

Challenges in DX

～ Doing what we can (できるしこのDX)～

Education DX

- Introduction of digital textbooks
- Use of learning contents and online tools for active learning
- Digitization of teaching materials through platforms such as learning management system
- Development of remote access environments for off-campus clinical training
- Promote BYOD (Bring Your Own Device)

etc.

Research DX

- Implementation of a research information management system
- Utilization of AI, open science, and data-driven research
- Conducting training on programming and no-code tools

etc.

Operations and Management DX

- Digitization of meeting documents and others (promoting paperless initiatives)
- Digitalization of processes such as electronic payments and applications
- Digitalization of workflows involving manual tasks or data entry

etc.

DX Infrastructure Development

- Improvement of Wi-Fi environments
- Upgrading file servers with a view to cloud integration
- recruitment of personnel who can contribute to the promotion of DX initiatives
- Securing a budget framework for the systematic promotion of DX initiatives

etc.

The COVID-19 pandemic accelerated the adoption of DX

Implementation of the 'manaba' LMS by Asahi Net, Inc. (2020.10~)

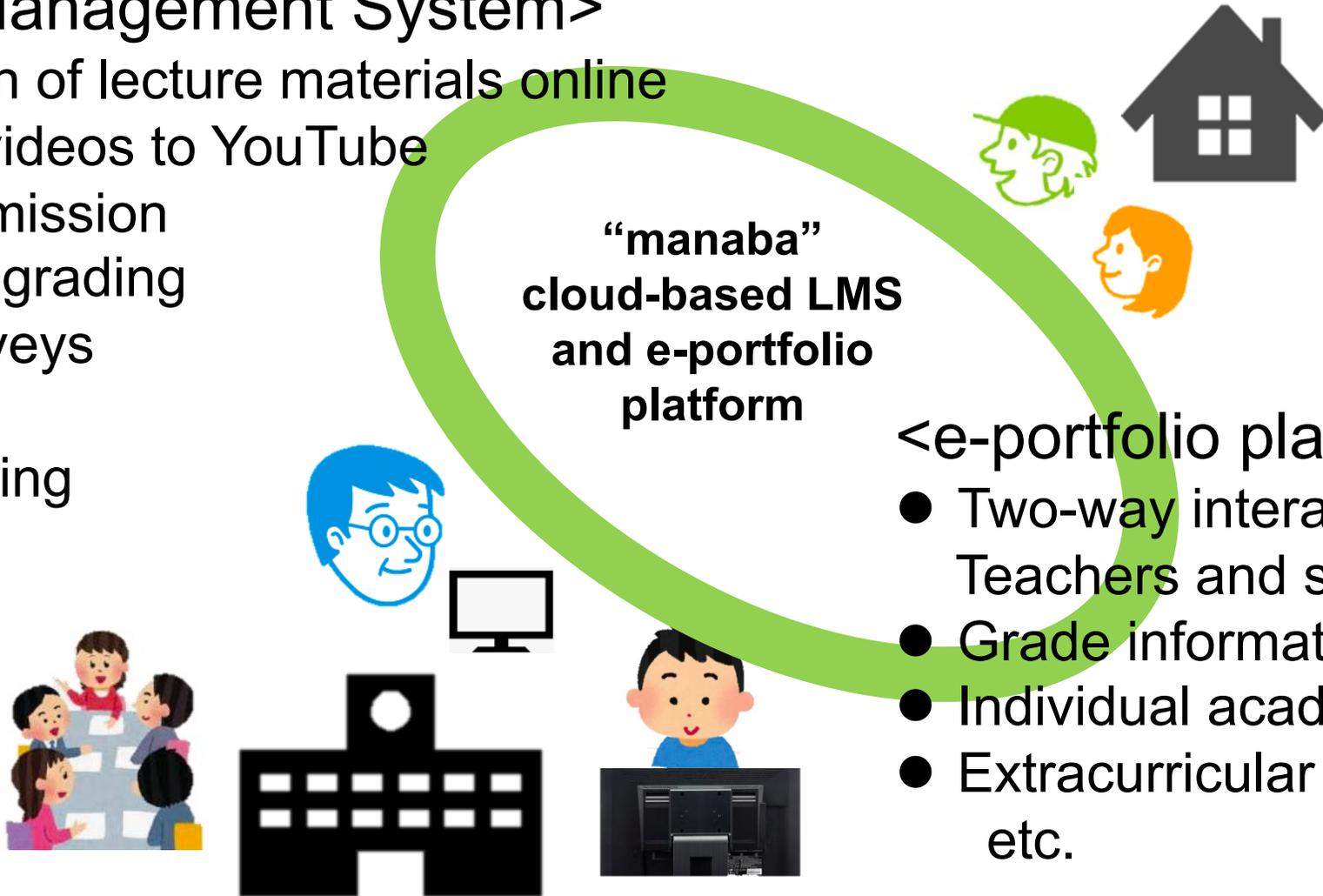
<Learning Management System>

- Presentation of lecture materials online
- Uploading videos to YouTube
- Report submission
- Exams and grading
- Course surveys
- Group work
- Active learning etc.

“manaba”
cloud-based LMS
and e-portfolio
platform

<e-portfolio platform>

- Two-way interaction between Teachers and students
- Grade information
- Individual academic advising
- Extracurricular activity records, etc.



