



# **Synchronous & Asynchronous Learning**

Insights from experiences in UEL and NYU

**Dr Eng Paolo Taticchi**

Director of MBA Programs, University of East London  
Visiting Professor, New York University



# 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

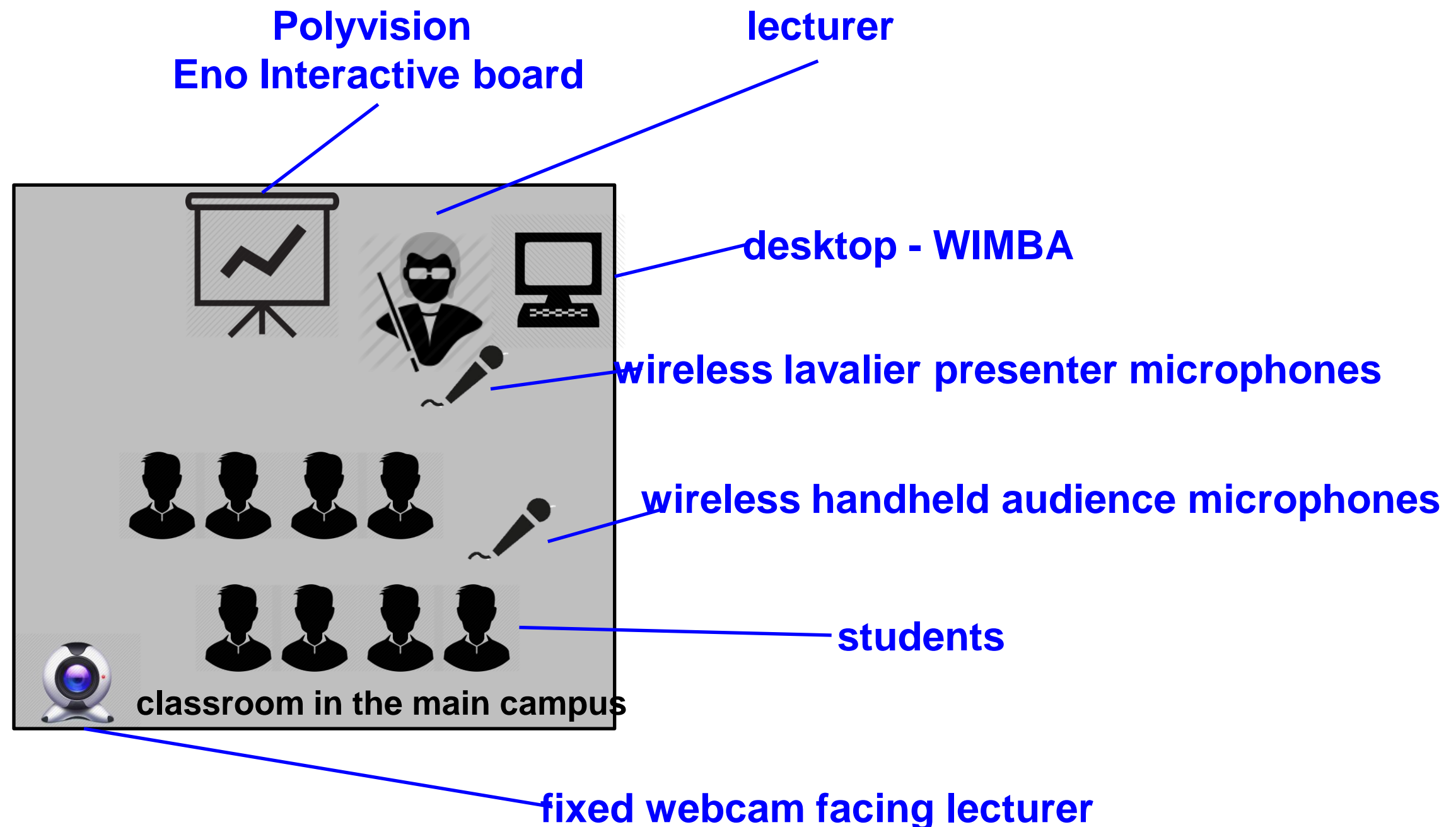
- 2011, Pilot Project (CE4623, first course entirely streamed online on multiple campuses)
- Technology:
  - Wimba Live Classroom® (acquired by Blackboard®)
  - Fixed webcam activated by audio installed in the classrooms connected to desktops/laptops
  - Wireless handheld microphones
  - Polyvision eno interactive board



