

ESUP-Days

November 2018

Opencast: Lecture capture & student impact, scaling to 60,000 hours video recording per year and approaches to implementation

27,000 Undergraduates

40,000 Total Students

12,000 Staff

240 Buildings

In Numbers

362 Rooms equipped

62,000 Hours per year

250,000 Hours captured

6 Million views per year

Lecture Capture

Lecture Theatre Capture



Video Delivery to Students

Screenshot of the University of Manchester Video Portal interface. The page shows a list of lecture videos on the left and a preview of a video titled "Effect of different speed operating points:" on the right. The video preview includes a table of data and a small diagram.

| ω_0 | ω | $\beta = 2K_1\omega_0 + K_2K_3$ |
|------------|----------|---------------------------------|
| 0rad/s | 628rad/s | 0.075 |
| 50rad/s | 628rad/s | 0.27 |
| 100rad/s | 628rad/s | 0.47 |
| 157rad/s | 628rad/s | 0.7 |

Useful Info

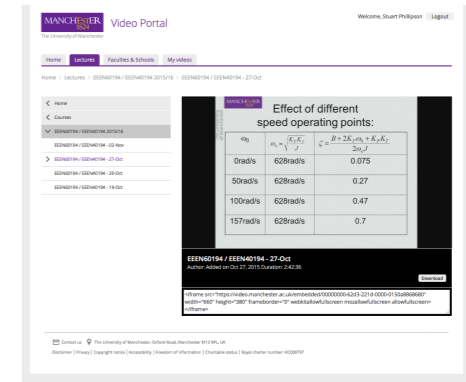
Lecture Theatre
Capture



OPENCAS

- Scheduling
- Capture
- Processing
- Integration
- Management
- Distribution
- FOSS

