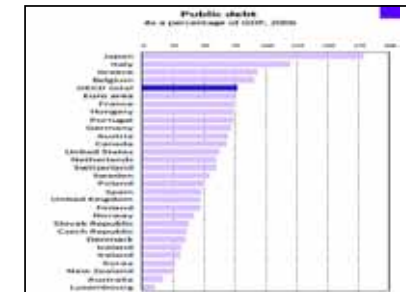
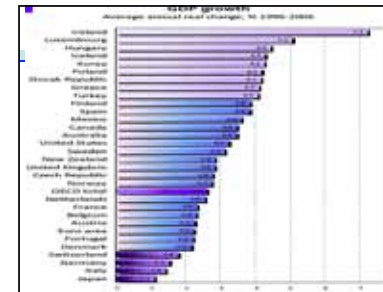


Promoting creativity and self-efficacy at schools in Japan – challenges to resilience towards the knowledge economy

September 30, 2010
Göteborg, Sweden
Kazuhiro Kawasaki
Tokai University, Japan
kawasaki@tokai-u.jp

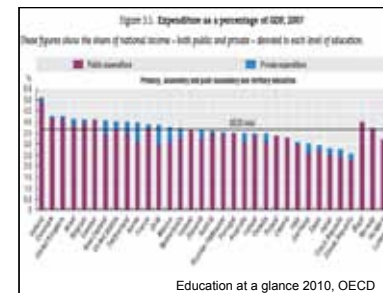
Objectives

- to identify school education as one of the main problem areas for resilience towards the knowledge economy in Japan
- to describe some experimental projects we carried out at schools in Japan to promote creativity and self-efficacy in collaboration with Scandinavian countries
- Even if the feedbacks so far are positive, there are much to be evaluated for further efforts to change the education toward the right direction.



IP Education Tokai Model

- The lost decades in Japan and the reasons behind
- Cases of IP education at the Tokai Univ. Educational System



Background

- 1950's ~ 1980's: Rapid economic growth in Japan "Catching up" period
- 1990's~ : "The Lost Decades"

■ WHY?



The lost decades in Japan

Transition of industrial structure

Historical development of civilization

- Fishing & hunting
- Agriculture
- Manufacturing
- Knowledge

| WEIGHTS OF SERVICES IN GDP AND LABOR FORCE % | | | | |
|---|----------------|------|----------------|------|
| | SERVICE SECTOR | | IN LABOR FORCE | |
| | 2007 | 1997 | 2007 | 1997 |
| Japan | 70.8 | 55.5 | 57.8 | 51.8 |
| US | 76.9 | 72.8 | 78.8 | 71.9 |
| UK | 76.3 | 68.7 | 78.3 | 71.4 |
| Denmark | 72.4 | 71.2 | 73.6 | 69.5 |
| Finland | 64.2 | 63.2 | 66.7 | 65.5 |
| Norway | 55.9 | 60.4 | 76.0 | 72.1 |
| Sweden | 70.3 | 68.4 | 76.1 | 71.2 |

Source: OECD in Figures 2008

**Society in the
knowledge-
based
economy**

convergence vs. diffusion

• **5+6=?**
• **?+?=11**

Pupils in Japanese schools

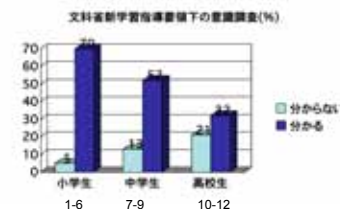
- Cannot understand
- Not interesting
- How can we utilize in the future?

**CHANGES IN THE
THE KNOWLEDGE-BASED
SOCIETY**

- **QUICK SPEED**
- **QUALITY OF
CHANGES,
UNPREDICTABLE**

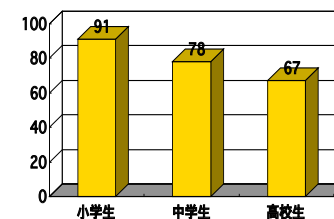
How much
↓
What

Understand lessons?



Satisfied with school life?

