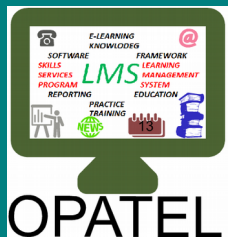


OPATEL Training

**Best practices for
developing the
academic e-learning
infrastructure**

Patras Greece

21/11/2017

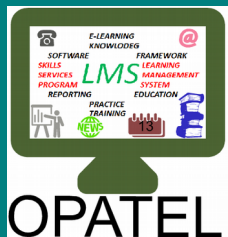


Mr. George Lekatsas and Mrs. Sofia Kasola



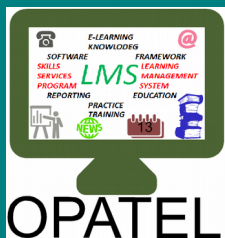
Network Operations Center (UPNET)

- ♦ Network management
- ♦ Telematic services
- ♦ Network and data protection
- ♦ Support and helpdesk
- ♦ According to “Operation Regulation of Telematics Network” and Greek/European Laws



UPNET Service Categories

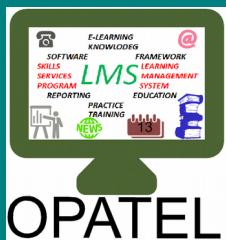
- ♦ **Account Management**
- ♦ **Email services**
- ♦ **Websites**
- ♦ **Network services**
- ♦ **Telephony services**
- ♦ **Cloud Services**
- ♦ **Upatras Campus Software Licenses and Repository**
- ♦ **Elearning**
- ♦ **Teleconferencing**



Account Management and AAI

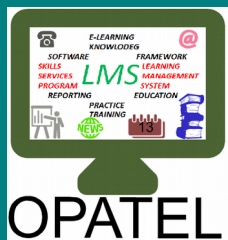
- 1) UPAT Account (Upnet ID)
- 2) Digital Certificates (Harica)
- 3) Authentication & Authorization Infrastructure (AAI)

- Electronic Secretariat (Progress)
- Academic Repository (Nemertes)
- Digital Certificates (Harica)
- Electronic Food Application (Sitisi)
- Writing Service (Eudoxus)
- Academic ID
- Quality Assurance Unit
- Network Teleconferencing (e: Presence)
- Online Save Files (Pithos +)
- Virtual Machine Service (VM)
- G Suite for Education
- Office 365 Education



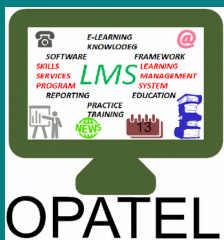
Email services

- ♦ **Email (Electronic mail)**
- ♦ **Webmail**
- ♦ **Email Lists**
- ♦ **Shared folders**



Websites

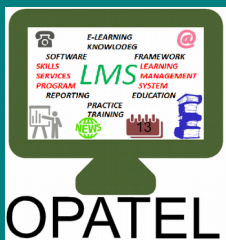
- ♦ UPAT website
- ♦ UPNET website
- ♦ Website Hosting (Web Hosting)
- ♦ Personal Blogs
- ♦ Events
- ♦ Staff update application (SIS)
- ♦ Alumni Social Network
- ♦ Phonebook (DS)
- ♦ Facebook
- ♦ Twitter



Network services

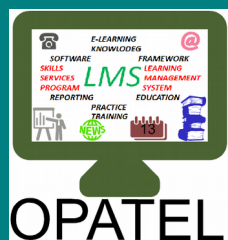
- ◆ **Connect to the Network (LAN)**
- ◆ **Wireless Network (WiFi) Eduroam**
- ◆ **Virtual Private Network (VPN)**
- ◆ **Domain name services**

- ◆ *Telephony services*
- ◆ **VOIP telephony**
- ◆ **Classic telephony**



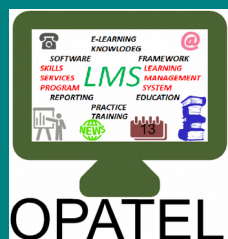
Cloud Services

- ♦ **Online Files (Pithos +)**
- ♦ **Virtual Machines (Okeanos)**
- ♦ **G Suite for Education**
- ♦ **Office 365 Education**



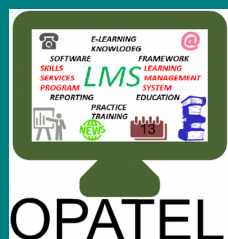
Upatras Campus Software Licenses and Repository