# Streaming of Classes

---

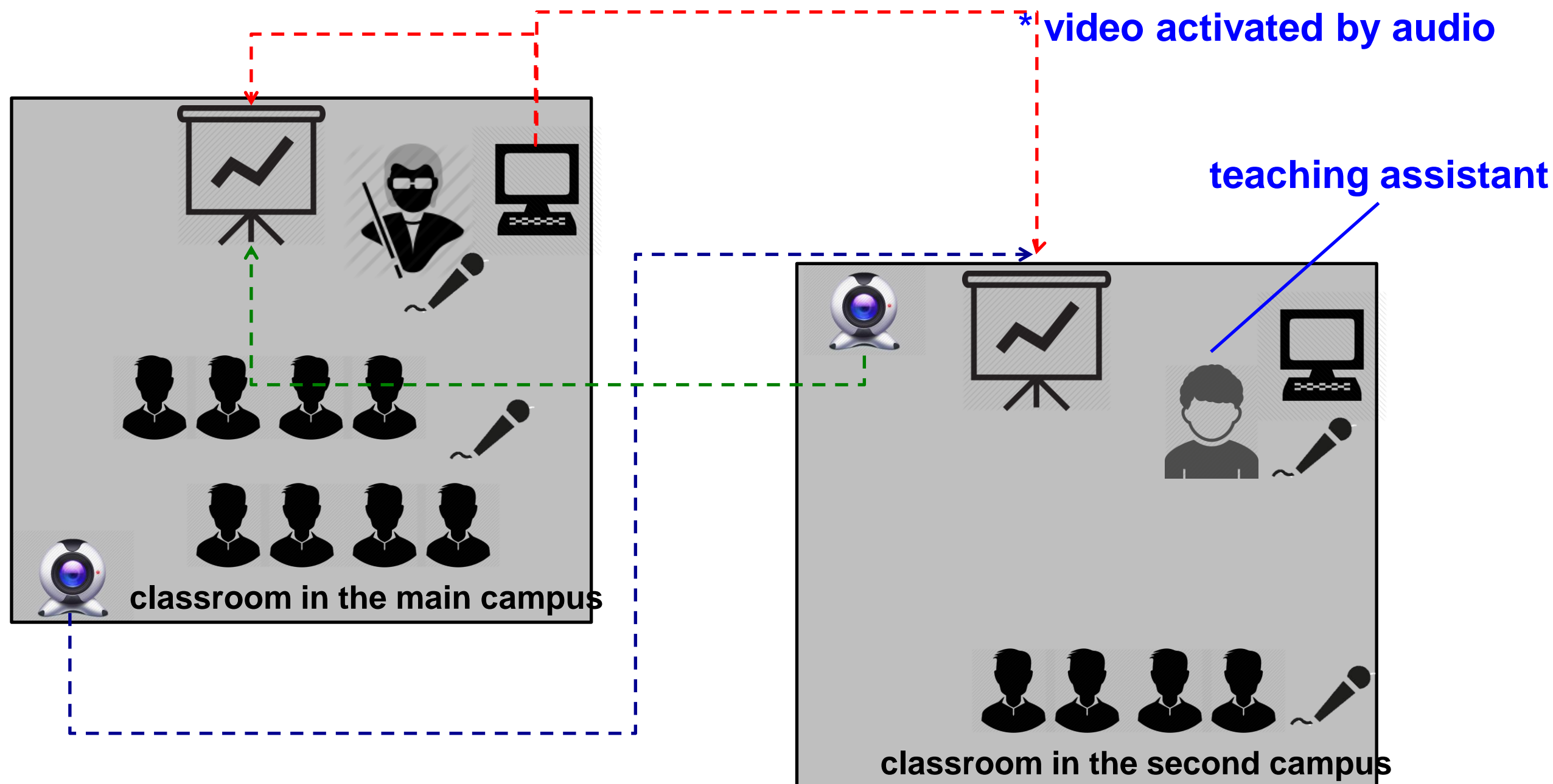
Technological Solution – main classroom





# Streaming of Classes

Technological Solution – main campus + second campus



# Streaming of Classes

Technological Solution – main campus + second campus

The screenshot shows the Wimba Classroom interface for a session titled "Risk". The main content area displays a presentation slide titled "RISK ATTITUDES" with the following bullet points:

- Risk Averse Individuals
  - "Afraid of risk"
  - "Sensitive to risk"
  - Utility function
  - Concave

Below the text is a cartoon character of a yellow smiley face with money falling around it. To the right of the text are two graphs. The top graph shows a concave utility function with the equation  $Y = X^{(0.5)}$  and handwritten notes  $a + bX^{(0.5)}$ . The bottom graph shows a concave utility function with the equation  $Y = \text{Log}(X)$  and handwritten notes  $a + b \log(X)$ . The x-axis is labeled "Wealth" and the y-axis is labeled "Utility".

On the right side of the interface, there is a "Content" panel with buttons for "Web", "eBoard", and "Share". Below it is a "Breakout Rooms" section with a "Default Content Folder" and a "Reset Content Frame" button. A note states: "Note: This folder does not have any slide content." At the bottom right, there is a "People" list showing participants: Andrew\_Bates, yjeanpierre, Cole\_Podolsky, Dale\_Koch, archiver, and encoder\_on.

A small video window titled "Wimba Classroom - Video" is visible, showing a classroom scene with a presenter and students.

teaching assistant

The screenshot shows the Wimba Classroom interface for a session titled "Risk". The main content area displays a "Welcome to 'Risk'" message. Below it is a video window titled "Wimba Classroom - Video" showing a classroom scene with a presenter and students. The presenter is labeled "Dale\_Koch".

On the right side of the interface, there is a "Content" panel with buttons for "Web", "eBoard", and "Share". Below it is a "Breakout Rooms" section with a "Default Content Folder" and a "Reset Content Frame" button. A note states: "Note: This folder does not have any slide content." At the bottom right, there is a "People" list showing participants: Andrew\_Bates, yjeanpierre, and Dale\_Koch.

A chat log at the bottom left shows the following messages:

- >> Dale\_Koch has been promoted to presenter status by Andrew\_Bates
- >> Andrew\_Bates is no longer the default presenter.
- >> Dale\_Koch has become the default presenter.
- Dale\_Koch says, "OK. We cannot see you at all. Is that OK?"

The "To:" field is set to "Andrew\_Bates".

