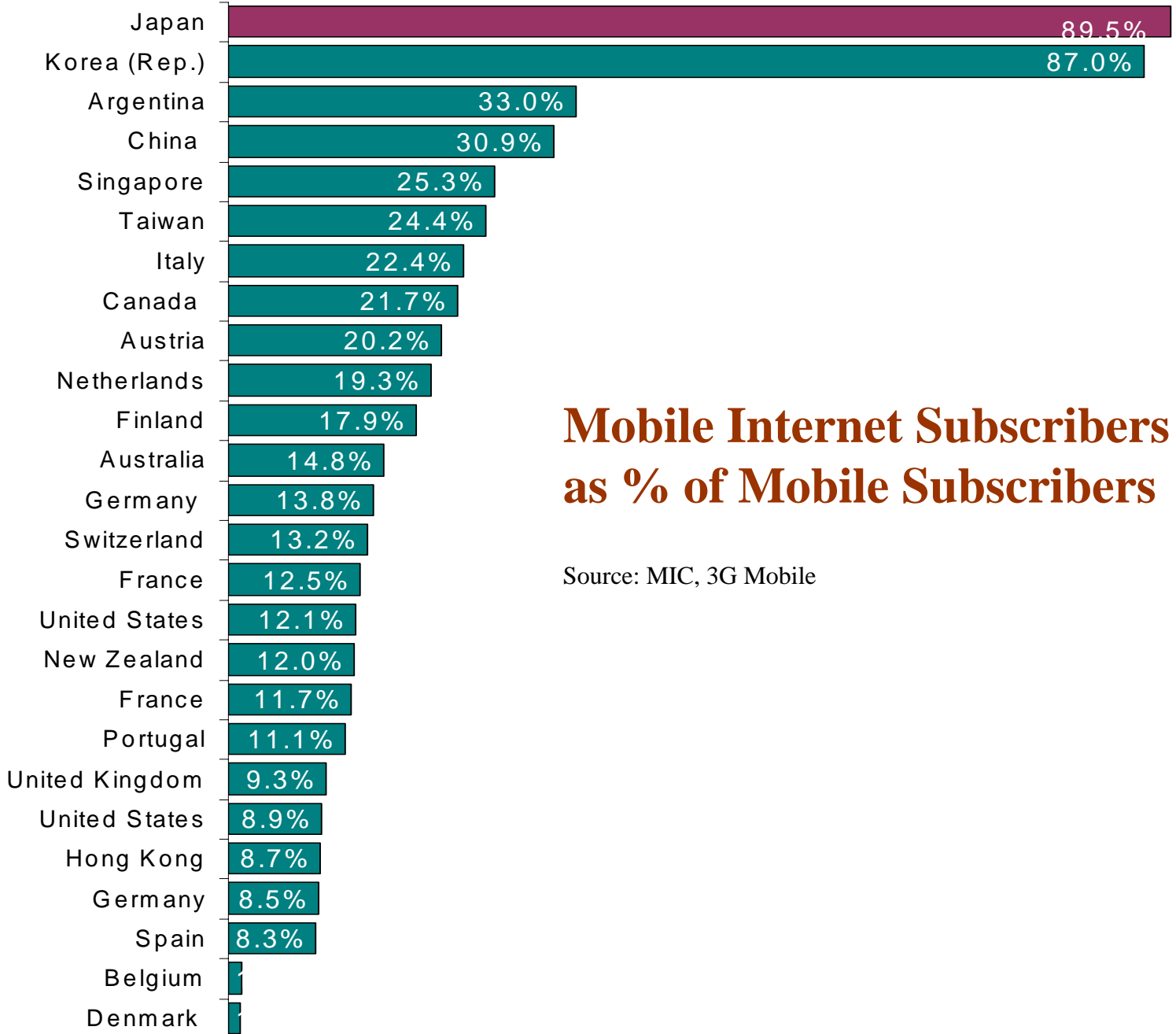
Telecom Policy Analyst, Strategy and Policy Unit, ITU



Note: The views expressed in this presentation are those of the author and do not necessarily reflect the opinions of the ITU or its membership. Lara Srivastava can be contacted at lara.srivastava@itu.int

Why Japan?

