

# Shared Experience: TUCN's eCampus

Practices for creating and organizing  
instructional media materials

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Co-funded by the  
Erasmus+ Programme  
of the European Union



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# Agenda

## Introduction

Tools, Practices, Publishing

## PoCs

Development Tools & Hardware Setups

## Dissemination at TUCN level

Support channels, public media channel (YT), private  
media channels



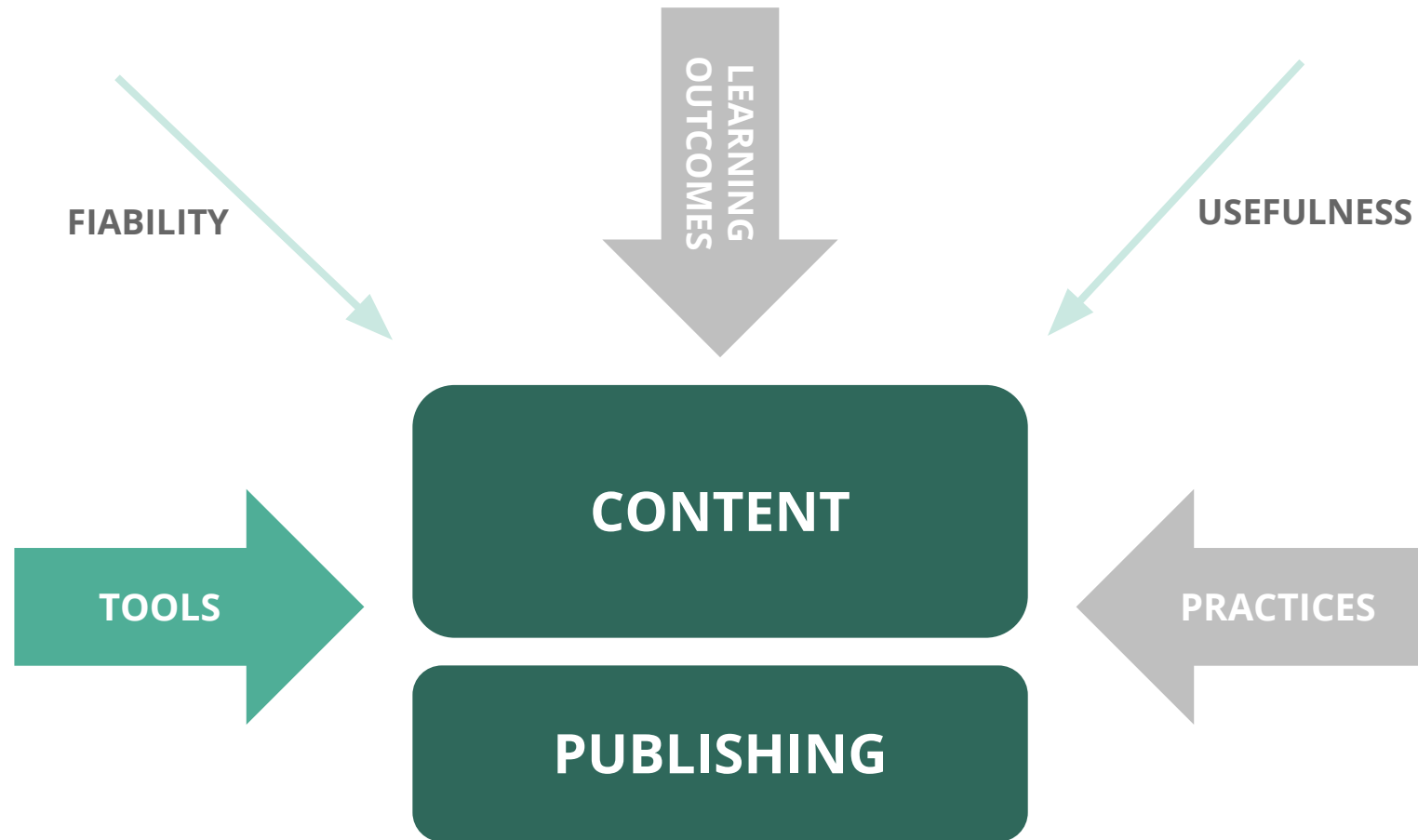
# Instructional Media Materials



To satisfy the learning need of students through procedural knowledge development, while providing the context for learning and transferring specific skills to the task at hand.



# Instructional Media Materials



# Practices for Instructional Video Tutorials

## Content

- (information) sources
- resources interfaces
- keywords
- search strategies
- segmentation and linking
- analytics

## Accessibility

- captioning, subtitling, translation for videos
- instructional design (narration, pacing, interactive elements, and navigation)
- player technology and streaming location

## Compatibility

- aspect ratio
- resolution
- hosting location
- video size
- devices

## Audio

- narration: speaking pattern, narrative tone, conversational over formal, pace of speech
- studio-quality equipment (microphone) and audio capture software



# Tools for Instructional Video Tutorials

## Screencast

A form of video tutorial recorded directly from a computer screen

**Low-end:**

Jing, CamStudio, ScreenRScreeencast-O-Matic, SnagIT, ShareX

**High-end:**

Camtasia, ScreenFlow, Adobe Captivate, Articulate Studio

## Live action video

Real-life content as video footage of people and physical spaces

**High-end:**

Articulate Replay, Adobe Presenter, Camtasia

+ video editing software:

Windows Movie Maker, Final Cut Pro, AdobePremiere, Camtasia

## Slidecast

Slide-based approach, individual pieces of information linked together to create a movie

**High-end:** Camtasia, Adobe Captivate, Articulate Studio, PowerPoint video, AuthorSTREAM



# Tools for Instructional Video Tutorials

## Animations

Instructional video content without the use of actors

### **Web-based:**

GoAnimate, PowToon, Wideo, Animaker

### **High-end:**

Adobe Character Animator

+ visual effects video editing:

Adobe After Effects + 3D modeling

## Interactivity

Empowered amount of control and interaction the viewer has with the video tutorial and the learning environment