Video Delivery
to Students



Useful Info

Capture



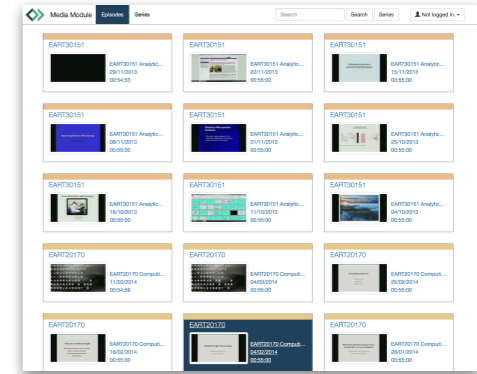
Process / Manage



OPENCCAST



Deliver



OPENCCAST

PyCA



OPENCCAST

Engage

Useful Info

Capture

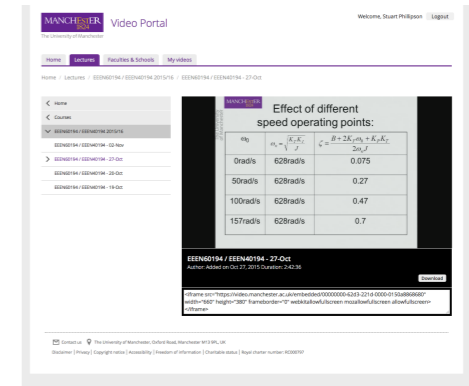


GALICASTER
Project

Process / Manage



Deliver



Local Video
Portal

ETH zürich



SWITCH

MANCHESTER
1824

The University of Manchester



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



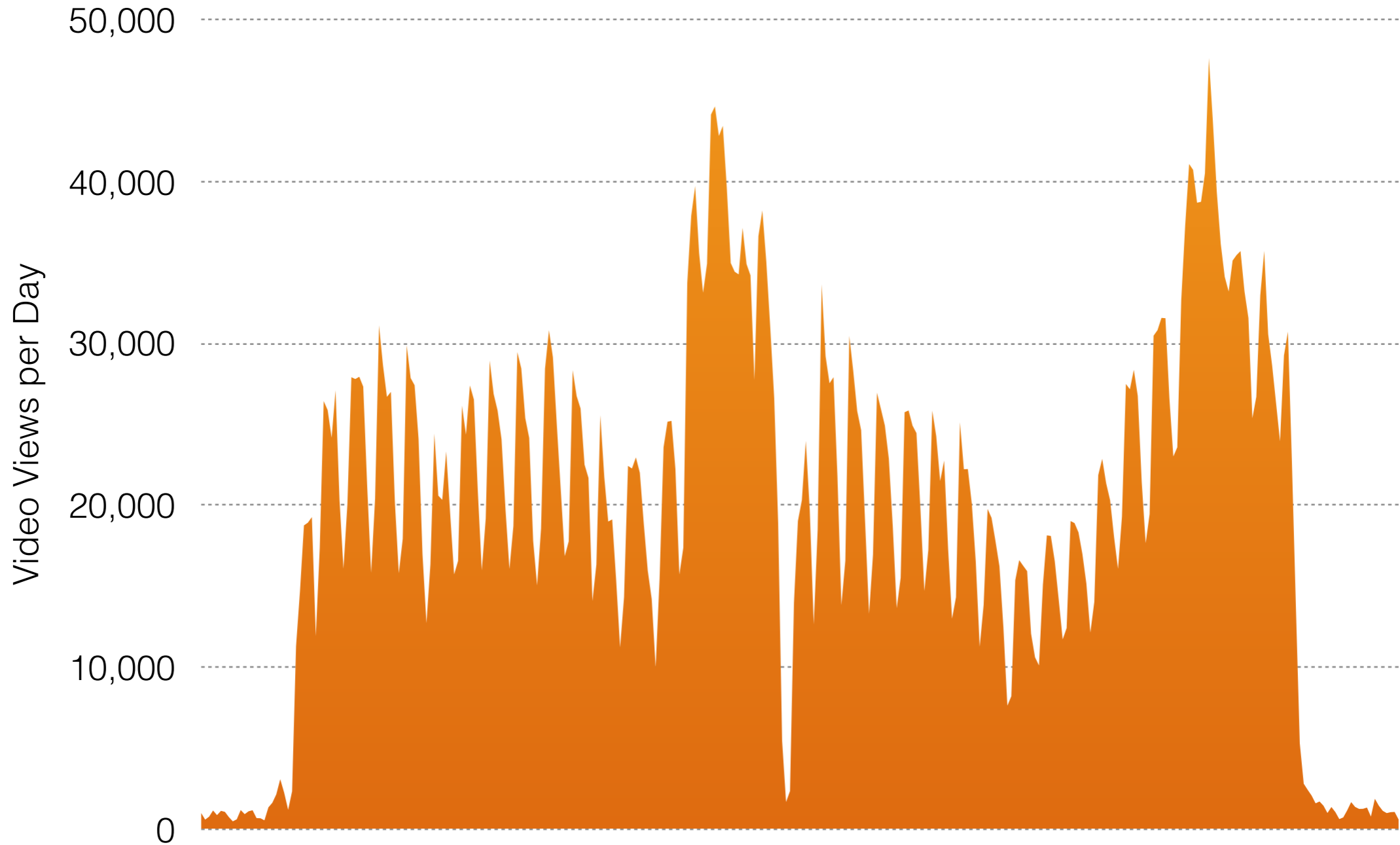
Atlassian
JIRA



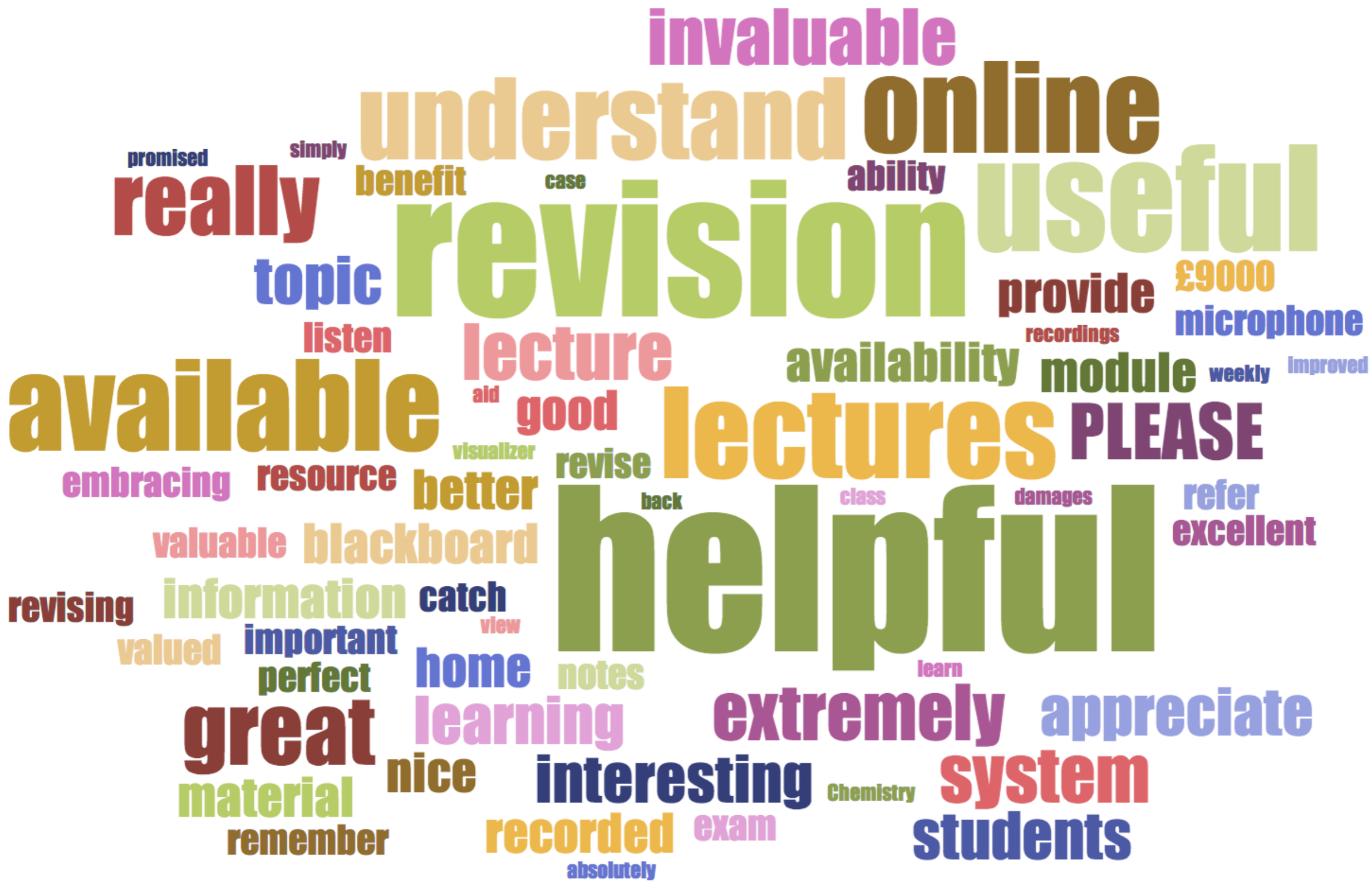
HARVARD
Extension School

Usage

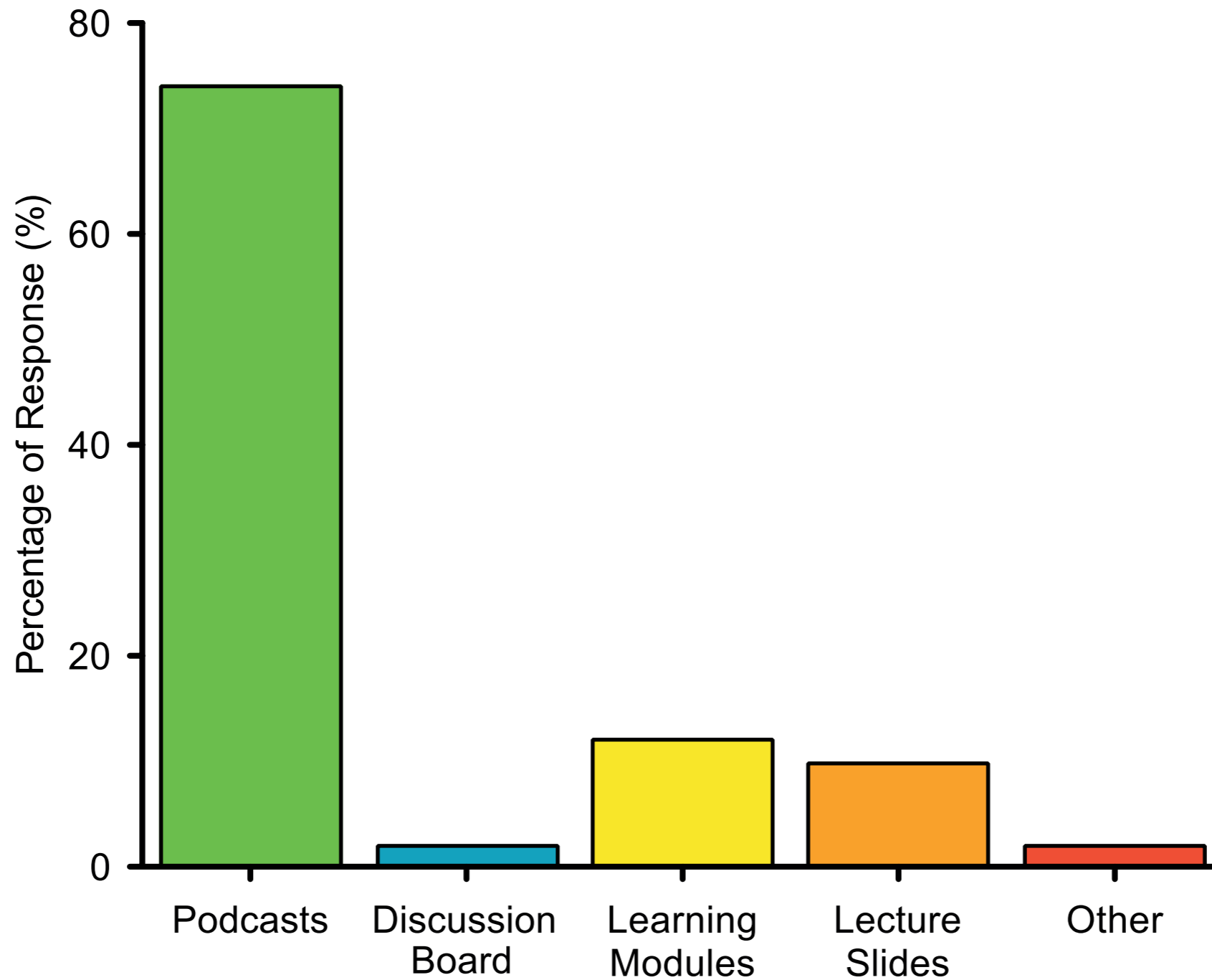
2017/18



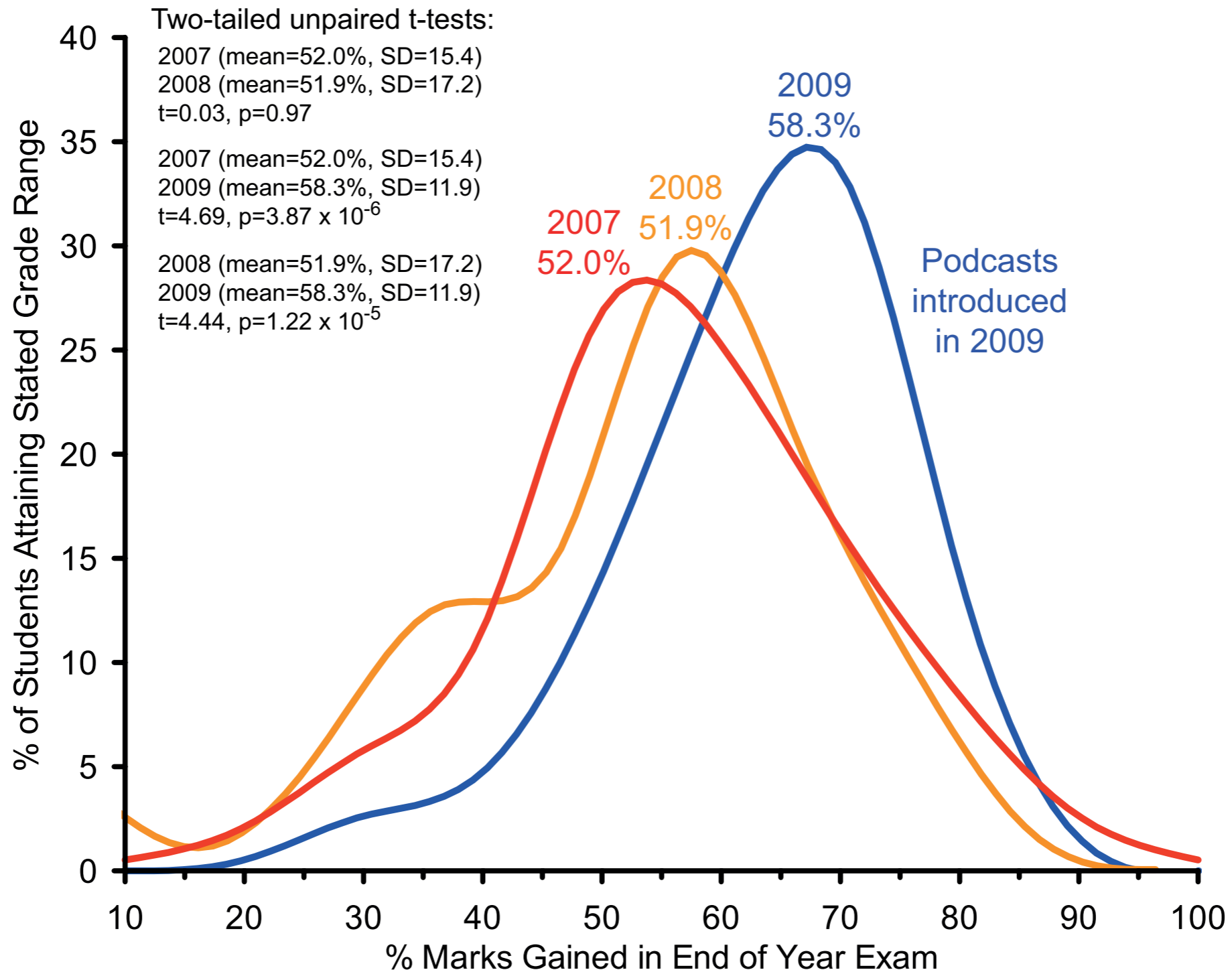
Sep 2017 - June 2018



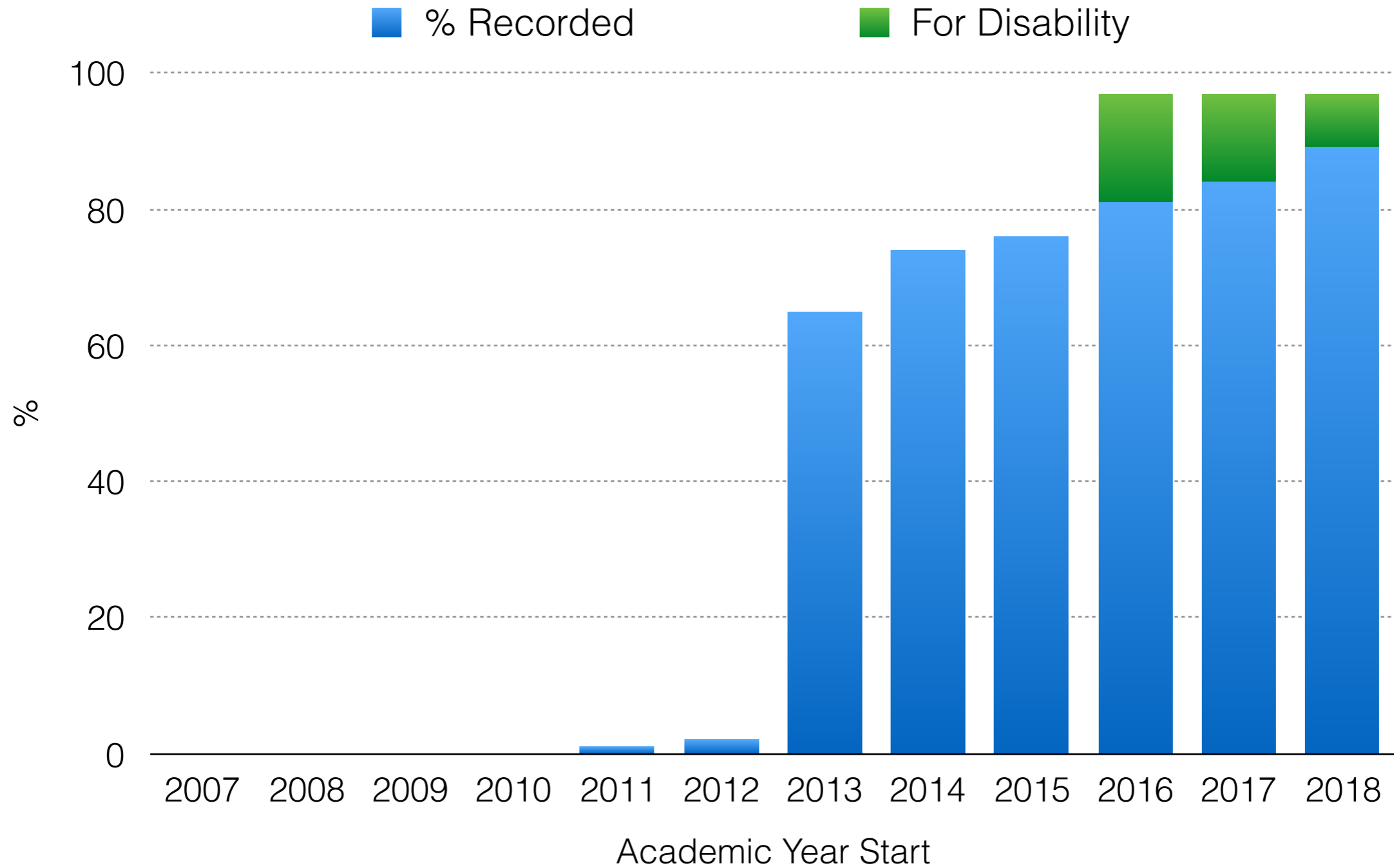
Student Response to the questions “The Best Thing on Blackboard?”



