The image of the transformation of learning brought by "1 device for 1 student with a high-speed network" < Provisional Translation >



GIGA School **Program**

- ✓ Realize an educational ICT environment optimized for each of the various children, including those with special needs, and ensure further development of their abilities.
- ✓ Maximize the power of teachers and students through the best mix of past educational practices and cutting-edge ICT technology.

X **Past Practices** ICT

Further enrichment of learning activities / Improvement of lessons from the perspective of proactive, interactive and authentic learning

Before "1 device for 1 student"

 Teachers can motivate children's interest by using electric blackboard, etc. Learning

Deepen Learning

With "1 device for 1 student"

- Teachers can understand each student's reaction in class.
- → Enables teachers to provide interactive lessons with detailed guidance based on the reactions of each student.

Personal Learning

Group

• All students learn the same content at the same time. (Learning based on the level of individual's understanding is difficult.)



Each student can learn different content at the same time.

• Each student's study log is automatically recorded.

→ Enables individualized learning and instruction based on each student's educational needs and understanding.



Joint Learning

•Group presentations can be made, but it's hard for quiet students to voice their unique opinions.



- Each student can collect information from their own perspective.
- Students can share their thought immediately and edit collaboratively.
- → All students have immediate exposure to various opinions, while experiencing the editing of information.

Examples of learning that can be enriched through "1 device for 1 student"

☑ **Investigative Learning** Collecting and analyzing various information proactively, depending on the purpose.

☑ Expression and Production Writing long texts while polishing / Producing various works using several materials.

☑ **Learning in Distance** Collaboration with universities, foreign countries and experts / Opportunities for children of underpopulated area or in hospital.

☑ Information Morality Learning Utilizing various information which contains truth and false, in several cases.

Realization of

461 billion Japanese yen (Administered by MEXT)

GIGA School Program < Provisional Translation > FY 2020 First Supplementary Budget 229.2 billion

GIGA School Program ensure "1 devise for 1 student with a high-speed network in schools," which bring optimized and creative learning to all students, who will live in the Society 5.0.

Education and schools of new era

- Removing constraints such as time and distance
- Optimized and effective learning and support
- Cultivating creativity through project-based learning
- Improving efficiency in school operations
- Sharing and creation of teachers' empirical knowledge with scientific perspective

cloud

- high speed
- high capacity confidential
- inexpensive

networks



1 device for 1 student

Supporting to maintain devices for students

297.3 billion Realizing "1 device for 1 student"

> FY 2019 Supplementary Budget 102.2 billion FY 2020 First Supplementary Budget 195.1 billion

Supporting the maintenance of PC terminals for students at the compulsory education level.

 Assistive devices for disabled students 1.1 billion Supporting the provision of input/output assistive devices for children with visual, auditory, and physical disabilities.

Development of a school-wide network environment

Supporting the maintenance of the school LAN environment and power supply cabinets. (including high schools) 136.7 billion

> FY 2019 Supplementary Budget 129.6 billion FY 2020 First Supplementary Budget 7.1 billion

Placement of GIGA School Supporter

Supporting the placement of local governments' ICT engineers to promote ICT in schools. (including high schools) 10.5 billion

FY 2020 First Supplementary Budget 10.5 billion

Learning environment at home for emergency

- Devices for learning at home 14.7 billion Supporting the lending of the LTE communication environment (mobile router) by local governments to households that do not have a Wi-Fi environment.
- 0.6 billion Distance learning capabilities of schools Supporting the installation of communication devices such as cameras and microphones to schools. (including high schools)
- Online system for ensuring learning 0.1 billion

Research to introduce a platform for learning and assessment at school and at home using devices.