Outline of Kumamoto Health Science University



<Student body size: Total **1,666**>

◆ Faculty of Health Sciences **1,567**

▪ Medical Technology



▪ Nursing



▪ Rehabilitation
[PT, OT, ST]



◆ Graduate School of Health Sciences (master's course) **34**

◆ Advanced Course in Public Health Nursing **20**

◆ Midwifery Course **21**

◆ Certified Nurse Course **24**

<Number of Academic Staff **111**>

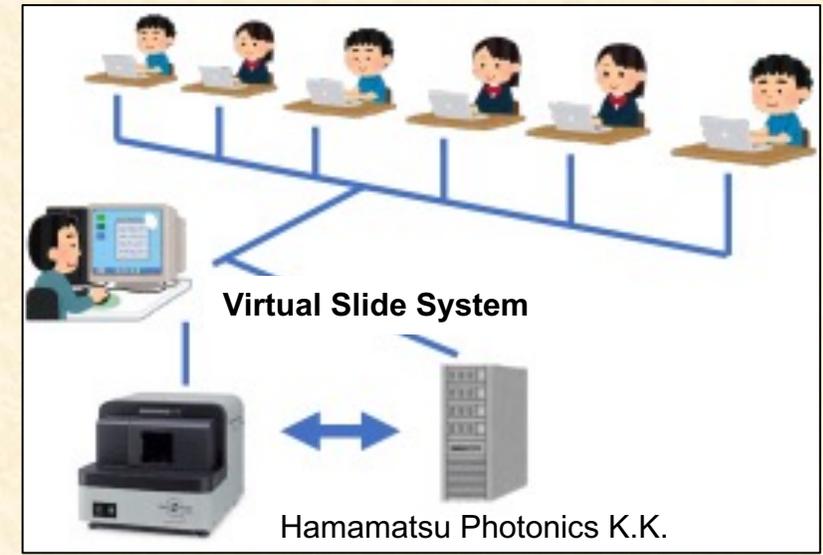


DX initiatives specialized in healthcare education

<Department of Medical Technology>

Use of the Virtual Slide System in Cytology Training

- Various cytology specimens are digitized into a virtual slides.
- Cytology virtual slide data can be observed simultaneously by all students, each student can independently navigate the view
- Utilize this system for online education for cytotechnologist exam candidates outside the university.



<Department of Nursing>

Development of Original Interactive Digital Contents

- Recreation of patient interaction scenarios through role-playing by academic staff, followed by video production.
- Utilization during pre-hospital practice exercises.
- Uploading to 'manaba' enables pre-study and review at home.



〈事例の紹介〉

B氏 : 佐々木 みつ子
年齢 : 51歳
性別 : 女性
病名 : 統合失調症



事例資料を読んで佐々木さんの状況を把握しましょう。



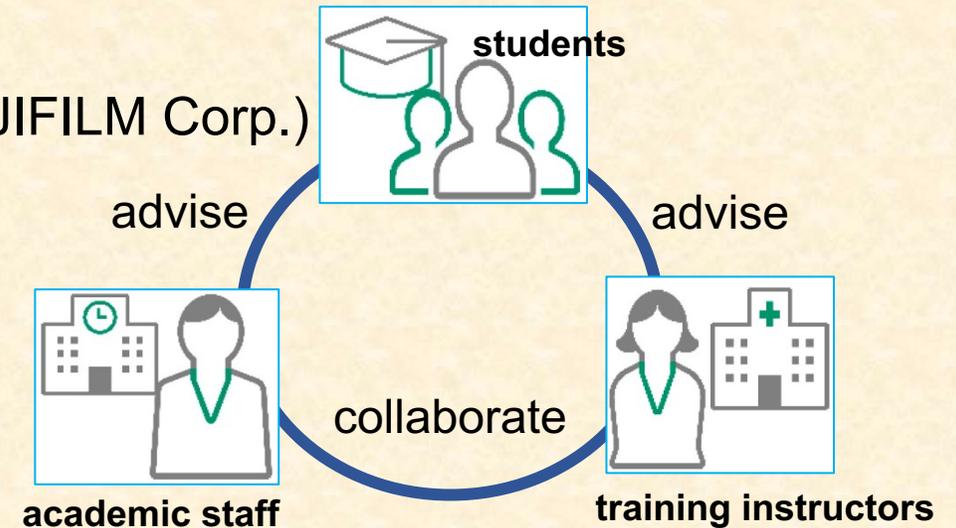
DX initiatives specialized in healthcare education

<Department of Rehabilitation>

Implementation of a Clinical-Training Support System (FUJIFILM Corp.)

- Online information sharing among students, academic staff, and training instructors at medical facilities
- Give advice and comments by sharing daily notes and reports

[Number of training facilities using this system]
Physical Therapy : 93 Occupational Therapy : 79
Speech-Language-Hearing Therapy : 60



DX promotion structure at our university

<Establishment of a DX Promotion Office>

[Main task]

- Planning for the promotion of DX
- Monitoring the progress of implementation
- Checking the status of information security management
- Organizing training sessions on digital technologies for faculty and staff etc.

[Members]

- Vice Presidents
- Deans of Faculties
- Chairs of educational committees
- DX expert faculty member (appointed by the President)
- Director-general of the administrative office
- Deputy director-general of the administrative office etc.