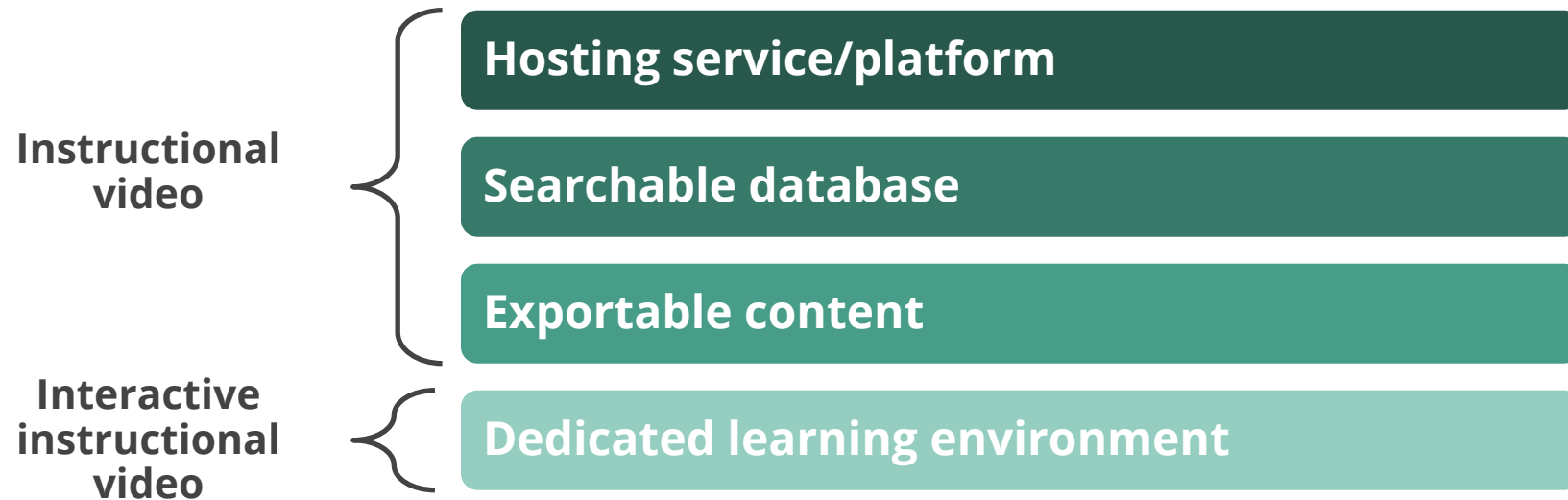
Navigation simulations, games, assessments (pre-tests, post-tests, quizzes, surveys, and feedback), guided images, graphics, responsive timelines, diagrams, charts

### **High-end:**

Articulate Storyline, Articulate Studio, and Adobe Captivate

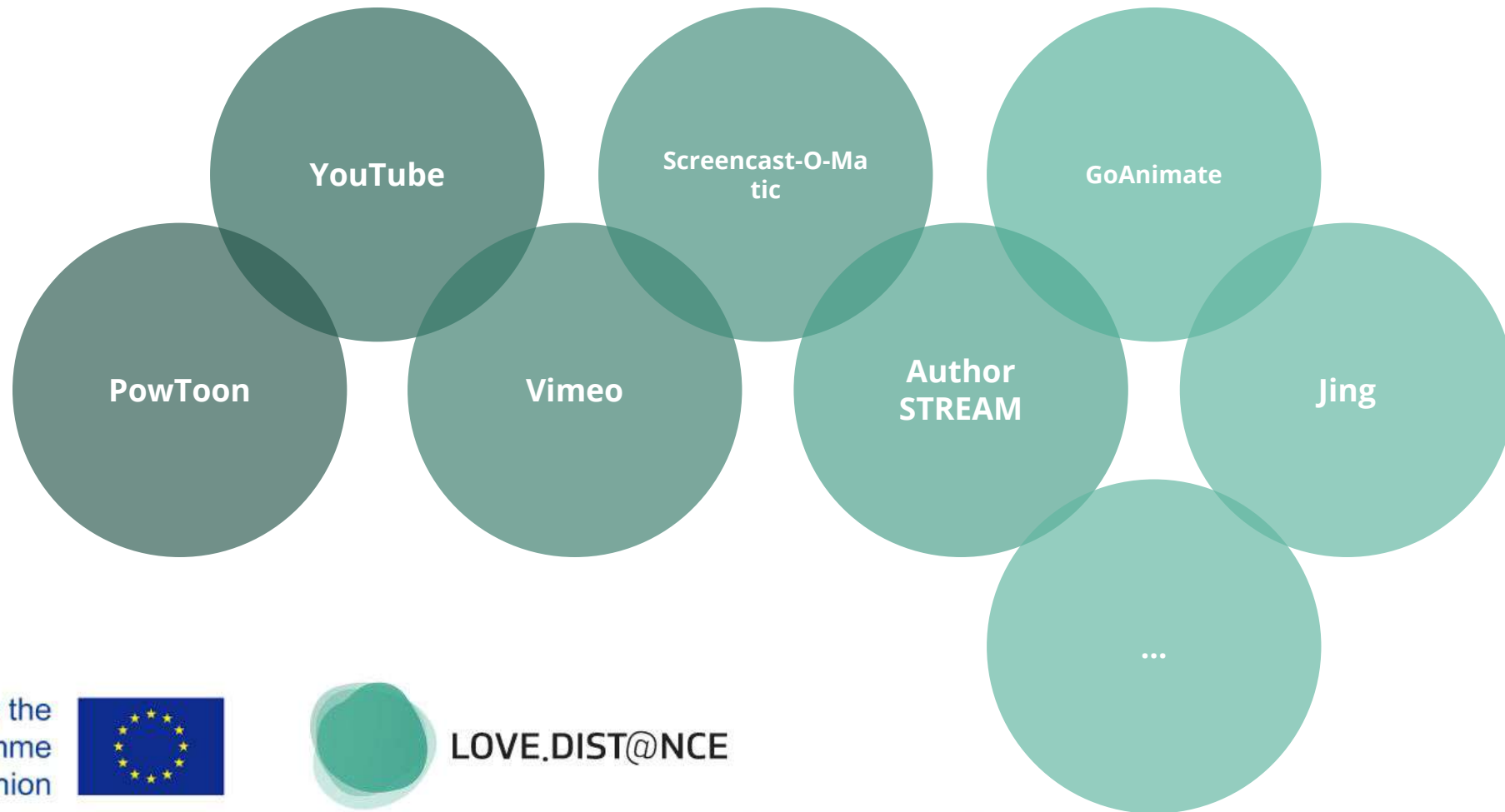


# Hosting for Instructional Video Tutorials





# Hosting for Instructional Video Tutorials



# SOME TUCN PRACTICES : for instructional hardware infrastructure

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# Instructional Content Acquisition Hardware

**Use-case** handwritten annotations during live-streaming

## Tablets



### iPad Pro

- +**
  - low input latency
  - 120Hz display
  - pencil force/position tracking
  - connects to macOS (sidecar)
- - price



### Samsung Tab S6 Lite

- +**
  - wacom battery-free pen
  - price
- - entry-level spec (CPU, RAM)
  - no video output

## Pen display



### WACOM ONE

- +**
  - acts as an additional screen
  - battery-free pen
  - can be used with Windows software
- - no touch input (pen only)
  - wired connection

## Interactive display



### Newline VN touchscreen

- +**
  - Win/iOS/Android compatible
  - large 4K screen
- - price
  - not portable

## E-INK

**DEMO**  
handwriting/  
drawing  
accuracy?



# Instructional Content Acquisition Hardware

	<b>advantages</b>	<b>disadvantages</b>
Wacom ONE	<ul style="list-style-type: none"><li>- second/third monitor</li><li>- Paper-like canvas</li><li>- Standard pen – no battery</li><li>- Compatibility – Windows, Android, Mac</li></ul>	<ul style="list-style-type: none"><li>- only with pen (no touch)</li><li>- many cables</li></ul>
MS Surface	<ul style="list-style-type: none"><li>- portable</li><li>- PC + tablet</li></ul>	<ul style="list-style-type: none"><li>- Price 2500 EUR</li><li>- Active pen – need to charge it</li></ul>
Samsung Galaxy Tab S6 Lite	<ul style="list-style-type: none"><li>- portable</li><li>- Standard pen – no battery</li><li>- Integration with mobile apps</li></ul>	<ul style="list-style-type: none"><li>- Entry level model – no HDMI connection</li></ul>
Samsung Galaxy Note Family	<ul style="list-style-type: none"><li>- All in one</li><li>- Mobility</li><li>- Integration with mobile apps</li></ul>	<ul style="list-style-type: none"><li>- small screen/write space</li></ul>
NewLine Screen	<ul style="list-style-type: none"><li>- Screen dimensions and resolutions (4K)</li><li>- Multiple touch points</li><li>- Whiteboard + PC + videoprojector</li><li>- Big viewing angle, intuitive UI, easy to use</li></ul>	<ul style="list-style-type: none"><li>- Price 2500 EUR</li></ul>