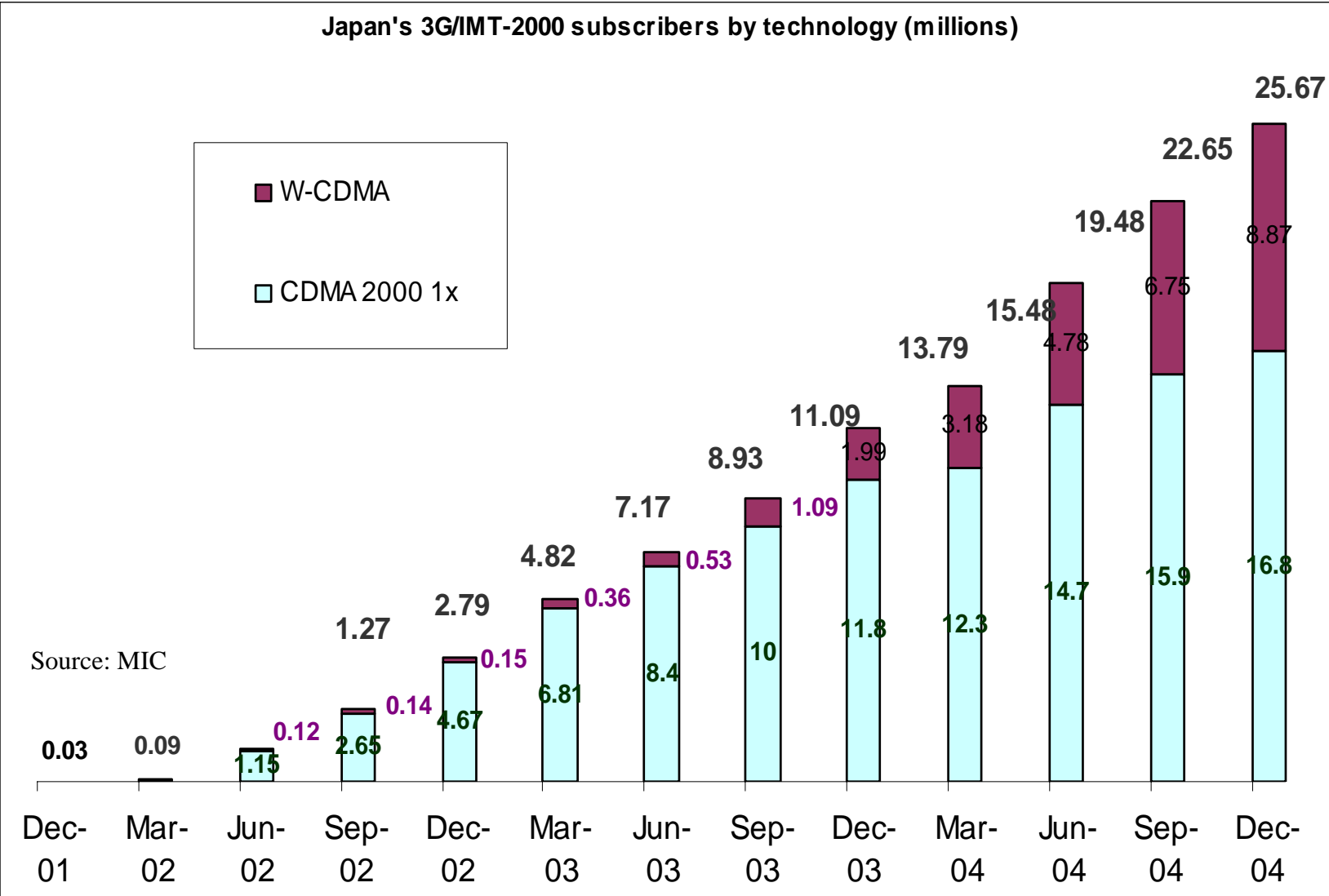
- Tech-savvy population
 - Popularity of consumer electronics on the whole, and particularly the mobile phone
- Mobile phones as ubiquitous & indispensable fashion statements
- One of the first countries to launch IMT-2000/3G
- Nation with cheapest broadband access in the world (Source: ITU)
- Government implementing a number of strategy initiatives geared specifically towards the further development of a “ubiquitous network society”



