

Yusuke Tahara

Instructors: Jacqueline Schneider and Deborah J McGraw

INTRODUCTION

Individually optimized education is essential for Japan and ICT systems is necessary for it. However, computers have been introduced not to reform traditional lessons but to maintain them. In other words, **new education system should be introduced places or people that are separated from traditional one.**

WHY does Japan need individually optimized education?

72.5% of Japanese students feel like they are a failure



8% of young generations describe themselves creative.

The number of people who applied for teachers has been decreasing from

122,000

in 2012

to **98,000**

in 2019.



Standardized education



Education optimized for individuals

PROBLEM of ICT environments

As for the use of ICT in learning inside and outside school, Japan ranks

last among OECD countries.

Students who use PC to do homework are

3%

Teachers have the necessary technical and pedagogical skills to integrate digital devices in instruction are

the lowest



PROBLEM of '1 device for 1 student'

In America, in twenty years,

\$60 billion



were invested to set up ICT environments.

Computers were introduced not to reform traditional lessons but to maintain them.

Japan will spend

\$4.4 billion

to digitalize education among the country's nearly 13 million primary and secondary school students.

HYPOTHESIS

New education systems with ICT system should be introduced places or people that are separated from traditional one.



- ex)
- students who learn at home
 - students who retake credits
 - pre-primary education
 - rural areas where school cannot provide enough education because of a shortage of teachers

- As a result,
- lower the cost of computer-based education
 - enhance its quality
 - enlarge the market
 - develop improved software



The introduction of ICT system will be implemented successfully.

EXAMPLE N HIGH SCHOOL

The school offers most lectures through online videos.

One-fifth

of the students were truant.



The number of students has rocketed from

1482 in 2016

to **15803** in 2020

EXAMPLE Miryokuka Project (Platform for Sustainable Education and Community)



Students who live in an urban area can be relocated to school in a local area. They can be involved in unique project-based learning.

Learning offices are available, making full use of cutting-edge **ICT environments.**

In 10 years, the number of students who go to Okidozen High School, which started the project, has

doubled

CONCLUSION

ICT can be integrated in education and school has realized education which is **optimized for individuals.** If Japan introduces ICT systems into **places which are separated from traditional education** more, Japan will create ideal education.

REFERENCES

1. Evan Hansen, "Public Schools: Why Johnny Can't Blog", 2003
2. Larry Cuban, "Oversold and Underused: Computers in the Classroom", 2003
3. OECD, "Programme for International Students Assessment 2018", 2018
4. The National Institution for Youth Education, "Survey on High School Students' Views on Life," 2015