



北海道大学
オープンエデュケーション
センター
CENTER FOR OPEN EDUCATION



HOKKAIDO
UNIVERSITY

Open Education activities at Hokkaido University and post covid-19 scenario

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OPEN EDUCATION™
for a **BETTER WORLD**



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- University-wide organization
 - Under the Institute for the Advancement of Higher Education
- Objectives
 - Supporting teaching and learning using OER
 - OER research and development
- Unification of initiatives on campus
 - Hokkaido University OCW office
 - E-learning efforts on several departments



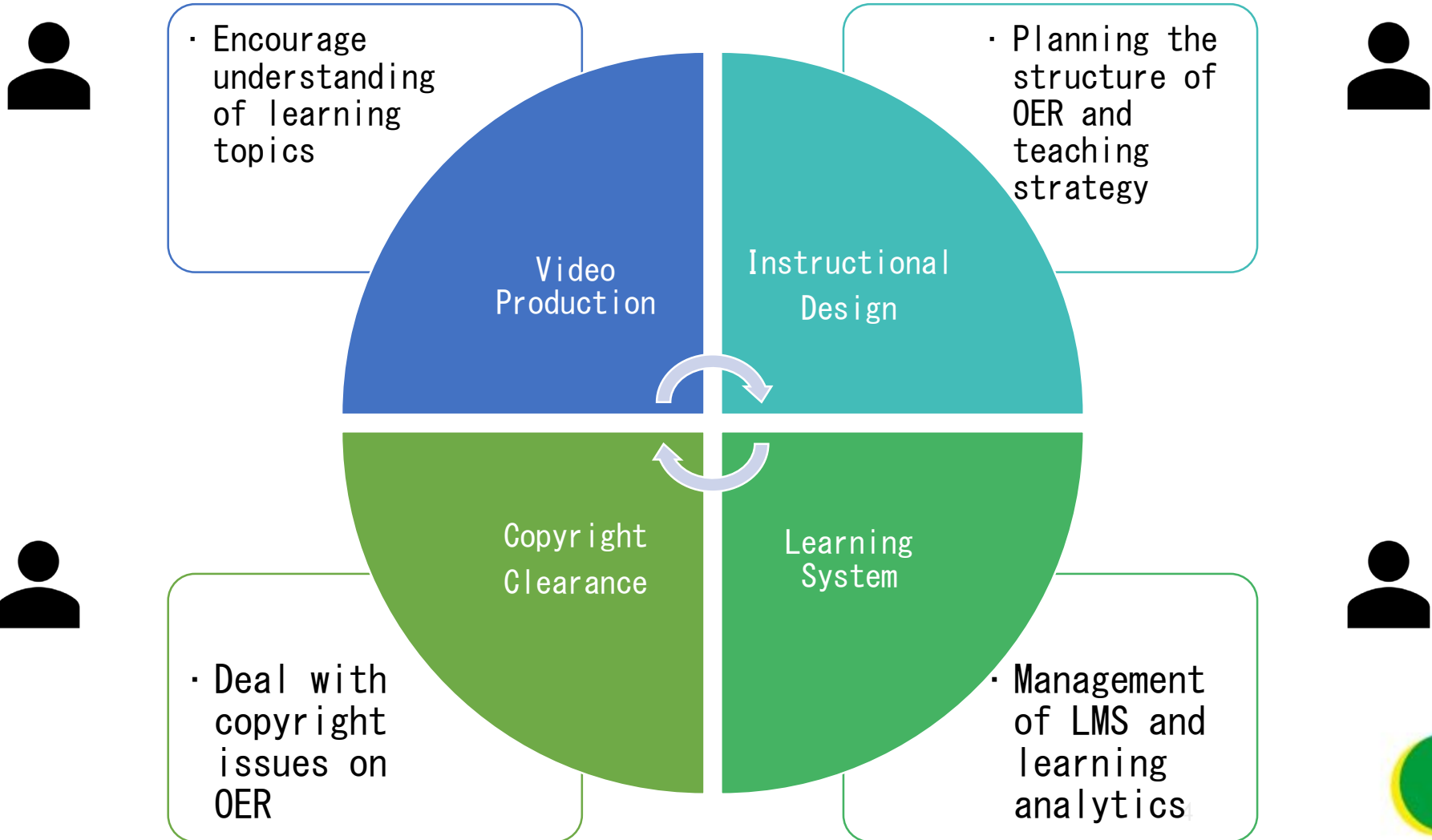
Organization of the Center for OE HU

- Two divisions
 - OE Development division: OER development and utilization, MOOC
 - CoSTEP: Research and education of Science communication
- Staff (E-learning division)
 - Director
 - 5 full-time
 - 5+ half-time (including graduate students)