# Instructional Content Acquisition Hardware

## Use-case

Online Lesson Streaming Setup:  
**Minimal setup: Wacom ONE + Microsoft Surface + Smartphone**



Sorin

$l_1 + l_2 + l_3 = 0$

Ms Surface

$l_1 + l_2 + l_3 = 0$

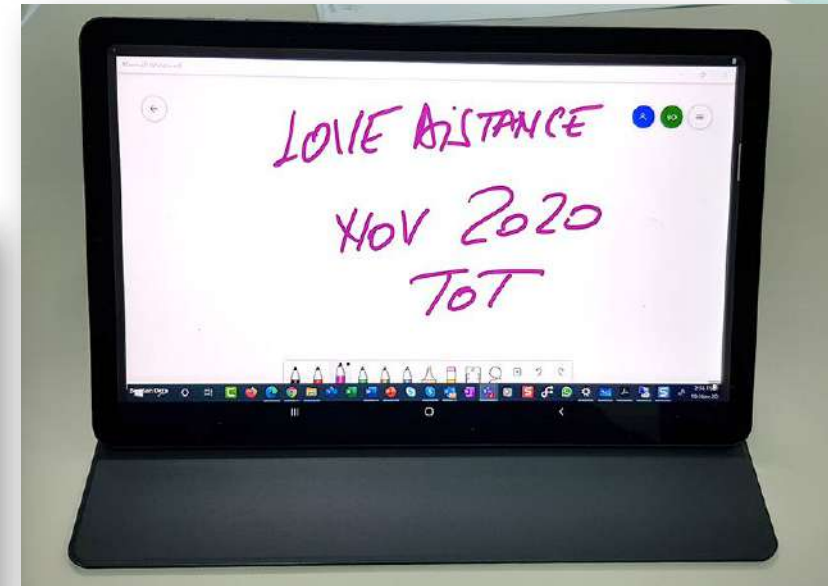
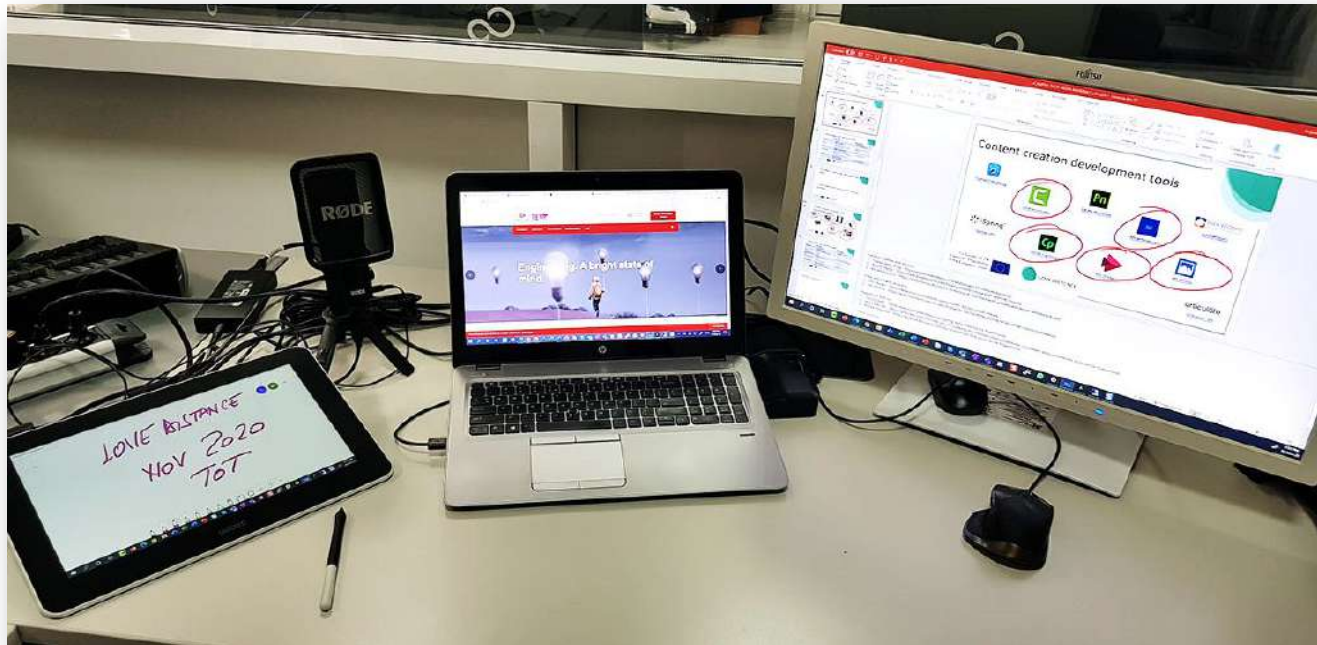
Wacom one