- ♦ **Microsoft Volume Licensing**
- ♦ **Microsoft Imagine**
- ♦ **Office 365 Education**
- ♦ **SPSS Statistics**
- ♦ **Matlab**
- ♦ **ArcGIS**
- ♦ **Autodesk Education Community**
- ♦ **Oracle Academy**
- ♦ **G Suite for Education**
- ♦ **Abaqus Student Edition**
- ♦ **ANSYS Student**



Elearning

- ◆ **Asynchronous eLearning (Eclass)**
- ◆ **Synchronous Learning**
- ◆ **Rich Media and Lecture Platform for Education**
- ◆ **Live Video Streaming**



Openeclass: A free and flexible e-learning platform which can address every educational need

COURSES

Develop and manage unlimited online courses

EXERCISES – QUIZZES

Create self-assessment quizzes and online tests

LEARNING PATH

Create a sequence of steps with independent learning objects

STATISTICS

View statistics, track learners' participation and progress, create surveys and reports

EDUCATIONAL MATERIAL

Organize, store and distribute educational resources

ASSIGNMENTS

Create, manage and grade online assignments

USER GROUPS

Manage users and form groups to support collaborative learning

ELEARNING STANDARD COMPLIANCE

Use learning objects authored in all standard course authoring tools

MULTIMEDIA

Add, organize, store and embed multimedia files

EBOOKS

Upload, manage and present eBooks in HTML format

COMMUNICATION

Choose from a variety of communication tools (teleconference, chat, forum, messages)

BACKUP FILES

Safeguard the content of the course in case of accidental deletion or corruption

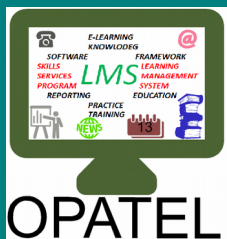


Openeclass (Administration and statistics)

The screenshot shows the Open eClass website in a browser window. The browser address bar displays www.openeclass.org/en/. The website header includes the logo and navigation links: PLATFORM, INSTALLATIONS, DOCUMENTATION, DOWNLOAD, and ABOUT. A search bar is located in the top right corner. The main content area features a carousel of screenshots with the following text overlays:

- User-friendly
- Easy to use
- Highly configurable

Below the carousel, the text reads "why open eclass" followed by "Free". A descriptive paragraph states: "It is offered by the Greek Academic Network (GUnet) as an advanced e-learning solution that can enhance the teaching and learning process." Below this is a horizontal timeline with four icons and labels: FREE, OPEN SOURCE, FLEXIBLE, and STABLE. At the bottom, a blue banner contains the text "Create your own online learning environment!" and a link to "Download Open eClass 3.5.6".



Openeeclass Admin Options

- > Admin Options
- > Basic Options
- > User Options

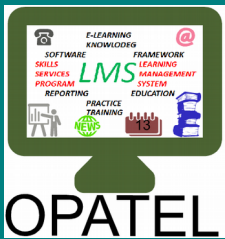
- > Users Administration
- > Course Administration
- > Server State
- > Other Tools

- ▼ Users Administration
 - ▶ User Search
 - ▶ Teacher open requests
 - ▶ Student Registration
 - ▶ User Authentication
 - ▶ User e-mail Verification
 - ▶ Login as a different user
 - ▶ User profile fields
 - ▶ Mass user account creation
 - ▶ Users registration in \$langsCourses
 - ▶ Bulk user account deletion
 - ▶ Info email
 - ▶ Administrators

- ▼ Course Administration
 - ▶ Search for courses
 - ▶ Restore Course
 - ▶ Category Hierarchy
 - ▶ Multiple course creation
 - ▶ Automatic enrollment

- ▼ Other Tools
 - ▶ Config settings
 - ▶ External Tools
 - ▶ Create FAQ
 - ▶ Theme Settings
 - ▶ Modules
 - ▶ Usage Statistics
 - ▶ Log actions
 - ▶ Admin Announcements
 - ▶ Admin's Manual

- ▼ Server State
 - ▶ Proceed with clean-up
 - ▶ System Info
 - ▶ PHP information
 - ▶ Database management (phpMyAdmin)
 - ▶ Database Upgrade



Openeclass external tools



GoogleDrive



Openmeeting



Onedrive



Dropbox

AutoJudge



Analytics



Owncloud



Opendelos



Bigbloubutton

Supports:

- ✘ Connection with existing Antivirus software
- ✘ Web Application Firewall
- ✘ 2-Step Verification



UPAT Eclass statistics

Platform Administration Tools

Usage Statistics

[Statistics of Category](#)[Monthly reports](#)[Show Old Statistics](#)[Back](#)