Staff



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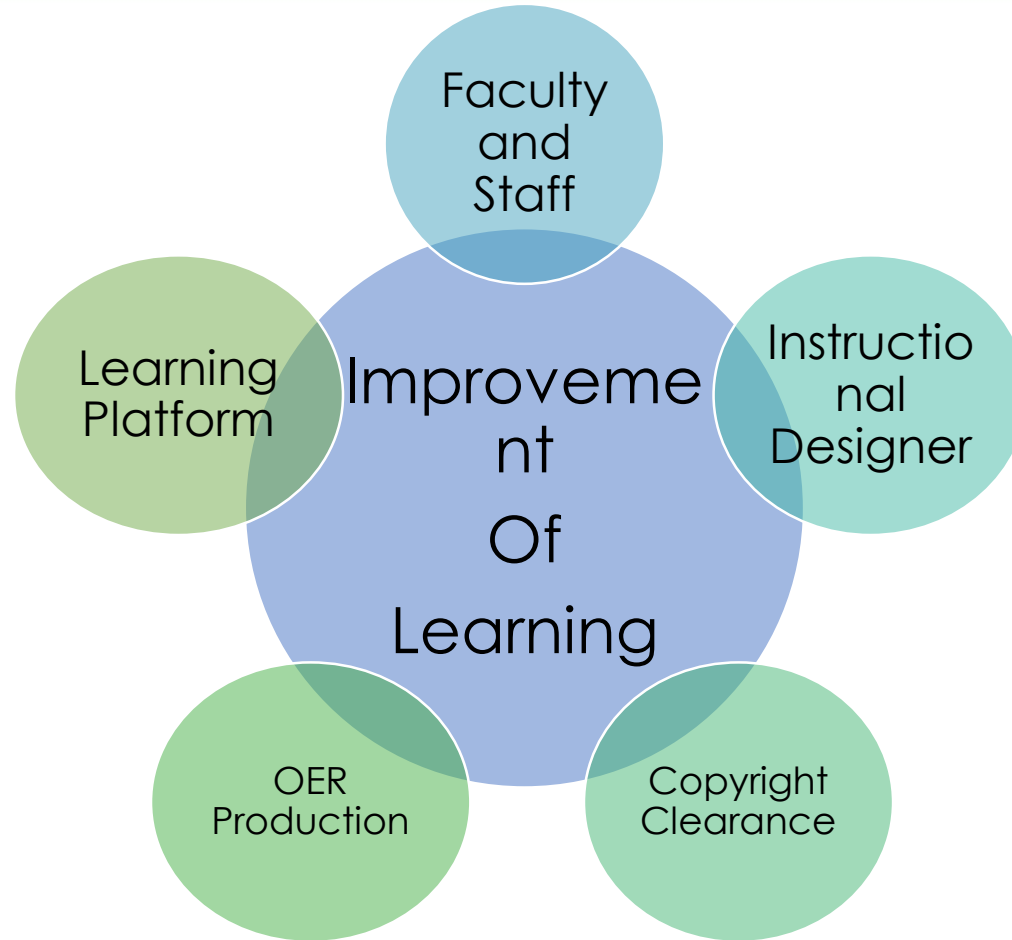
Facility

- Staff room
 - Project management
 - OER development and video editing
- Special studio for lecture capture





Our function towards improvement of learning





Developing OER



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- Lecture capture
 - Mainly developed before, become fewer
- Structured OER
 - Committed to instructional design
- Skill training video
 - OSCE(Objective Structured Clinical Examination) for veterinary medicine
- Introduction of virtual reality



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Utilizing OER

- Develop OER for faculty
 - For blended learning and flipped classroom
 - Consultation with staff specialized for instructional design, video production and copyright clearance
- Share OER for campus education
 - In Hokkaido University
 - Open to the public: via OCW and MOOC
 - Share with universities around Hokkaido region: cooperatively deliver liberal arts education

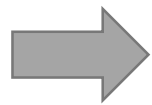


Cooperation of universities in Hokkaido

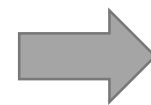
- Utilize distance learning
 - Video conferencing system
 - Special classroom for active learning
- Improve student outcomes
 - Overcoming challenges to increase effectiveness of distance learning