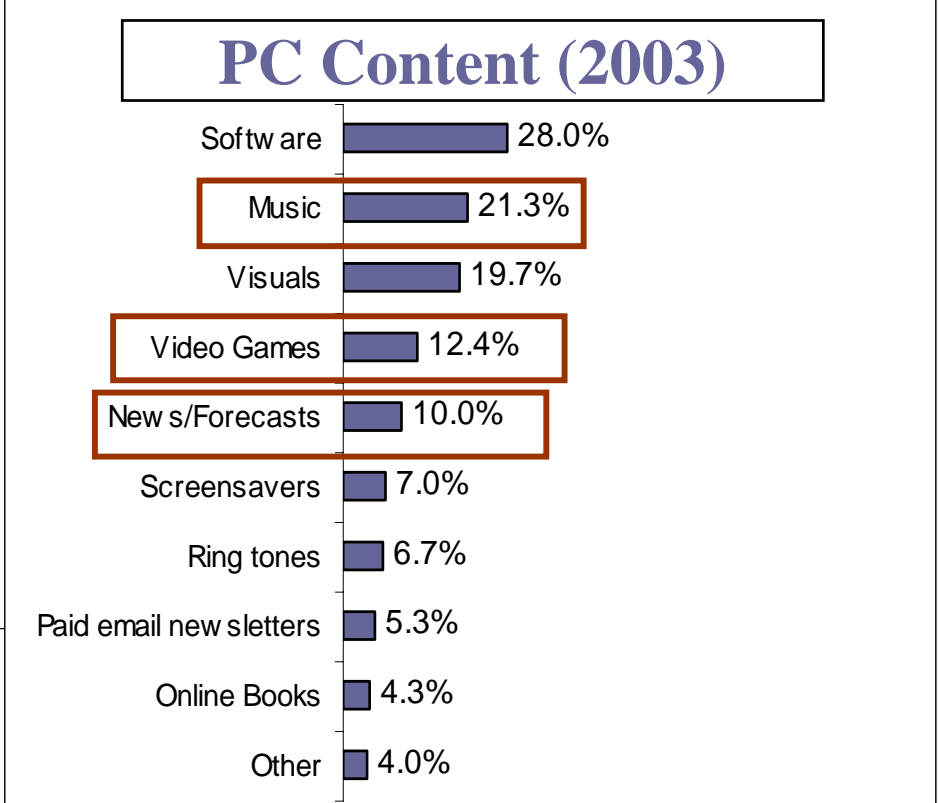
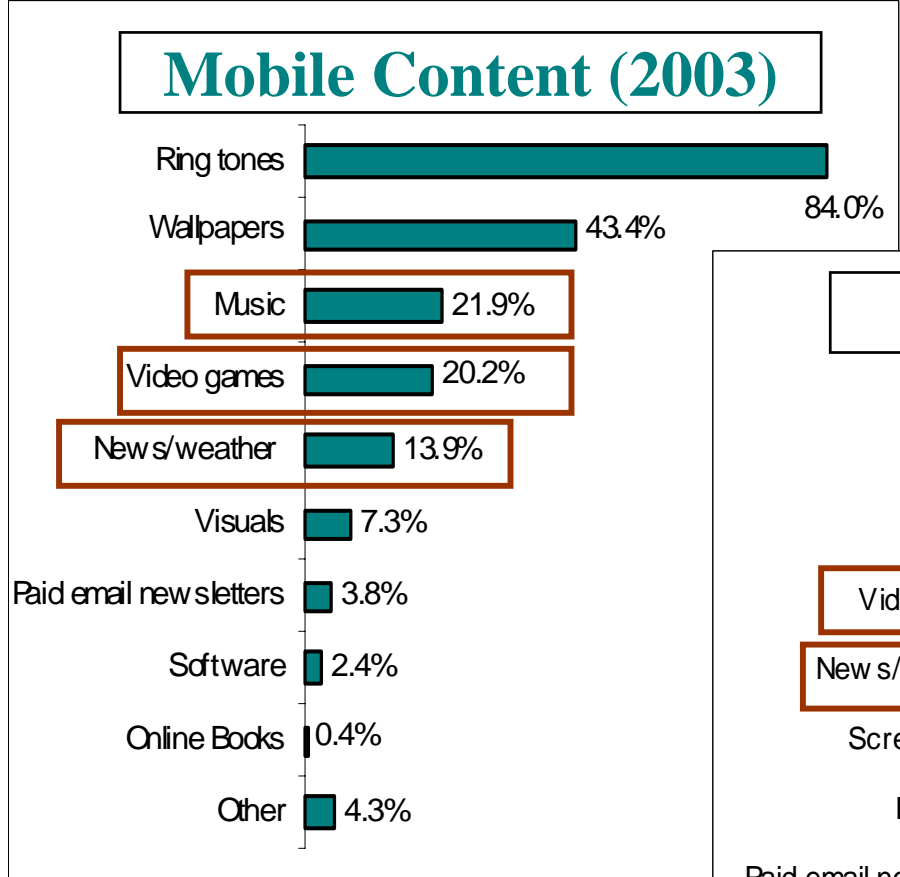
Mobile Internet Subscribers as % of Mobile Subscribers