General statistics

Total courses	3176
- Open Courses	1372
- Registration required	1164
- Closed courses	335
- Inactive Course	305

Total users	54717
- Teachers	1061
- Students	53478
- Guest User	178

From

26-05-2017

until

26-11-2017

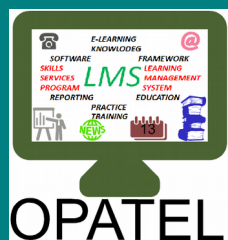
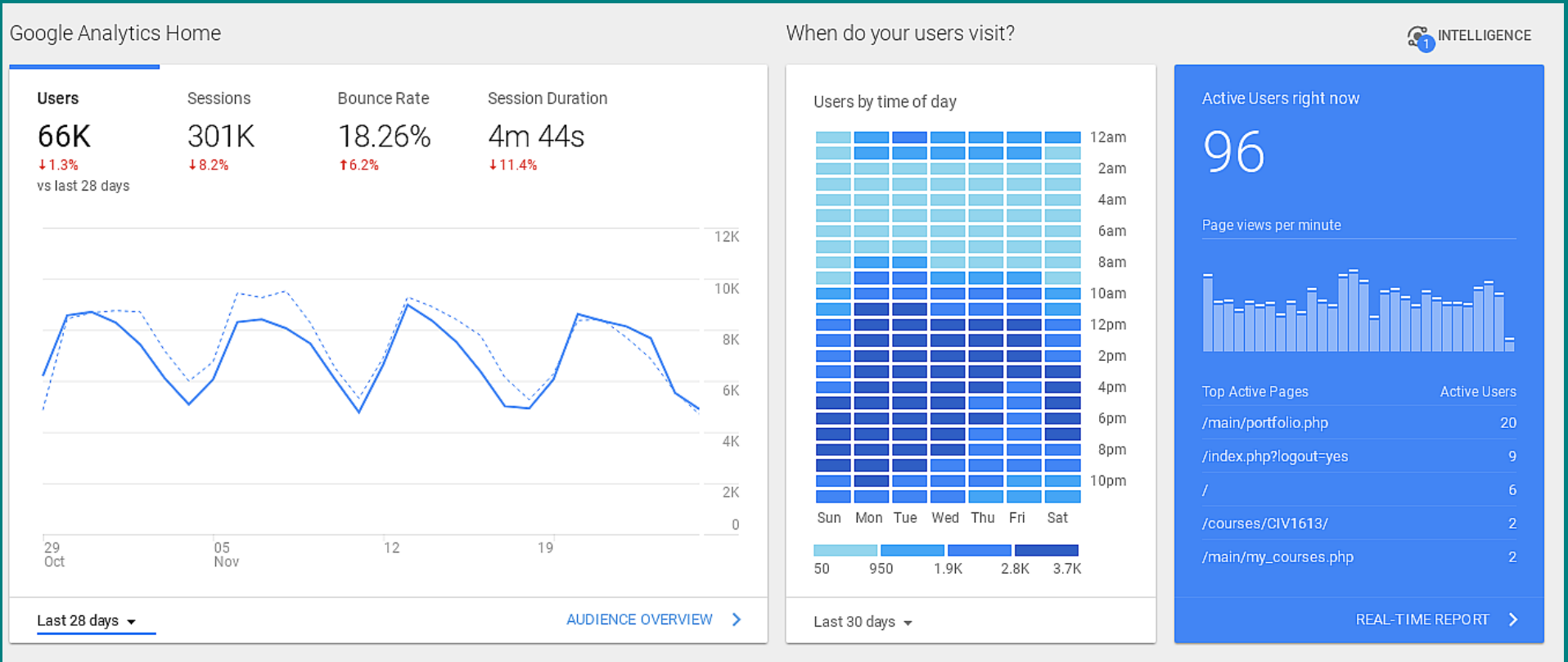
per month



Πανεπιστήμιο Πατρών



UPAT Eclass analytics



Opendelos: Educational Content Management Platform

Processing

- Video hardware
- Sync slides
- Add metadata
- Autonomous cognitive sections

Management tools

- Content
- Users and roles
- Timetable
- Institution structure

Sources of polymorphic content

- Fixed IP cameras (automatic recording)
- VIDEO CAMERAS (mobile recording)
- Recorded presentation (podcasts)