18th century
21st century

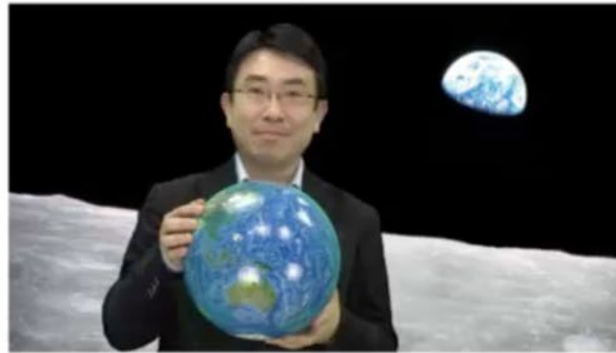


20th century





Examples of OER



【復習】放射線の種類

放射線の定義
電離(性)放射線とは、直接または間接に、荷電粒子のクーロン力を介し、物質を電離する能力を持つ粒子線または電磁波

- 目に見えない高速の小さな粒子
- 高いエネルギーを持った電磁波

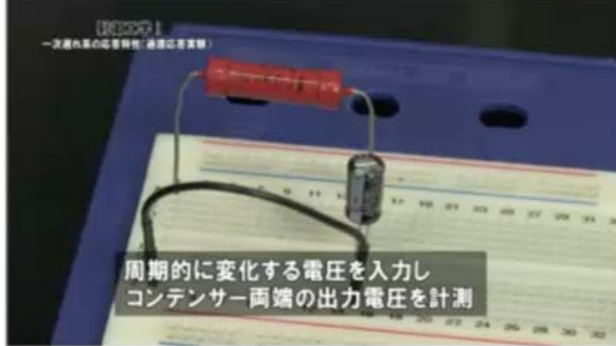
- α線 → ヘリウムの原子核・重い荷電粒子
- β線 → 高速の電子・軽い荷電粒子
- γ線・X線 → 高いエネルギーの電磁波
- 中性子線 → 原子核の中にある電荷を持たない粒子

著作権の制限: 引用

引用の条件

- 公表された著作物であること
- 「公正な慣行」に合致すること
- 報道・批評・研究などの引用の目的上「正当な範囲内」であること
- 引用部分とそれ以外の部分の「主従関係」が明確であること
- カギ括弧などにより「引用部分」が明確になっていること
- 引用を行う「必要性」があること
- 「出所」の明示が必要(コピー以外はその慣行があるとき)

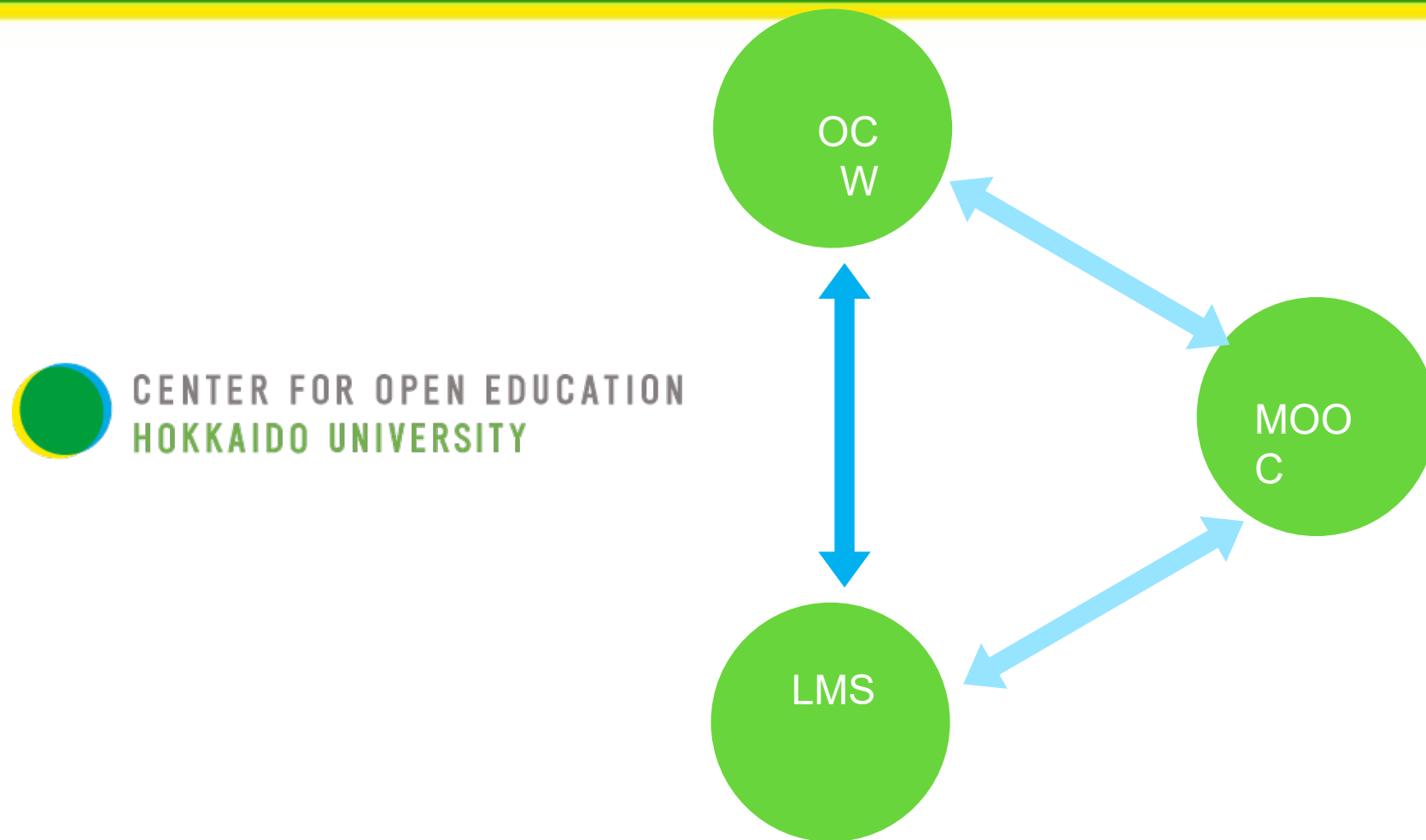
他人の著作や作品を自分の作品で使う時は引用する



- MOOC-type materials
- Some OERs are based on existing OER (CMU OLI)
- Open license (CC-BY-NC)



