

The years 2017-2023

Maria Dimou initiated and completed several projects with focus on Education. She:

- chaired the CERN Academic Training Committee (ATC). From the beginning of her ATC membership, she sponsored or proposed more than 50 lecture series. Site (React and Django technology) is <https://academictraining.cern.ch> (<https://academictraining.cern.ch>)
- sponsored “Terra Incognita” talks, to cultivate cross-group collaboration. Index until 2021 <https://indico.cern.ch/category/11108/> (<https://indico.cern.ch/category/11108/>) and earlier index <https://indico.cern.ch/category/2254/> (<https://indico.cern.ch/category/2254/>)
- initiated the IT e-learning project, which produced 57 videos in the CERN Document Server (CDS) [https://cds.cern.ch/collection/E-learning modules](https://cds.cern.ch/collection/E-learning%20modules) (<https://cds.cern.ch/collection/E-learning%20modules>)
- Sponsored several Usability studies, all results indexed in <https://indico.cern.ch/category/7442/> (<https://indico.cern.ch/category/7442/>), together with other (137 in total) related events, presentations, tests, rehearsals, recordings.
- Co-chaired the Documentation Project, in the framework of MAlt (Microsoft Alternatives), which achieved the acceptance of Markdown for writing IT services’ documentation and the adoption of URL format *service.docs.cern.ch*.
- Actively participated and co-edited the CERN IT Education Strategy document, not pursued by the management for completion.
- Invested 2 years of intense effort with documents, presentations, tests and Proof-of-Concept projects, to support and engage CERN in Sir Tim Berners-Lee Solid. All info on this effort can be found in <http://solid.cern.ch> (<http://solid.cern.ch>). CERN didn’t pursue this project.
- Evaluated automatic transcription tools and documented the selection process.
- Actively participated in the CERN Women In Technology (WIT) activities, including interviewing Tanya Levshina - computer scientist from Fermilab, Noor Afshan Fathima - IT accessibility expert, Dana Moshkovitz Aaronson - theoretical computer scientist, and Mookie Menuhin - pianist and neuroscientist. These interviews are indexed in <https://indico.cern.ch/category/8115/> (<https://indico.cern.ch/category/8115/>)
- Defined Key Performance Indicators for measurement of the team’s achievements in numbers of Talks, Presentations, Web pages/sites and other learning activities. The document <https://codimd.web.cern.ch/u25k6j-mTQSLPKOuxwhPlw#> (<https://codimd.web.cern.ch/u25k6j-mTQSLPKOuxwhPlw#>) is public and the figures are private in gitlab.cern.ch (<http://gitlab.cern.ch>).

These projects, and several others, were possible, largely thanks to the enthusiasm and professionalism of a few BSc and MSc Computer Science students, most of whom worked free-of-charge or for the “symbolic” internship fee. Their names are not disclosed here, for privacy reasons but they can be seen on the Indico events listed above.

Maria Dimou wrote about 160 CodiMD notes, multiple userguides in Markdown, about 450 twiki pages, chaired and presented in hundreds of events during this period. She created several web sites, all with Open Source technologies. She also has a great amount of web pages, written in HTML and stored in Afs.

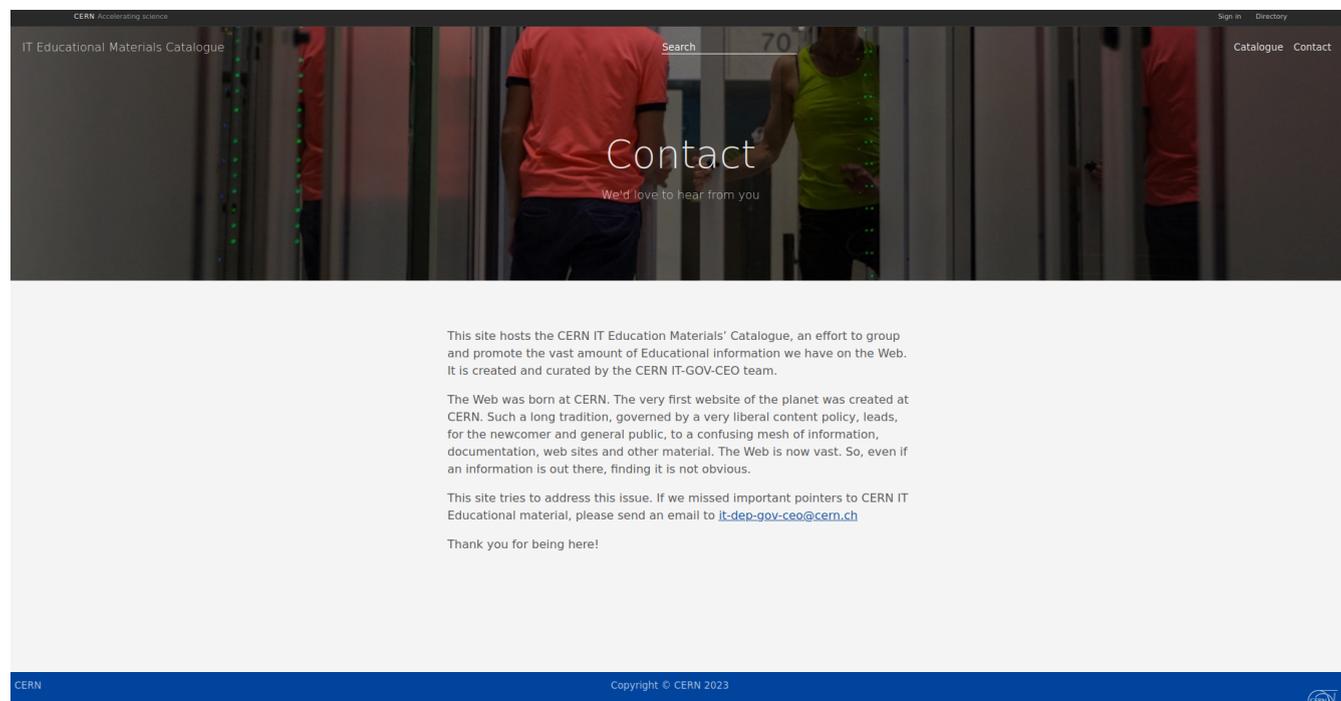
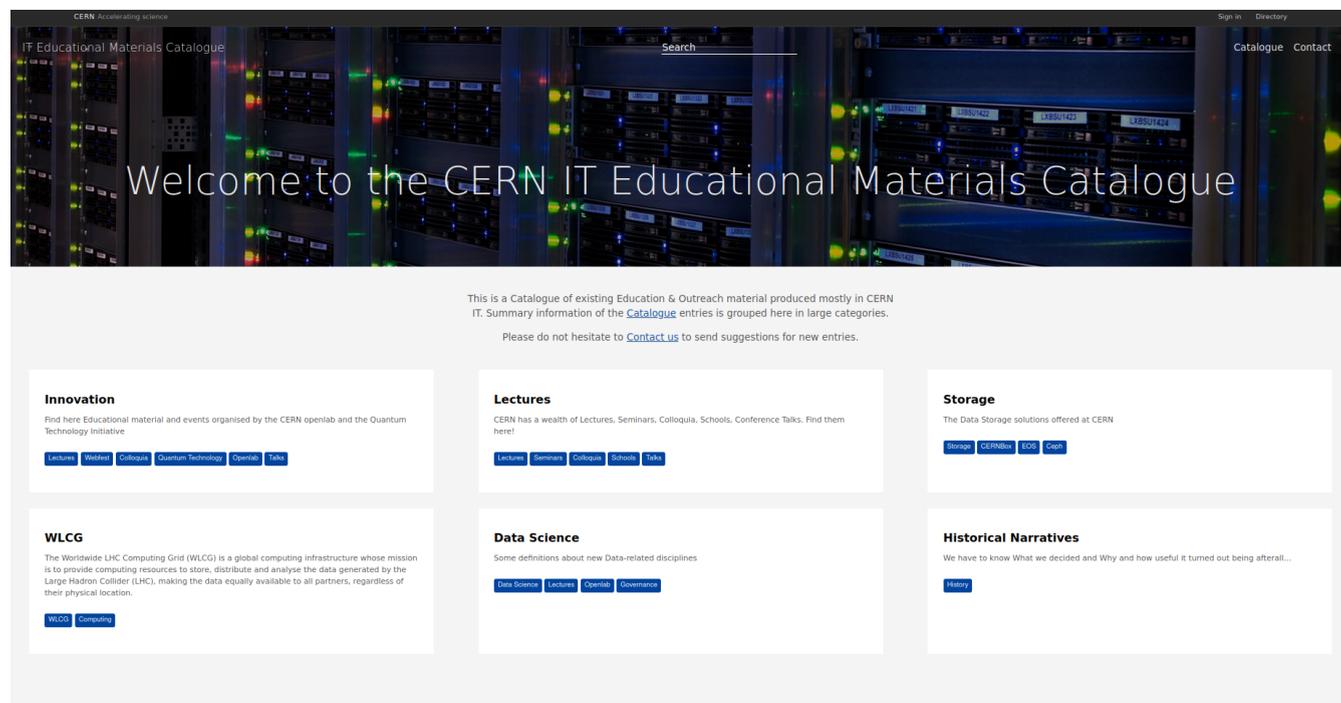
Most of the above is going to be erased by the current CERN IT policies, it is doubtful that Jekyll, Hugo, Drupal, Afs web sites will survive to still prove this work.