Interfacing with third-party systems

- Support OAI PMH, RSS, ATOM, iTunes, YouTube
- Open eClass platform

Play content

- Video, sound and slides, in any combination
- Customize display

Content search

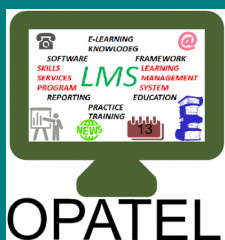
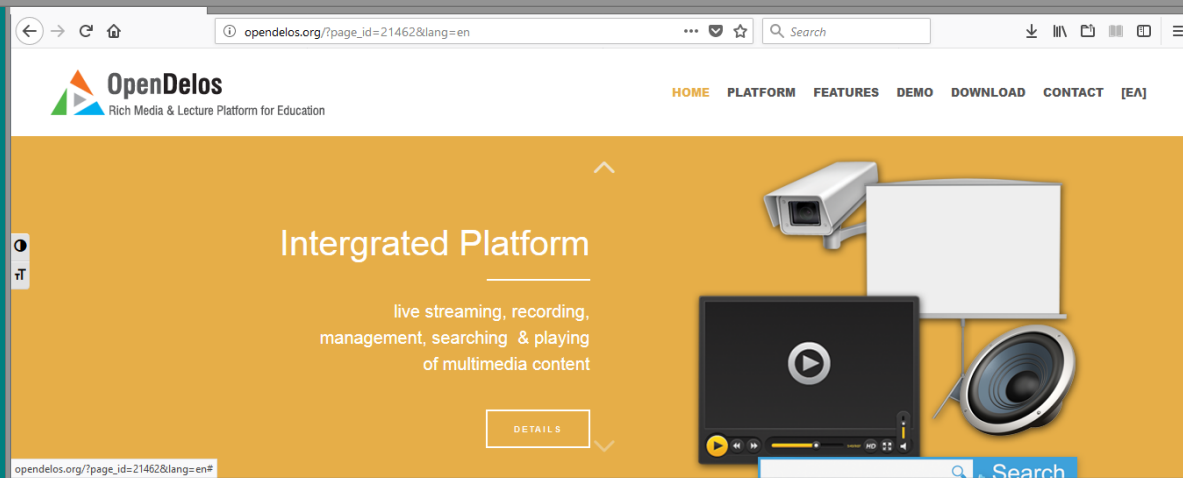
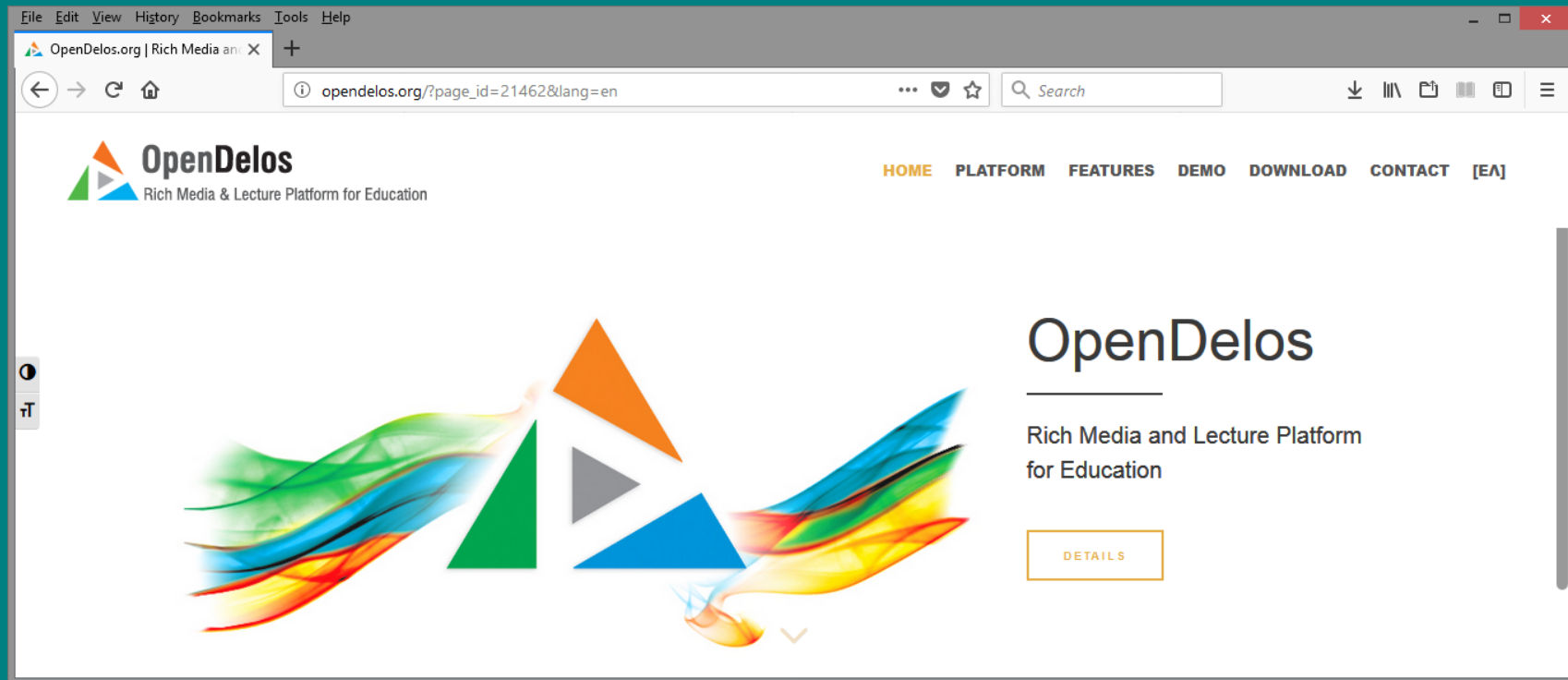
- Guided by criteria
- Free with keywords
- Dynamic distribution of results into categories of criteria