Share OER with multiple platforms

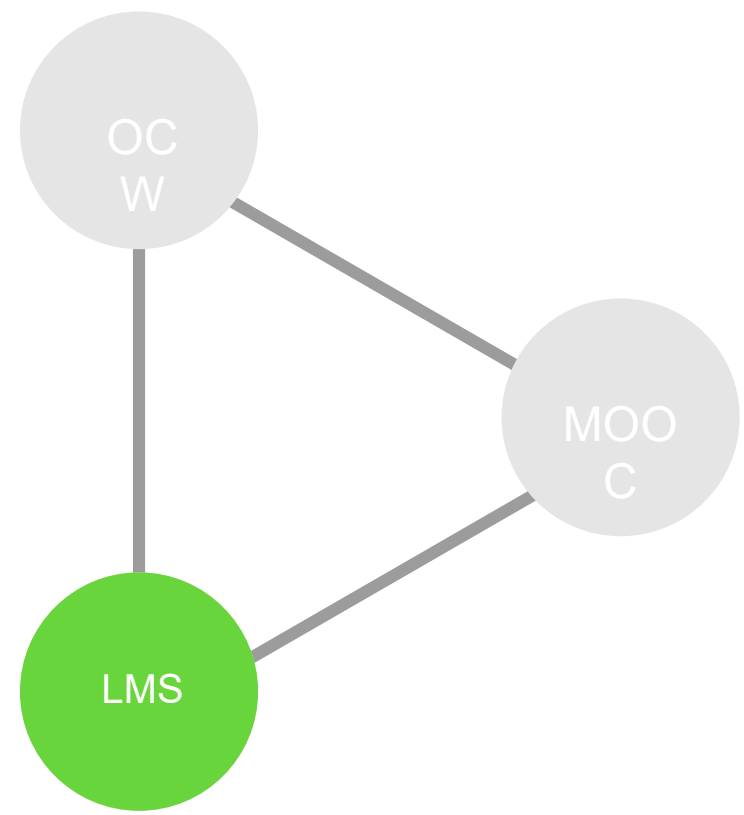




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Share OER via LMS for campus education

The screenshot shows two overlapping web browser windows. The top window is the ELMS (Educational Information System) portal, displaying navigation menus like 'HOME', 'Group', and 'Search Group', along with news and training sections. The bottom window is a Moodle course page for '原子炉工学概論1(千葉 豪)', featuring a video player and a list of course materials. Below the screenshots is the ACE (Academic Commons for Education) logo and a map of Hokkaido, followed by logos of member universities and a course announcement for 'ACEHU001 応用倫理学入門'.

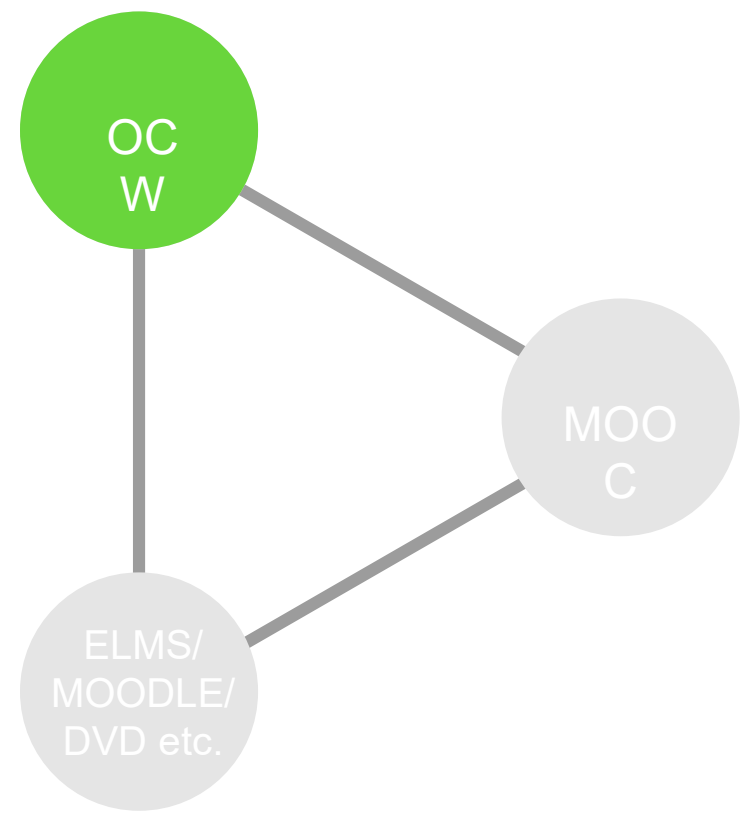


- ELMS
- Moodle
- Open edX (for consortium)