Source: MIC, 3G Mobile

3G or IMT-2000 "Keitai"

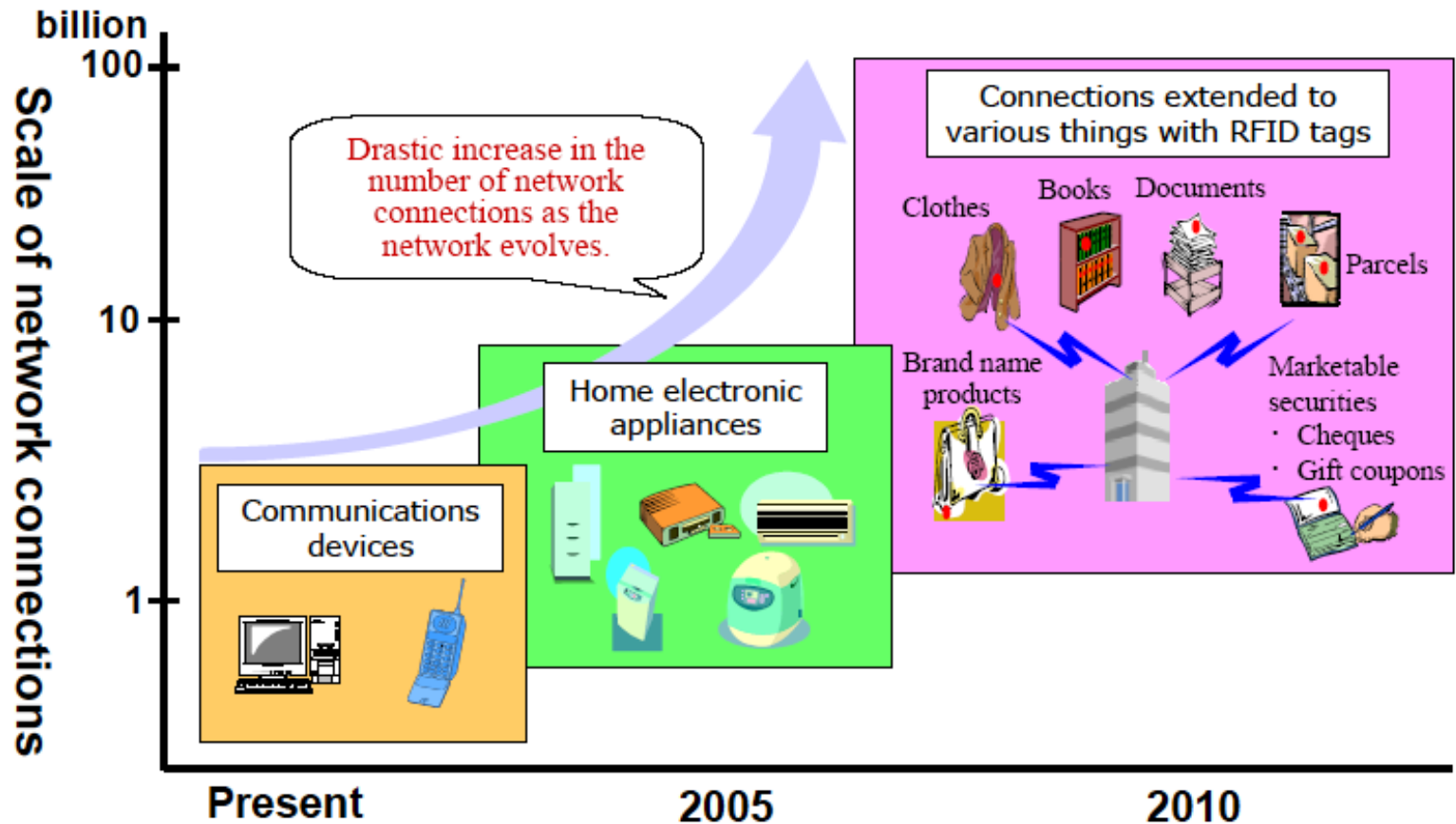


Content accessed through near-ubiquitous mobiles vs. PCs



Source: MIC

The path to ubiquitous networks: *An increase in the scale of network connections over time*



Highlights: Chips and Codes

- RFID

- In Roppongi Hills trial – read or shop?
- Sushi à la RFID
- RFID tracking and transport
- Mobile digital wallets



- The DoCoMo 2D Code

- With this, mobile can read data from a simple code
- Eventually hyperlinks will be included
- A first step to the T-Engine Forum's "*Ubiquitous Communicator*"?