\* video activated by audio

# Streaming of Classes

---

## Project development

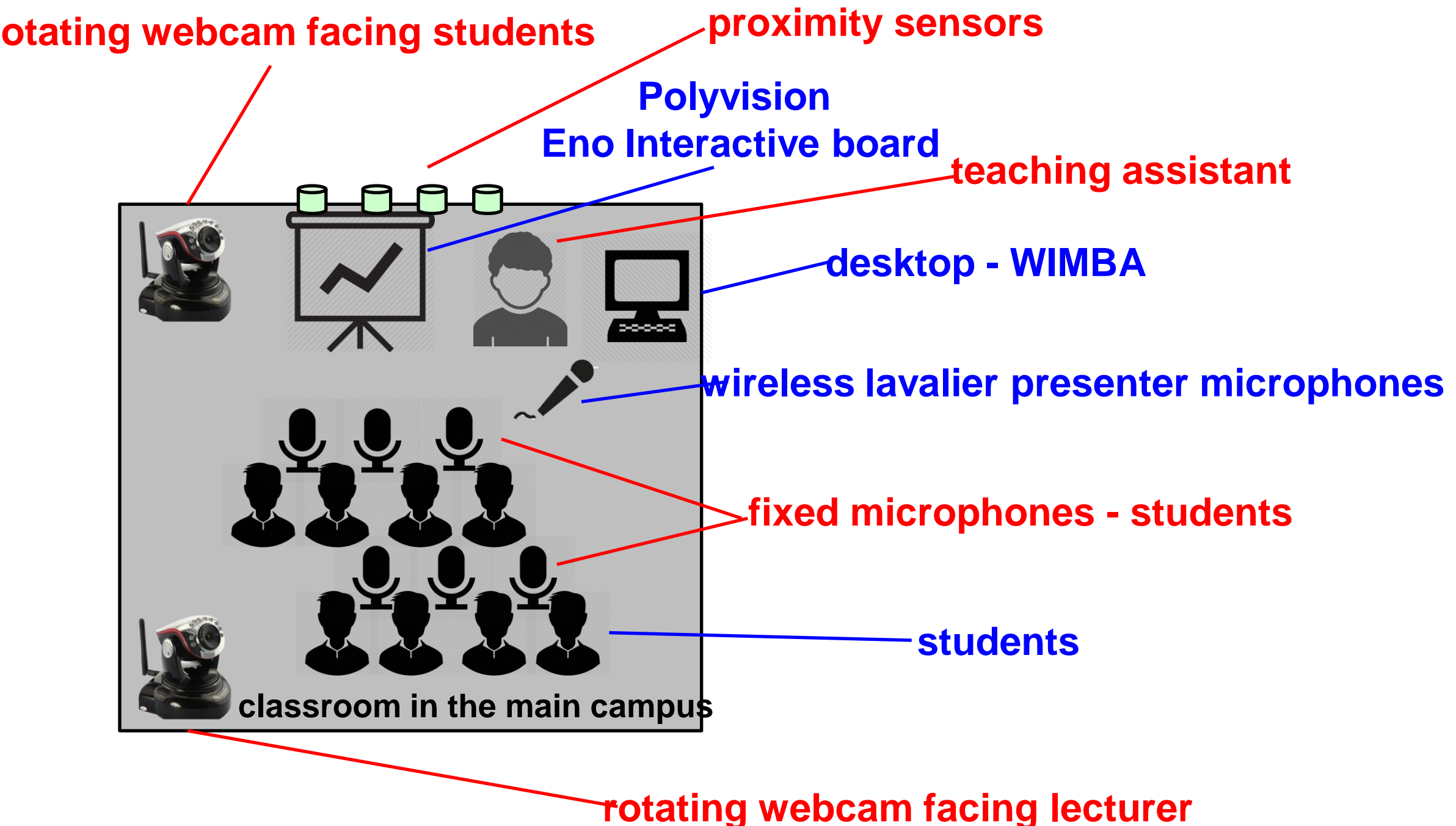
- 2012, Pilot Project (CE4623, first course entirely streamed online on multiple campuses with lecturer located abroad)
- Technology:
  - Blackboard Collaborate®
  - Rotating webcams activated by audio with motion controlled by proximity sensors (zooming available)
  - Microphones fixed on students' desks
  - iPad to control remotely SMART board  
Splashtop Streamer for Eno)
  - Polyvision eno interactive board





