Synchronous & Asynchronous Learning

Insights from experiences in UEL and NYU

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Streaming of Classes

CE4623 – NYU Polytechnic School of Engineering

Streaming of Classes

Rationale of the Project

- Connect multiple campuses

- Appoint adjunct professors based elsewhere

- Engage students with new experiences / teaching environments

Project development

- 2011, Pilot Project (CE4623, first course entirely streamed online)

- 2012, (CE4623, first course entirely streamed online on multiple campuses with lecturer located abroad)

Streaming of Classes
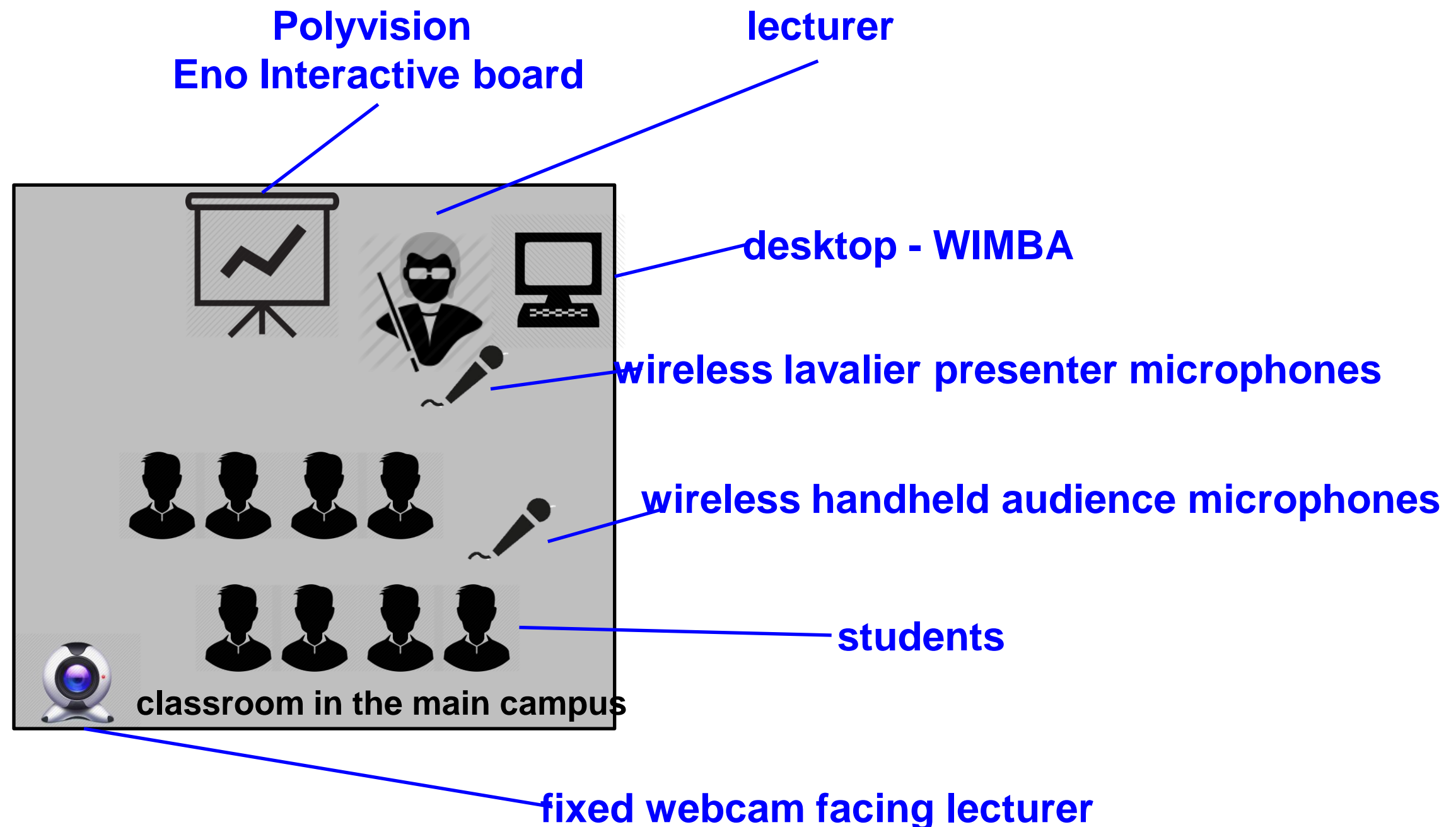
Project development