This is why, in no particular order, a very small subset of screenshots show the look and feel of those sites.

The Educational Materials Catalogue

Site <https://cern.ch/it-edu> (<https://cern.ch/it-edu>)

This site was born in the period 02-06/2023 to hold CERN IT info of Educational nature. Dozens of pages were written by Audrey Martelly (intern) and Maria Dimou (supervisor). Here are some example screenshots in case the site is closed:



CERN Accelerating science
Sign in Directory

IT Educational Materials Catalogue
Search
Catalogue Contact

Catalogue

21 Records

- All
- Ceph
- CERNBox
- CERNphone
- Collaboration
- Communication
- Computing
- E-learning
- EOS
- History
- IT Dept
- Lectures
- Mobile
- News
- Openlab
- Outreach
- Quantum Technology

Ceph

Ceph is a highly reliable object, block and file storage system used at CERN.

[Ceph](#) [Storage](#)

CERNBox

CERNBox is a CERN-developed open source storage solution providing safe data storage to all CERN users.

[Storage](#) [CERNBox](#) [E-learning](#)

CERNBox Service Guide

This Service Guide is for CERN users. It contains instructions, short documentation, key figures ... it guides to the full documentation.

[Service Guide](#) [CERNBox](#) [Storage](#)

CERNphone

CERNphone is a softphone solution provided by the IT department

- All
- Ceph
- CERNBox
- CERNphone
- Collaboration
- Communication
- Computing
- E-learning
- EOS
- History
- IT Dept
- Lectures
- Mobile
- News
- Openlab
- Outreach
- Quantum Technology
- Seminars
- Service Guide
- Storage
- Talks
- Tools
- Topical Briefing
- WLCG

CERNphone

CERNphone is a softphone solution provided by the IT department

[CERNphone](#) [Mobile](#)

Collaborative Services

Here you will find an incomplete list of services and tools you can use to collaborate, get help and find answers to your questions.

[Tools](#) [News](#) [Communication](#) [Collaboration](#)

Computing for High Energy Physics (CHEP) conferences

Every year the International Conference on Computing in High Energy and Nuclear Physics address the computing, networking and software issues for the world's leading data-intensive science experiments that currently analyze tons of data using worldwide computing resources.

[Talks](#) [Computing](#)

Computing History

A non-exhaustive list of links to documents about past mainframes, supercomputers, various computer platforms used at CERN

[History](#)

Data Science Seminars

This seminar series is an opportunity to get in contact with people from HEP as well as from other science domains and industry, developing new data science solutions

[Seminars](#) [Computing](#)

EOS

EOS is an open-source storage software solution to manage large amounts of data storage for the CERN Large Hadron Collider LHC

[Storage](#) [EOS](#)

- All
- Ceph
- CERNBox
- CERNphone
- Collaboration
- Communication
- Computing
- E-learning
- EOS
- History
- IT Dept
- Lectures
- Mobile
- News
- Openlab
- Outreach
- Quantum Technology
- Seminars
- Service Guide
- Storage
- Talks
- Tools
- Topical Briefing
- WLCG

Events by the Alumni Network

The CERN Alumni Network keeps those who have left CERN in touch with the organisation and with each other.

[News](#) [Communication](#)

High Energy Physics UNIX community meetings (HEPIX)

The High Energy Physics UNIX (HEPIX) community reunites every 6 months to foster a learning and sharing experience between sites facing scientific computing and data challenges.

[Computing](#)

IT Activities and Services Discussion Forum

The IT Activities and Services Discussion Forum is the ideal place to bounce ideas off people, exchange, get feedback and discover the potential of your activity or project.

[Talks](#) [IT Dept](#)

IT Department website

The CERN IT department website contains services, security advice, projects and more.

[IT Dept](#) [Computing](#)

IT Lightning Talks

Do you have an exciting new idea that you want to share? Find all the information you need for the IT Lightning talks here!

[Talks](#) [IT Dept](#)

IT Technical Forum

The IT Technical Forum (ITTF) is to improve the communication within the IT department about technical questions.