Live broadcast rom

- Teaching classes
- Event venues

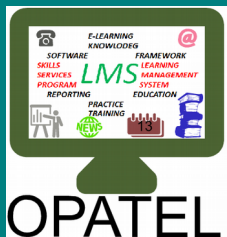


OpenDelos



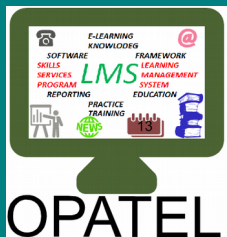
Teleconferencing

- ◆ Teleconference and videoconference rooms
- ◆ Videoconferencing via Web



Elearning supporting services and infrastructure

- Account life-cycle management
- Helpdesk
- Teleconference rooms
- Live streaming
- Video on demand



Account life-cycle management

Applications

- New
- Approve
- Submit for creation

Authoritative actions

- Creation
- Execution (special request)

Accounts

- Management
- Deliver
- Information
- Lock

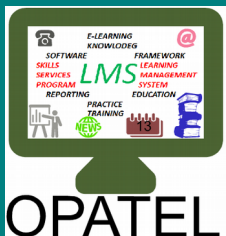
• Procedures

- Mass Creation
- Mass Update
- Disable Accounts

• Human resources

- Creation
- Search / Update
- Update Inactive
- Reports
- Charts

<https://mussa.upnet.gr/user>



Helpdesk

