



Problems of Education in Information Society

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Information Society

- The Society where all information are digitized
 - Bi-directional information flow
 - Almost all information are stored in the WEB
 - Necessary information is retrieved by the retrieval engine
- Personal information is shared in the society (Open use)
 - New community is formed by BLOG and Twitter
 - Collective intelligence as a new method



Information Sharing all over the world

- Information infrastructure is deployed
 - High speed internet access anytime anywhere
 - Digital divide problem arises particularly in developing country
- Knowledge database for commons
 - Many people can publish information
 - Information is shared for all
 - Language barrier exists
- Growing shared multimedia information
 - Image, sound and video data are particularly growing



Property of Information Society

■ Digital information

- is copied very easily

- is opened and shared very easily

■ Too many information are available

- Require information easily understood

- Understand only the part understandable

■ Access Information

- Scale free network

- Long tail



Who gets advantage of information society?

- Matured adults
 - Independent
 - Have motivation
 - Know how to get information from Web



Problems for immature persons

Students who are studying

- Are not considered
- Do just retrieval
- Consider no logic at all
- Do not notice whether they understand or not (No meta-recognition)

because of too much information around them



Necessary ability for living in a society

Pre-historical society

- Memorize spoken language

Mid-Aged society

- Ability to read and write characters

Industrial society

- Knowledge of science
- Analyze and understand situation
- Make things smartly

Information Society

- Creativity and independence
- Analyze and understand information
- Information retrieval



Class room style education in Japan

- Classroom appears in MEIJI period
 - Emphasis on the advantage for the students to communicate one another
 - Group education not private education
 - ▶ More efficient?
- Edo period
 - TERAKOYA: private education



What we teach students in the information Society

- Education provide to train the ability for the people to live in the society
- Assume that every student always has a mobile device
 - Language literacy
 - How to use word processer
 - Can only read Chinese character or select collect one
 - Calculation
 - To use calculator
 - More importance on process of calculation than calculation
- Knowledge exist in WEB
 - More importance on to use knowledge than to know the knowledge
 - Deeply understanding is necessary



What we teach students in the information Society

- The following abilities are very important
 - Creativity
 - Independence
 - Associate key words and retrieve information
- Basic knowledge is necessary
 - Basic concept
 - Principle of things
 - Basic way of thinking



How to teach students in the information Society

 The most important issue is the strong link between cyber world (information) and physical world: “experience”

- Train the way of thinking and doing
- Retrieve information when necessary
- Learn by experience

 Style of learning

- Not in the classroom
- Small group lesson is inevitable
- Individual adaptation of learning is necessary
- ICT takes important role