[Talks](#) [IT Dept](#)

- All
- Ceph
- CERNBox
- CERNphone
- Collaboration
- Communication
- Computing
- E-learning
- EOS
- History
- IT Dept
- Lectures
- Mobile
- News
- Openlab
- Outreach
- Quantum Technology
- Seminars
- Service Guide
- Storage
- Talks
- Tools
- Topical Briefing
- WLCG

Learning Management System

CERN provides a wide range of learning and development opportunities for personnel. These cover everything from the everyday essentials of safety and computer security, through leadership and communication training, to technical skills required in a laboratory.

[E-learning](#)

Lectures & Seminars

CERN Lectures, Seminars, Colloquia, Schools, Conference Talks cover physics and technology research results, as well as leading-edge news from other disciplines.

[Lectures](#) [Seminars](#) [Talks](#)

Openlab

A partnership between CERN and industry

[Openlab](#)

Outreach

Practical information for guides to prepare for their next visit

[Outreach](#)

Quantum Technology Initiative

Links related to the Quantum Technology Initiative

[Quantum Technology](#)

Topical Briefing for WLCG

This Topical Briefing includes key messages and answers to the top questions that our guides receive from the public on technology choices, e.g. why do we store data on disk, tape, cloud...?

[WLCG](#) [Computing](#) [Topical Briefing](#)

Catalogue page examples

CERN Accelerating science

IT Educational Materials Catalogue

Search

Catalogue Contact

CERNBox

CATALOGUE

CERNBox

[Storage](#) [CERNBox](#) [E-learning](#)

CERNBox is a CERN-developed open source solution, providing safe EU-based cloud data storage to all CERN users. You can store your data, share it and synchronise it across devices - smartphones, tablets, laptops, desktops, the lot! The data can be accessed from any Web browser or file explorer, and you decide which data you want to share with other individuals or groups of collaborators. Installation instructions, user guides and FAQs are well explained and maintained in the [documentation](#).

E-learning modules

Visit the following e-learning links to watch three very short and clear videos on:

- [How to install the CERNBox client application](#)
- [How to share files or folders on CERNBox](#)
- [How to sync a shared folder](#)

Useful Links

- [User forum](#)
- [Papers](#)

E-learning modules

Useful Links

Something missing here?

CERN Accelerating science

IT Educational Materials Catalogue

Search

Catalogue Contact

CERNBox Service Guide

CATALOGUE

CERNBox Service Guide

[Service Guide](#) [CERNBox](#) [Storage](#)

CERNBox is a CERN-developed open source solution, providing safe EU-based cloud data storage to all CERN users. You can store your data, share it and synchronise it across devices - smartphones, tablets, laptops, desktops, the lot! The data can be accessed from any Web browser or file explorer, and you decide which data you want to share with other individuals or groups of collaborators. The cloud solution used is owncloud. CERN users can activate/access their CERNBox space by logging into <https://cernbox.cern.ch/>

Key figures

- 2014: CERNBox, as a project initiative is launched by the CERN IT Storage Group to address the necessity of offering an easy and convenient way to access and share the physics data.
- 1 TeraByte (TB) of storage available to each CERN user. One TB corresponds to 500 hours of HD video.
- 2019-2022: All CERN users' data migration from DFS to CERNBox.
- 2016-2022: The number of users increases by 10 (4K users in 2016 vs 40K users in 2022).
- The figures in the appended image are valid until July 2023.

CERNBox

Universal file access
Sharing and collaboration

General Purpose User and Project Storage CERNBox-EDS

2023 Nov 2024 Dec 2024 18 PB stored

27k user accounts 20k datasets 107 projects

Office Documents Workflows

Monthly Active Users (MAU)

Computing clusters (Linux)



Computing History

CATALOGUE

Computing History

History

The Challenge

To record what happened in the past, one has to see the value of data, documents' and devices' preservation. To display what happened in the past, one needs persistent URLs (Uniform Resource Identifiers). To find the information available, one needs good-quality metadata. All this looks like *documentation*, something hard to find the time to create and curate. This is why all the appended text and links are just an incomplete list.

CERN Computing History

Existing collection of [documents on the IT website](#)

Network Protocols

- 2022 CERN Academic Training on Distributed Computing - [The Protocol Wars](#) - [Abstract](#), [slides](#), [video](#) and [related material](#)

Email at CERN

2022 CERN Academic Training on Distributed Computing - The era of EARN/BITNET, DECnet, X.400 and more - [Abstract](#), [slides](#), [video](#) - and [List of documents on the network options](#) and [List of documents on the Email gateway architecture](#)

Web at CERN

Web at CERN

2022 CERN Academic Training on Distributed Computing - [The first years of the Web and all anniversaries](#)

The history of the Shift and Grid projects

- The dedicated site on [WLCG History](#)
- The [Grid software "museum"](#)
- 2022 CERN Academic Training on Distributed Computing - [Abstract](#), [slides](#), [video](#) and [related material](#)

Distributed filesystems

A historical series on the Andrew File System (AFS) by its elders - [Abstract](#), [slides](#), [video](#)

Computer architectures

In the 1980ies CERN IT (then called Data and Documents (DD) Division) was offering the experiments computing services on the CDC and IBM MVS Operating System. IBM VM CERNVM) was also here before the end of that decade, essentially offering an interactive counterpart to MVS. The arrival of the Cray in 1988 meant taking research both into the Supercomputers' League and into Unix through Cray's variant (UNICOS). The experiments were invited to evaluate it and some did, e.g. UA1. Porting the software to run on the Cray was a challenging task because it had been developed and thoroughly tested only on 32-bit IBMs, the Cray X-MP was the first 64-bit one.

For the Large Electron Positron (LEP) start-up in the autumn of 1989, experiments required VMS. For central computing CERN DD Division used the IBM collaboration that had started in 1976. In 1989 the DD division leader, purchased a big IBM machine with 6 CPUs. This computer required a "Big Bang" solution (HW AND SW changed simultaneously). Mainframes were the standard. The biggest machines could provide VM/XA (extended architecture) making 32-bit computing the norm. Expected to suffice for the requirements of the address space. There was some animosity between VM and VMS users. IBM tape store and IBM robot solved the problem. The choice was obvious. DECnet was used across labs. VAX/VMS had to be kept for this reason. APL, PL1, REXX were the IBM programming languages used. At the time research and academia were producing software solutions, e.g. the Fortran Compiler was written by Waterloo University, Ontario, Canada. CERN also bought an IBM compatible Fujitsu-Siemens mainframe, in order to also have a European computer. CDC 7600 (Control Data Corporation) operated here for 12 years. 1972-1984. Batch only. Fortran with Geant3. In 1993 a performance optimisation of RISC workstations project took place in the SHIFT project. A CHEP 1995 presentation by S.Jarp demonstrated that PCs could do better than RISC. At the time price/performance was best for HPPCs with Windows (which supported 2 processors) rather than Linux (only 1 processor), until Linux came along with support for 2 processors and better performance. The Linux choice then became obvious.

