

Educational technology in teaching

— Course Design Fall 2021

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Aalto-yliopisto
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Schedule

Definitions and background: Blended learning,
Hybrid learning, Hybrid flex
Technical implementations in Aalto
Experiences of hybrid learning and discussion

Group work: Developing a course with
educational technology

10:15 – 10:20

11:20 – 11:30

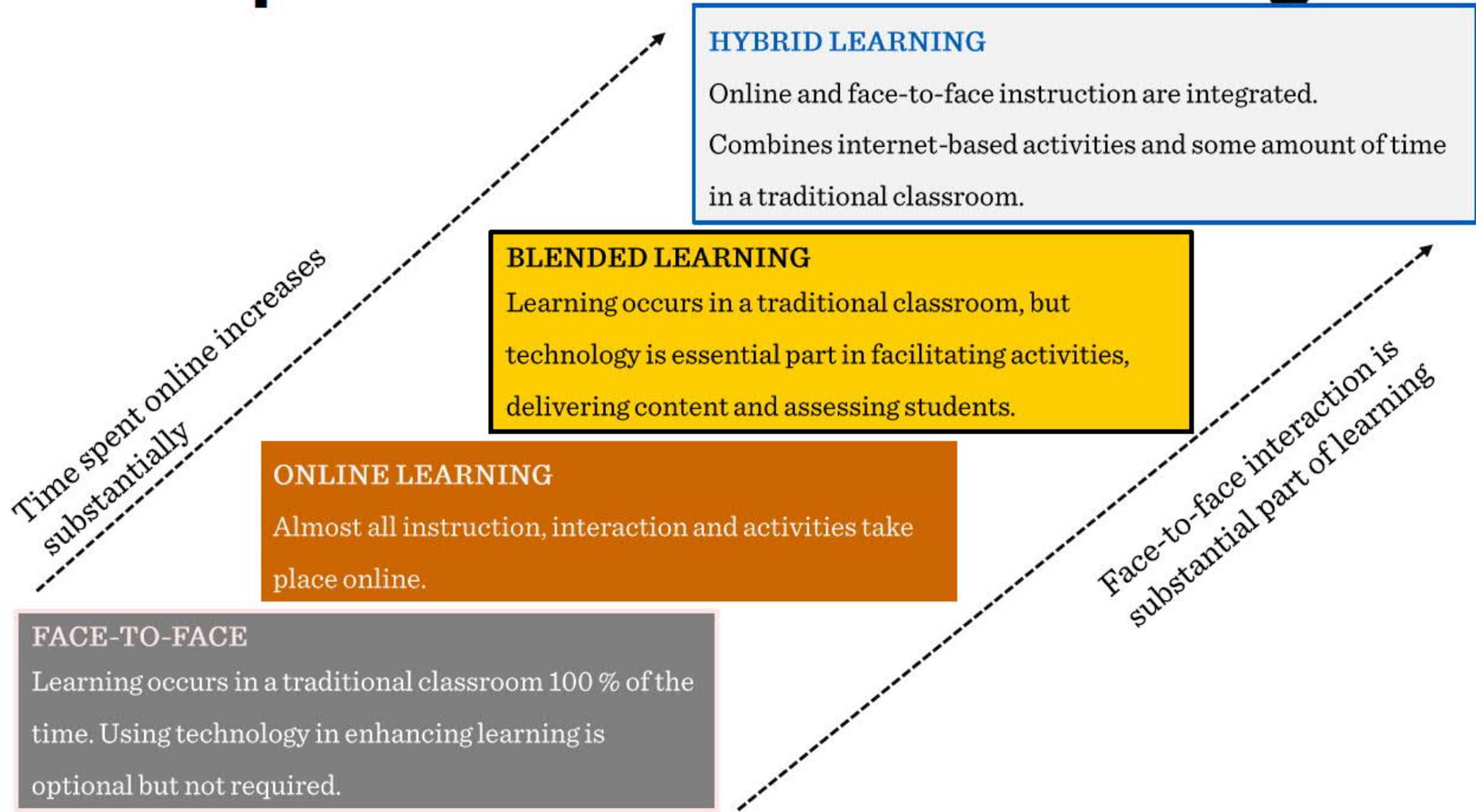
9:15 – 10:15

10:20 – 11:20

BREAK 1

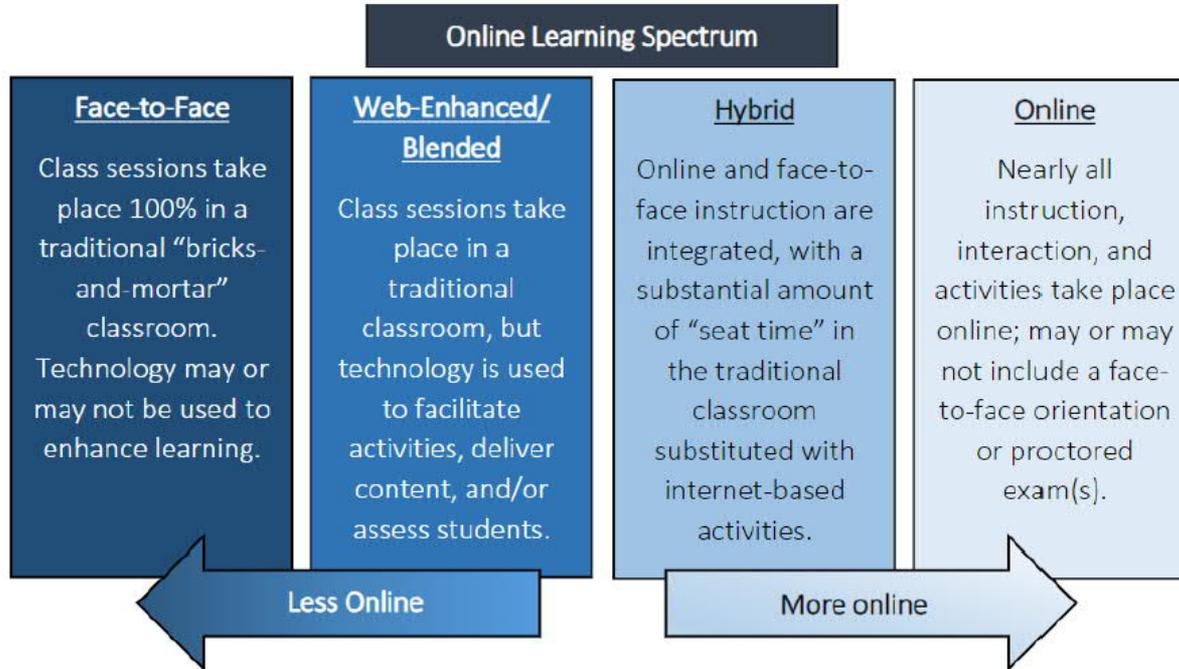
BREAK 2

The spectrum of online learning



What is hybrid learning?