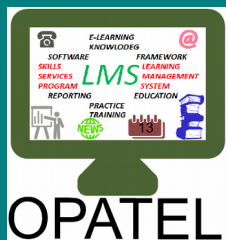
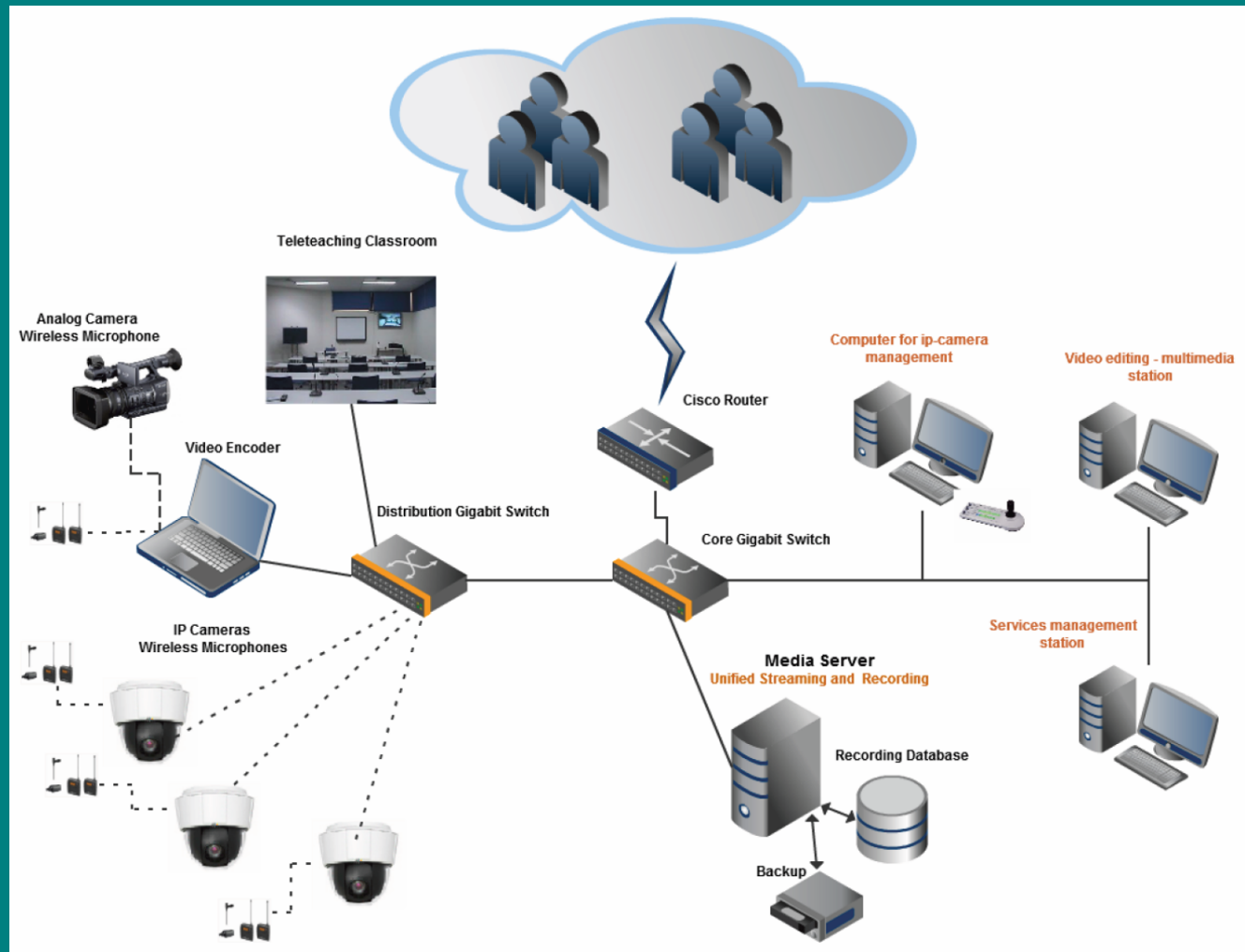
The Office is responsible for technically supporting users to problems caused by the data network infrastructures and the telematics services offered by NOC centrally throughout the University. In any case, users are required to contact first the responsible Technical Officer of the Subordinate Department.

The Technical Officers of Departments and the Users, only at the suggestion of their Technical Officer, may contact the Helpdesk in the following ways:

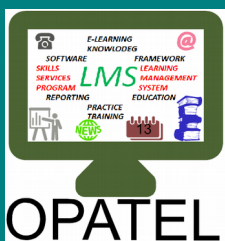
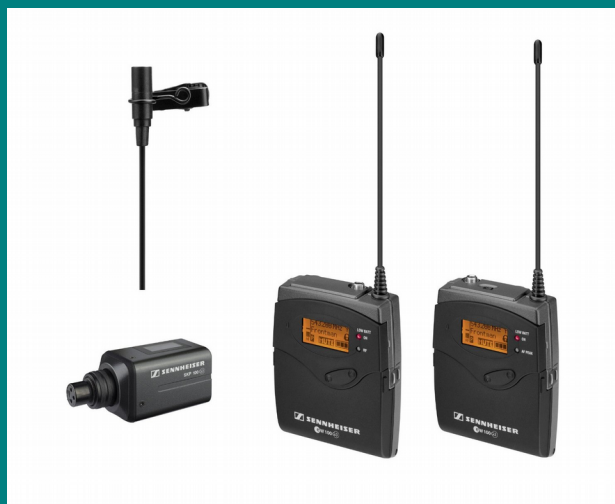
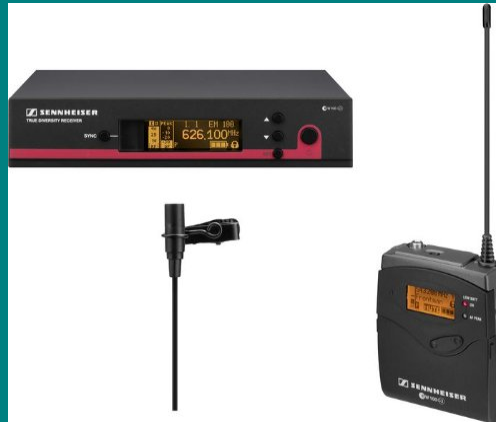
- 1) Sending an e-mail to helpdesk@, indicating the problem they are experiencing
- 2) Contacting Helpdesk daily, 09: 00-14: 00 on 962600 & 969651.
- 3) Fill in the UPnet contact form



