



Opencast at the University of Innsbruck

# Lecture Capture until 2018

- 20 equipped lecture halls
- start/stop via Extron Control Panel in the lecture hall
- no management software
- manual transfer from the SMP351 on a network share

# Equipment of our lecture halls

- Extron SMP351 (2 per lecture hall)
- Polycom videoconferencing systems
- Extron SMD101 Decoder
- two projections
- Usage of microphones and cameras for BigBlueButton webconferences (since 2021)

# Prerequisites for our video management solution

- **Two SMP351s per lecture hall**

We use the existing hardware-setup in the lecture halls and do not change that.

- **No scheduling**

Lecturers start and stop the recordings themselves, without scheduling.

- **Data protection**

To ensure data protection, there lecturer must validate his/her identity and the right to record the lecture.

# 2019

## Setup of Opencast

## Opencast initial setup

- Setup/support from ELAN e. V.
- 4-server-setup
- merging of mediapackages
- access via AdminUI (LDAP)
- LTI-integration of the video into our LMS OpenOlat

# 2019

## Development MCS Connect

## MCS Connect

- Media Control System
- access via a browser on the PC in the lecture hall
- Shibboleth-authentication
- sets metadata referencing to the actual booking in the lecture hall at the specific time
- starting/stopping the recording

March 2nd  
2020

## Production Operation

- SS2020 as our first semester with Opencast

March 9th  
2020

The University is going to be closed because of COVID-19.

- Lecturers are still allowed to come to the empty lecture halls to record the lectures.
- Two semesters of Distance Learning followed (... and more are coming)



# Meeting the needs of Distance Learning 2020

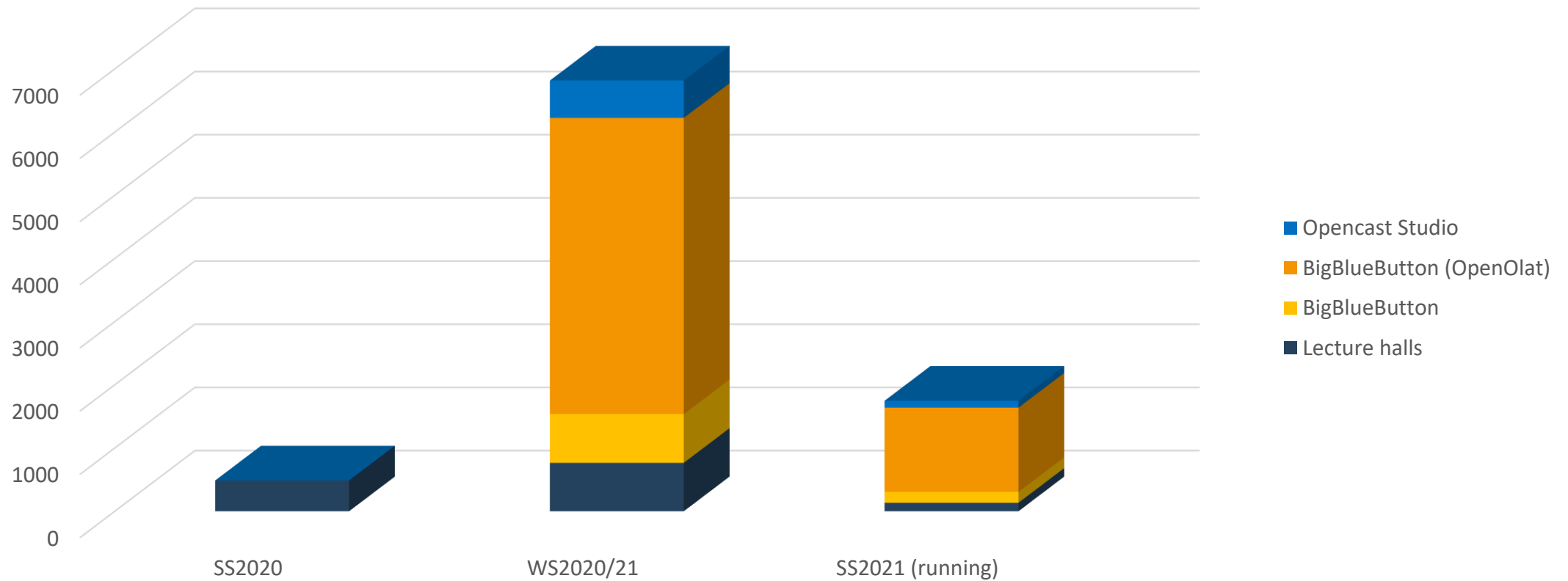
- Opencast Studio
- better LMS integration (OpenOlat)
- new lecture halls got equipped (we have 24 now)
- 10 new worker nodes, 16 CPUs each
- new webconferencing software: BigBlueButton
- Usage of microphones and cameras in the lecture halls for BigBlueButton
- video processing of BigBlueButton-recordings in Opencast

# Video processing of BigBlueButton-recordings in Opencast

- great work from ELAN e. V.
- recordings from BBB are sent to Opencast
- processing in Opencast
- webcams + slides/screenshare + metadata
  - whiteboard, drawings and chat are not included
- Videos are displayed directly in the BBB-integration of OpenOlat
  
- **WE MANAGED! - Just in time.**

<https://github.com/elan-ev/opencast-bigbluebutton-integration>

# Recordings in Opencast



# Opencast-integration in OpenOlat

## » Aufzeichnungen

Titel und Beschreibung

Sichtbarkeit

Zugang

Konfiguration

Wählen Sie eine Serie oder ein Video aus, indem Sie im Feld unten nach seinem Titel suchen. Geben Sie \* ein, um alle Ihre Serien / Videos zu Auswahl anzuzeigen. Sie erhalten alle Serien/Videos für den Benutzer 'c102267'. Mit dem \*-Symbol können Sie alle Videos anzeigen, auf die Sie Zugriff haben

Anzeige  Serie  
 Video

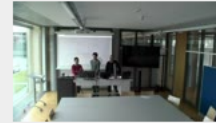
Serie

Identifikation 489266

Speichern

## 2020S171002 VO DMLT Tests 2020S171002 Gruppe 0

Ergebnisse 1-8 von 8



**2020-03-12 2020S171002 VO DMLT Tests**

von c73106  
12.3.2020, 11:47:49



**2020-03-12 2020S171002 VO DMLT Tests**

von c73106  
12.3.2020, 11:39:34



Any questions?