Report of a Cooperative High School and University Class using High-speed Network

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Abstract

Now, to achieve GIGA school concept there have been various initiatives across Japan.
What kind of classes can be realized on high-speed networks ?
We conducted a demonstration experiment of remote classes using a high-speed network between Kyoto Institute of Technology (KIT) and Kyoto Prefectural Toba High School.

What is the GIGA School concept ?

A concept to optimize education for each and every child by providing a terminal and a high-speed, large-capacity communication network.

Outline of the demonstration experiment

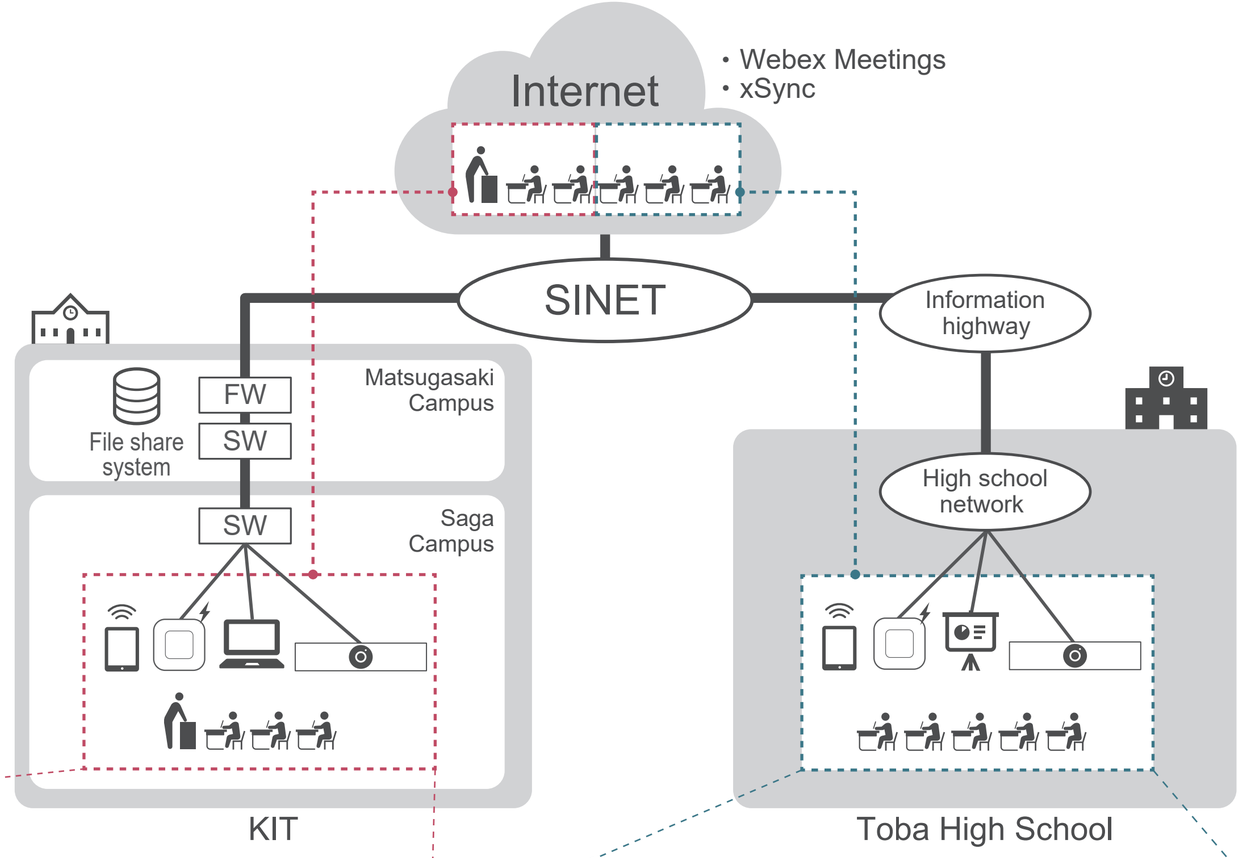
The Aims are ....

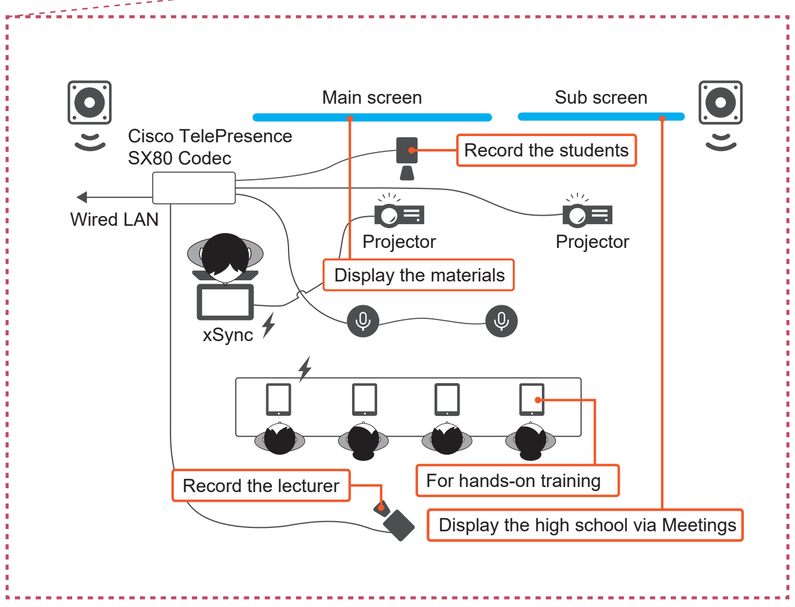
- Provide professional education by university professor.
- Provide hands-on training using cutting edge equipment at our university.