# Instructional Content Acquisition Hardware

## Use-case

Online Lesson Streaming Setup: **Wacom ONE**



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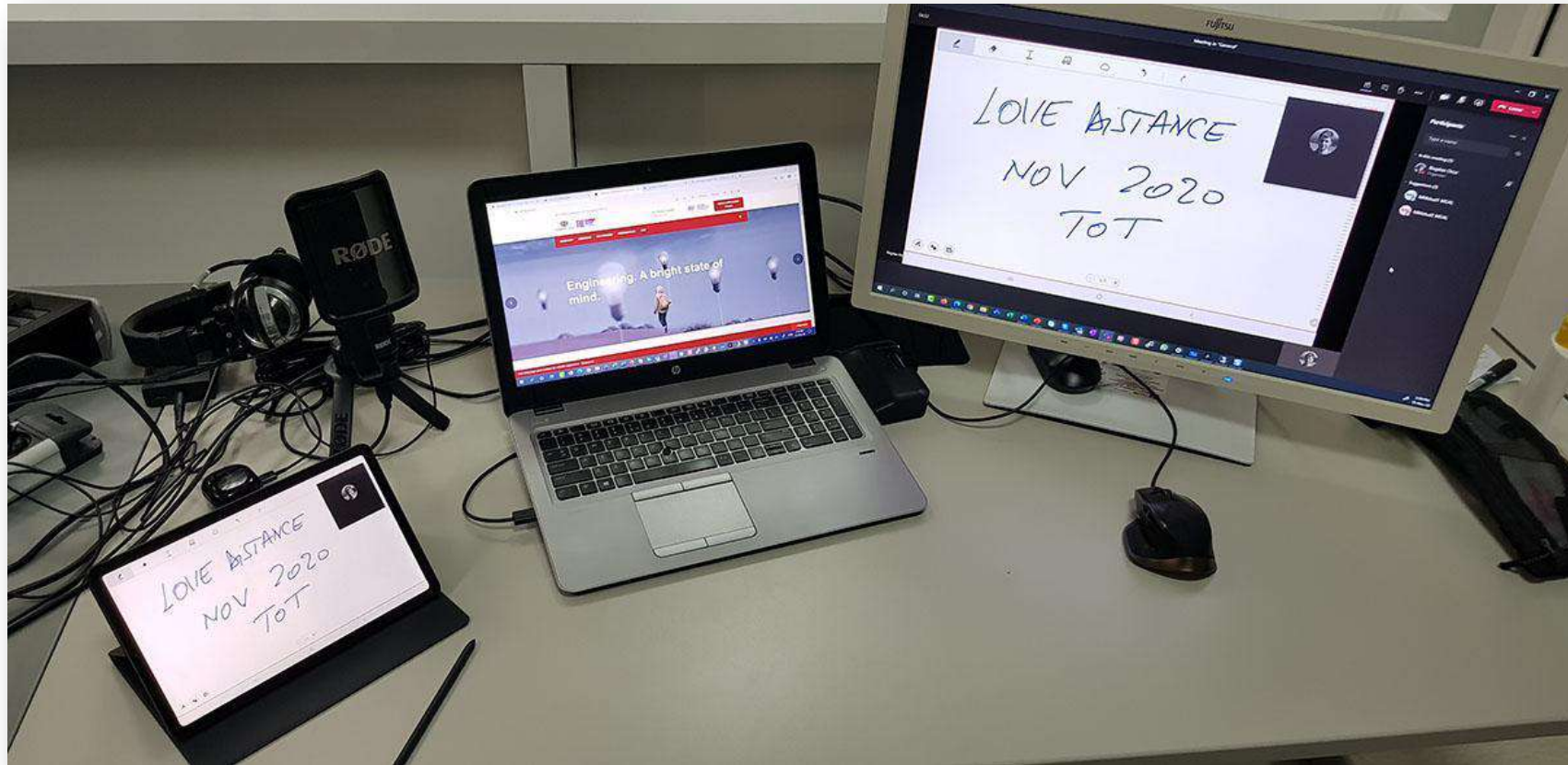


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# Instructional Content Acquisition Hardware

## Use-case

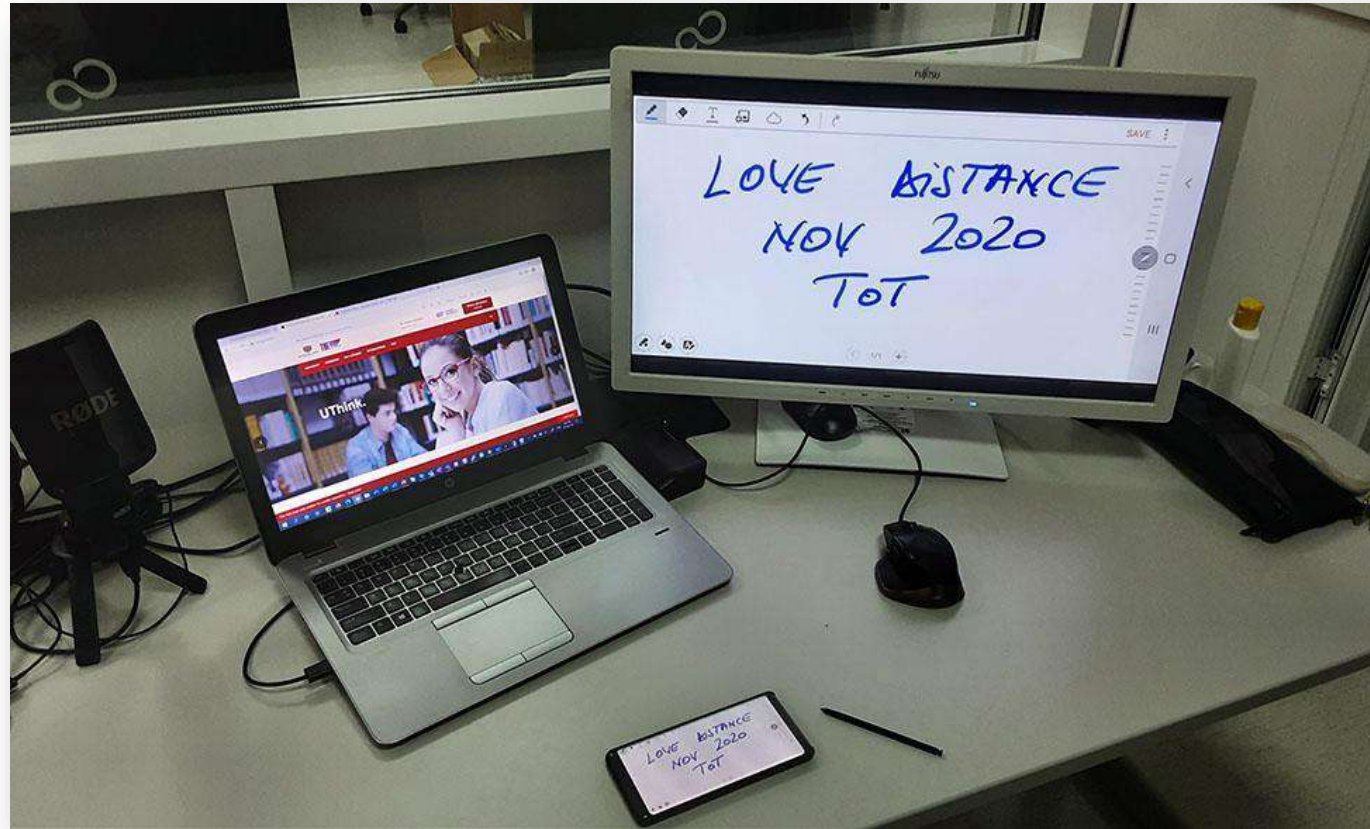
Online Lesson Streaming Setup: **Samsung Galaxy TAB S Lite**



# Instructional Content Acquisition Hardware

## Use-case

Online Lesson Streaming Setup: **Samsung Galaxy Note 8**





# Instructional Content Acquisition Hardware

## Use-case

Online Lesson Streaming Setup: **Newline VN Touchscreen TT-7518VN**

Inregistrare M5 - Solutii hardware si software\_Part 2

27 0

### 1. Ciclul Seiliger

- **Ciclu termodinamic care combină elemente ale ciclurilor Otto și Diesel**
- **În cazul acestui ciclu, arderea se produce parțial la volum constant și parțial la presiune constantă**
- Există două etape de transfer termic acestea fiind reprezentate de către un proces izocor (volumul rămâne constant) și un proces izobar (presiunea rămâne constantă)
- Avantajul principal este faptul că există o creștere a intervalului de timp în care combustibilul arde, rezultând o ardere mai completă.
- Utilizarea unui astfel de proces este mai complexă

Sursa Bibliografie

Figura 1.1 - Diagrama P-V a unui ciclu Seiliger

TECHNICAL UNIVERSITY  
BOSCH

# Instructional Development Software

## Use-case

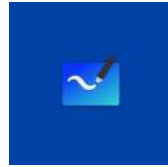
For content acquisition, editing and processing