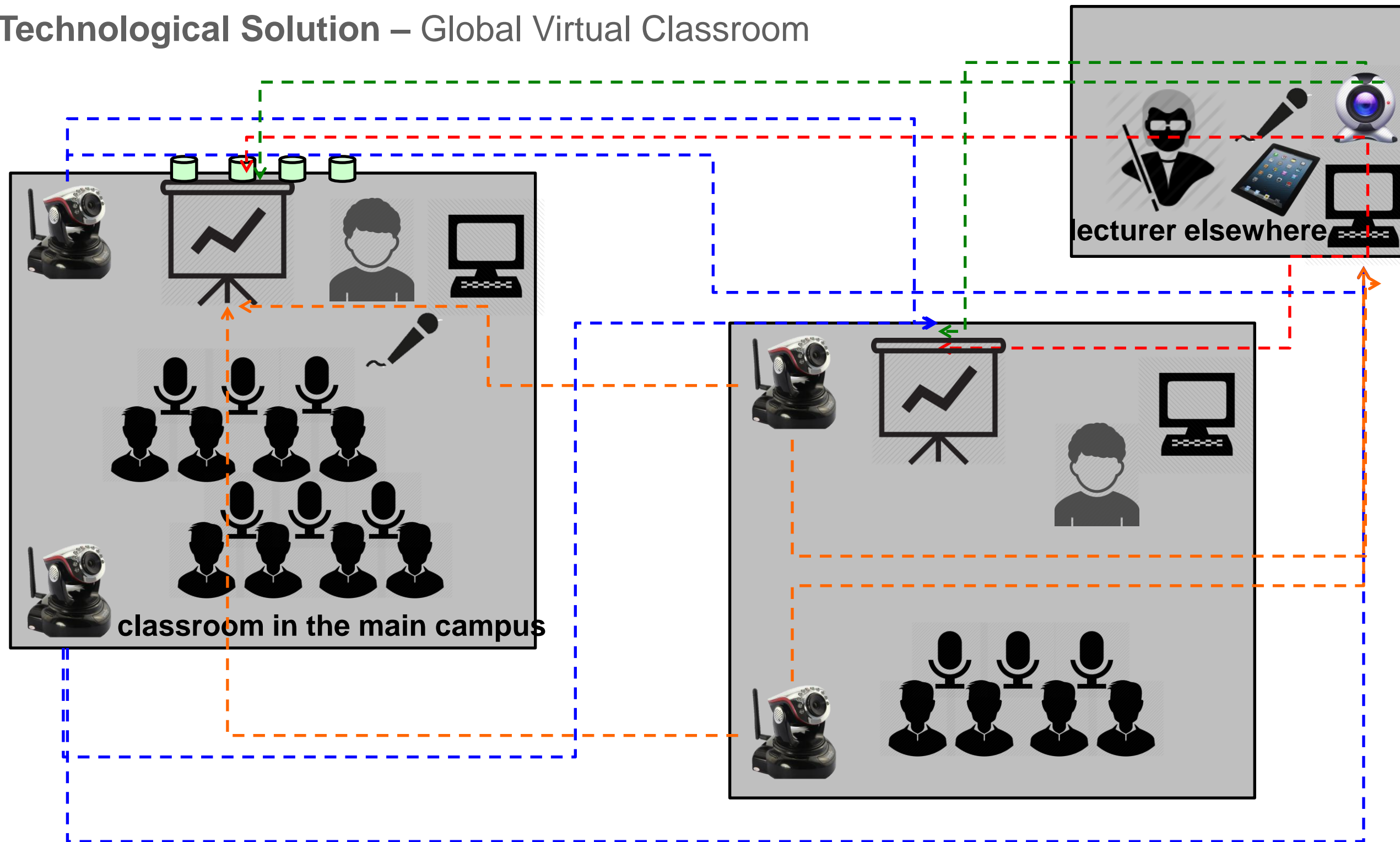
# Streaming of Classes

Technological Solution – main classroom



# Streaming of Classes

## Technological Solution – Global Virtual Classroom



# Streaming of Classes

---

Technological Solution – Video

**NYU-poly**

POLYTECHNIC INSTITUTE OF NEW YORK UNIVERSITY

Sustainable Corporations  
and Urban Environments

1:05



# Streaming of Classes

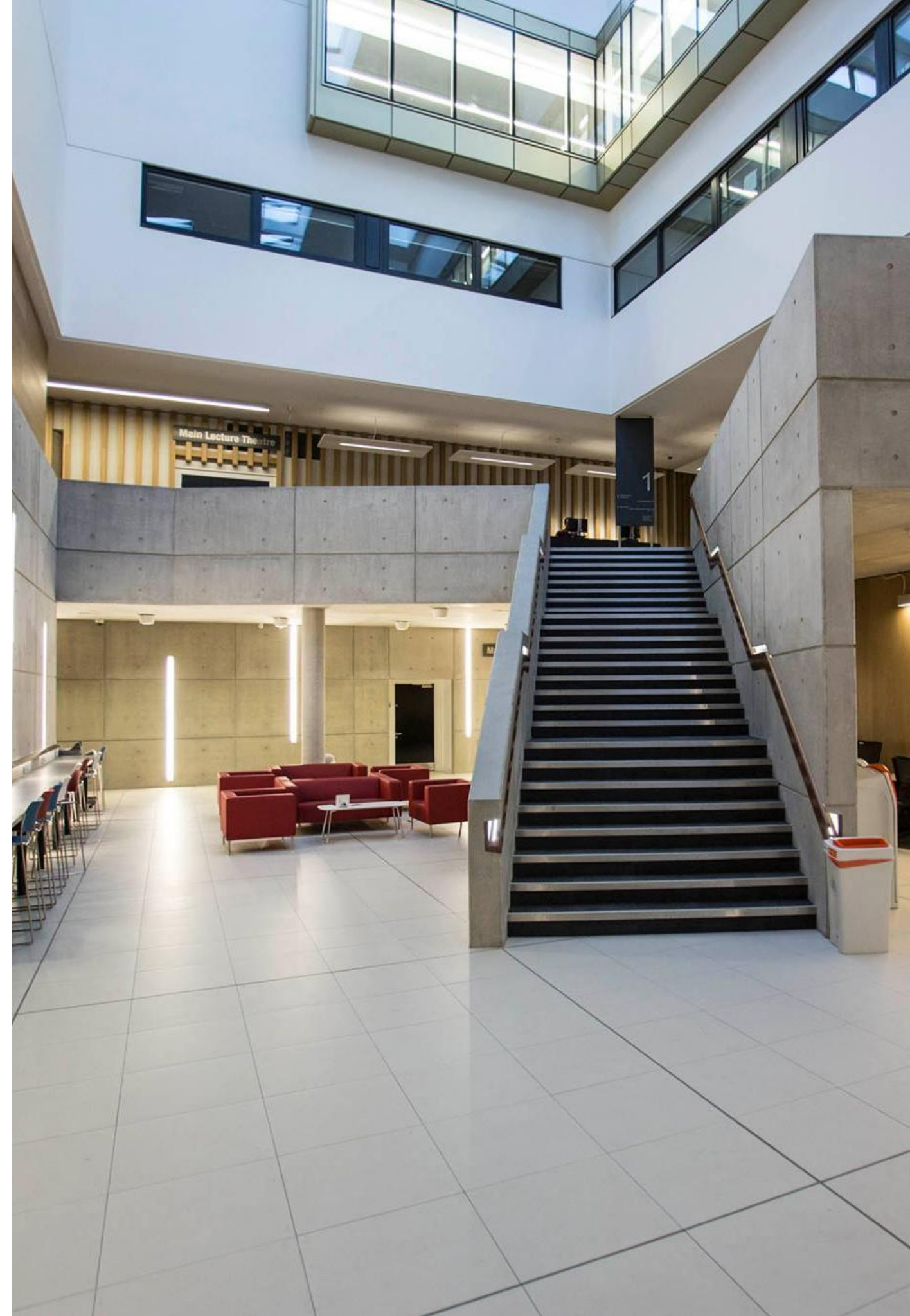
---

## 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
- 2013-2014, Filming of all MBA Lectures



\* This presentation limits to present the video materials



# Online Videos

---

## Filming – Stage



# Online Videos

## Format – Lecture

### Complete ENTPASS

- The enterprise methodology is built around the ENTPASS
  - A Basic Table
- (NB – BUSINESS PLAN is NOT the Start!)
- See examples on Moodle

	What	How	Assumptions
Development of a healthy savoury snack choice to be marketed through news agents and station kiosks to meet changing pattern of consumer demand for snacks and on-the-go food			