Hybrid learning combines online and onsite interaction



Hybrid flex

In Hybrid Flex students could choose between

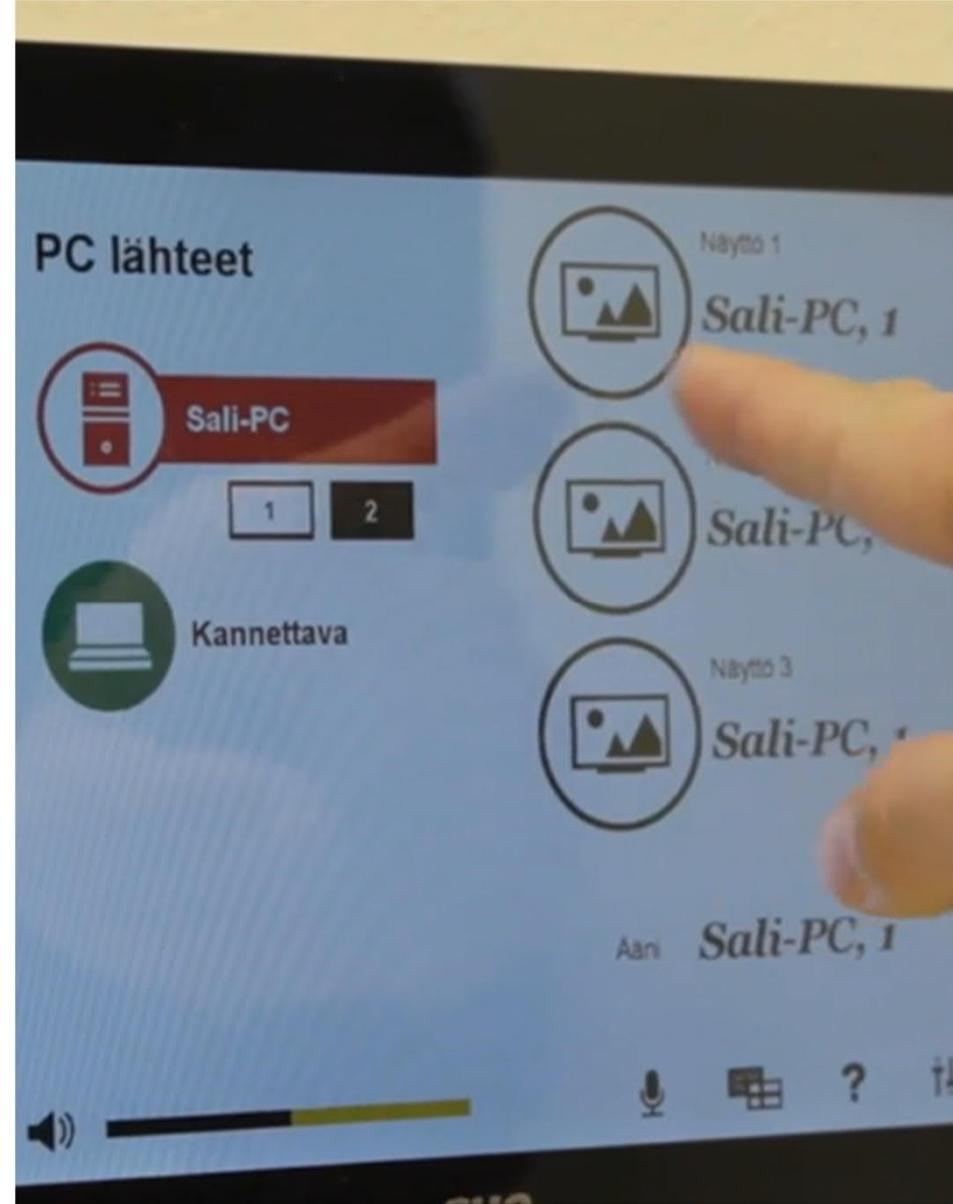
- **Face-to-face class sessions in-person**
- **Face-to-face class sessions online**
- **Course work asynchronously via MyCourses**

Group discussion:



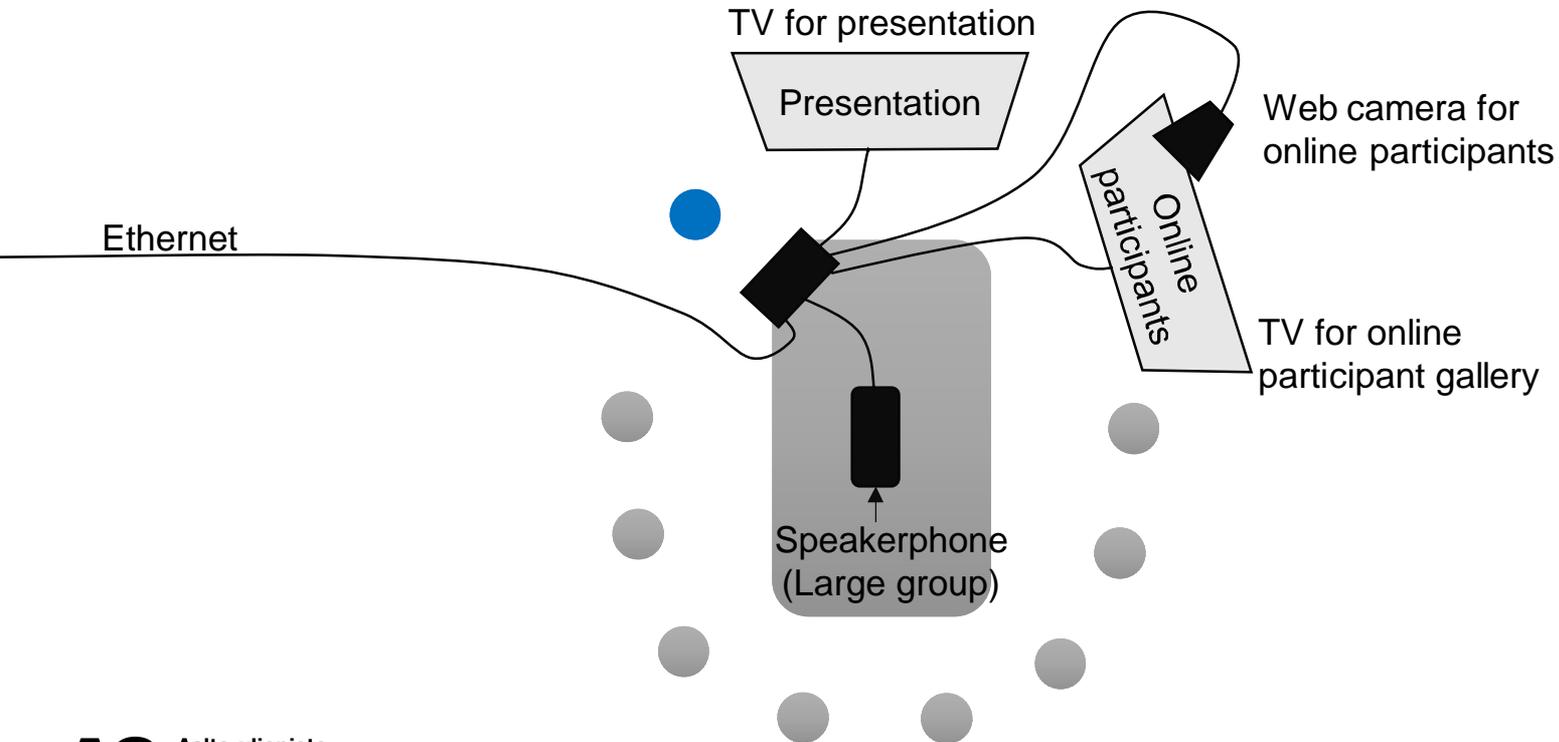
Sense of togetherness

- Audio quality is essential (understanding and spatiality)
- Ability to see action in the classroom (sense of control)
- Clear instructions (ability for action)



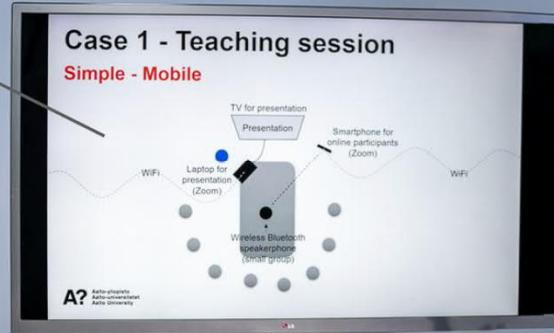
Basic setup

Lecture, demonstration, groupwork, discussion



TV

for presentation



Laptop

Hosting the Zoom session

- Camera for host on
 - Microphone muted
 - Chat
 - Management / Gallery view of the participants
- Running and sharing the presentation

Smartphone

- Running Zoom
- Joined to the Zoom session as a participant
- Video and microphone on
- Online participants **can see** via this device
- Connected wirelessly to the speakerphone
- Mounted on light tripod

Speakerphone

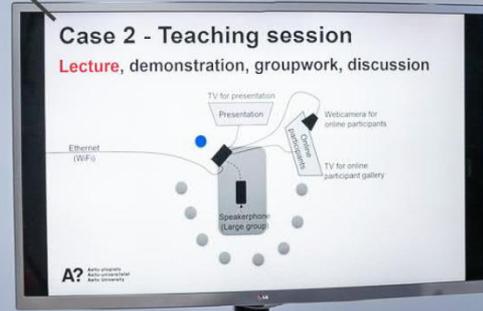
- Speaker/Microphone
- Carried around to close proximity of the speaking person onsite
- Online participants **can speak/hear** via this device
- Connected wirelessly to the smartphone

TV for online participant video gallery

Smartphone

Connected wirelessly to the **speakerphone**
Joined to the Zoom meeting as a participant

TV for presentation



Laptop

Hosting the Zoom meeting
Running the presentation

Speakerphone

Connected wirelessly to the **smartphone**



Options – What's right for you?

Basic equipment only for you

- Speakerphone
- External USB webcam
- Light tripod for a smartphone

Advanced set as a kit – Great quality and flexibility available at takeout.aalto.fi service

- 4K video camcorder as a external camera for a computer
- External USB webcam
- Set of multiple wireless microphones
- Portable monitor as a second screen
- Tripods for cameras and smartphone

A Special hybrid ready classroom at campus with all the equipment needed for wide variety of needs.