Adobe Captivate



Camtasia Studio



MS Whiteboard



MS Photos

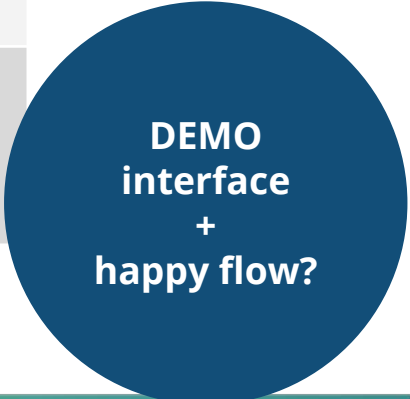


MS Stream



# Advantages and disadvantages

	Advantages	Disadvantages
MS Photos	<ul style="list-style-type: none"> <li>- easy to use</li> <li>- low level HW resources</li> <li>- already integrated in OS</li> </ul>	<ul style="list-style-type: none"> <li>- windows 10 OS</li> <li>- limited effects and transitions</li> </ul>
Camtasia	<ul style="list-style-type: none"> <li>- medium price</li> <li>- simple/intuitive dashboard for video tutorials</li> <li>- export in different format</li> </ul>	<ul style="list-style-type: none"> <li>- Interactive video must be included HTML pages</li> </ul>
Captivate	<ul style="list-style-type: none"> <li>- integration with other Adobe tools</li> <li>- templates for software tutorials</li> <li>- Interactive quiz creation</li> </ul>	<ul style="list-style-type: none"> <li>- higher price (perpetual license/ monthly subscription)</li> </ul>
MS Whiteboard	<ul style="list-style-type: none"> <li>- integration with MS Teams (meetings)</li> <li>- multitude of tools – pen, eraser, add files (images, pdf, docs, etc.)</li> <li>- can share workspace with other users</li> </ul>	<ul style="list-style-type: none"> <li>- M365/O365 account</li> </ul>
MS Stream	<ul style="list-style-type: none"> <li>- M365/O365 integration</li> <li>- storage space for each user</li> <li>- integration with MS Forms - interactive videos</li> </ul>	<ul style="list-style-type: none"> <li>- M365/O365 account</li> <li>- no public access to videos</li> </ul>



# UseCase: TUCN eCampus YT channel

The screenshot shows the YouTube channel page for 'eCampus - TUCN Team', which has 87 subscribers. The channel is categorized under 'VIDEOS' and features a 'SUBSCRIBE' button. The main content area displays a grid of 18 video uploads, each with a thumbnail, title, and view count. The videos cover various topics related to online learning and digital tools, such as admission guides, Microsoft Teams integration, and OneNote usage. The channel logo is a green circle with a white 'e'.

**eCampus - TUCN Team**  
87 subscribers

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT

Uploads PLAY ALL SORT BY

Thumbnail	Title	Views	Time
	Ghid de admitere online la Universitatea Tehnică din...	54 views	5:01
	Ghid de admitere online la Universitatea Tehnică din...	1K views	5:01
	Modificarea drepturilor de acces la secvențele video di...	374 views	2:26
	Integrarea Turnith cu Microsoft Teams - short...	310 views	4:30
	Crearea unui spațiu disciplină de tip Class Notebook in...	1K views	8:24
	Crearea unei noi sesiuni de comunicare audio și/sau...	1.8K views	5:56
	Adăugarea AUTOMATA a utilizatorilor la un TEAM...	3.1K views	5:02
	Crearea unui nou TEAM (spațiu disciplină) în...	2.1K views	5:06
	Accesare AzureDevEducation	1K views	3:20
	Accesarea spațiului disciplinei folosind OneNot...	482 views	3:16
	Reutilizarea resurselor în OneNote desktop	69 views	3:07
	Crearea chestionarelor de evaluare în Forms	407 views	5:30
	Editarea conținutului în OneNote Class Notebook...	522 views	6:13
	Actualizarea structurii unei discipline	165 views	3:18
	Adăugarea sau ștergerea unui student de la o...	148 views	3:21
	Creare spațiu disciplină	684 views	5:46
	Accesarea portalului Office 365 UTCN	10K views	1:50
	Ștergerea unei discipline	37 views	2:17

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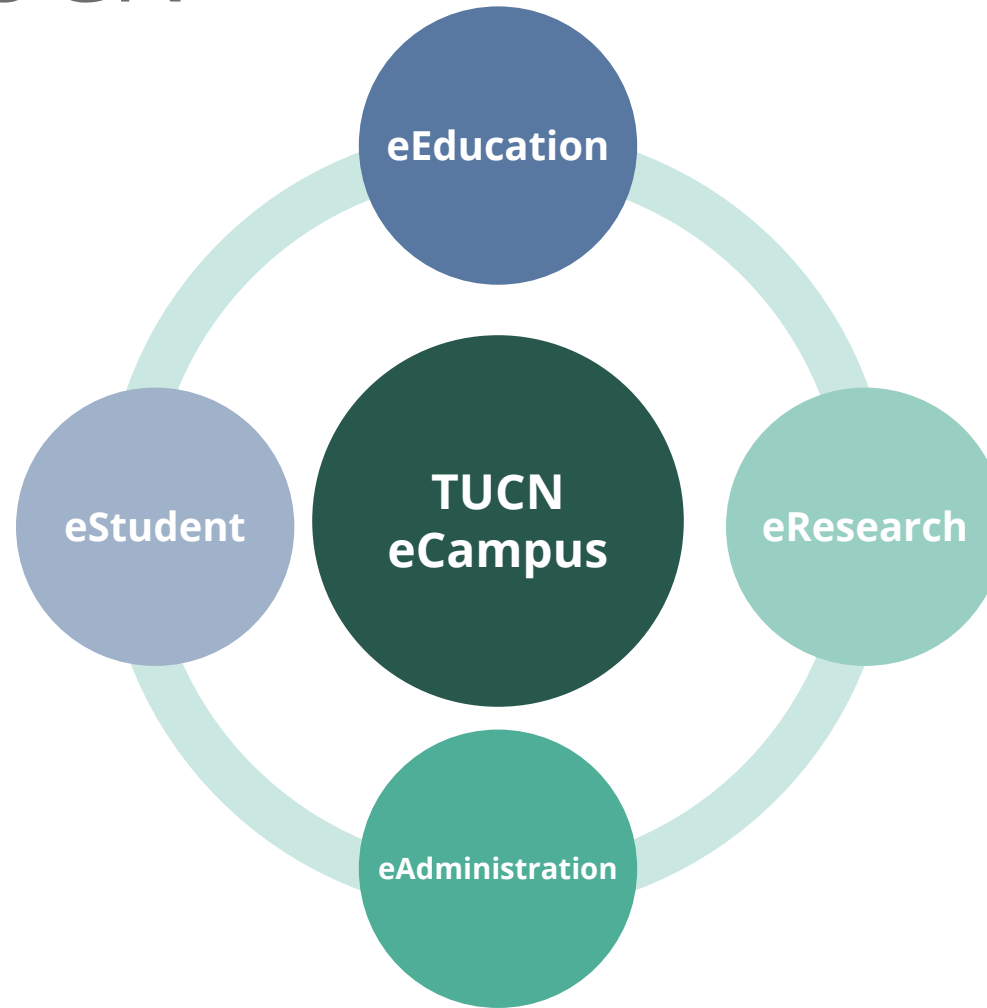
# TUCN's eSUPPORT : the eCAMPUS Resource/Support environment

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# eCampus TUCN



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# eSupport for teachers, students and staff