- 2011, Pilot Project (CE4623, first course entirely streamed online on multiple campuses)

- Technology:

  - Wimba Live Classroom® (acquired by Blackboard®)

  - Fixed webcam activated by audio installed in the classrooms connected to desktops/laptops

  - Wireless handheld microphones

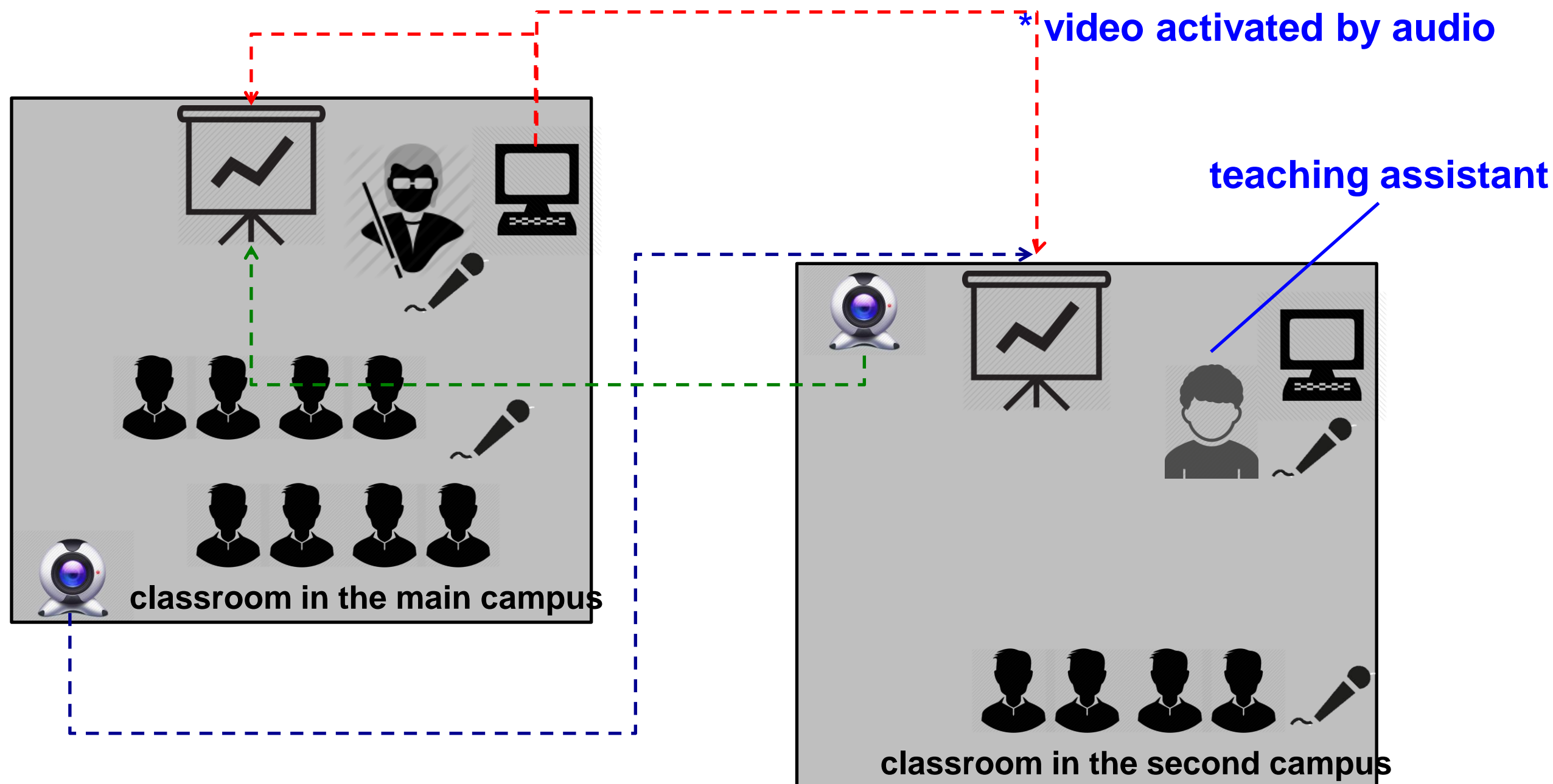 - Polyvision eno interactive board

Streaming of Classes

Technological Solution – main classroom

**Polyvision
Eno Interactive board**

lecturer

desktop - WIMBA

wireless lavalier presenter microphones

wireless handheld audience microphones

students

classroom in the main campus

fixed webcam facing lecturer

Streaming of Classes

Technological Solution – main campus + second campus