Great fun

A Digital Memory [video in CDS](#) , with images from the life of the laboratory in past years and Internet father Vint Cerf lecturing on how to safely preserve data.

A unifying idea

... would be to use what we learnt from experience in the Data Preservation, the Digital Memory and our Open Source expertise to organise our historical information and repositories and documents with the FAIR principles in mind.

FAIR Principles

- Findable
- Accessible
- Interoperable
- Reusable

Wilkinson, M., et al. The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data* 3, 160018 (2016). <https://doi.org/10.1038/sdata.2016.18>

The Turing Way project illustration by Sorbana. Used under a CC-BY 4.0 licence. DOI: [10.5281/zenodo.3332827](https://doi.org/10.5281/zenodo.3332827)

Credits

Material from this page taken from documents by M.Dimou, F.Hemmer, S.Jarp, J.-Y.LeMeur, M.Marquina, L.Robertson, B.Segal and many more.

Surely plenty of stuff missing here...

Please use the [Contact](#) link to send us suggestions for new entries.

The Challenge

CERN Computing History

Network Protocols

Email at CERN

Web at CERN

The history of the Shift and Grid projects

Distributed filesystems

Computer architectures

Great fun

A unifying idea

Credits

Surely plenty of stuff missing here...

The Challenge

CERN Computing History

Network Protocols

Email at CERN

Web at CERN

The history of the Shift and Grid projects

Distributed filesystems

Computer architectures

Great fun

A unifying idea

Credits

Surely plenty of stuff missing here...



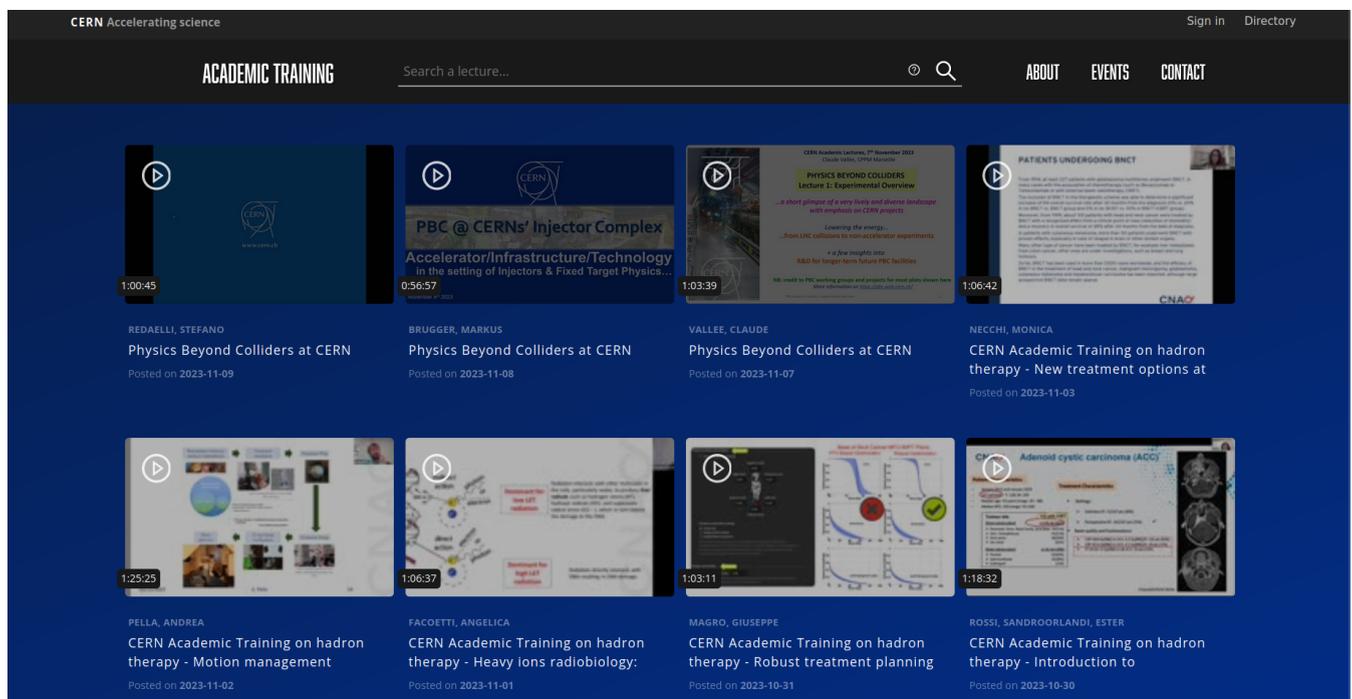
Academic Training

End product <https://academictraining.cern.ch/> (<https://academictraining.cern.ch/>)

Progress reports <https://indico.cern.ch/event/1136720/> (<https://indico.cern.ch/event/1136720/>)

Multiple presentations to stake holders are in restricted-access Indico category “Academic Training Committee”.

Some screenshots:



CERN Accelerating science Sign in Directory

ACADEMIC TRAINING Search a lecture... 🔍 ABOUT EVENTS CONTACT

ACADEMIC TRAINING COMMITTEE

The CERN Academic Training lectures cover physics and technology research results, as well as leading-edge news from other disciplines. Past lectures often present a great historical value. The lectures are open to all members of CERN personnel (staff, fellows, associates, students, users, project associates and apprentices) free of charge. Each lecture is recorded and published on the web along with the visual support material. The complete catalogue of the Academic Training Programme lectures is archived since 1968.

MEMBERS



TH

Urs WIEDEMANN
Chair



IT

Maria DIMOU
Advisor



DG

Marika FLYGAR
Administrative Assistant

DEPARTMENTS



EP

André DAVID
Chair High Energy Physics Working Group



BE

Massimo GIOVANNNOZZI
Chair Applied Physics Working Group



IT

Giacomo Tenaglia



EN

Anne Laure PERROT



TE

Valeria PEREZ REALE



SY

Antonio PERILLO-MARCONE

OBSERVERS



HR

Maria FIASCARIS
Learning & Development



EP

Martijn Mulders
CERN School of Physics



IT

Alberto PACE
CERN School of Computing



BE

Frank TECKER
CERN Accelerator School

> CERN

GENERAL INFO

- > Privacy policy
- > Copyright and terms of use

ACADEMIC TRAINING COMMITTEE

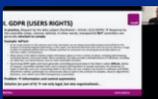
- > About
- > CERN Document Server
- > Events



CERN Accelerating science Sign in Directory

ACADEMIC TRAINING data protection 🔍 ABOUT EVENTS CONTACT

17 SEARCH RESULTS: "DATA PROTECTION" MOST RELEVANT ▾



NOWAK, ANDRZEJ
1st series on Data Protection - Battling robots for our data, privacy and humanity - Lecture 1
2022-11-30