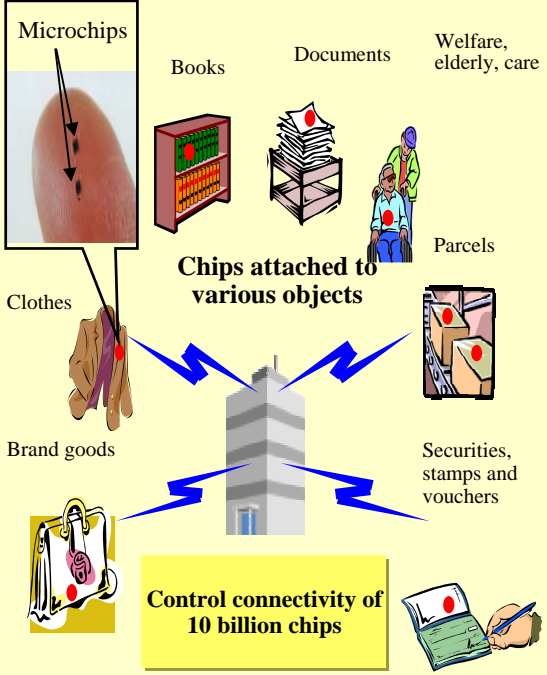
Japan's strategy for ubiquitous communications

- Japan is aiming for a “*ubiquitous network society*”, that is to say a society in which there is “anytime, anywhere” access, for “anyone and anything”
- Since 2003, MIC has been working closely with industry and academia to stimulate the development of ubiquitous networks
- Current focus on three key technology areas:
 1. *Microchip network technology*
 2. *Ubiquitous network identification and agent technology*
 3. *Ubiquitous network control and management technology*