Share OER via OpenCourseWare





HU-OCW



- Develop and publish OER and MOOC
500+ lectures 2K+ materials 60k+ access / year
- Received Open Education Award (OE Global)



Lecture videos and materials

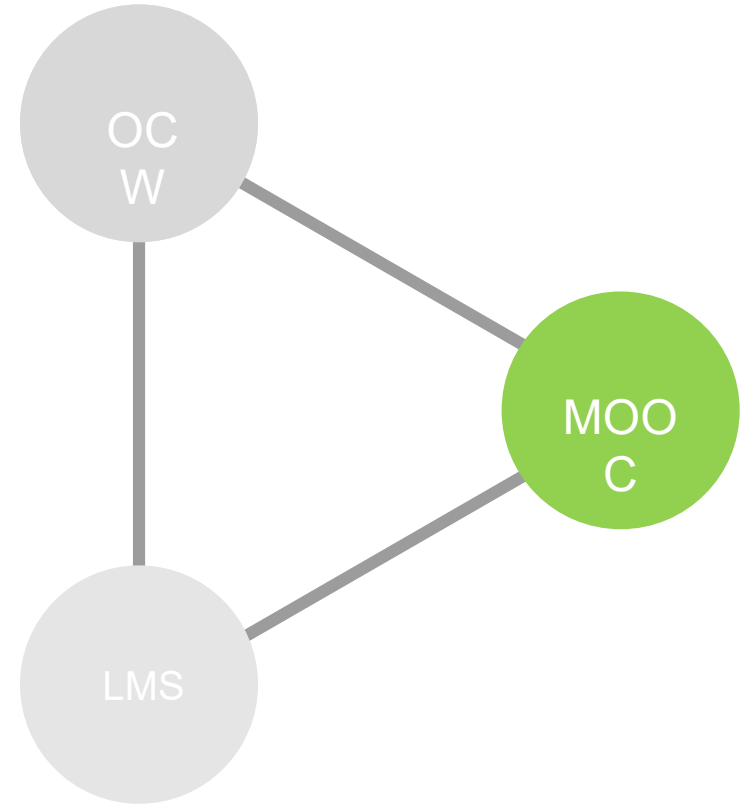




Open MOOC through reusing OER



The screenshot shows the OECx website interface. At the top, there are navigation links: 'HOW IT WORKS', 'COURSES', and 'SCHOOLS & PARTNERS'. Below this is a banner for 'The Global Network for Open Education' with the OECx logo. The main content area features a course titled 'Effects of Radiation: An Introduction to Radiation and Radioactivity'. The course description includes: 'Introduction to detection, measurement, chemistry and effects of radiation in industry, medicine and society.' It also shows a green 'Enroll Now' button, a checkbox for email notifications, and a Creative Commons Attribution-NonCommercial (CC BY NC) license icon. Course details listed include: Level: Introductory, Length: 4 weeks, Effort: 2-4 hours/week, Subject: Science, Institution: OECx, and Language: English.