Graph 1: End of Unit Examination Results: Percentage of Class Attaining Results Range



In Numbers





No Action



Recording
Made



A Lecture



Opt-Out



Not
Available



Trim / Hold



Recording
Made



No Action



Recording
Made



A Lecture



Opt-Out



Not
Available



DASS
Recording



Trim / Hold



Recording
Made



No Action



Recording
Made



A Lecture



Opt-Out



Not
Available



DASS
Recording



Trim / Hold

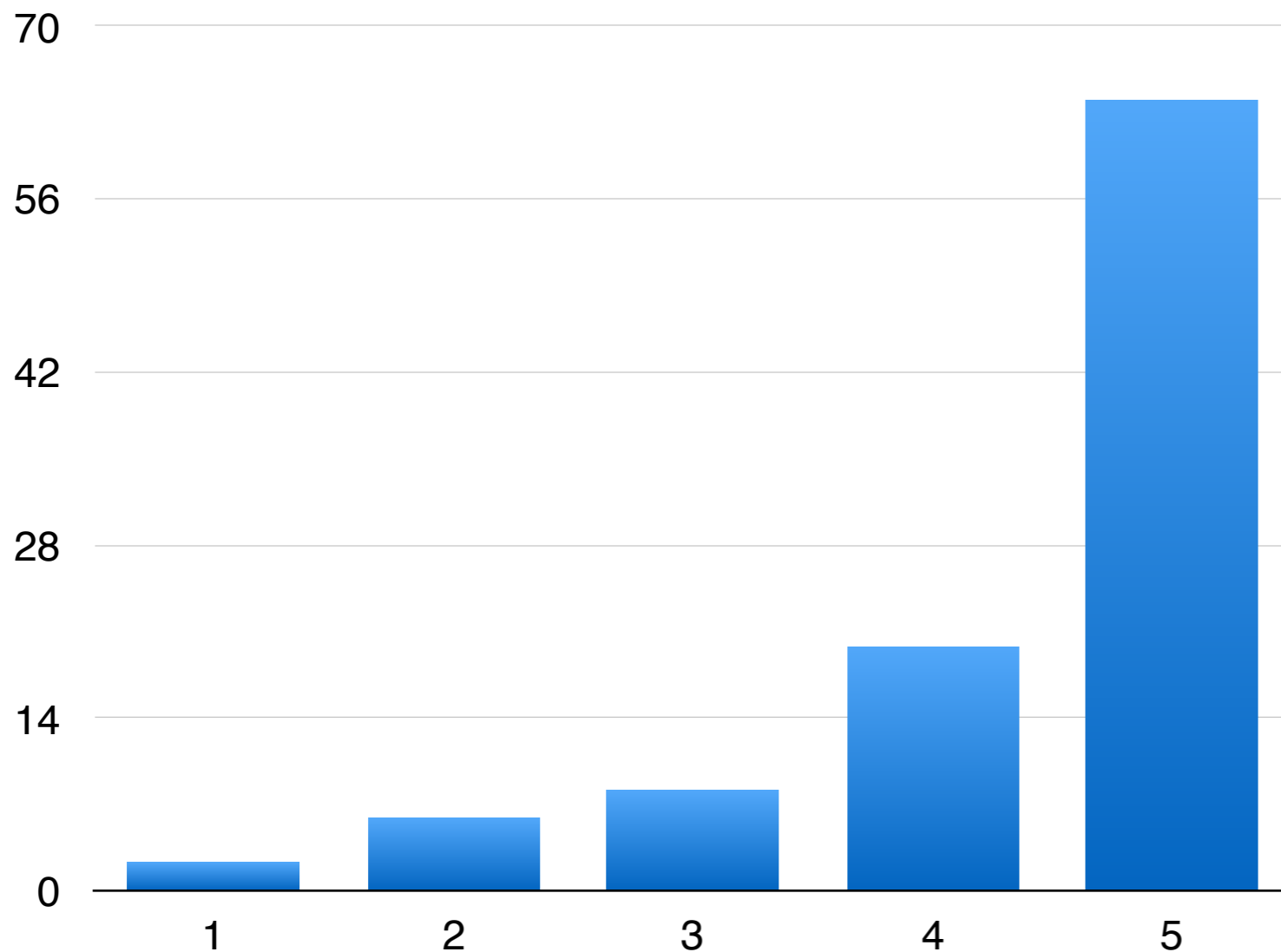


DASS
Pre-Publish



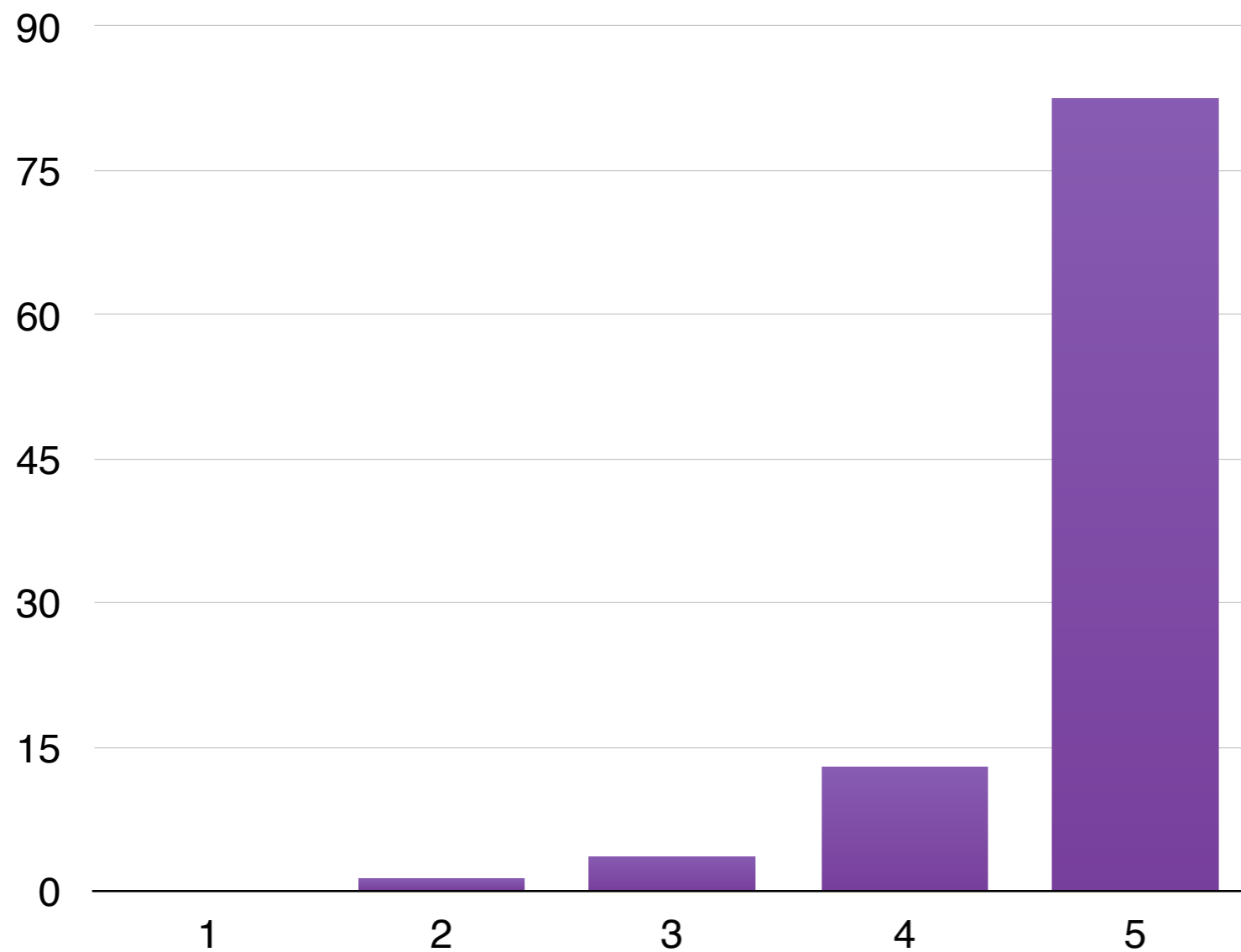
Publish
Over-Write

How often have you made use of recorded lectures in Semester 1? (Sep 2016 to January 2017)



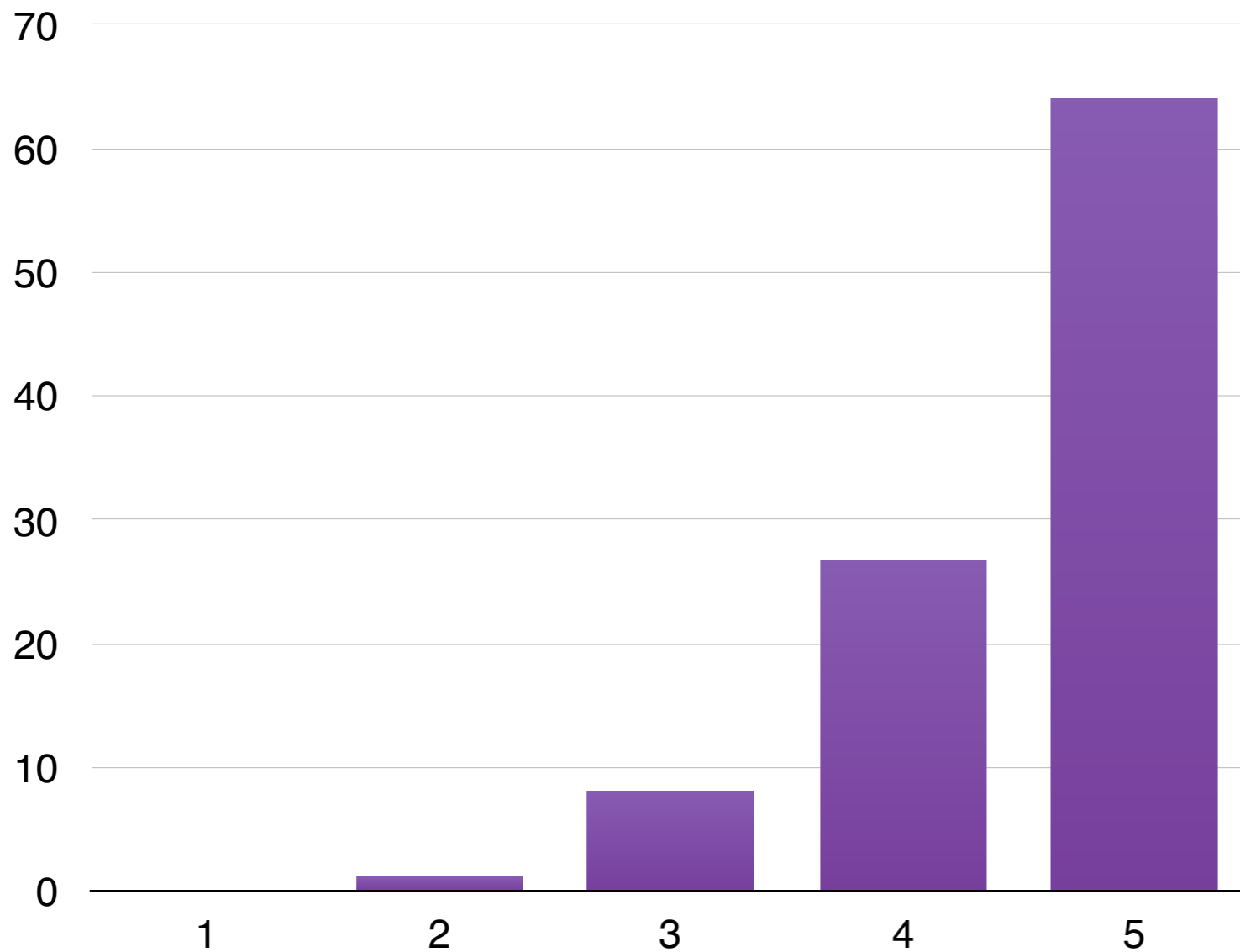
| | | | |
|------------|---|----|-------|
| Never | 1 | 2 | 2.3% |
| | 2 | 5 | 5.8% |
| | 3 | 7 | 8.1% |
| | 4 | 17 | 19.8% |
| Very often | 5 | 55 | 64% |