**1) Public**

YT channel

**2) Institutional**

Org-wide MS Team

**3) Training**

Training program



# 1<sup>st</sup> LEVEL eSUPPORT: PUBLIC

## CONTENT: Public-accessible tutorials

### Topics:

1. Authentication and non-specific usage
2. Virtual class management: class workspace creation; student enrollment; live meeting setup; class removal; collaborative workspace with restricted access
3. Educational content management: document management (upload/ create/ download); file management restrictions;
4. Resource sharing (e.g. between class workspaces
5. Multimedia content management: private publishing channels;
6. Student assessment: quiz creation and settings; feedback form creation and settings

## ROLES

### Roles:

Use-case specific: student / teacher





# 1<sup>st</sup> LEVEL eSUPPORT: PUBLIC

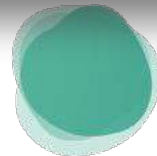
## PUBLISHING: eCampus Website | YouTube Channel

The screenshot shows the 'Platforma educațională Office 365 - Tutoriale' page. It features the TU Cluj-Napoca logo and an Office Professional Plus logo. The navigation menu includes Home, Activare, Instalare, Despre Office 365, Avantaje, Contact, and FAQs. The main content area is titled 'Platforma educațională Office 365 - Tutoriale' and contains a list of tutorial links for various Office 365 features, such as 'Accesarea portalului Office 365 UTCN' and 'Instalarea aplicațiilor Office 365'.

The screenshot shows the YouTube Studio channel page for 'eCampus - TU CN Team'. The channel has a green profile picture with a white 'e'. The 'Channel videos' section is active, showing a list of uploaded videos. The table below summarizes the video data:

Video	Visibility	Restrictions	Date	Views ↓	Comments	Likes (vs. dislikes)
Accesarea portalului Office 365 UTCN	Public	None	Nov 8, 2018	10,295	1	79.2% 19 likes
Instalarea aplicațiilor Office 365	Public	None	Nov 6, 2018	4,610	0	100.0% 15 likes
Adăugarea AUTOMATĂ a utilizatorilor la un TE...	Public	None	Mar 15, 2020	3,123	0	100.0% 8 likes
Gestiunea licențelor personale Office 365	Public	None	Nov 6, 2018	2,566	0	83.3% 5 likes
Crearea unui nou TEAM (spațiu disciplină) în ...	Public	None	Mar 15, 2020	2,104	0	100.0% 5 likes
Crearea unei noi sesiuni de comunicare audio ...	Public	None	Mar 16, 2020	1,794	0	100.0% 8 likes

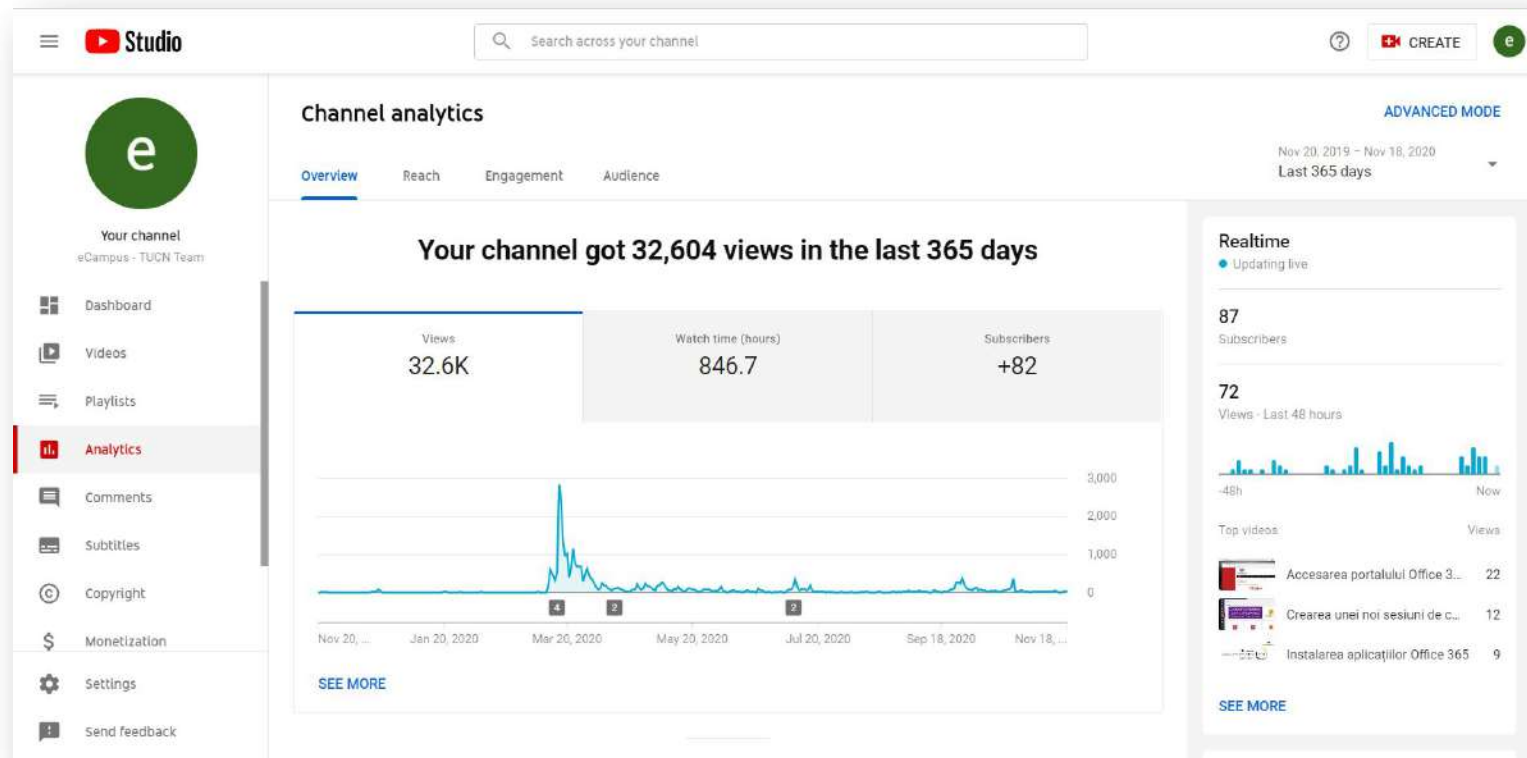
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# 1<sup>st</sup> LEVEL eSUPPORT: PUBLIC

## PUBLISHING: eCampus Website | YouTUBE Channel



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# 2<sup>nd</sup> LEVEL eSUPPORT: INSTITUTIONAL

## CONTENT: Informational and Q&A content

**Sync and assync messaging channels**

### Thread-based structure

1. Workspace management
2. Class management
3. Communication and live meeting management
4. Assessment and apps management

**Informational channels: announcements**

**FAQ channel**

## ROLES:

**Contributors:** Teachers- CONTRIBUTE access (READ/WRITE); eCampus TEAM: FULL-CONTROL access



# 2<sup>nd</sup> LEVEL eSUPPORT: INSTITUTIONAL

## PUBLISHING: eCampus Communication Workspace: MS TEAMS

5. dacă după min. 48 de ore de la completarea formularului, prin reactivarea prin serviciul de recuperare a parolei: <http://o365.utcluj.didatec.ro/Home/Licensing> primiți în continuare mesajul "USER INEXISTENT" vă rugăm să faceți o solicitare scrisă pe adresa [support@utcluj.didatec.ro](mailto:support@utcluj.didatec.ro). **Solicitarea va fi însoțită obligatoriu de captura de ecran** cu EROAREA de "USER INEXISTENT" la introducerea adresei de e-mail în câmpul "Email" și **veți specifica faptul că ați completat deja formularul!**

Dorim să finalizăm această operațiune până cel târziu în data de **29 mai 2020** (inclusiv). După această dată, frecvența de procesare a solicitărilor va depinde de taskurile suplimentare (inclusiv didactice) pe care le avem de derulat.