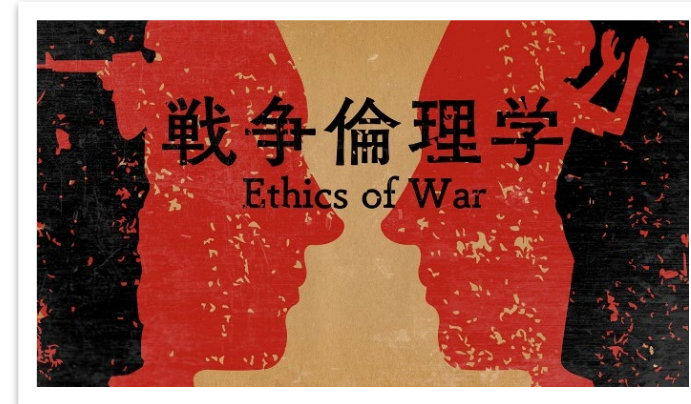




Open MOOC to reuse OER

- edX and JMOOC
 - Develop at least 1 course / year

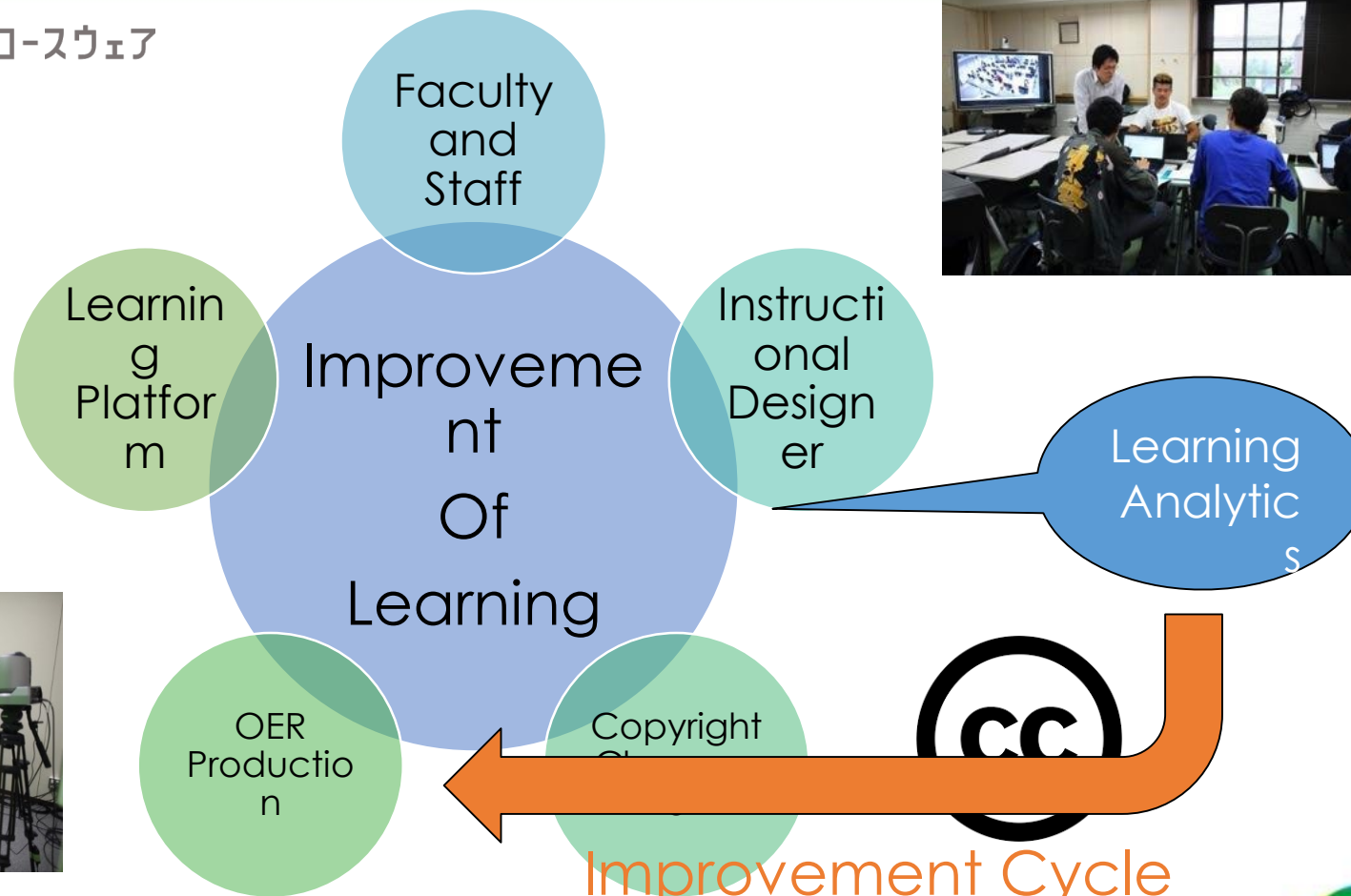
The screenshot shows the edX course page for "Effects of Radiation: An Introduction to Radiation and Radioactivity". The page includes navigation links for "HOW IT WORKS", "COURSES", "SCHOOLS & PARTNERS", and "DASHBOARD". The course title is "Effects of Radiation: An Introduction to Radiation and Radioactivity", starting on July 14, 2015. A green "Enroll Now" button is prominent. Below the button, there is a checkbox for email notifications. The "About this course" section describes the practical applications of radiation in various fields. A sidebar on the right lists course details: Level: Introductory, Length: 4 weeks, Effort: 2-4 hours/week, Subject: Science, Institution: OECx, and Language: English.