How important would you rate having access to lecture recordings?



| | | | |
|-------------|---|----|-------|
| Unimportant | 1 | 0 | 0% |
| | 2 | 1 | 1.2% |
| | 3 | 3 | 3.5% |
| | 4 | 11 | 12.8% |
| Essential | 5 | 71 | 82.6% |

Do you believe having access to recorded lectures will make a difference to your assessment marks?



| | | | |
|----------------------------------|---|----|-------|
| No difference | 1 | 0 | 0% |
| | 2 | 1 | 1.2% |
| | 3 | 7 | 8.1% |
| | 4 | 23 | 26.7% |
| Significant improvement to marks | 5 | 55 | 64% |

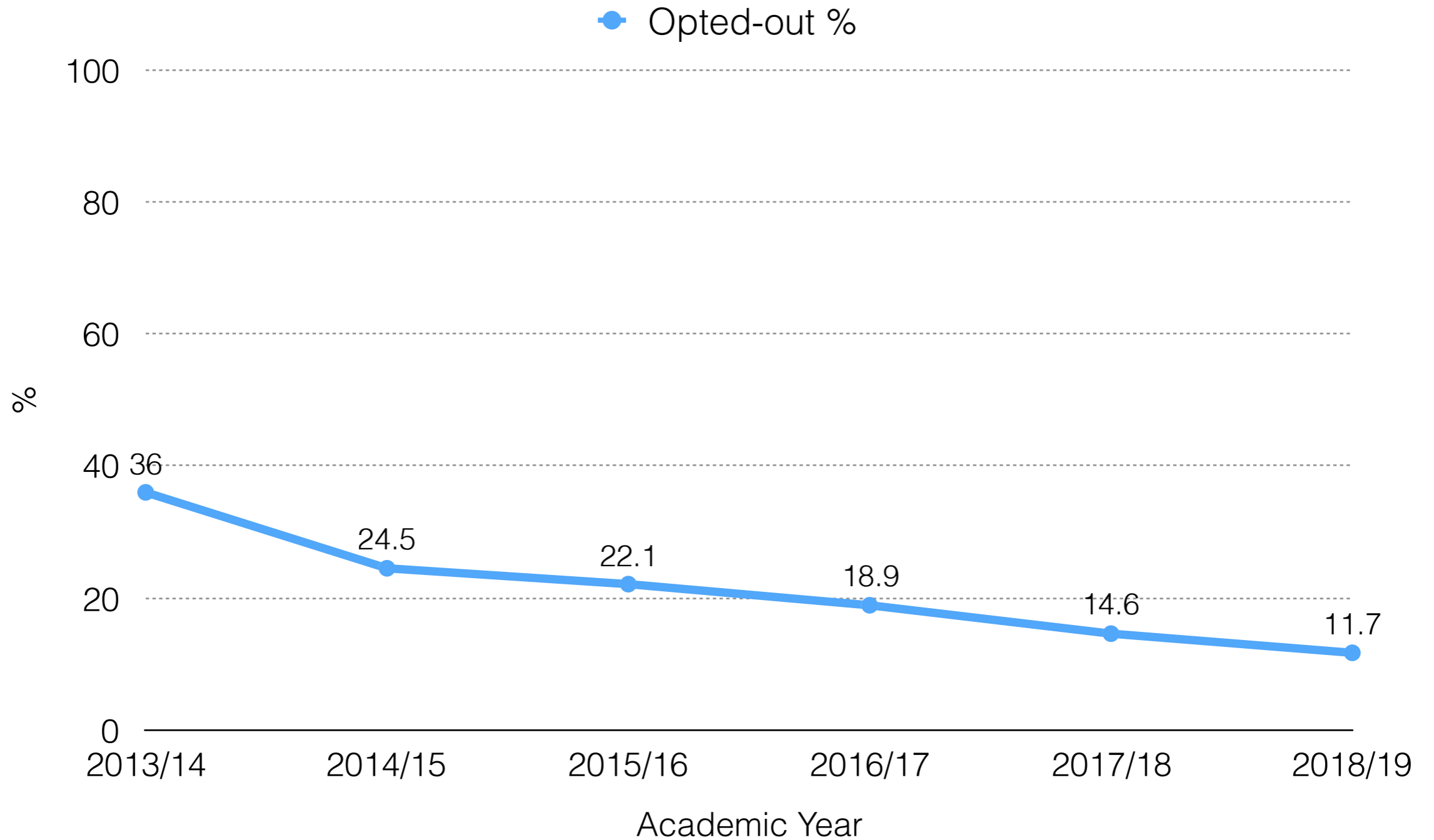
“Makes it much more accessible and I feel more included and a valued member of the university.”

“Completely transforms how
I'm able to learn”

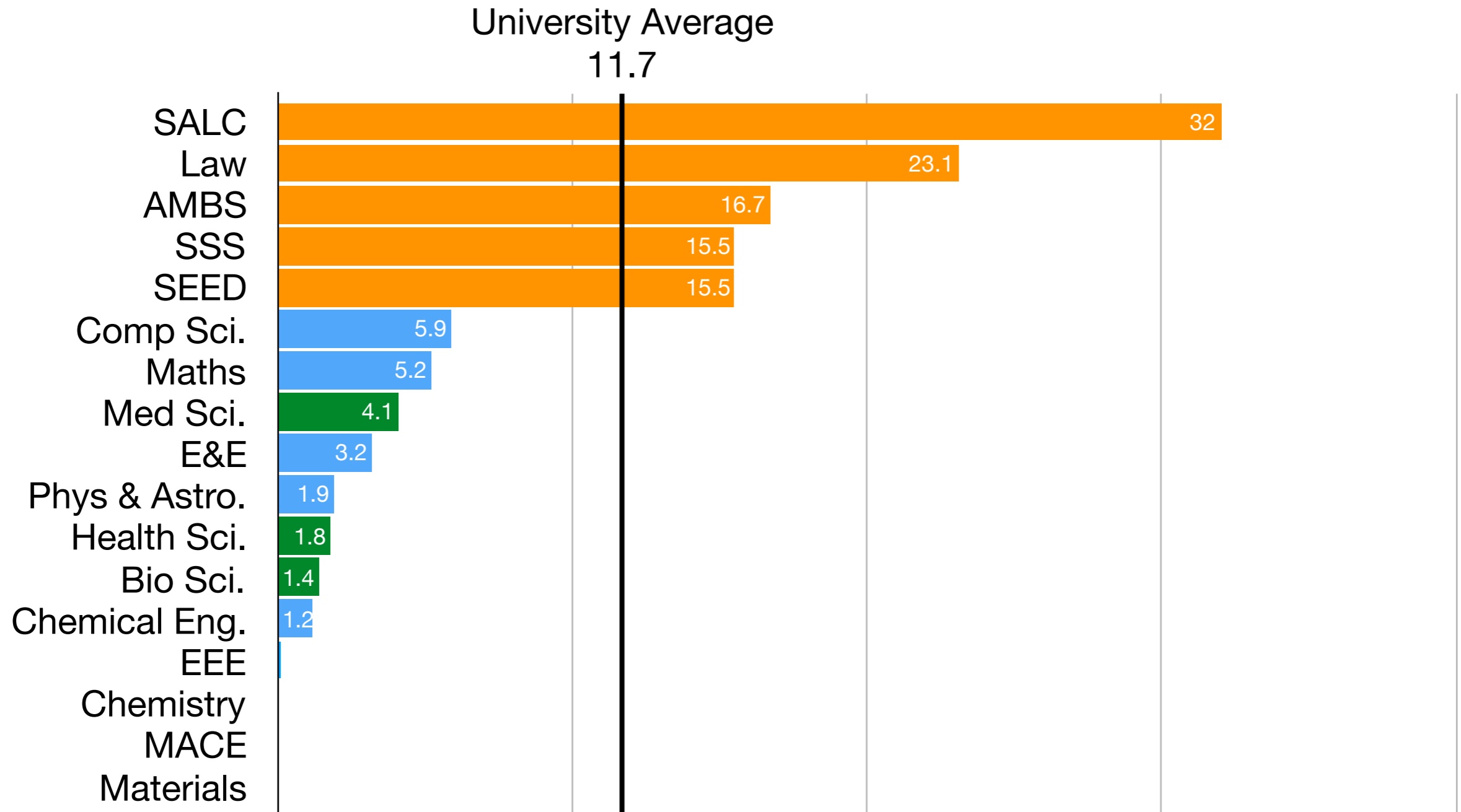
“This has genuinely been perhaps the most important help from the entire DASS experience”

“NEVER GET RID OF
PODCASTS I WOULD FAIL
WITHOUT THEM ”