A 3-fold R&D approach towards ubiquity of communications

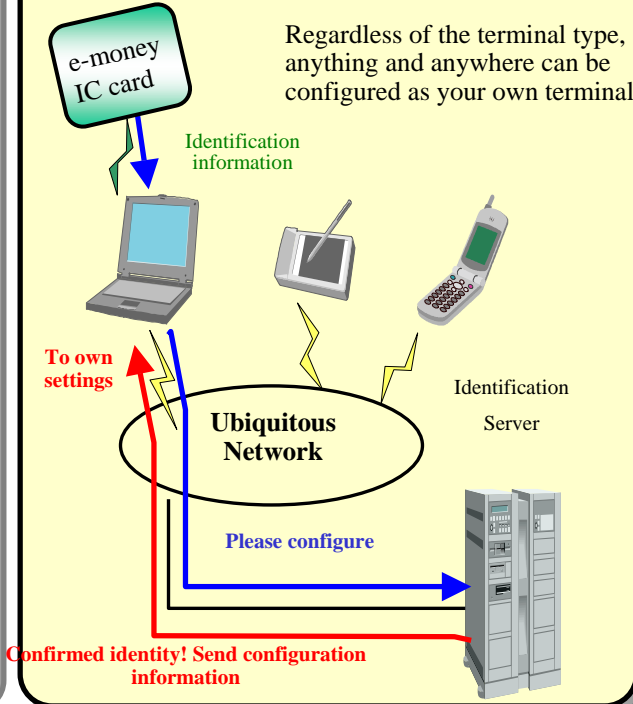
Microchip network technology

Through high-functionality microchips, a variety of objects can be freely connected to the network.



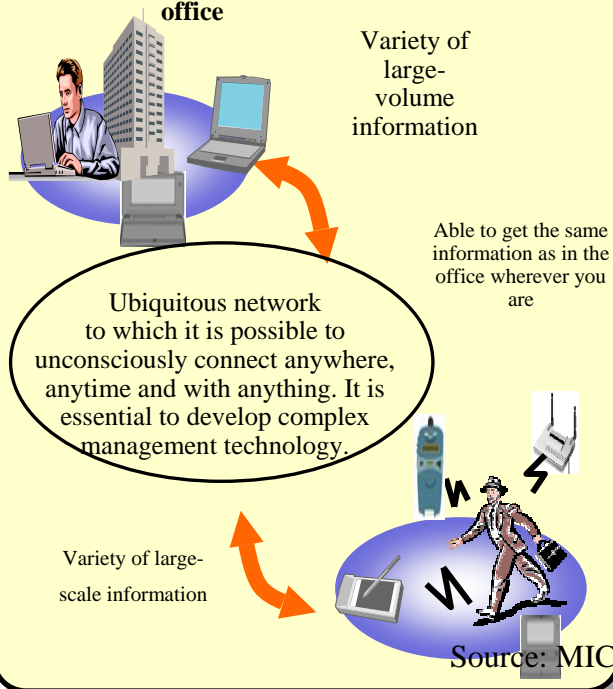
Ubiquitous network authentication and agent technology

Through simply holding a contact-less card, any terminal can be instantly configured as your own.



Ubiquitous network control and management technology

Wherever you are and whenever you like, you can enjoy the same communication services and diversity of content as in the office.