Facem tot posibilul să rezolvăm fiecare solicitare de activare în timp util.

Echipa Campus Virtual (eCampus) UTCN

See less

Aurelia Ciupe 3/19 12:59 PM  
**MENTIUNE.** Transmiterea acestui mesaj catre studenti se face prin **copiere (copy-paste, captura ecran, etc)** în TEAM-ul activității didactice (sau e-mail etc) și **NU** prin redirectare folosind hyperlink-ul de referințiere. Acest TEAM ("Universitatea Tehnica din Cluj-Napoca") este destinat doar personalului UTCN. În momentul de față, personalului didactic UTCN. Accesul studenților este restricționat și nu vor putea vizualiza conținutul prin...

See more

Reply

May 29, 2020

Bogdan Orza 3/29 8:58 AM  
**Recomandări eCampus pentru crearea Assignment-urilor de Evaluare (inclusiv Sesiune)**  
Universitatea Tehnica din Cluj-Napoca

Pentru a veni în sprijinul derulării în condiții optime a sesiunii de evaluare online, față de informațiile furnizate deja, vă propunem câteva recomandări pentru crearea assignment-urilor (teme și/sau teste):

- alocați un interval de timp suficient pentru derularea assignment-urilor, care să acopere eventualele situații

New conversation

Aurelia Ciupe 4/8 8:08 PM Edited  
**Support Campus Virtual UTCN: Thread 1: ACCES ȘI ORGANIZARE MICROSOFT TEAMS**  
Descriere: acces, canale de comunicare, management documente, analytics  
Moderator: Aurelia Ciupe (@ciupeaurelia)

Collapse all

Lucian Constantin Stefan 4/15 6:30 AM  
Buna ziua, as avea o intrebare legata de drepturile de acces. Ce incerc sa fac este sa protejz fisierele depuse de mine in "Files" de stergeri/modificari accidentale din partea studentilor. Am reusit sa imi dau seama ca pot deschide un fisier din "Files"-ul unui channel in SharePoint si acolo dau click si la "Manage Access" la "Visitors" si "Members" le modific in "Can view" si studentii nu mai pot nici sa il modifice nici sa il stearga (am verificat cu studentii deja). Intrebarea este: ei pot sa il deschida in SharePoint ca si mine si sa il modifice aneact il in "Can edit"? Daria nsa, ca indata indata de catre Oumar reentul de a "Mariusu arpac" al unui "Members"? Am incercat See more

Aurelia Ciupe 4/15 11:20 PM Edited  
Lucian Constantin Stefan - referitor la : Lucian Constantin Stefan: Buna ziua, as avea o intrebare legata de drepturile de acces... posted in **Universitatea Tehnica din Cluj-Napoca / eCAMPUS** at Apr 15, 2020 6:30 AM

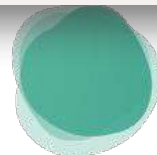
Secțiunea "Files" (Teams) este o bibliotecă de documente instanțiată în SharePoint și propagată în Teams, prin urmare schema de autorizitate arăta arăsați. În canalul în prezent studenții au o singură permisiune lăsată în SharePoint, nu permisiunea de "Full" (la fel ca în SharePoint). See more

Lucian Constantin Stefan 4/15 10:00 AM  
Multumesc

Aurelia Ciupe 4/28 3:08 PM  
Stelian Brad referitor la Stelian Brad: Cum putem include într-un Team persoane care nu sunt înregistrate de Ad... postat în **Universitatea Tehnica din Cluj-Napoca / eCAMPUS** la 28 apr. 2020 13:02

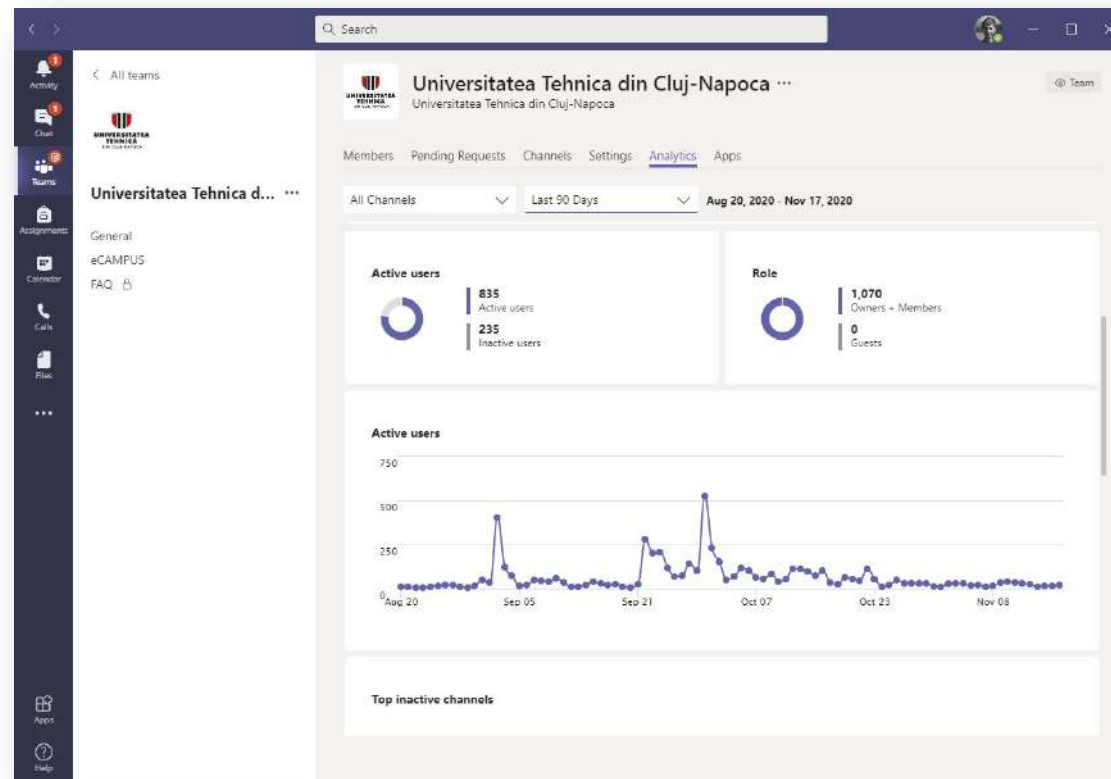
Accesul extern este activat pentru UTCN la nivel de Admin O365.  
Pe un canal în Teams (Add members) se poate adăuga și în invitații și membrii externi.