Opt-out Rate Over Time

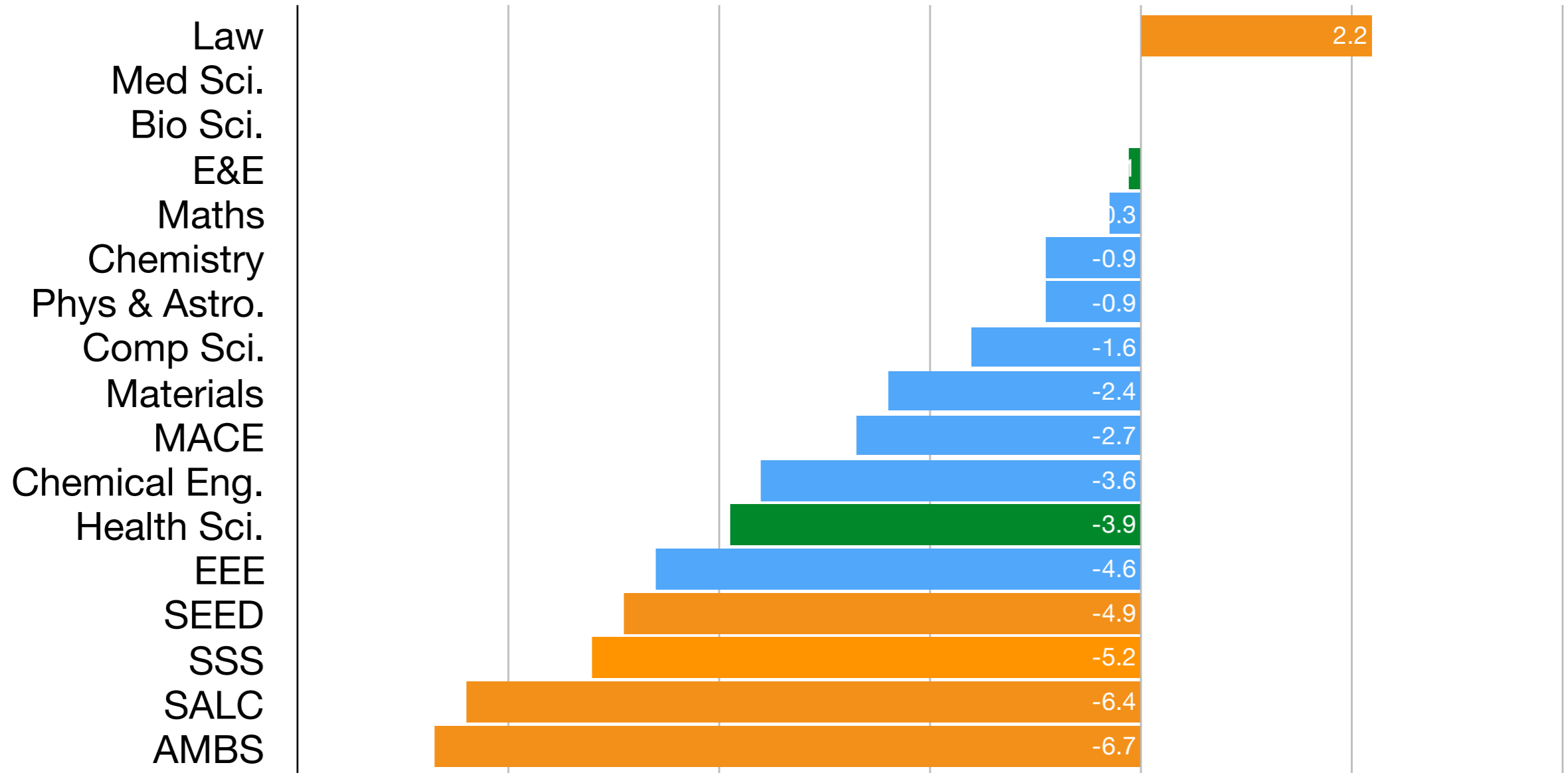


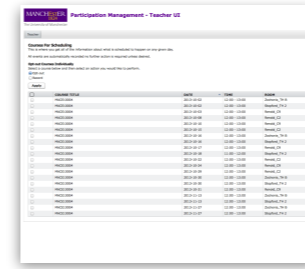
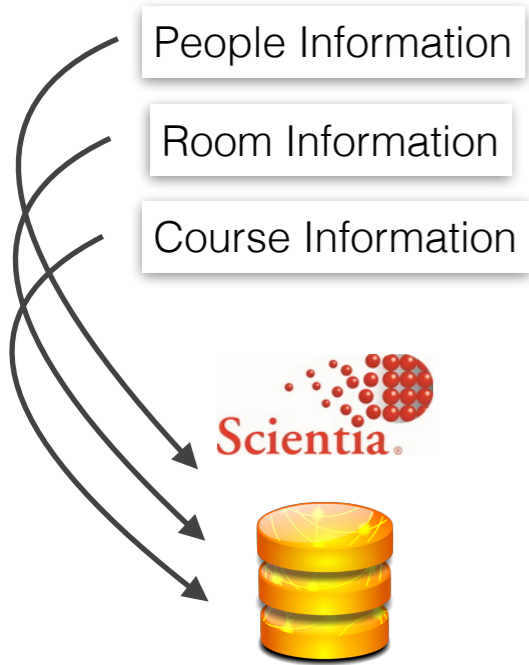
Opt-out Rate by School 2018/19



Change in Opt-out Rate by School 2017 vs 2018

(negative = improvement)