Live video streaming infrastructure



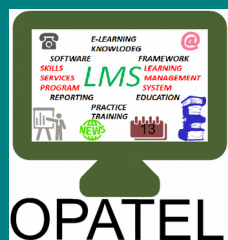
Cameras and microphones for video lectures



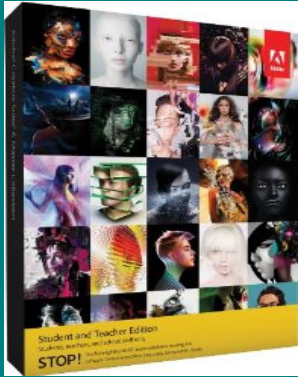
IP Cameras for automatic video streaming from classes

AXIS P1347
Network Camera

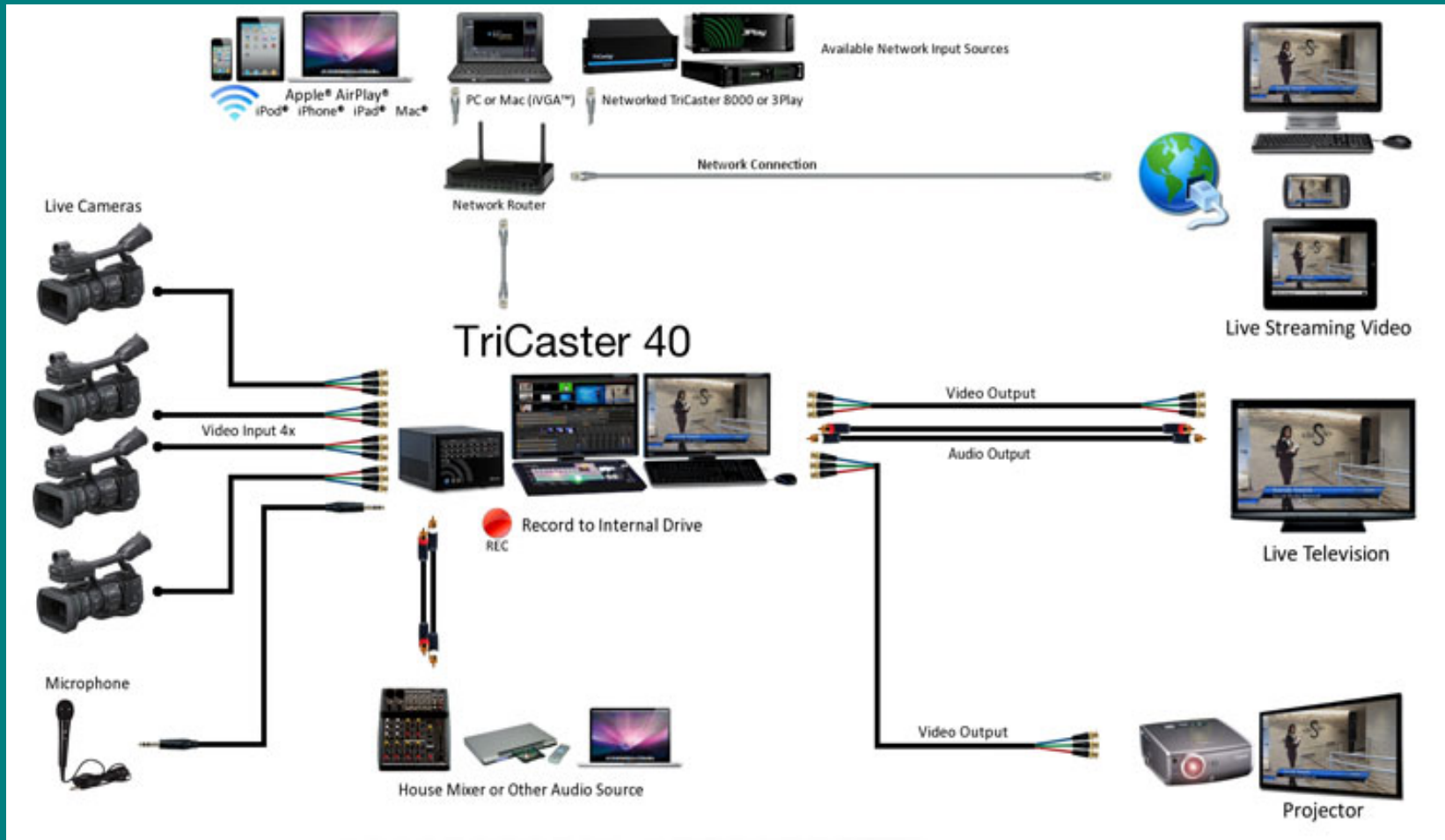
Exceptional surveillance
with 5-megapixel camera