NOWAK, ANDRZEJ
1st series on Data Protection - Battling robots for our data, privacy and humanity - Lecture 2
2022-12-01

DEDECKER, RUBEN
2nd Series on Data Protection - Control your data on the Web: An introduction to Solid and Linked Data
2023-03-13

ROSSETTI, STEFANO
REMOTE - 3rd Series on Data Protection - Online tracking - problems and legal remedies
2023-05-10

User-stories' based service site

Site: <https://cern.ch/it-dep-cda> (<https://cern.ch/it-dep-cda>)

Home
Our Mandate
Our domains & People
Our Services
Our Projects
Our Blog
Internals
Search
Contact



CERN IT
Collaboration, Devices and Applications

Our services clustered according to your needs

 **All about Accounts, Resources and authorisations**
Create and manage computer accounts, passwords, certificates. Manage subscriptions and access to resources, applications and services

 **Developing Software**
How to develop software using central repositories, tools, applications, bug tracking and online collaboration

 **Discussing, exchanging with people**

 **Planning Meetings and Conferences**
Organize, plan or attend a conference or a meeting, and setup the appropriate tools such as video conference

 **Editing and Storing Documents**
Work collaboratively, archive, store, team work on documents

 **Publishing Information, Web hosting**
Publish web contents, print, broadcast and search information

 **Purchasing a computing device, installing and running applications**
Acquire a desktop or laptop, install an operating system, deploy applications, run applications remotely

 **Engineering Software**
Obtain and run engineering related software, such as electronics design, mathematical design

[↑](#)

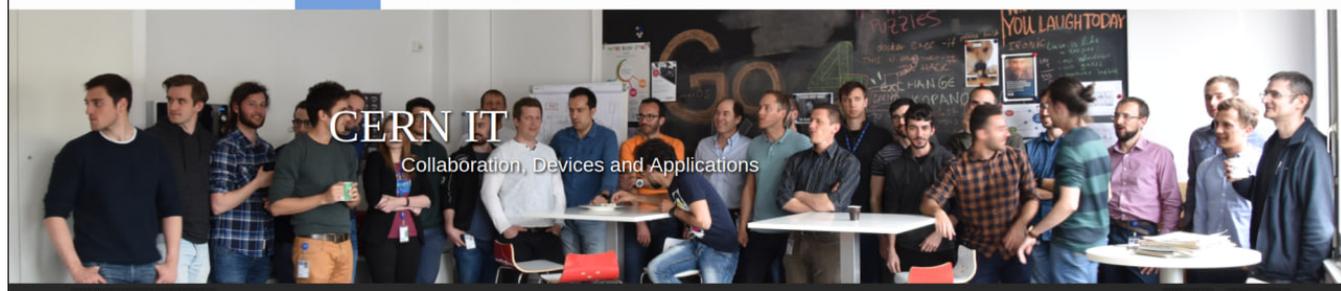
ABOUT IT CDA
The group Collaboration, Devices and Applications (CDA) provides information services such as video conferencing, webcast & recording, event schedule tools, the CERN Document Server (CDS), docu-

SECTIONS
Applications & Devices
Digital Repositories
Integrated Collaboration

GET HELP
Service Portal
Service Status Board
Service Desk

Service catalogue

Home Our Mandate Our domains & People **Our Services** Our Projects Our Blog Internals Search Contact



CERN Accelerating science Sign in Directory

This website is no longer maintained. Its content may be obsolete. Please visit <http://home.cern/> for current CERN information.

Search for services

Deselect all

software development
 repositories
 collaboration
 web
 printing

services
 licenses
 security
 archive
 publishing
 security

Android	licenses
Anti-virus	security
Apple contract support	licenses
Application Provisioning	licenses
DFS Service	archive
Electronics Design Software Service	licenses
HPC Engineering Applications	software development
Hardware repair	licenses
iOS Service	licenses
MAC Desktop Service	licenses licenses
Mathematics Software Service	licenses licenses
Mechanical Design Software Service	licenses licenses
Onsite Information Display Service	licenses
PC Procurement	licenses
Printing Devices' Support	printing
Printshop Operation	printing
Public PC Service	licenses
Windows Desktop Service	licenses licenses
Windows HPC	licenses
Windows Installation & CMF Service	licenses
Windows HPC	licenses
Windows Installation & CMF Service	licenses
Windows License Server	licenses licenses
Windows Server Infrastructure	licenses licenses
Windows Terminal Servers	licenses
CERN Document Server	archive publishing repositories
CERN Analysis Preservation	software development repositories
CERN Open Data	software development publishing repositories
Digital Memory Project	archive repositories
Invenio	archive publishing repositories
REANA	software development
Zenodo	publishing repositories
Account Management Service	security collaboration
Certification Authority Service	security collaboration
CodiMD Service	software development collaboration
Conference Rooms Service	collaboration
The CERN IT e-learning Service	publishing collaboration

Electronic Document Conversion	collaboration
FAX Service	collaboration
Indico	web collaboration
Mail Service	collaboration
Mattermost	collaboration
Skype for Business	collaboration
Single Sign-On Service	security collaboration
Video Conferencing Service	collaboration
Webcast & Recording Service	collaboration
AFS Web Hosting	publishing web
CERN Facebook Workplace pilot	collaboration web
Discourse Service	collaboration content web
Drupal Service	publishing content web
EOS Web Hosting Service	web
Git Service	content repositories collaboration software development
IIS Web Hosting	web
Jenkins	software development
Jira Service	software development
PaaS Web Hosting Service	web
E-Publishing Service	collaboration publishing web
Search Service	web
Sharepoint Service	publishing content web
Social portal Service	collaboration content web
Software Component repository	repositories software development
Twiki Service	publishing content web
Web Service	web

^

ABOUT IT CDA
The group Collaboration, Devices and Applications (CDA) provides information services such as video conferencing, webcast & recording, event schedule tools, the CERN Document Server (CDS), document conversion, printing, e-mail, IP telephony, the Invenio Digital Library Framework, Windows environment tools, web services, authentication and authorisation services, recommendations for e-learning video tools and more. Most of these services are pro-

SECTIONS
Applications & Devices
Digital Repositories
Integrated Collaboration
Web Frameworks

GET HELP
Service Portal
Service Status Board
Service Desk

Example of service page

With service summary and contact and individual service-related image.

Home Our Mandate Our domains & People Our Services Our Projects Our Blog Internals Search Contact



CERN IT

Collaboration, Devices and Applications

Home / Services / The CERN IT E-Learning Service

Important links

- [Entry Point](#)
- [Service Status](#)
- [Service Portal Articles](#)
- [Report an Incident](#)
- [Submit a Request](#)
- [Community Discussion](#)

The CERN IT e-learning Service

The CERN IT e-learning *lightweight* service provides advice on how to make a short video to inform your users about your services' cool features and news. For viewers to stay to the end, the videos should, ideally, not exceed 5 minutes. The videos can be recorded by the CERN audiovisual services and/or screen capture tools at the desk.