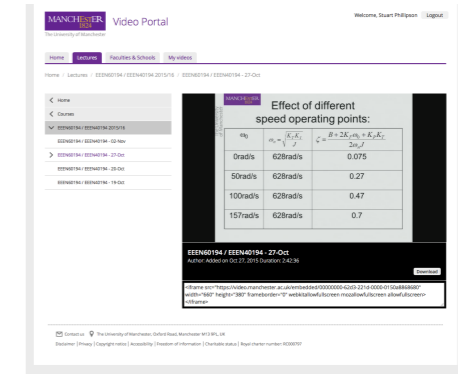
Email to Staff



Synchronisation

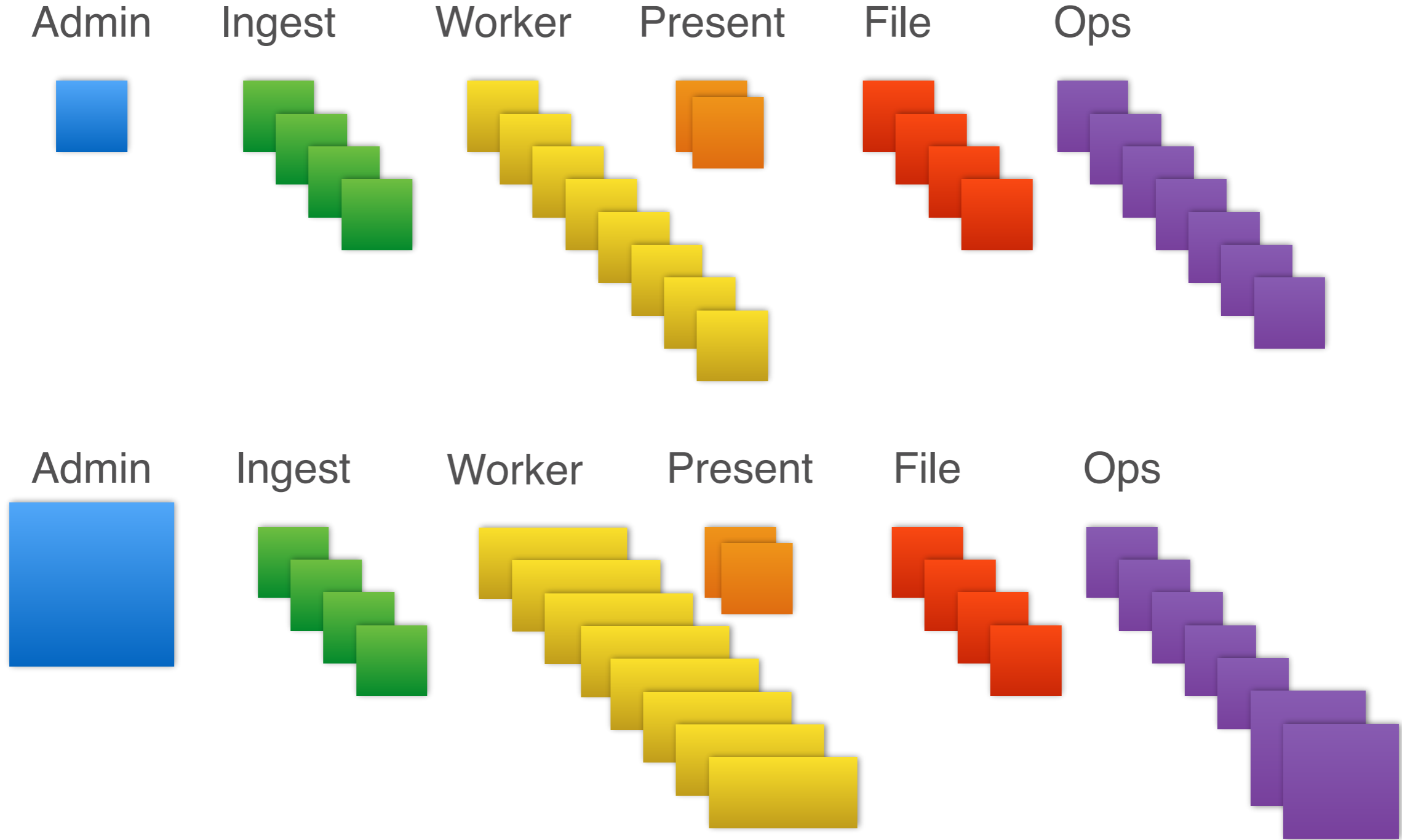
Harvesting

Video Portal

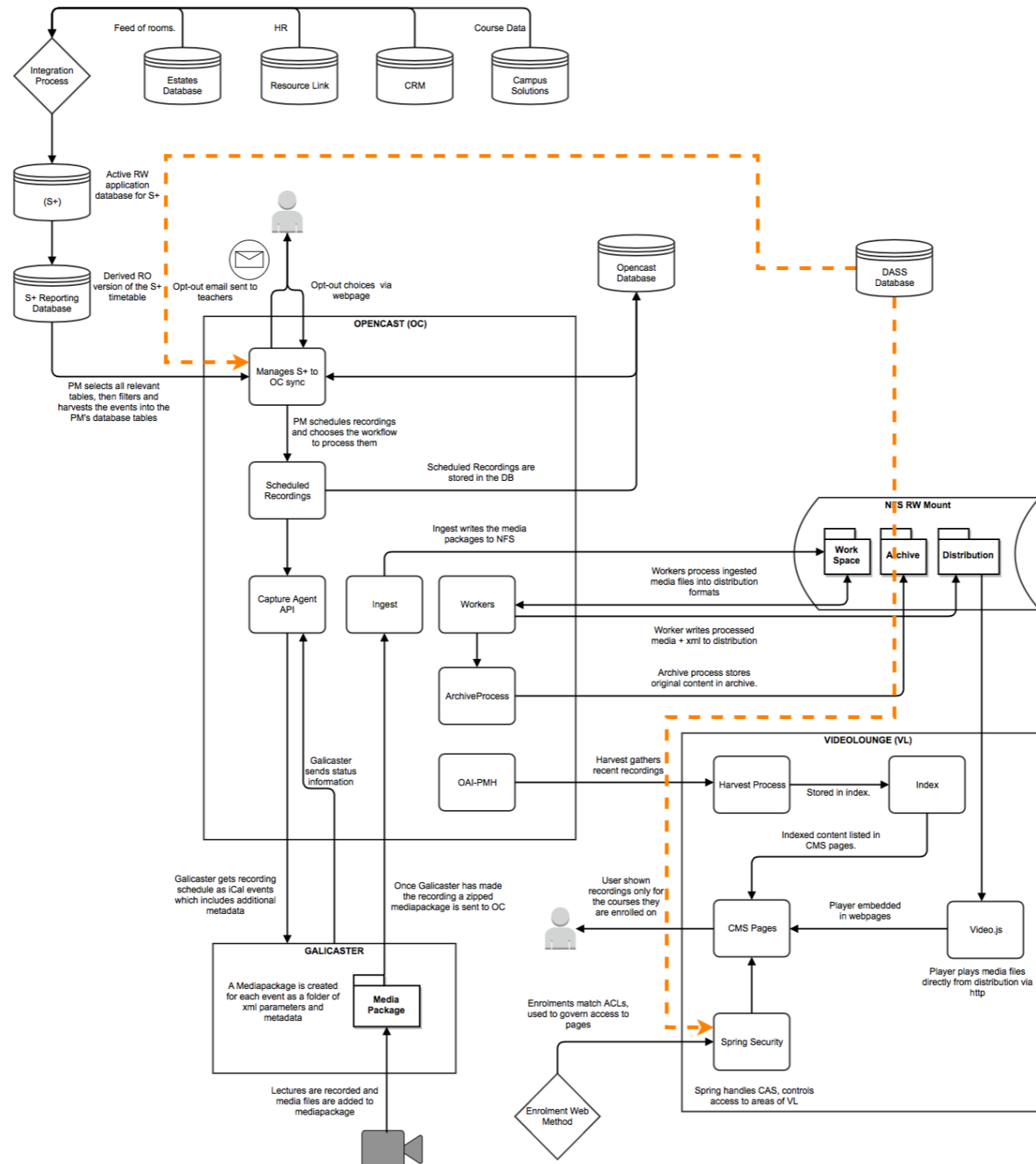


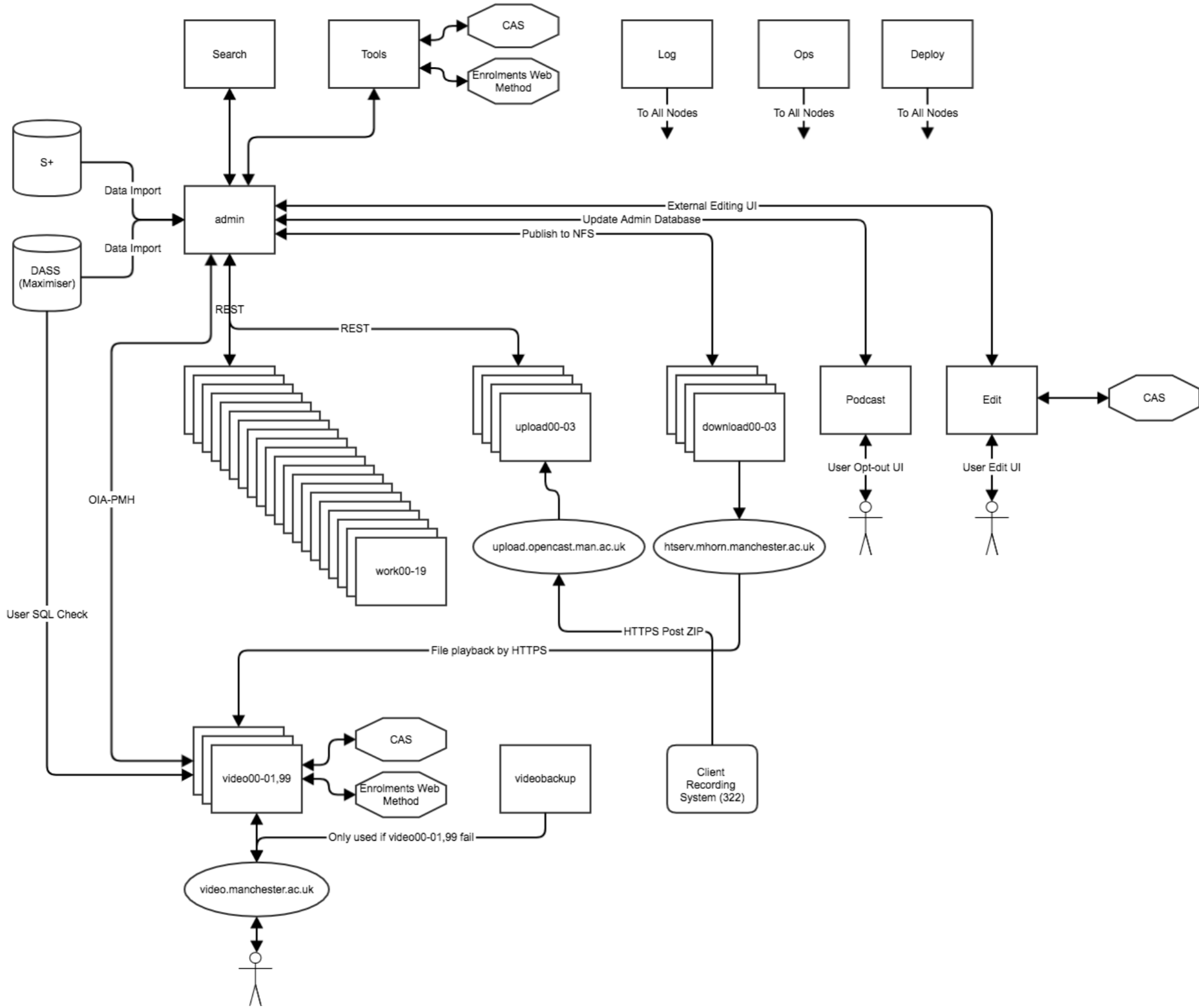
Recordings Made
in Classroom

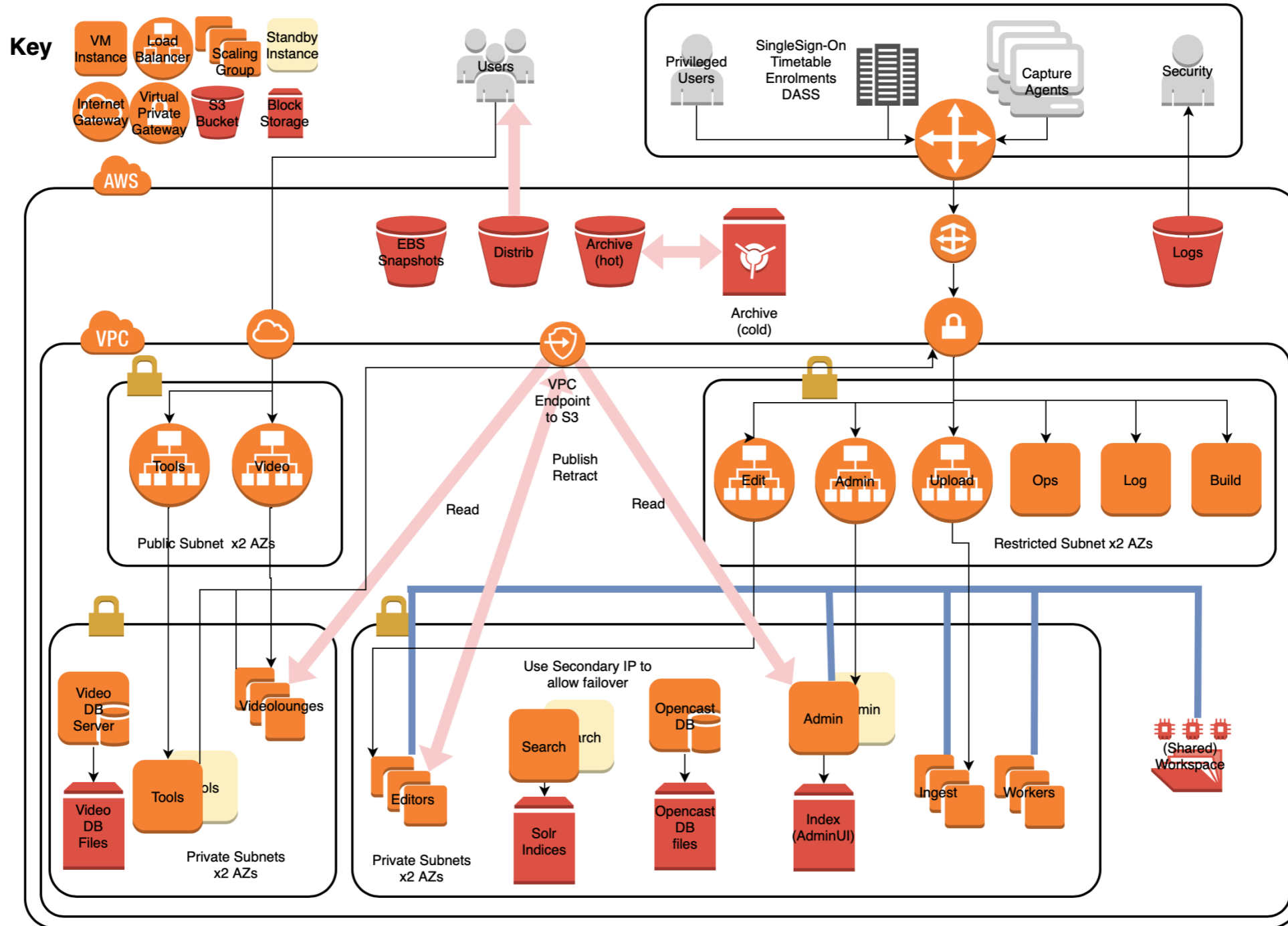
Current System Configuration



Application







Different Use-cases

University of Keele

100 Rooms

300 Recordings per week

~ 2 Staff

University of Manchester

362 Rooms

2,700+ Recordings per week

~ 6 Staff

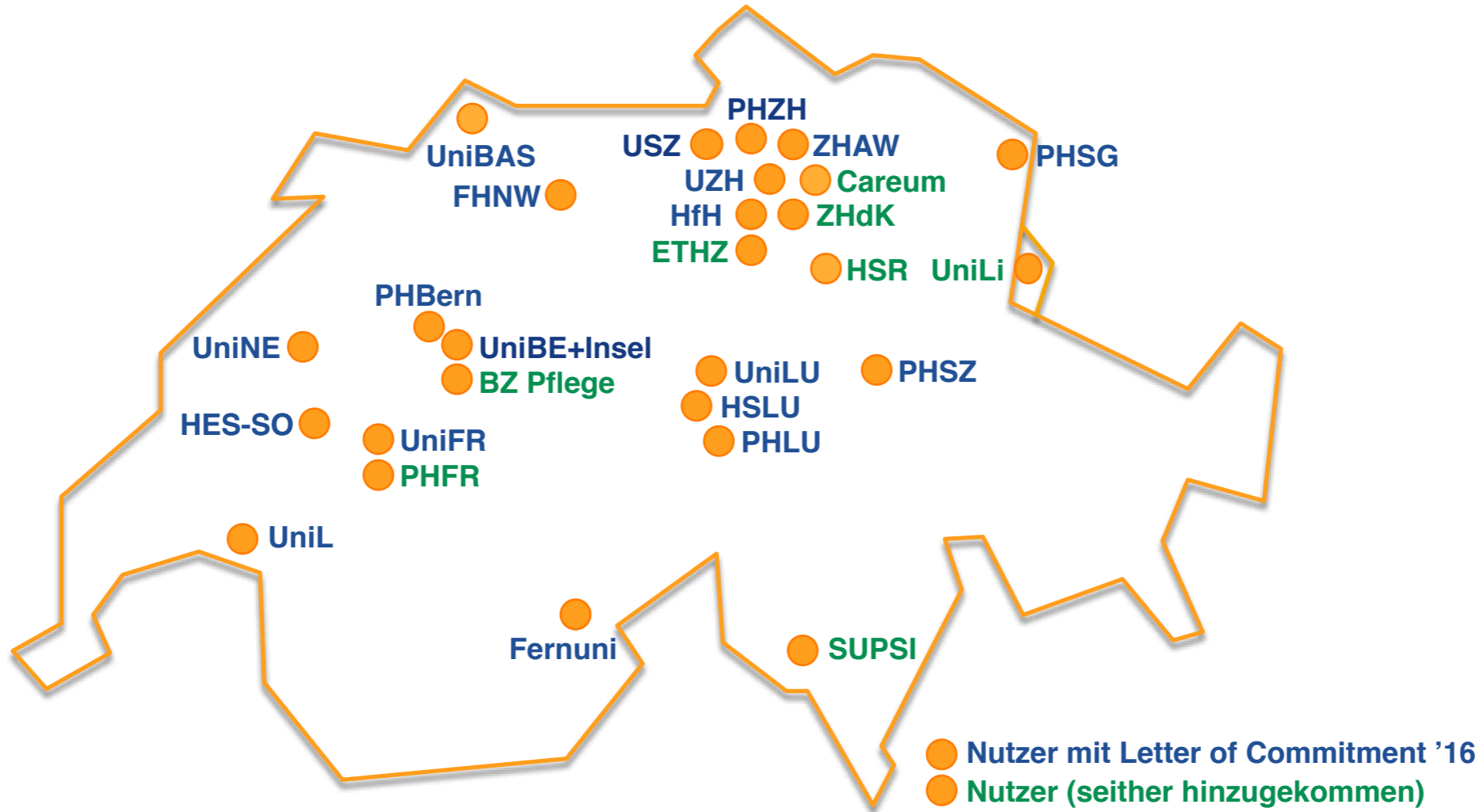
SWITCH

National Provision (Switzerland)