* **video activated by audio**

teaching assistant

classroom in the main campus

classroom in the second campus

Streaming of Classes

Technological Solution – main campus + second campus

teaching assistant

* video activated by audio

Streaming of Classes

Project development

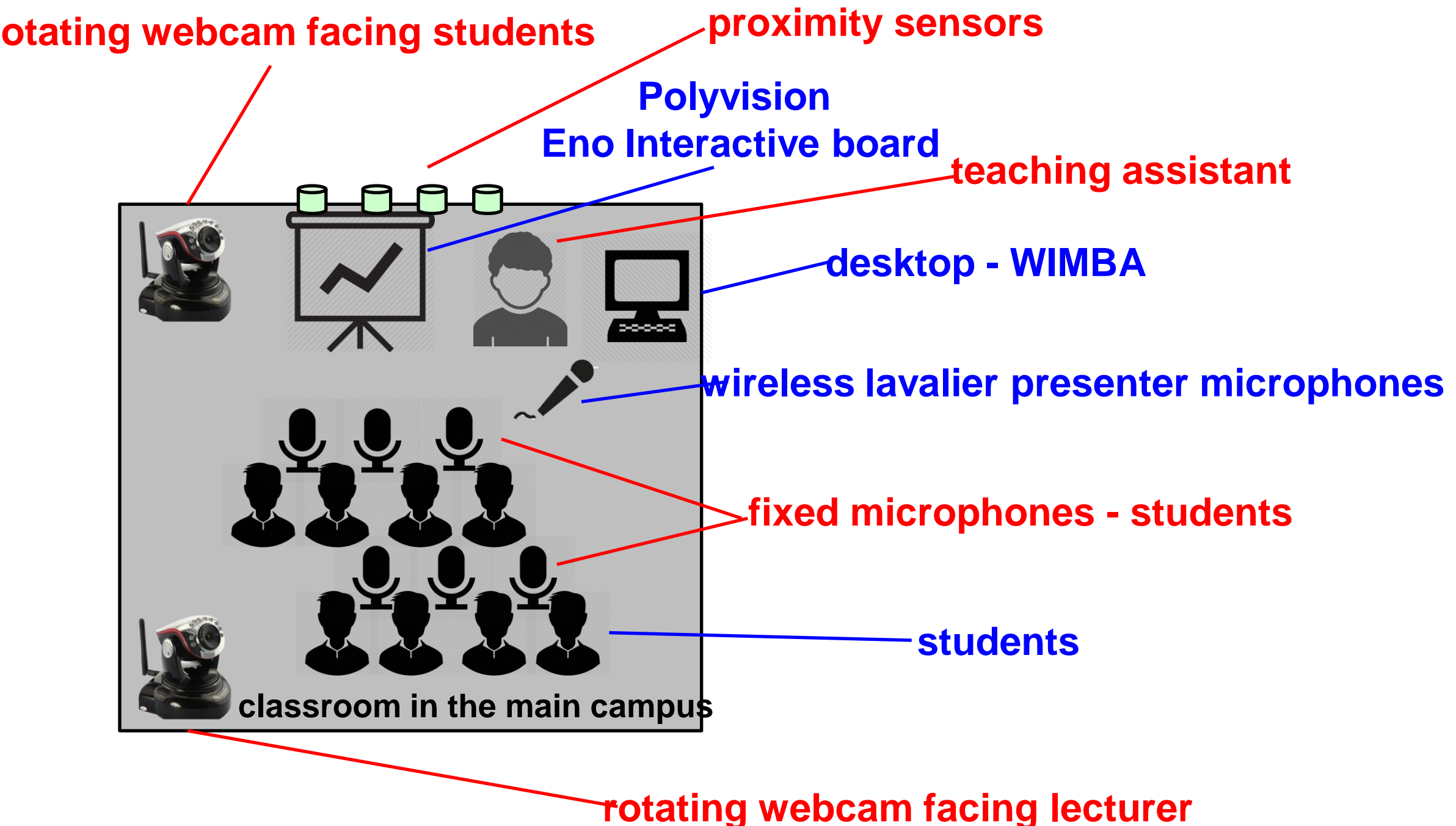- 2012, Pilot Project (CE4623, first course entirely streamed online on multiple campuses with lecturer located abroad)

- Technology:

    - Blackboard Collaborate®

    - Rotating webcams activated by audio with motion controlled by proximity sensors (zooming available)

    - Microphones fixed on students' desks

    - iPad to control remotely SMART board Splashtop Streamer for Eno)