CERN [safety, management and language](#) in the training catalogue courses also contain e-learning components. These are outside the scope of this service.

Documentation links

- [Detailed documentation](#)
- [All the video tutorials clustered by domain.](#)
- [The same \(and more\) video tutorials in CDS](#)

IT e-learning

https://it-e-learning.docs.cern.ch



IT e-learning tools' Documentation



Search



it-e-learning/it-e-learning

IT e-learning tools' Documentation

[Introduction](#)

[AVEditor User Guide](#)

[IT e-learning](#)

[User Guide](#)

[FAQ](#)

[Teaching Remotely](#)

[Administration](#)

CERN IT e-learning tools' Documentation



Table of contents

Welcome to our new documentation site!

Here you'll find

Welcome to our new documentation site!

Here you'll find

- User facing documentation (see the Userguide section) and selected FAQs.
- Our Discussion forum in [discourse](#).
- Documentation for service Administration (restricted)
- [A view of the Video Library sorted by theme](#)
- [The same videos in a dedicated CDS collection](#)

... and instructions on how to make such very short videos for your own service.

Be prepared: A 5' video takes about 15 hours of preparation (script and rehearsals). On the other hand, visual stimuli are most dominant in our days.

VideoLibrary

Site: <https://twiki.cern.ch/Edutech/VideoLibrary> (<https://twiki.cern.ch/Edutech/VideoLibrary>)

← → ↻ <https://twiki.cern.ch/Edutech/VideoLibrary>



elearning

🔒 Log In
🏠 Edutech

🏠 Edutech Web
💡 Create New Topic
📄 Index
🔍 Search
🔄 Changes
📧 Notifications
📊 Statistics
🔧 Preferences

🗺 Site Map

TWiki > Edutech Web > VideoLibrary (2017-11-02, PeterJones)

Video Library

VideoLibrary

- [AboutGoodVideoMaking](#)
- [AboutSubtitlesEntry](#)
- [ActivePresenter](#)
- [AliceMasterClasses](#)
- [AsciinemaInstructions](#)
- [CERNBox](#)
 - [CERNBoxClientInstall](#)
 - [CERNBoxShareAndAuthShare](#)
 - [CERNBoxSyncAShare](#)
- [CMSGlimosInstructions](#)
- [CMSVirtualVisitsInstructions](#)
- [CernConfigInfrastructure](#)
- [CernDocumentServer](#)
 - [CdsFunctions](#)
 - [CdsIntroduction](#)
 - [CdsSearchVideo](#)
 - [CdsSubmitDocument](#)
 - [CdsUploadVideo](#)
- [EOSforBeginners](#)
- [FFmpegDocAndDemo](#)
- [GitAndDocTools](#)
- [IndicoFunctions](#)
 - [IndicoConference](#)
 - [IndicoConferenceAbstractReview](#)
 - [IndicoConferenceCustomisation](#)
 - [IndicoConferenceEditing](#)
 - [IndicoConferencePaperPeerReview](#)
 - [IndicoConferenceProgrammeAndAbstracts](#)
 - [IndicoConferenceRegistration](#)
 - [IndicoLecture](#)
 - [IndicoMeeting](#)
 - [IndicoReminders](#)
 - [IndicoRoomBooking](#)
 - [IndicoSurveys](#)
 - [IndicoVidyoUse](#)
 - [IndicoWebcastRecordingBooking](#)

- [LHCathomeTutorials](#)
 - [LHCathomeLinuxTutorial](#)
 - [LHCathomeMacTutorial](#)
 - [LHCathomeWindowsTutorial](#)
- [PrintFunctions](#)
 - [ImpressionSecuriseeMac](#)
 - [ImpressionSecuriseeWindows](#)
 - [Mail2Print](#)
 - [SecurePrintMac](#)
 - [SecurePrintWindows](#)
- [QuickTime](#)
- [SkypeForBusiness](#)
- [TWikiUserTutorials](#)
 - [TWikiTutorialAttachingFile](#)
 - [TWikiTutorialDeletingTopic](#)
 - [TWikiTutorialRollbackVersion](#)
- [ToolsForTheWeb](#)
 - [AfsToEosWebMigration](#)
- [TranscribeYourVideo](#)

Visitors by Year

2016: 563

2017: 752

2018: 1501

2019: 3728

2020: 8968

2021: 8340

2022: 3056

2023: 259

Total: 27167 visitors

eoLibrary

CDS view - same e-learning videos

CERN Document Server

[Search](#)
[Submit](#)
[Help](#)
[Personalize](#)

Home > Lectures & Events > E-learning modules

E-learning modules

Tell us what you think about the videos in this category via e-learning.support@cern.ch

Search 57 records for:

[Search](#)
[Search Tips](#)
[Advanced Search](#)

[Add to Search](#)

Latest additions:

2023-05-09 14:33

CERNBox client installation - 2023 version / Ragozina, Elizaveta (author) (CERN) ; Martelly, Audrey Pascale (speaker) (Universite de Geneve (CH))

This short e-learning video is about the CERNBox client installation procedure for Mac, Windows and Linux.You will find the final video on CDS (e-learning collection) and also via [https://twiki.cern.ch/Edutech/CERNBoxAudrey Martelly](https://twiki.cern.ch/Edutech/CERNBoxAudrey%20Martelly) is a Geneva University student, interested in Web development and UI/UX issues. Elizaveta Ragozina is CERNBox Frontend developer/Enjoy!

2023 - 001:59, e-learning **External link:** [Event details](#) *In* : CERNBox client installation - 2023 version

[Detailed record](#) - [Similar records](#)

2023-05-08 09:29

CERNBox Sync a Share - 2023 version / Ragozina, Elizaveta (author) (CERN) ; Martelly, Audrey Pascale (speaker) (Universite de Geneve (CH))

This is a short e-learning video that shows how to sync a shared folder in CERNBox. The CERNBox client installation procedure is explained in another video.You will find the final video on CDS (e-learning collection) and also via [https://twiki.cern.ch/Edutech/CERNBoxAudrey Martelly](https://twiki.cern.ch/Edutech/CERNBoxAudrey%20Martelly) is a Geneva University student, interested in Web development and UI/UX issues. Elizaveta Ragozina is CERNBox Frontend developer/Enjoy!

2023 - 003:37, e-learning **External link:** [Event details](#) *In* : CERNBox Sync a Share - 2023 version

[Detailed record](#) - [Similar records](#)

ABOUT E-learning

This CDS collection contains, mostly, very short videos, made by the CERN IT e-learning lightweight service, to promote features, tools, services and educational instructions. Edutech contains other views and material of the project. The CERN safety, management and language courses contain e-learning components as well. User Guide and FAQ in <http://cern.ch/it-e-learning/>

eoLibrary

AVEditor

IT e-learning tools' Documentation
Search
it-e-learning/it-e-learning

IT e-learning tools' Documentation

Introduction

[AVEditor User Guide](#)

IT e-learning

Administration

AVEditor User Guide

AVEEDITOR

What is this?