Largest service offered by SWITCH

More than 47 Universities

SWITCH

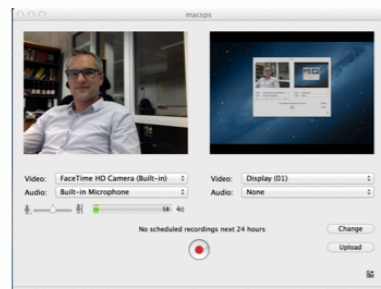


SWITCH

SWITCH

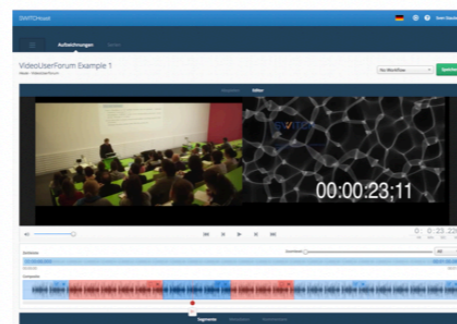
SWITCHcast Overview

Admin /
Enduser
(Producer)



Enduser (Producer)

| Titel | Verwendetes | Sender | Datum | Region | Stunde | Beim | Verfübarkeit | Status | Aktionen |
|------------------------|-------------|------------|----------|--------|--------|-------------------|--------------|--------|----------|
| Test1 | | VideoForum | Heute | 09:00 | 09:00 | switch_admin_juli | Verfügbar | | |
| VideoForum Example 1 | | VideoForum | Heute | 07:00 | | | Verfügbar | | |
| Test | | Web | 20.08.17 | 13:00 | | | Verfügbar | | |
| VideoForum Recording 1 | | VideoForum | 20.08.17 | 13:00 | | | Verfügbar | | |
| Flight on legs... | | Web | 20.08.17 | 08:45 | | | Verfügbar | | |
| Webinar 2 | | Web | 20.08.17 | 13:00 | | | Verfügbar | | |
| Webinar 1 | | Web | 20.08.17 | 13:00 | | | Verfügbar | | |
| Capstone Lecture 6 | | HLS, TS | 20.08.17 | 16:45 | 20:45 | SW101 | Verfügbar | | |
| Lecture 6 | | HLS, TS | 20.08.17 | 16:45 | 20:45 | SW101 | Verfügbar | | |
| 1148122.8 | | 11481207 | 20.08.17 | 11:00 | 12:00 | Reg | Verfügbar | | |



SWITCHcast SWITCH You are not logged in | Help

Home | News | Events | Contact de | fr | en

† About SWITCHcast

Login
Please choose your home organization and log in to access this service.

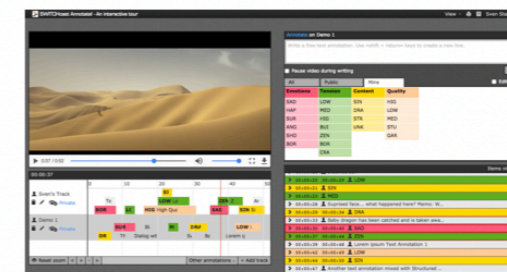
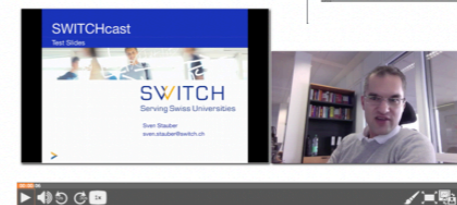
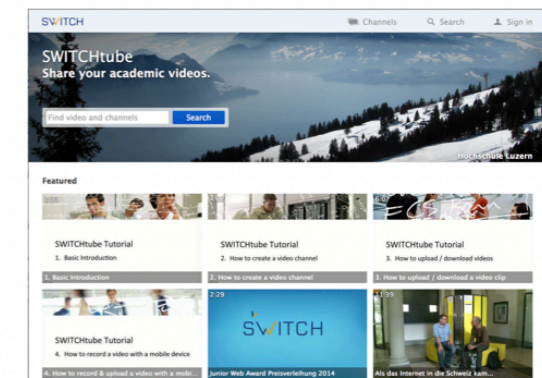
SWITCHcast
Anmelden über:
 SWITCH Mitarbeitende
 Auswahl für die laufende Webbrowser Sitzung speichern. Anmelden

Prerequisites
You have to log in with your SWITCHcast credentials in order to access this service.
[SWITCHcast Help](#)

Contact:
SWITCHcast_Support_ccast-support@switch.ch
 +41 44 268 16 10

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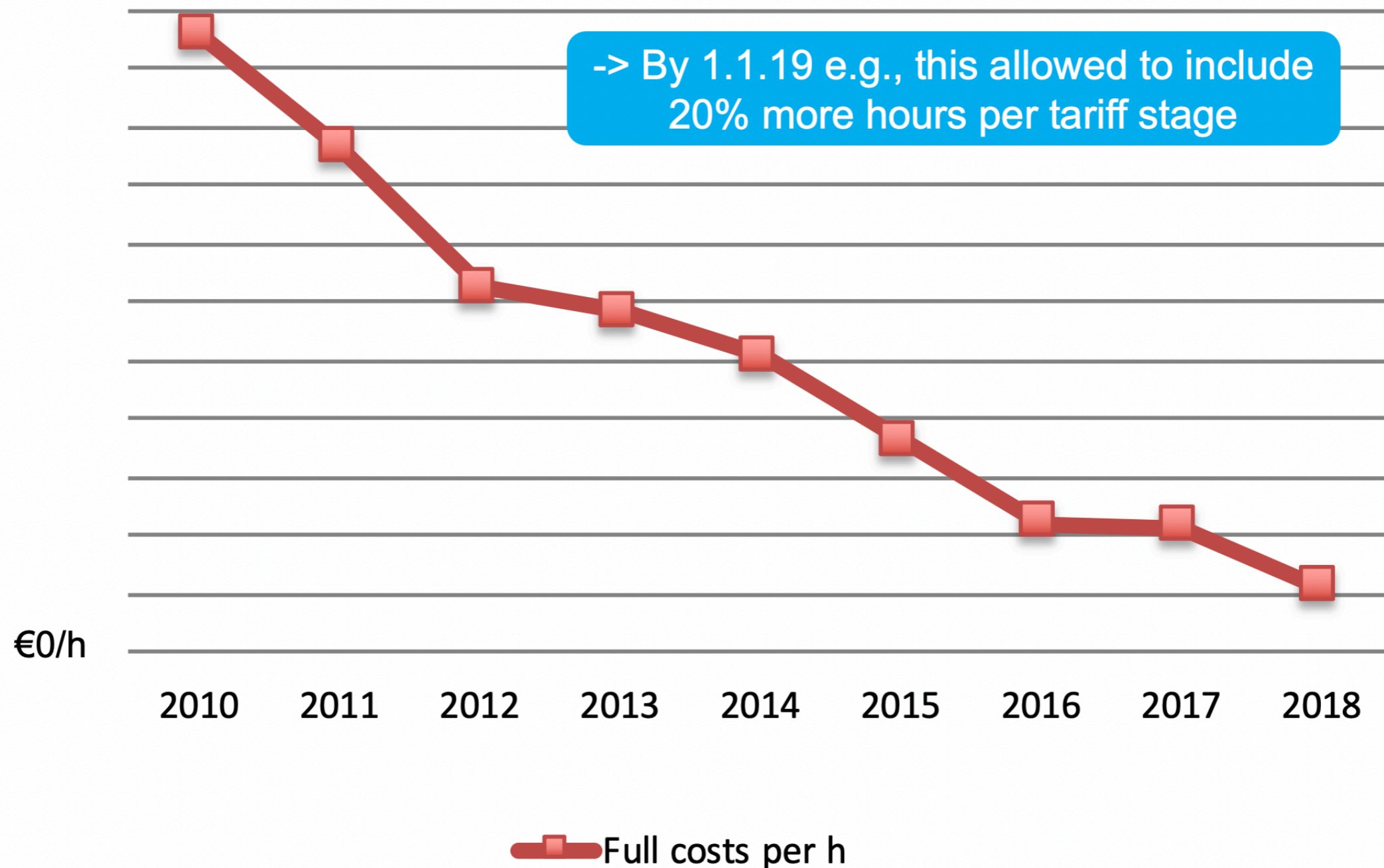
Enduser (Consumer)



SWITCH

SWITCH

Full costs per h of video



SWITCH

47 tenants configured (approx. 60K events)

2 have more than 10,000 events

3 have 1000-10,000 events

13 have 100-1,000 events

9 have < 100 events

16 ready-to-be-used

4 for testing purposes

14 External API Integrations

5x Moodle (UniL)

1x Moodle (TU Ilmenau/WWW Münster)

4x ILIAS (UniBE)

3x OLAT (UZH)

1x Other

uPortal Integration - OAIPMH



/oaipmh?verb=GetRecord&metadataPrefix=matterhorn&identifier=<mediapackage_id>

```
<mediapackage xmlns="http://mediapackage.opencastproject.org" duration="100000" id="mediapackage_id" start="2015-01-01T09:00:00Z">
  <title>My Title</title>
  <series>series_id</series>
  <seriestitle>My Series Title</seriestitle>
  <media>...</media>
  <metadata>...</metadata>
  <attachments>...</attachments>
  <publications>...</publications>
</mediapackage>
```

uPortal Integration - OAIPMH

```

<track id="track_id" ref="track:track-5" type="presentation/delivery">
<mimetype>video/mp4</mimetype>
  <tags>
    <tag>atom</tag>
    <tag>engage-download</tag>
    <tag>oaipmh</tag>
    <tag>rss</tag>
  </tags>
  <url>https://someserver.manchester.ac.uk/oaipmh-default/mediapackage_id/track_id/presentation.mp4</url>
  <checksum type="md5">4b58bd880cb571e19544dbad6d3de5dc</checksum>
  <duration>3300592</duration>
  <audio id="audio-1">
    <device/>
    <encoder type="AAC (Advanced Audio Coding)"/>
    <framecount>71073</framecount>
    <channels>1</channels>
    <bitrate>47997.0</bitrate>
  </audio>
  <video id="video-1">
    <device/>
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    <bitrate>209243.0</bitrate>
    <framerate>10.0</framerate>
    <resolution>1280x720</resolution>
  </video>
</track>