学校の生活に満足(%)



**Areas of
problems**

Areas of problems

- “From teaching to learning”
- decentralization
- teachers
- increasing gaps

Good schools (PISA, 2000)

- Independent schools and teachers
- Goals and evaluations MBO
- Supporting less qualified students



outer and inner entrepreneurship

- **outer**
- **inner**

inner entrepreneurship

- **qualifications**
- **creativity, leadership, problem solutions, self-efficacy, self-esteem**

Cases from Tokai Honda Kindergarten

CAR PROJECT& ECO PROJECT 2007



Tokai Honda Kindergarten, Japan

PISA rankings 2006

| | math | science | reading | |
|---|-------------|-----------|-------------|--|
| 1 | Taiwan | Finland | Korea | |
| 2 | Finland | Hong Kong | Finland | |
| 3 | Hong Kong | Canada | Hong Kong | |
| 4 | Korea | Taiwan | Canada | |
| 5 | Netherlands | Estonia | New Zealand | |
| | 10 Japan | 6 Japan | 15 Japan | |

percent of students who agree with the statements

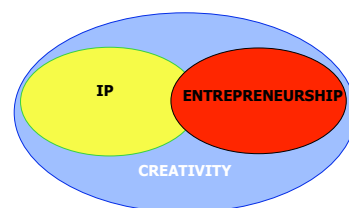
| | 4th-5th grades | | 7th-8th grades | | High school grade | |
|---|----------------|---------|----------------|---------|-------------------|---------|
| | Japan | Finland | Japan | Finland | Japan | Finland |
| It is fun to study | 45% | 82% | 51% | 77% | 30% | 82% |
| It is safe to live in my country | 35 | 91 | 82 | 84 | 59 | 74 |
| I would like to study abroad | 19 | 48 | 21 | 28 | 18 | 68 |
| I would like to live abroad in the future | 15 | 45 | 18 | 38 | 21 | 79 |

Sharkstory

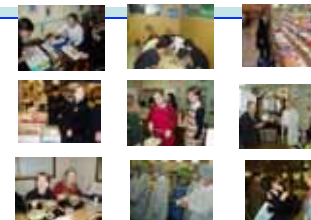
Original Sapporo Tours

| | 4th-5th grades | | 7th-8th grades | | High school grade | |
|--|----------------|---------|----------------|---------|-------------------|---------|
| | Japan | Finland | Japan | Finland | Japan | Finland |
| It is possible to challenge again even after a big failure | 55 | 97 | 85 | 87 | 68 | 88 |
| I am satisfied with myself | 29 | 91 | 78 | 88 | 102 | 73 |
| It is secure to be at school | 42 | 88 | 88 | 79 | 49 | 78 |
| I am worried about my future | 48 | 21 | 14 | 17 | 38 | 18 |

IP EDUCATION/TOKAI MODEL



Internship from Finland in Sapporo Oct-Nov. 2005



Tokai Daiyon High School BEFORE & AFTER



Assignment

*Think of an idea
to save local bookstores
from bankruptcy
and give a presentation
of your idea*

Final Presentation



Comment and Awarding



OUT in THE FIELDS

座学から
フィールドへ

DAIYON JUNIOR HIGH SPECIAL DESSERTS

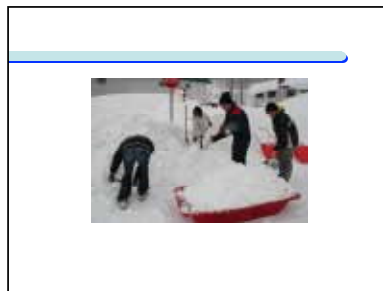


*field work
internship*

GLOCAL
*Think globally,
act locally*

**Supporting
Yubari**

Internship 2007-9



**Japanese Culture
@Telemark Univ.
2005.3**

札幌雪祭りボランティア (2005

年2月7日~13日)

Volunteer guides for Sapporo Snow Festival
(7-13 Feb, 2005)



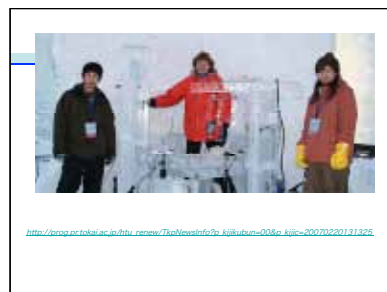


Vitalizing Ice Festival Shikotsuko

2006. 2007

Tobetsu-Leksand 20 years' anniversary of sister cities

2007. 6



5-8th. Culture Night

2007-2010

Hokkaido Style in Sweden

2006. 9