AVEditor is a web application with which you can create Picture in Picture (PiP) videos. Currently, it handles these use cases:

1. It merges the camera and slides' channels of Academic Training videos already published in the CERN Document Server (CDS) and writes the new output with PiP in the same DFS directory where all other files of the given CDS record reside. See [HERE](#) an example in youtube made from [selected CDS entries of the CERN Academic Training collection](#).
2. It packages candidate e-learning videos in corporate slides and stores them in a temporary (preview) location.

The user receives an email on process completion, including the output location.

Table of contents

What is this?

Who can use it?

Where is it?

How does it work?

About intro and outro files

The Academic Training use case

Period of speaker's presentation:

Period of questions:

Picture in Picture:

A CDS entry with Video and Slides' channels

To select the optimal camera Video URL

Slides URL

Where is the output?

What to do once the merged file is ready

How is the YouTube publishing done

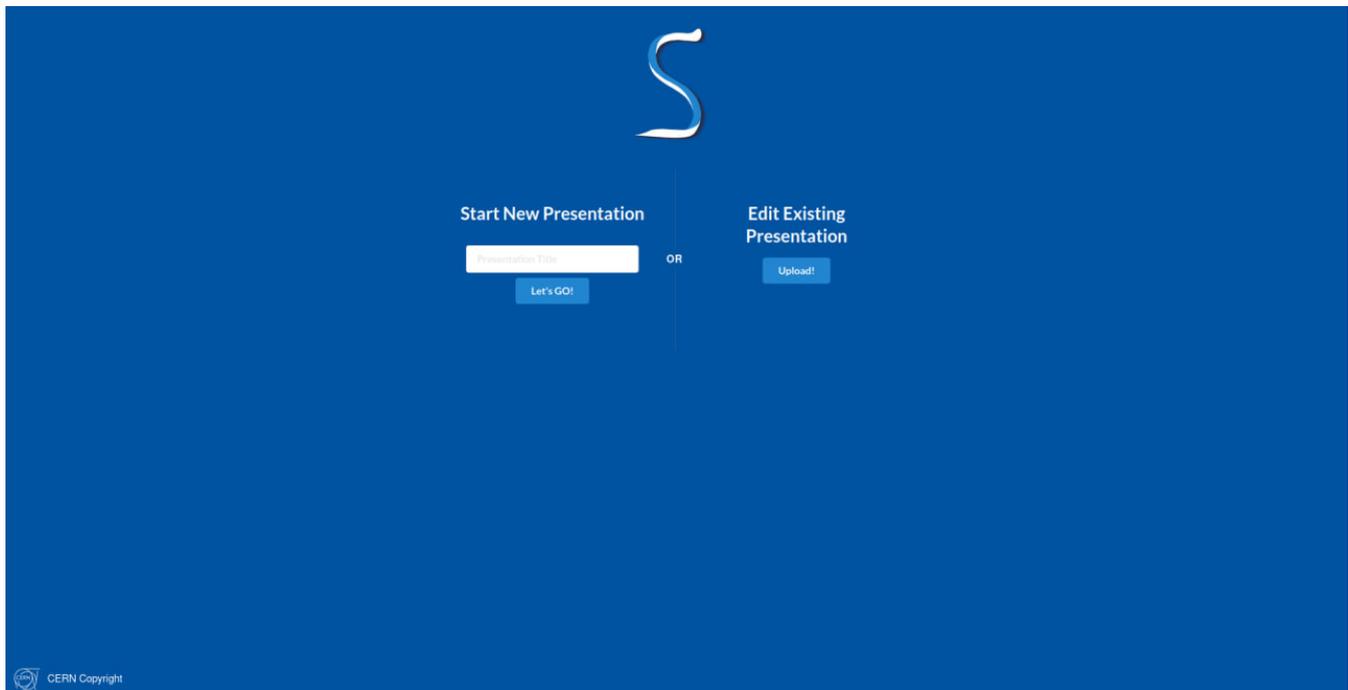
The e-learning collection use case

Background information

Internal information

Slides project

Web-based slide maker. Site: <https://cern.ch/slides> (<https://cern.ch/slides>) (requires CERN login)



Slides' documentation

Site: <https://slides.docs.cern.ch> (<https://slides.docs.cern.ch>)

Slides Documentation

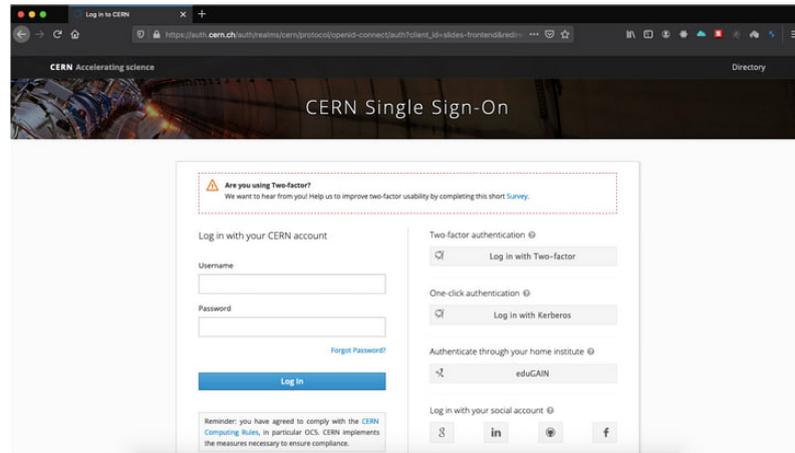
[Quick User Guide](#)

[The Software Stack](#)

How to use the CERN Slides' App



1. Go to: <https://cern.ch/slides>.
2. Login, using your CERN credentials.



3. Give a title to your new presentation.

Slides Documentation

Quick User Guide

The Software Stack

The Software Stack



The stack consists of a ReactJS frontend part and a NodeJS backend server. For storage, a CephFS volume. As a presentation engine, [Spectacle project](#).

More details can be found in slides-admin.docs.cern.ch viewable by CERN IT-CDA members only.