- Development of OER for digital literacy
 - Cooperative research with Adobe
 - Focus on 21st century skills
 - Share and reuse on other universities
- Effectiveness of MOOC
 - Assessment of peer-review of essay
 - Analysis existing essays of learners
 - Propose improved strategy for precise scoring



Improvement of learning by team-based efforts



2020~2021 University-wide support for remote teaching

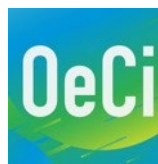
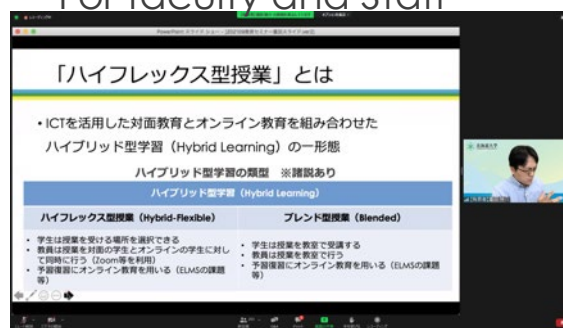
Creating website for Teaching online



<https://sites.google.com/huoec.jp/onlinelecture>

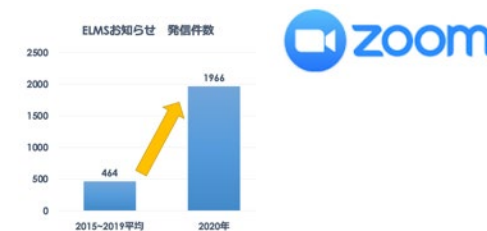
- Guidance for selecting appropriate online teaching methods based on instructional design theory
- Viewed by 390,000 people by the end of 2021
- Accumulation of FAQs that aggregate answers to inquiries

Implementation of Seminar For faculty and Staff



- Sharing advanced educational methods and good practices
- A total of 3,000 participants by the end of FY2021
- Established a Slack group for online learning methods

Information Science Department



- Increasing capacity of LMS
- Introducing Zoom university license
- Lending PCs and Wi-Fi routers to students



Hybrid Learning

- Hybrid-flexible learning for students' flexibility
- Blended learning combining online learning and face-to-face

Hybrid Learning

Hybrid-Flexible

Emergency Remote Teaching

- Students have the flexibility to choose where to take classes
- Teachers give classes to both face-to-face and online students
- Conduct supplementary lessons online by capture lecture

Blended

Combining online and Face-to-face Learning

- Knowledge acquisition and self-evaluation online
- Active learning and collaborative learning in face-to-face
- Conducting exams and communication between faculty and students on campus



Challenges for hybrid-flexible learning

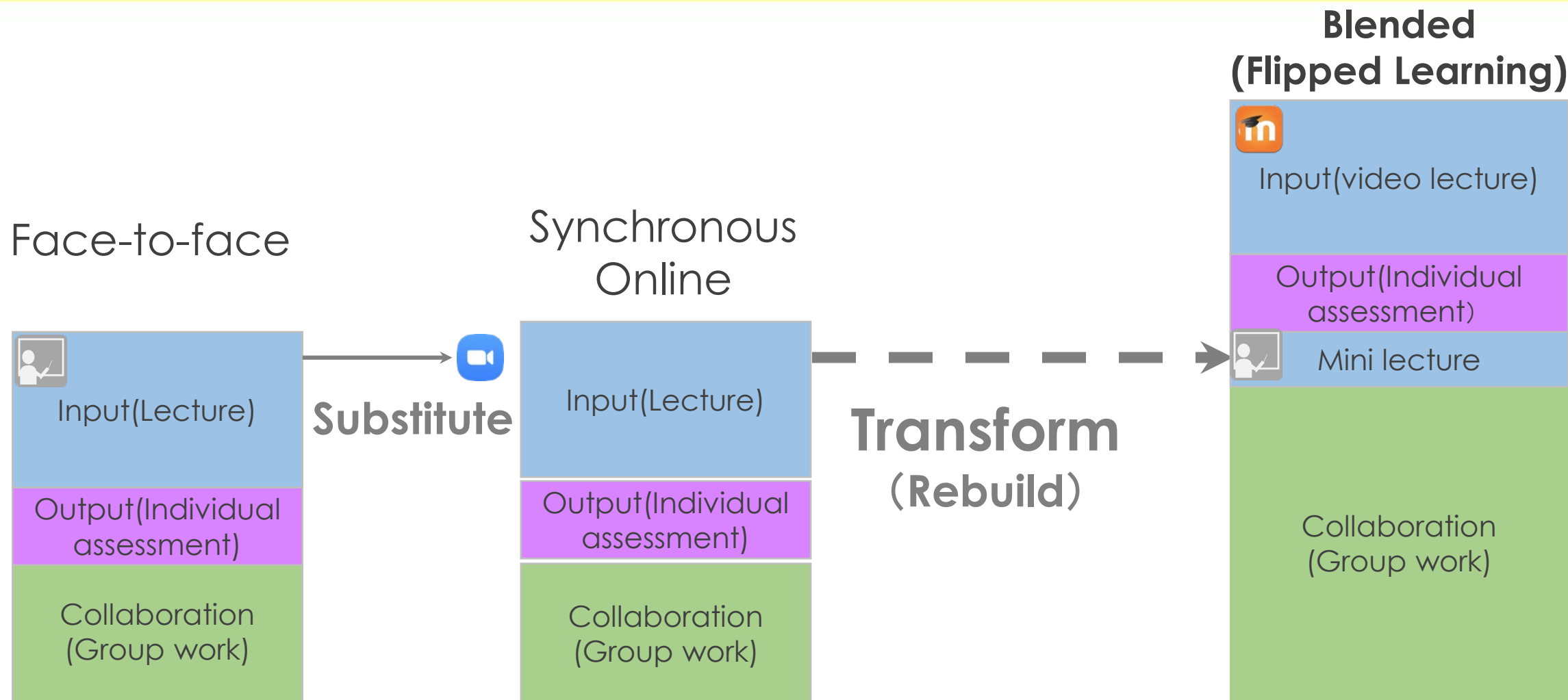


- Giving Students Flexibility in Taking Courses
- Infection prevention
- Increased burden on faculty