    - Polyvision eno interactive board

Streaming of Classes

Technological Solution – main classroom

rotating webcam facing students

proximity sensors

Polyvision
Eno Interactive board

teaching assistant

desktop - WIMBA

wireless lavalier presenter microphones

fixed microphones - students

students

classroom in the main campus

rotating webcam facing lecturer

Streaming of Classes

Technological Solution – Global Virtual Classroom
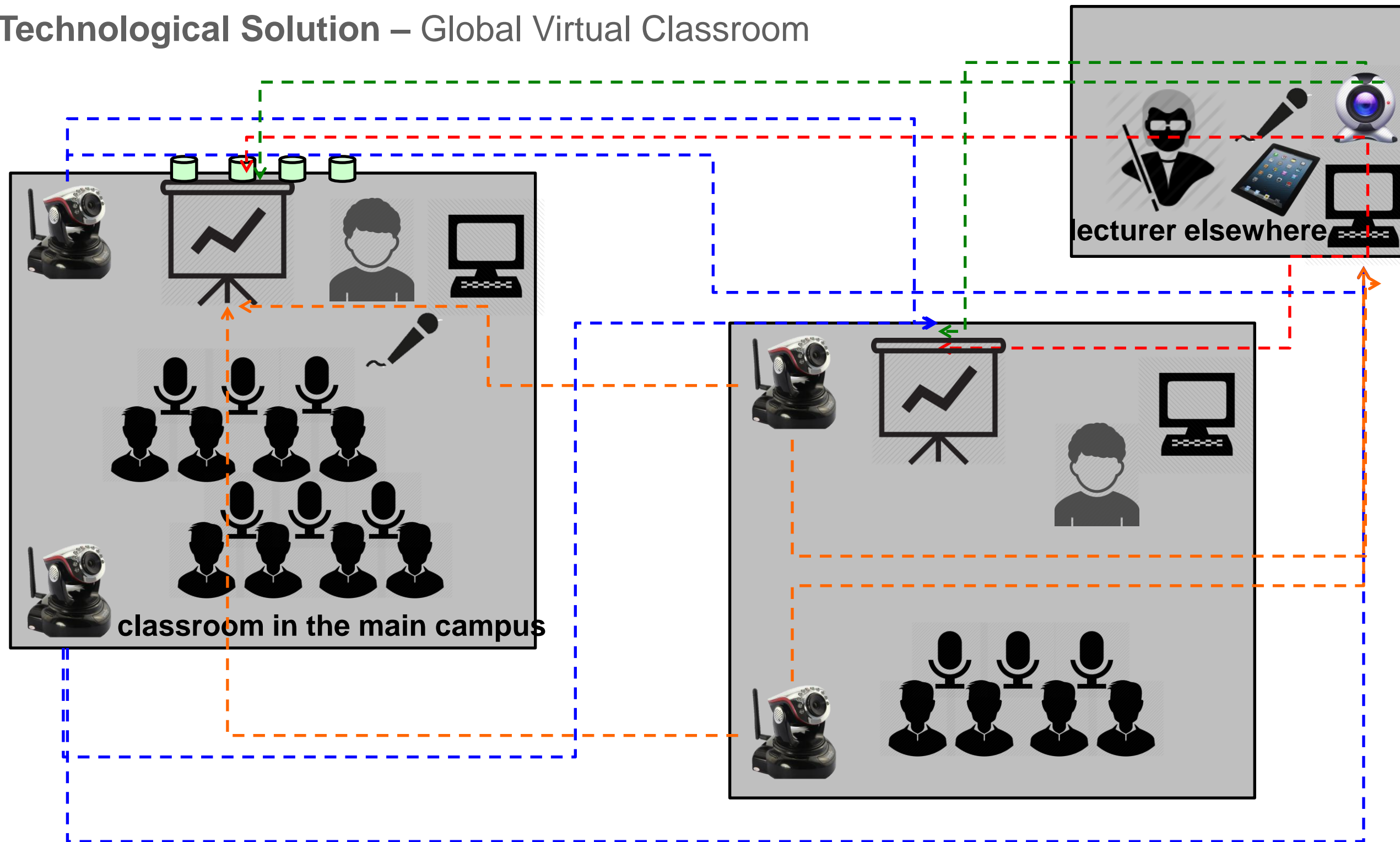
lecturer elsewhere

classroom in the main campus

Streaming of Classes

**Technological Solution –** Video

Streaming of Classes

Learning from the project

- Feedback from students was extremely positive, and NYU is promoting the development of others courses based on this technology;

- Technology requires both Hardware and Software. Proper test of the infrastructure is needed before module start. Technicians are needed to start up the system in every lecture. Teaching assistants are needed to facilitate class activities;

- Powerful WiFi infrastructure is needed;

- With proper technology, classroom virtualization is total !