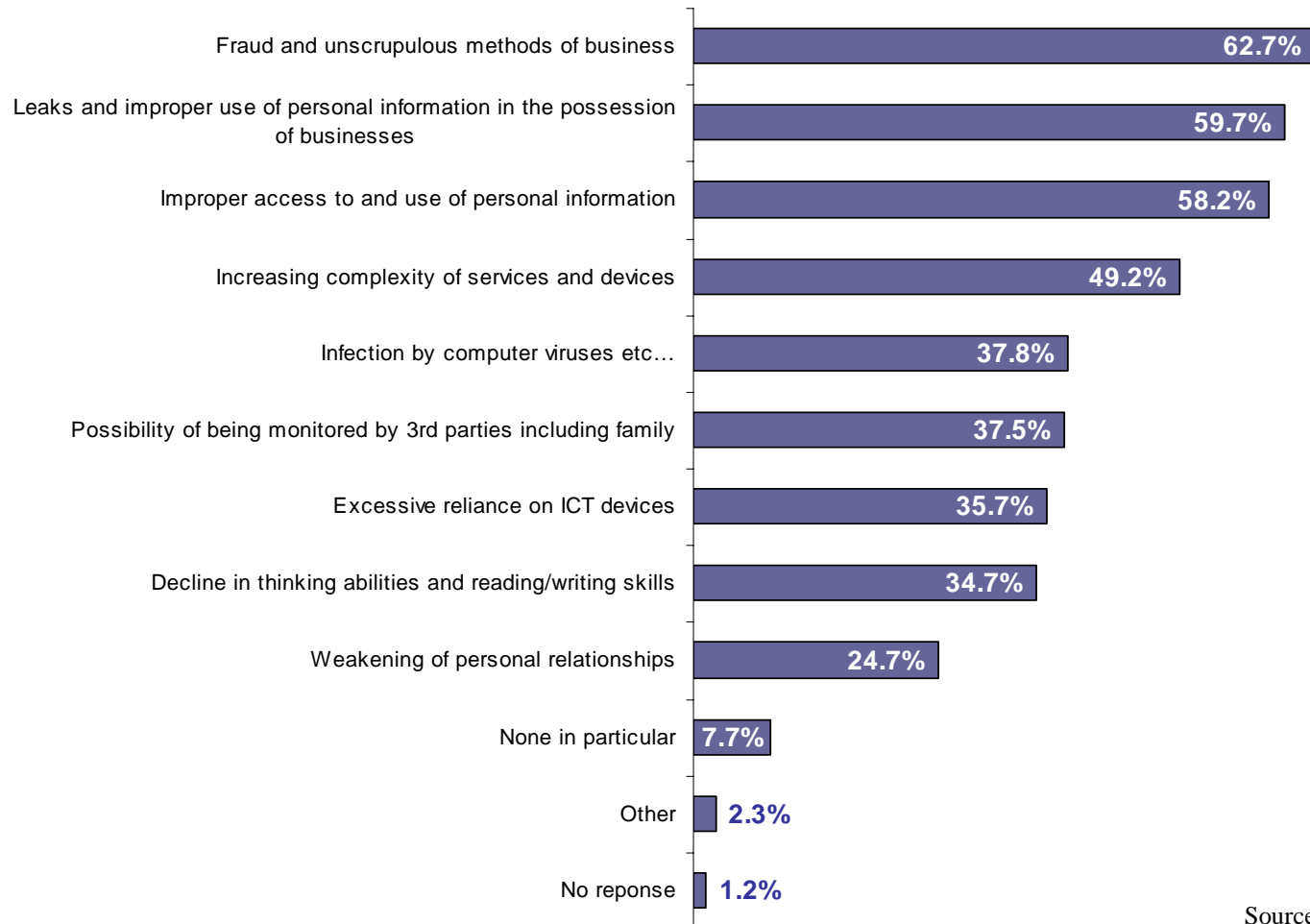
But ubiquity also means access for all segments of the population

- Great demand for simple mobile handset for those not wishing/needing to use Internet or cameras
- TU-KA, KDDI's 2G arm, released this simple handset (*Tu-Ka S*) in Nov 2004.
- *Tu-Ka S* has no LCD display or users manual, and has been a smash hit for users over 60!



User concerns relating to ubiquitous communications...

User concerns relating to their use of ubiquitous network services (2003)



... addressed by Japan's Charter for "Ubiquitous Network Society"

Establish a charter summarizing the basic principles and shared understandings for the ubiquitous network society

Ubiquitous Network Society Charter (Draft)

Preamble

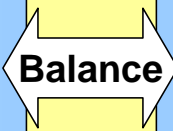
Latent potential of ICT and its role in future society
Ubiquitous network society — definitions, objectives and significance
Balance between free and diverse information distribution, and safe and secure information distribution
Positioning of the Charter

Free and diverse information distribution

Information access & dissemination rights
Information diversity
Promotion of information technology in business and society
Information literacy

Safe and secure information distribution

Privacy
Information security
Intellectual property rights
Information ethics



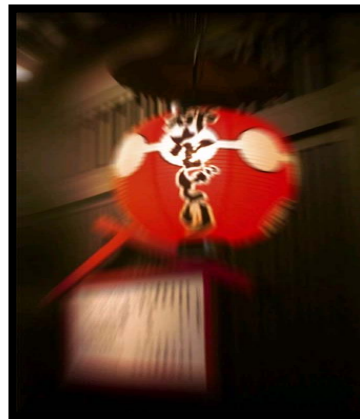
Support

Construction of new social infrastructure

Balance between the real society and the cyber society Systems for local and international coordination and cooperation



thank you
"domo arigatoh gozaimasu"



lara.srivastava@itu.int