Options – Support?

Possibility to reserve a technical support in advance on site at the start of a teaching session.

A media rich repository of guides, tutorials and case examples online for individual study purposes.

Formal training and consultation well in advance the final planning and execution of the course for coaching and practicing.

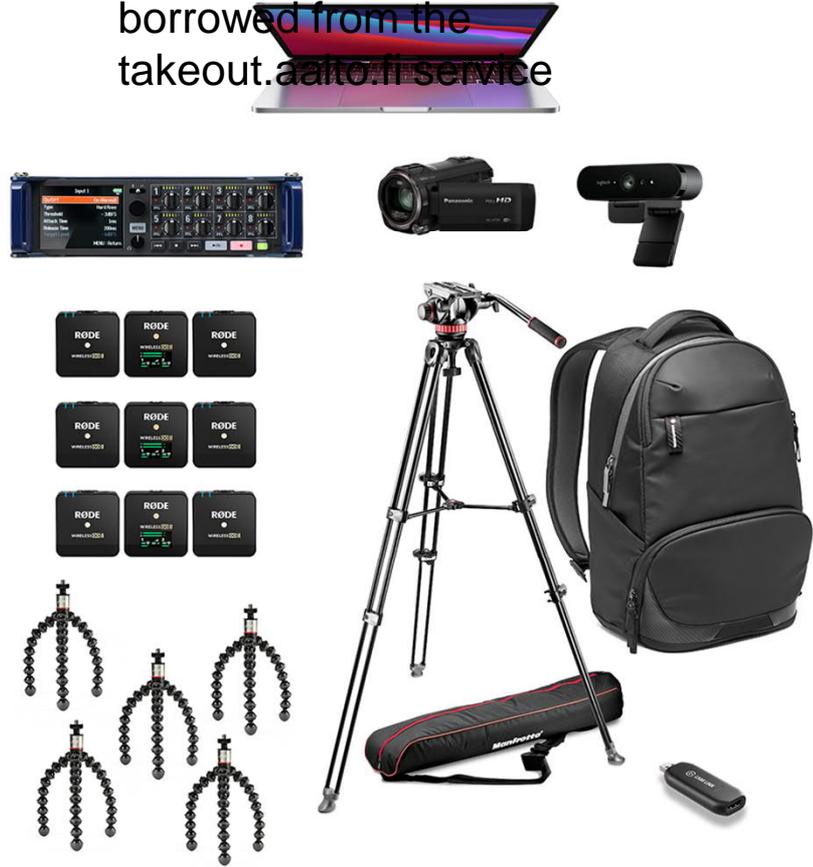
A reliable hotline number to call to in case things stall/do not work when starting the teaching session all by yourself at the campus.

Would you choose...?

Basic equipment in your private possession



Advanced high-quality equipment as a kit borrowed from the takeout.