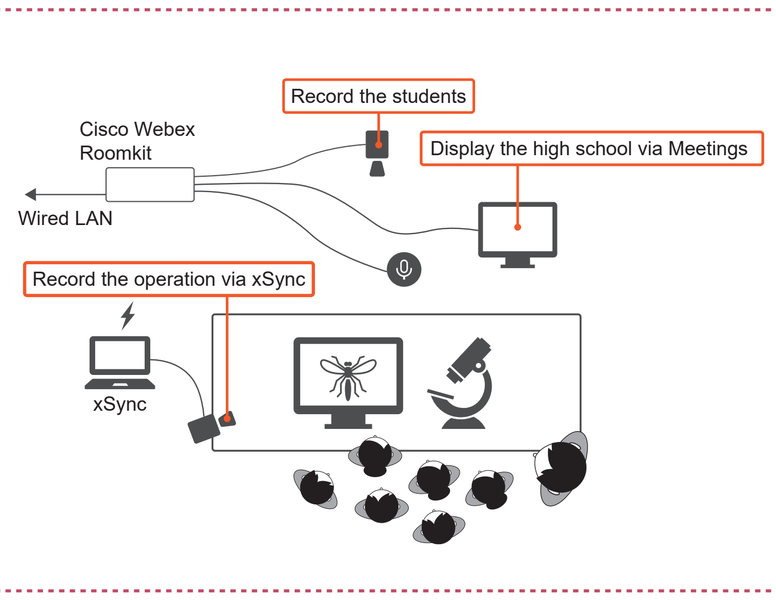
for high school students, through remote classes !

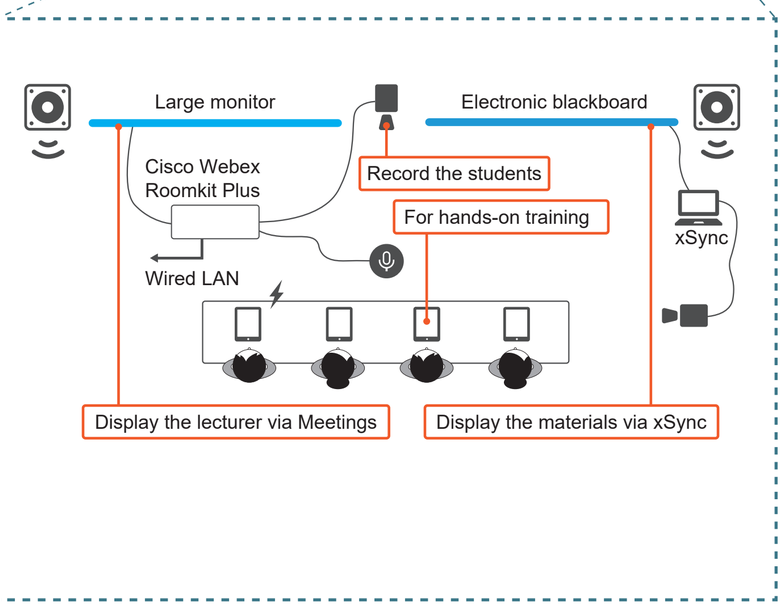
Point

- Using high-speed, large-capacity communication network " SINET " .
- Connecting each classrooms to Cisco Webex and xSync.
- Using our file share system to share image data.
- Technical staff members support from preparation to the day carefully.

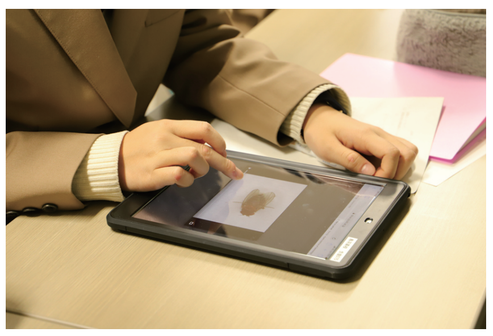








Remote class schedule



First Lecture → Moving and Viewing → Hands-on training → Second lecture

Conclusions

- By using SINET, communication was not disconnected or delayed, and students were able to concentrate on the class.
- We were able to provide an environment that does not feel the distance.
- Careful preparation is required for success.
- The next task is to think about how to operate it with a limited number of staff.

Feelings

- I'm glad I experienced a university class and hands-on training I never would have experienced in my high school.
- I was able to observation very small details.
- I was so impressed with the remote class.
- We were able to communicate smoothly with each other.
- The video image quality was very smooth and very clear.