← Previous
Quick User Guide

Made with Material for MkDocs

Slides' documentation for admins

Site: <https://slides-admin.cern.ch> (<https://slides-admin.cern.ch>)

Slides Admin Documentation
Run the Slides App Locally
Documentation git repositories

Administration guide for the CERN Slides' App

Table of contents

- How to set up the CERN Slides' App locally
- Slides frontend
- Slides backend



How to set up the CERN Slides' App locally

1. CERN Login and being member of the Openshift project `slides-backend` are required in order to proceed.
2. Clone the github repository: <https://github.com/CERN/slides>.
3. Check that `.npmrc` is in the project, if not, add a new `.npmrc` file in the root of the project, and write `registry=https://cern.ch/cern-nexus/repository/npm-group/` inside. (this is important in order for the "`@authzsvc/keycloak-js-react@^1.1.0`" package to be found in the npm registry).
4. Create a `.env` file in the `packages/slides-server` folder. it's contents are:

```
sh KEYCLOAK_REALM="cern" KEYCLOAK_URL="https://auth.cern.ch/auth"
KEYCLOAK_CLIENT_ID=*** KEYCLOAK_CLIENT_SECRET=***
```
5. To find the secret values for Keycloak authentication,
 - Navigate to <https://openshift.cern.ch/console/project/slides-backend/browse/secrets>
 - Reveal the secret `keycloak-client-id`

Theses supervised

- Alexandre Racine on e-learning techniques
- Jan Schill on the Solid project Proof of Concept
- Theo Meyer on the Solid Open Source server evaluation
- Aristofanis Chionis on web-based slides
- Franciska-Leonora Toeroek on the Academic Training web site

Their thesis reports are available on <https://cds.cern.ch> (<https://cds.cern.ch>)

Index of project proposals for students

This is Drupal site <https://it-student-projects.web.cern.ch/projects/ongoing-accomplished> (<https://it-student-projects.web.cern.ch/projects/ongoing-accomplished>), which will disappear probably soon. Here are some screenshots, although each project entry contained rich Definition, Resources and Outcome information.

Title	Published	Description	Duration	Contact	Status
CERN IT Education & Outreach materials' catalogue - Prototyping	25 Oct 2022	The Web was born at CERN. The very first site of the planet was created at CERN. Such a long tradition, governed by a very liberal content policy, leads, for ...	Six months	Maria Dimou	Accomplished
A catalogue of existing Education & Outreach material in the CERN IT department- Step 1	02 Aug 2022	The Web was born at CERN. The very first site of the planet was created at CERN. Such a long tradition might lead, for the newcomer and general public, to ...	10 days	Maria Dimou	Accomplished

CERN-Solid server hosting	20 Sep 2021	In the CERN IT/CDA group a lot of work was done in 2020-2021 to understand the Solid project ecosystem . Solid is here to stay and develop tools that give ...	3.5 months	Maria Dimou	Accomplished
Malt-related project: Usability study of the mail documentation	26 May 2021	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user. For a complete list of services ...	1-2 months at 50% working time (20 hrs per week 755 CHF per month)	Maria Dimou	Accomplished
New account portal Usability test	03 Nov 2020	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user, under-going continuous development,while ensuring top quality ...	1 month	Maria Dimou	Accomplished

CERN Academic Training web site	05 Oct 2020	The CERN Academic Training lectures contain brilliant material of leading-edge technology as well as great historical value. The lectures are open to all members of CERN personnel (in particular staff ...	one year	Maria Dimou	Accomplished
Correct automatically transcribed videos for input to MLLP	05 Oct 2020	The CERN IT Collaboration, Devices & Applications group and in particular sections Digital Repositories (IT CDA/DR) and Integrated Collaboration (IT CDA/IC), run many highly visible and popular services, which enable ...	1-3 months	Maria Dimou	Accomplished
CERN-Solid code investigation	22 Sep 2020	Sir Tim Berners-Lee invented the Web at CERN in 1989 , as a free, open, networked Internet application. The Web produced an unprecedented change to human civilisation. Yet, commercial	6-9 months	Maria Dimou	Accomplished
e-learning - Malt related - promotional short videos from recent CDA developments	14 Jan 2020	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user, under-going continuous development,while ensuring top quality ...	1 month	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Indico Paper Review & Edit Usability study	25 Sep 2019	The CERN IT Collaboration, Devices & Applications group (IT-CDA) hosts many highly visible and popular cross-platform services. Indico is an Open Source web application for event organisation, archival and collaboration ...	3 months	Maria Dimou	Accomplished

e-learning - IT Collaboration, Devices & Applications - Digital Repositories Usability study -1	23 Sep 2019	The CERN IT Collaboration, Devices & Applications group and the Digital Repositories' section (IT CDA/DR) in particular, run many highly visible and popular services, which enable researchers/ institutions to share and ...	1 to 3 months	Maria Dimou	Accomplished
Malt-related project: CDA Jekyll site finalisation	12 Feb 2019	Prélude project 1-13 July 2019: The new telephony project replaces analog telephones and the Microsoft Skype for business. The task is to: Test the new fixed and mobile telephony client ...	8 weeks	Maria Dimou	Accomplished
Malt-related project: New documentation testing for up-to-dateness and functionality	26 Oct 2018	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user. For a complete list of services ...	up to 6 months at 50% working time (20hrs per week)	Maria Dimou	Accomplished
Malt-related project: Standard documentation workflow and conversion tools for documentation, slides etc	20 Sep 2018	Prélude project 1 August - 30 September 2019: Develop a new search engine for Indico. Details here . Supervision by Pedro Ferreira <pedro.ferreira@cern.ch>. Main project In order to standardise the ...	1 year	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Insert subtitles in video tutorials	04 Jun 2018	Use a free tool to convert existing plaintext files, containing the exact script of our short online e-learning videos, into .vtt files, in view of introducing subtitles. Method: Click on ...	1 month	Maria Dimou	Accomplished

e-learning - IT Collaboration, Devices & Applications - ffmpeg	30 Nov 2017	This project is accomplished (summer 2018). Documentation HERE . The CERN Document Server (CDS) is the institutional repository of CERN publications, photos and videos, organised in Collections . Specifically videos ...	2 months	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Indico Usability study	20 Nov 2017	Indico is an open source web application for event organization, archival and collaboration. It is developed at CERN and evolves in the IT Collaboration, Devices & Applications (IT/CDA) group The ...	6 months at 50% Full Time Equivalent	Maria Dimou	Accomplished
e-learning - video production and Academic Training video archive promotion	07 Nov 2016	This project is accomplished in the summer of 2018. See here the tool and the YouTube channel and playlists . The Academic Training (AT) video archive in CDS contains a ...	6 months	Maria Dimou	Accomplished
e-learning - short online tutorials - help to content owners	26 Oct 2016	The first 6 months of the CERN IT rapid e-learning project identified tools for recording short online videos that promote a tool, a site or a service. In this phase ...	The full month in October 2016 - unpaid internship	Maria Dimou	Accomplished
e-learning- modules	13 Jan 2016	This project aims to help IT service managers and experiment experts to record mini-videos explaining their services to the users. To do this, a desktop camera and/or the CERN IT ...	6 months - March-August 2016	maria.dimou@cern.ch	Accomplished