```

Contacts

Opencast Users
users@opencast.org

Opencast Developers
dev@opencast.org

More Opencast
<https://opencast.org/communication>

Stuart Phillipson
stuart.phillipson@manchester.ac.uk

Sven Stauber (SWITCH)
sven.stauber@switch.ch

Links

Opencast GitHub

<https://github.com/opencast/opencast>

Opencast 2019 Conference Videos

<https://www.video.ethz.ch/events/opencast/2019/zurich.html>

University of Manchester

<https://www.mypodcasts.manchester.ac.uk>

Our Public Repos

<https://bitbucket.org/stuartphillipson/>

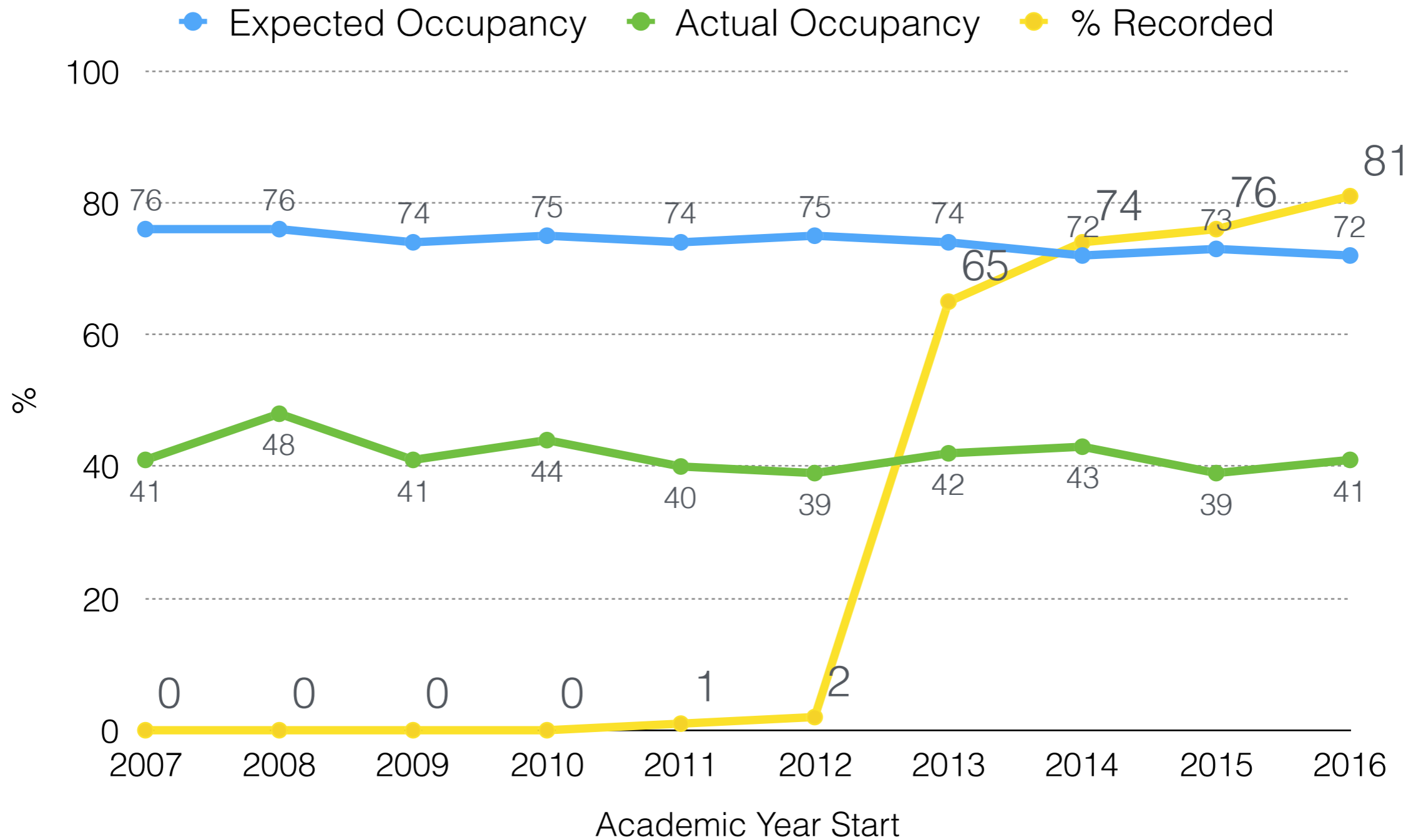
<https://github.com/UoM-Podcast>

Questions?

NOTE TO TRANSLATOR

All slides after this page are only included to answer questions in the Q&A, should they come up. They are optional and may not be used at all.

In Numbers



Manual Transcription

So hopefully most of you know by now, that I'm Stuart Phillipson and I work for the University of Manchester. And I largely run lecture capture here. erm, so what I want to talk about briefly, and I talk far too quickly but if you are watching this on the recording there's a little 1x button beneath on the player line and you can slow me down a bit. Everyone else in the room will just have to put up with it. Erm, so what I want to talk about is timetable integration, because it was sort of the be-all and end-all for us in terms of lecture capture. There's absolutely, well I thought at the time there was absolutely no way we could do lecture capture at this scale without timetable integration.

IBM Watson

So I have faith less you know by now.

But I'm still Philipson and I work for the investment seven I.

Lost me when lex captain here that.

So I want to talk about briefly and I took far too quickly but if you're watching this on the recording has a little one next button beneath on the plan like you can slow me down a bit.

I would also remove just have to put up with it.

And so I once took my timetable integration because it was so the be all and end all for us in terms of like to capture this absolutely up what I thought at the time there is absolutely no way.

We could do you like to catch. .

Google / Youtube

so hopefully most of you know by now
that I'm Stewart Phillipson and I work for the University of Manchester
and I largely run lecture capture here
so I want to talk about briefly and I talk far too quickly but if you're watching this on the
recording there's a little one X button beneath on the player line and you can slow me
down a bit
everyone else in the room will just have to put up with it
and so I want to talk about a timetable integration because it was sort of the be-all and
end-all for us in terms of lecture capture there's absolutely **what** I thought at the time
there was absolutely no way we could do **like**
to capture at this scale without timetable integration

Valencia

so hopefully most of you know by now

I'm Stuart Phillipson and I work for the University of Manchester

and I largely **one** lecture capture here

so I want to talk about briefly and talk far too quickly but if you're watching this on the recording there's a little 1x button beneath on the player line and you can slow **me** down of **it**

ever nelson **in the** room just have to put up with it

and so I want to talk about is timetable integration because it was sort of the be all and **end** all for us in terms of lecture capture there's absolutely **up** I thought at the time

there was absolutely no way we could do **you like to**

capture **at the** scale with without timetable integration

Medical Simulations



Medical Simulations

The screenshot displays the GALICASTER mobile application interface. At the top, the time is 14:13 and the status is 'Waiting'. The GALICASTER logo is in the top right. The main view is a 3D simulation of a hospital room with two patients in beds. A central overlay window titled 'Please Tap Card' is active, featuring a 'Locked' label, a text input field, a Wi-Fi icon, and two buttons: 'Unlock' and 'User Reload'. The bottom of the screen shows a control panel with volume levels (-20, -10, 0 dB), a 'Stereo' label, and buttons for 'Edit' and a refresh icon. A 'Lockscreen' button with a key icon is in the bottom right. A green footer bar at the bottom left contains the text 'Galicaster 2.0.1 - cssc-simulation-room-1'. On the left side, there is a sidebar menu with options: 'Events', 'Recording', 'Status', and 'Control'. The text 'No upco' is partially visible in the background.

Medical Simulations

MANCHESTER 1824 Video Portal
The University of Manchester

Welcome, Stuart Phillipson [Logout](#)

[Home](#) [Lectures](#) [Faculties & Schools](#) [My videos](#) [Help](#) [Search](#)

Home / Faculties and Schools / School of Health Sciences / Recording started at 2018-06-26T14:42:01


- Home
- Library and Cultural Institutions
- Faculty of Biology, Medicine and Health
 - School of Biological Sciences
 - > [School of Health Sciences](#)
 - School of Medical Sciences
- Faculty of Humanities
- Faculty of Science and Engineering
- Professional Support Services
- Ad-hoc Recordings

Follow @UoMpodcast for service updates and information.

Manchester Podcast Retweeted

Humanities eLearning @humelearning
SEED staff: Do you use the Lecture Capture service? Please fill out this quick survey to tell us your views on the Lecture Capture service and how we can best support you. The survey is anonymous. Thanks.
apps.mhs.manchester.ac.uk/surveys//TakeS...
May 30, 2018

Manchester Podcast @UoMpodcast
FAO Staff: we will be upgrading the Techsmith Relay this morning around 9am so the service




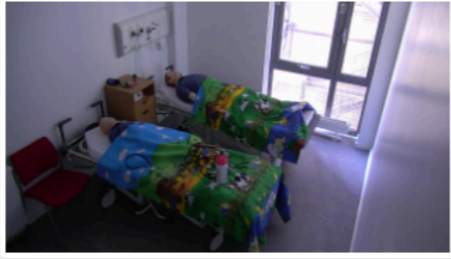
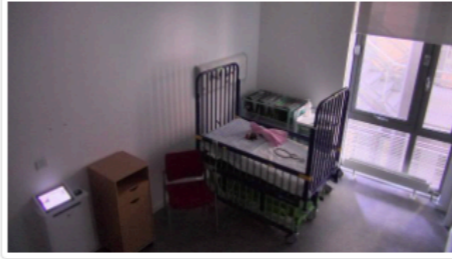




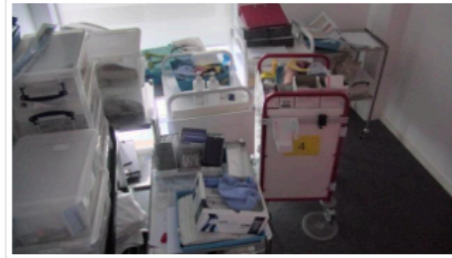



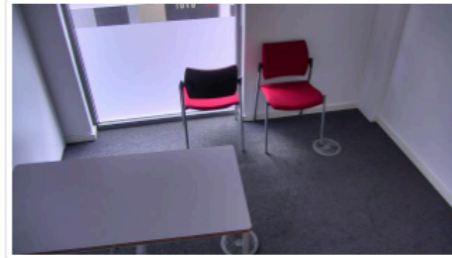
Recording started at 2018-06-26T14:42:01
Author: Added on 26-Jun-2018 Duration: 0:01:16

[Download](#)

Medical Simulations

CSSC Simulation

× 1 ◀ 0 || 0 📺 0 🔍 ⌵ ⚙️

| | | | |
|---|---|--|--|
| <p>cssc-home-environment-room</p>  | <p>cssc-simulation-room-1</p>  | <p>cssc-simulation-room-2</p>  | <p>cssc-simulation-room-3</p>  |
| <p>cssc-training-room-1a</p>  | <p>cssc-training-room-1b - offline for: 4 days</p>  | <p>cssc-training-room-1c</p>  | <p>cssc-training-room-1d</p>  |
| <p>cssc-training-room-2a</p>  | <p>cssc-training-room-2b</p>  | <p>cssc-training-room-2c</p>  | <p>cssc-training-room-2d</p>  |

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