Special hybrid teaching classroom with extended set of





<https://support.zoom.us/hc/en-us/articles/360045757252-ProAV-hybrid-classroom>

Basic hybrid classroom setup at Aalto





Gallery view of
online participants
for the teacher





Smartphone as
"eyes" for the
online participants

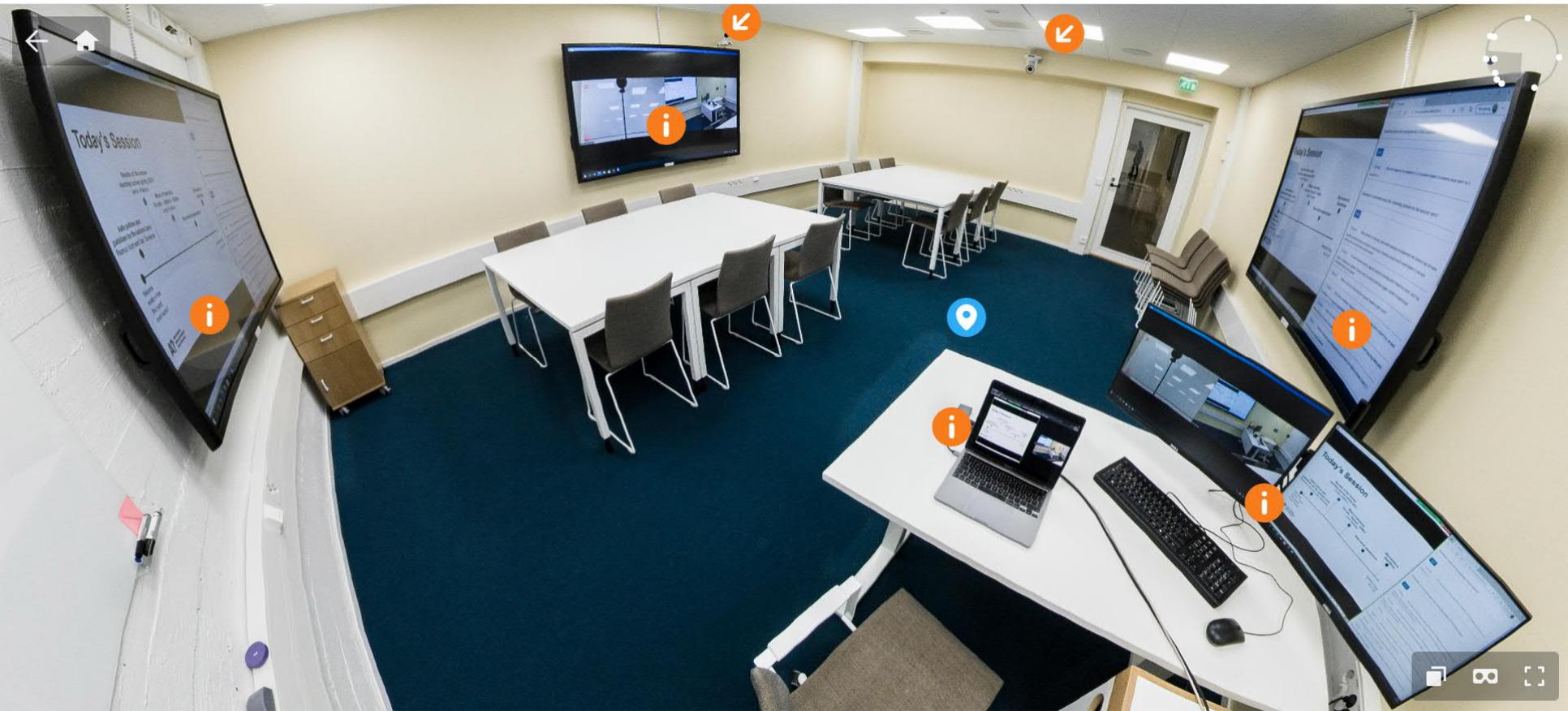
Cameras of the onsite
participant laptops are on

Speakerphone for
online participants



Co-teacher
hosting
online
participants

Gallery view
of online
participants



Digital learning in Aalto – spaces, tips, tools and help

- Classrooms and spaces with lecture capture built-in:
<https://wiki.aalto.fi/display/OPIT/Lecture+capture+spaces>
- Hybrid teaching tips, tools and help:
<https://wiki.aalto.fi/display/OPIT/Hybrid+teaching+in+Aalto+University>
- Get to know the hybrid teaching studio (Otakaari 1, U134a):
[https://www.thinglink.com/video/1501843579960557571 /](https://www.thinglink.com/video/1501843579960557571)
<https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=0c04bc4b-cf58-4383-b4b6-adc200aa7b95>

Discussion

What do you see are the pros and cons of hybrid teaching?

What have we learned from “mandatory online teaching” during Covid-19?

Pros and cons of hybrid teaching



- + Flexibility for the students**
- + Supports different individual learning strategies**
- + Encourages to rethink teaching practices and methods**

- Managing many channels**
- Planning to provide clear instructions for all interaction**
- Technology should be tested before each class**

Will hybrid teaching work for you? If you can't clarify the purpose to yourself, it may be hard to put on a successful event



Break 5 min.



Group work

Discuss in groups how you could develop your course with educational technology.

- **What tools would you choose and why?**
- **Think also about the options: Hybrid, blended, hybrid flex, onsite...
Would you use rich media content?**
- **Would educational technology work with assessment and activating learning? (20 min, in groups of 3-4, break out rooms)**

Present your ideas – use Flinga or any format you find suitable (10 min / group)

Break 10 min.