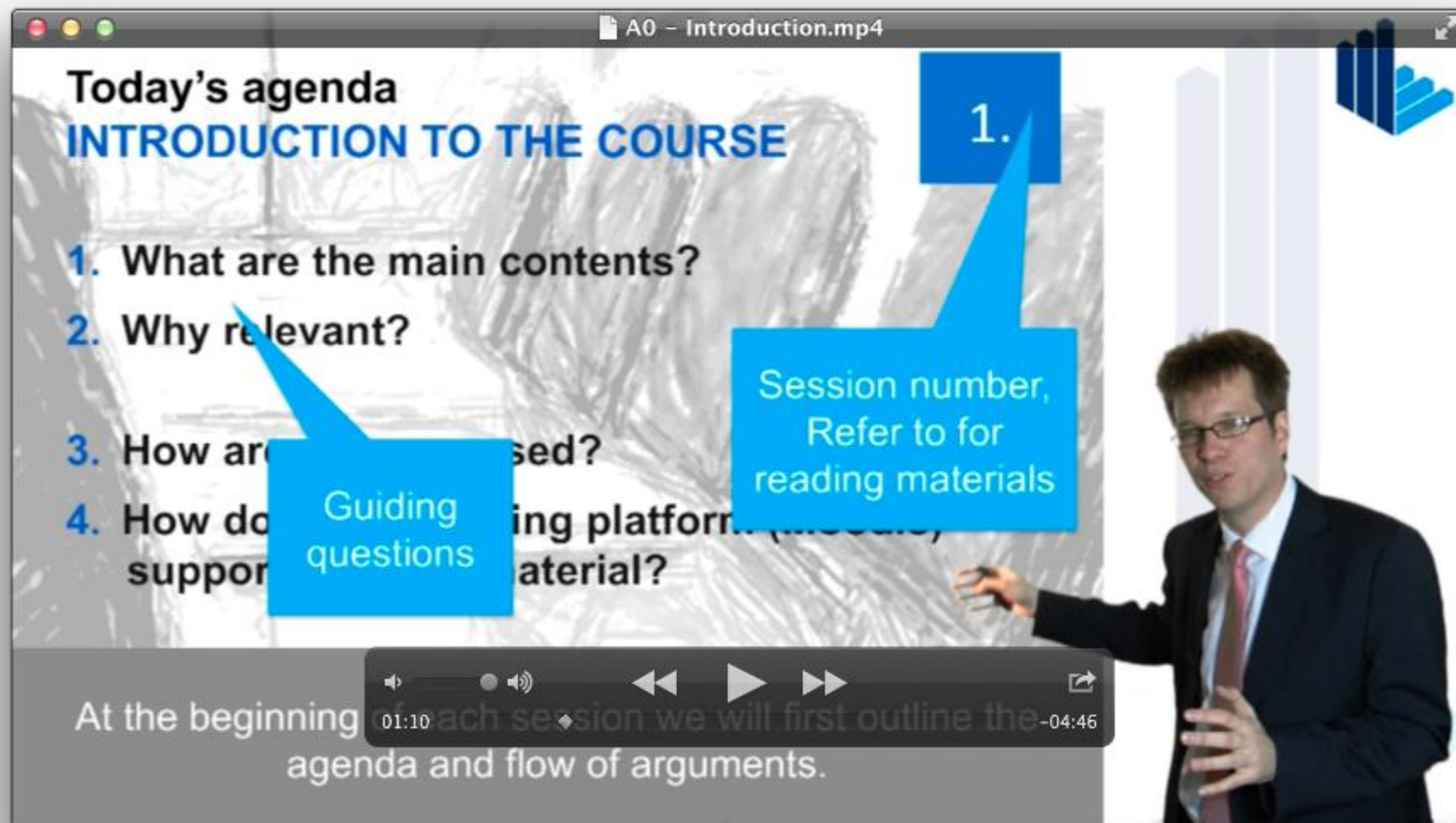
A different view



# 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**

**Dr Eng Paolo Taticchi**

**p.taticchi@uel.ac.uk / ptaticch@poly.edu**

**@taticchipaolo (twitter)**