Online Videos

Global MBA+ – Royal Docks Business School
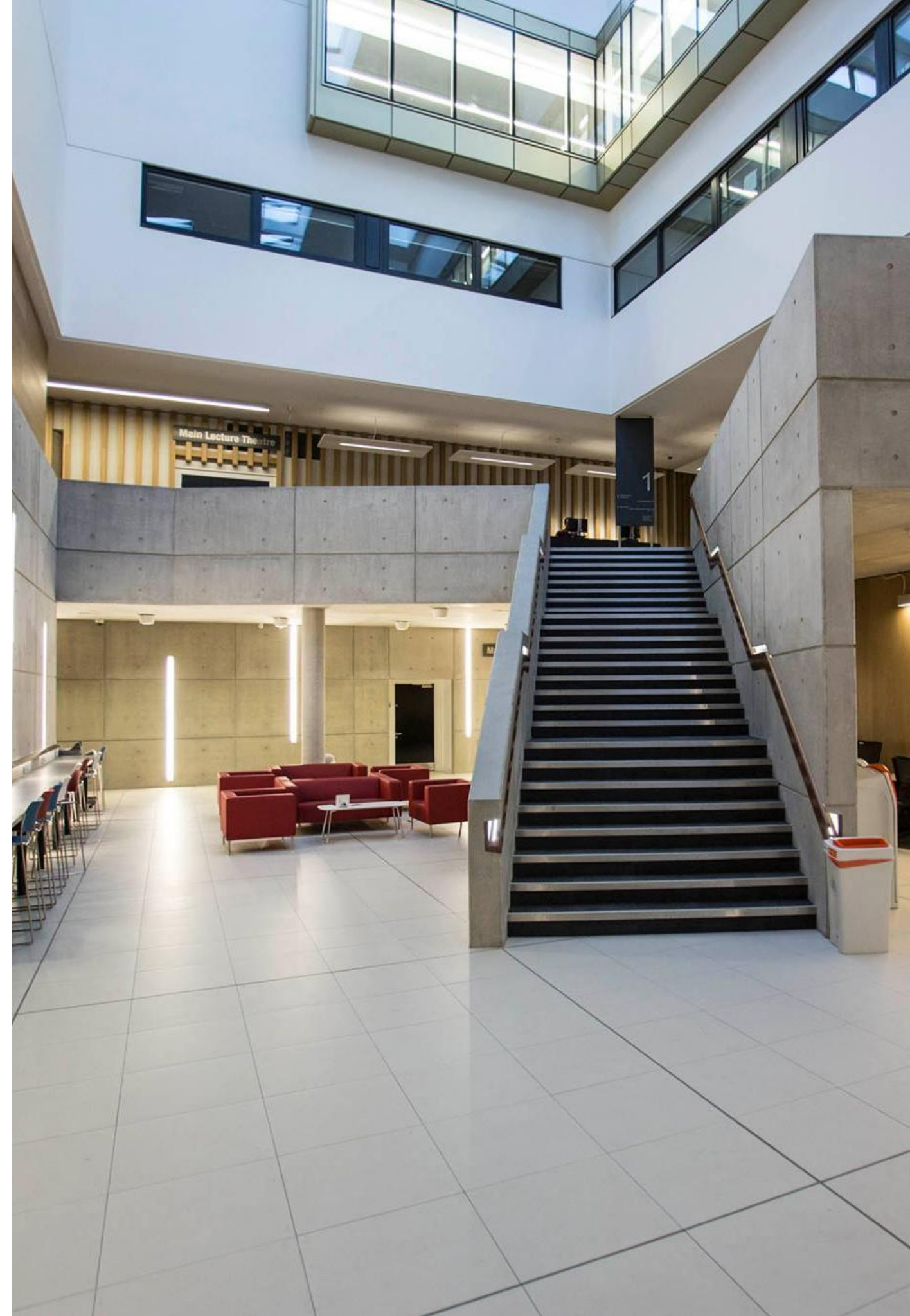
Online Videos