See more



# 2<sup>nd</sup> LEVEL eSUPPORT: INSTITUTIONAL

## PUBLISHING: eCampus Communication Workspace: MS TEAMS



# 3<sup>rd</sup> LEVEL eSUPPORT: TRAINING

## CONTENT: Technology adoption training

### Topics

1. Workspace management and automatization
2. Class management
3. Communication and live meeting management
4. Assessment and apps management
5. Hardware & software with educational purposes
6. Use-cases

### Training sessions

1. eCampus ToT
2. org-wide training sessions (in collab with partners)

## ROLES:

**Participants:** Teachers (ToT + training sessions);  
Administrative staff (training session)



# 3<sup>rd</sup> LEVEL eSUPPORT: TRAINING

## PUBLISHING: eCampus Communication Workspace + eCampus ToT Workspace: MS TEAMS

The screenshot displays a Microsoft Teams interface for a channel named "eCAMPUS - FDI 2020". The left sidebar shows navigation options: Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main content area is titled "General" and contains a list of assignments:

- [PRIVATE] 1. Acces si organizare
- [PRIVATE] 2. Managementul clasei
- [PRIVATE] 3. Evaluare si integrare aplicatii
- [PRIVATE] 4. Comunicare online
- [PRIVATE] 5. Instrumente software, hardware te...
- [PRIVATE] 6. Scenarii (user stories)
- [PRIVATE] eCampus - intern
- [PRIVATE] eCampus - Multimedia

Below the assignments, a numbered list of topics is visible:

1. Acces si organizare
2. Managementul clasei
3. Evaluarea si integrarea aplicatiilor
4. Comunicare online
5. Solutii hardware si software
6. Scenarii de utilizare in medii educationale

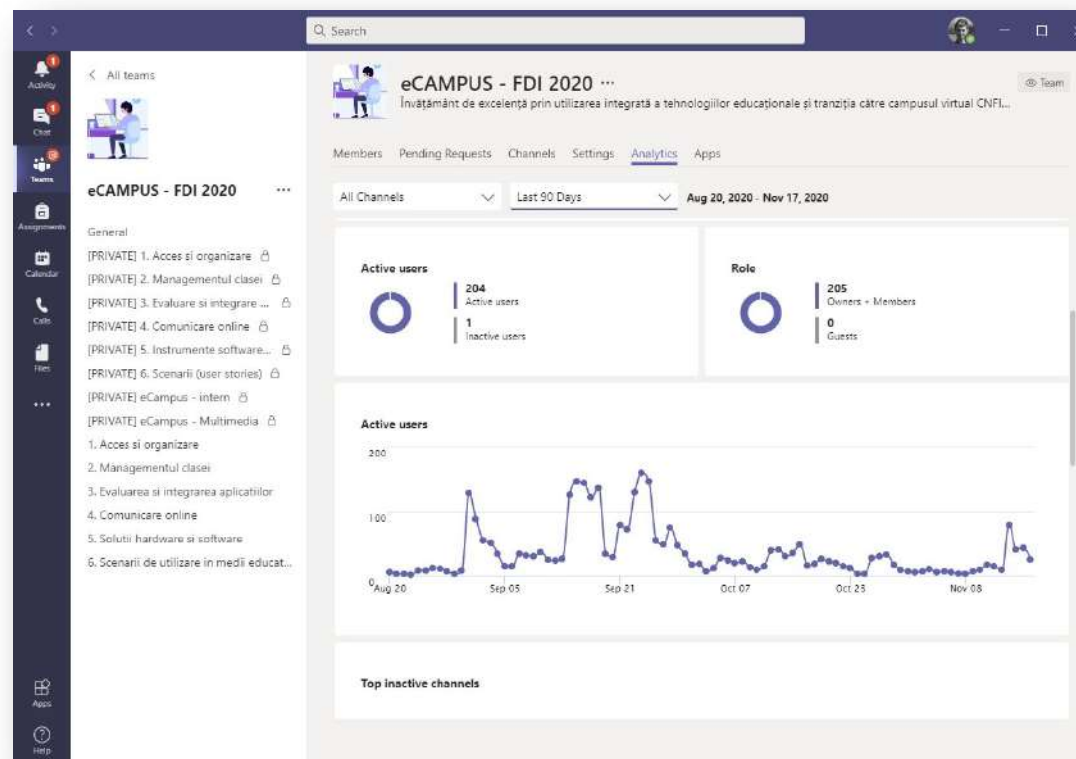
The main content area shows a grid of video posts under the "General" tab. The posts are:

- Tutorial M4 - Windows 10 - Video... by Bogdan ORZA (02:23)
- Tutorial M4 - Windows 10 - Video... by Bogdan ORZA (03:01)
- Tutorial M4 - Windows 10 - Video... by Bogdan ORZA (03:22)
- Tutorial M4 - MS Teams - Meetin... by Sorin BESOIU (07:38)
- Tutorial M4 - MS Teams - Meetin... by Sorin BESOIU (04:25)
- Tutorial M4 - MS Teams - Meetin... by Sorin BESOIU (02:41)
- Tutorial M4 - MS Teams - Meetin... by Sorin BESOIU (03:36)
- Tutorial M4 - MS Teams - Meetin... by Sorin BESOIU (03:08)

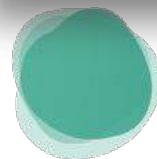
Each video post includes a thumbnail, a title, the author's name, and engagement metrics (likes and replies).

# 3<sup>rd</sup> LEVEL eSUPPORT: TRAINING

**PUBLISHING:**  
eCampus Communication Workspace + eCampus ToT Workspace: MS TEAMS



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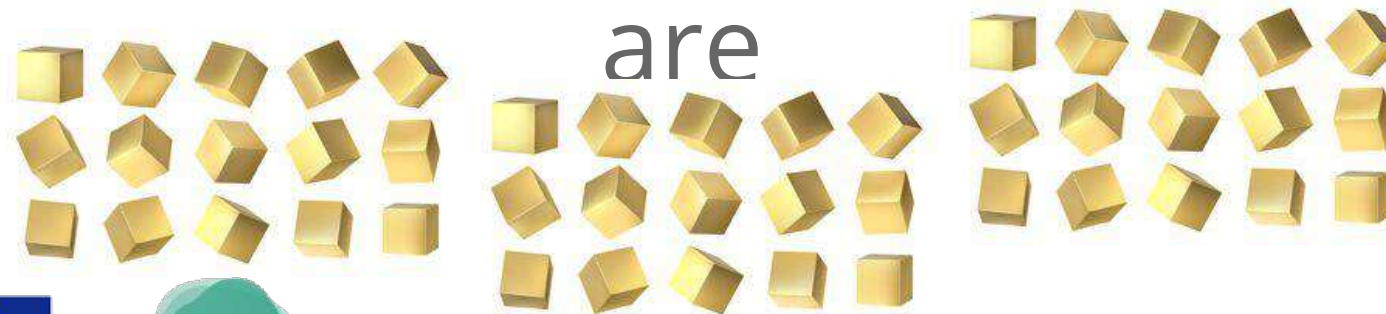
# TAKEAWAYS

Role-based addressability

Multiple communication channels ... with a purpose

Software/hardware should be adapted to needs and usage

Issue description/identification and patience





# THANK YOU!

Shared Experience: TUCN's eCampus  
Practices for creating and organizing instructional media materials

Aurelia CIUPE, Bogdan ORZA

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