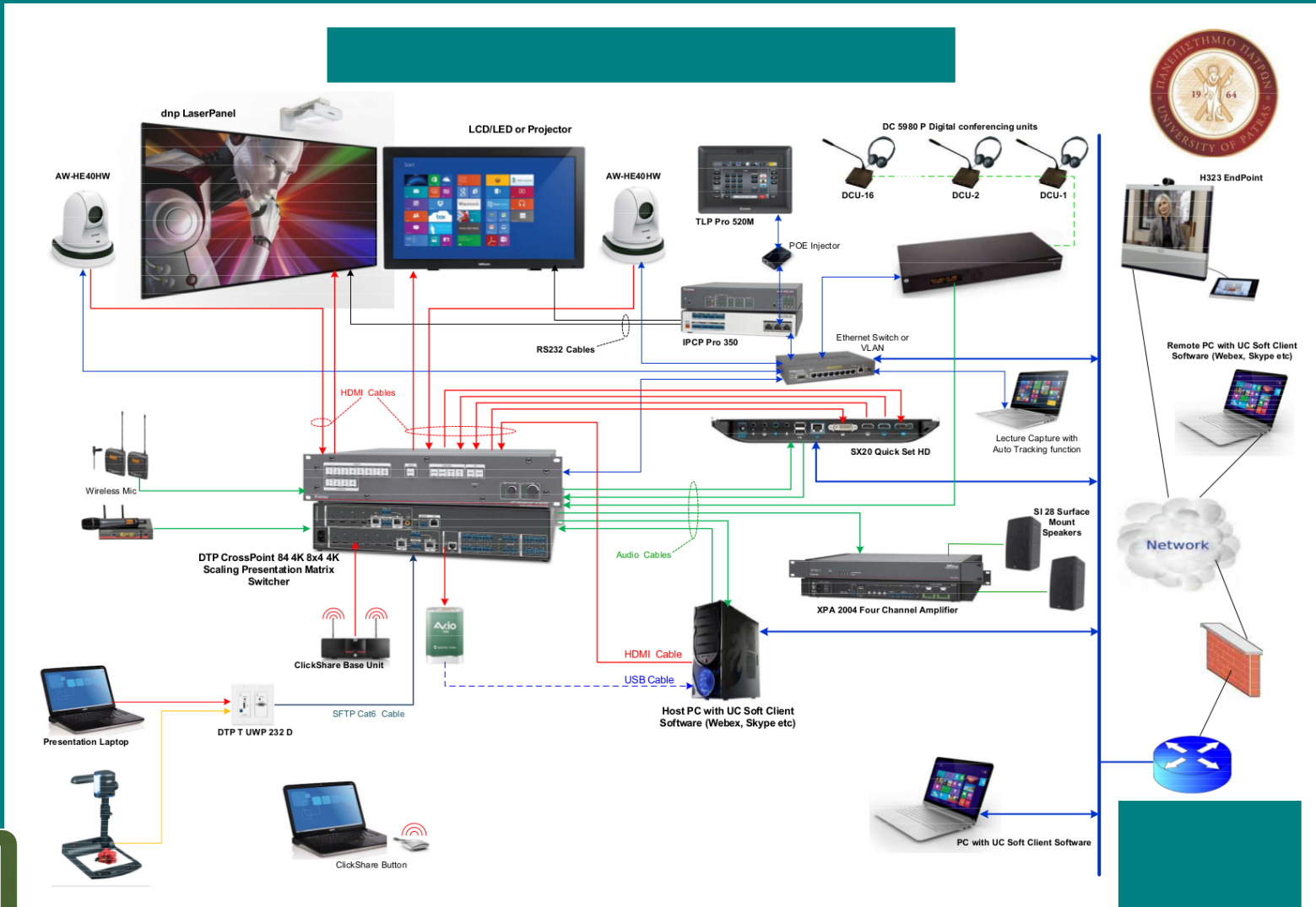
Video software for editing and streaming



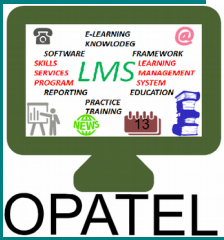
Studio with Tricaster



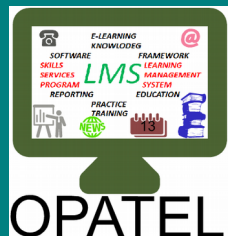
Main teleconference room



UNIVERSITY OF
PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ



THANK YOU FOR YOUR ATTENTION



Mr. George Lekatsas and Mrs. Sofia Kasola