Rationale of the Project

- Develop online materials for blended MBA

- Emulation of class experience

- Distinctive online materials

Project development

- Partnership with Blue Sky Media

BLUE SKY MEDIA

- 2013-2014, Filming of all MBA Lectures

* This presentation limits to present the video materials
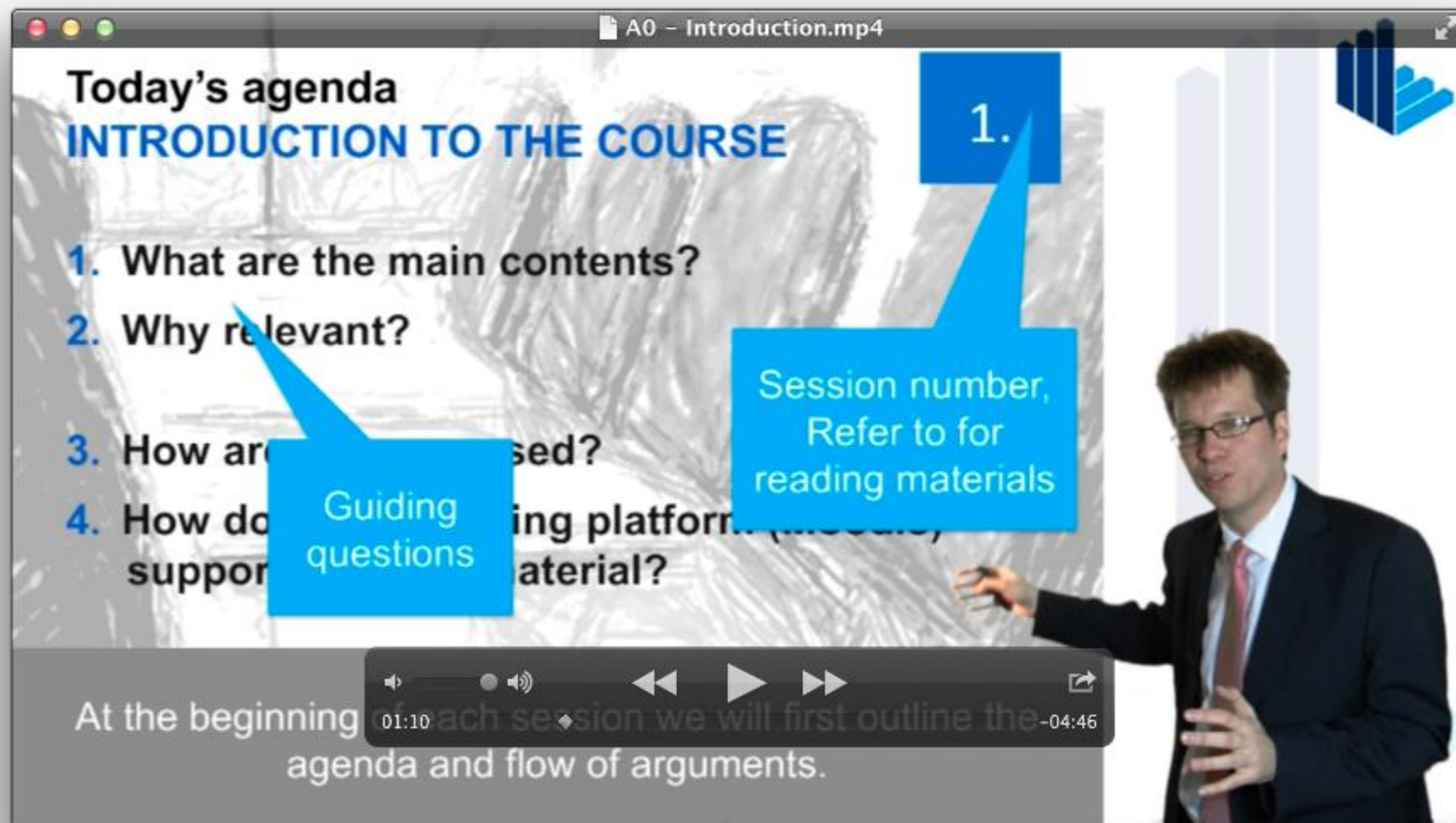
Online Videos

Filming – Stage

Online Videos

Format – Lecture

Online Videos

Format – Learning Objectives / Assignments

Online Videos

Format – Guest Speaker

Online Videos

Format – Example

Online Videos

Learning from the project

- Feedback from students is positive, and we receive demand for similar materials in other programmes;

- Preparation of materials takes time, and proper planning is essential;

- With proper organisation, the development of materials can be cost effective;

- ROI can be achieved in the short term.

Thanks for your attention

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