Student Attendance	Students' flexibility	Faculty burden	Learning effectiveness
Classroom	Easy to participate active learning and communication	Utilize existing teaching methodology	Relatively high
Synchronous online	Infection prevention	Difficulty to grasp students' learning status	Relatively low
Asynchronous online	On-demand learning by lecture video	Time consuming for lecture video preparation	Combining face-to-face learning is desirable

Rebuilding method : Developed by OEC

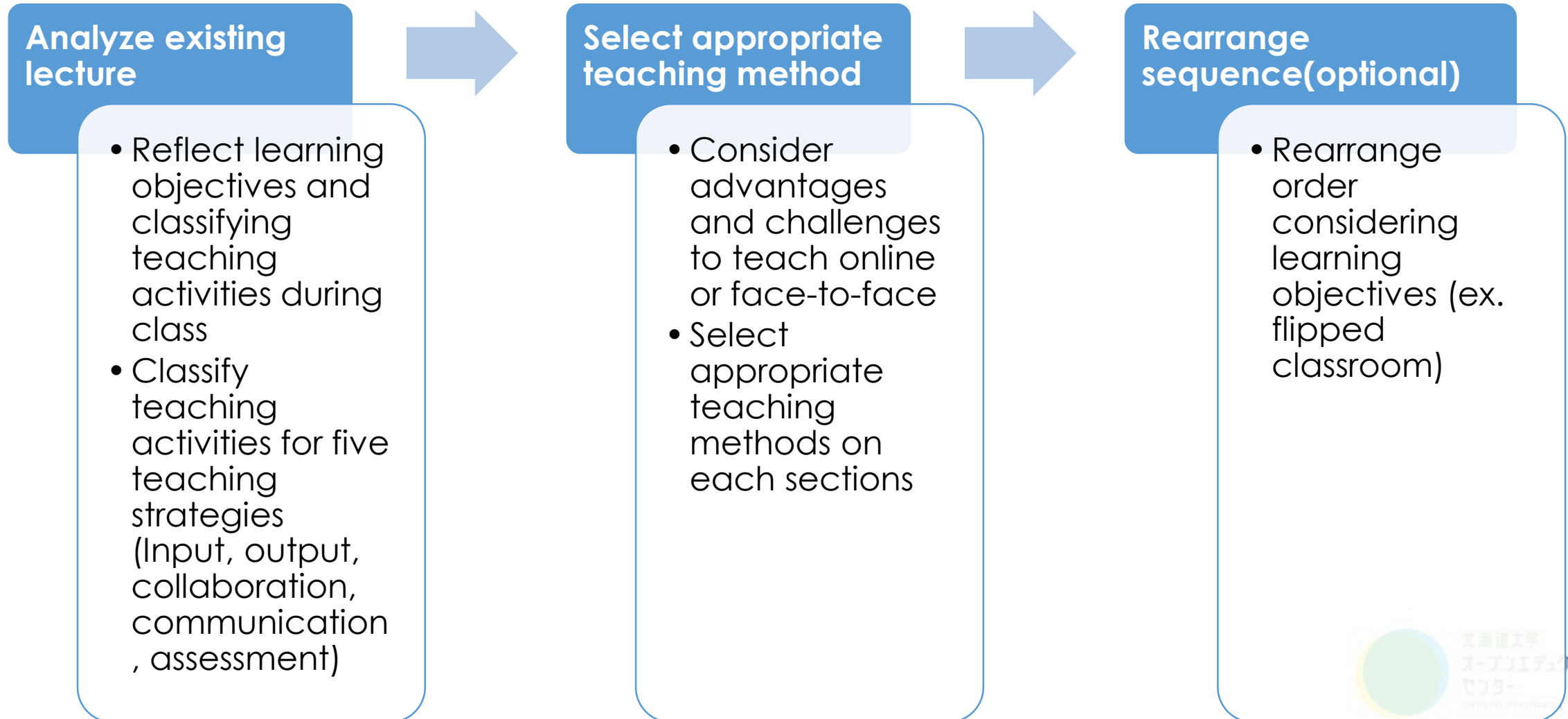
Transforming existing lecture to blended learning





Rebuilding method : Developed by OEC

Transforming existing lecture to blended learning





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Thank you everyone for your Patience



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