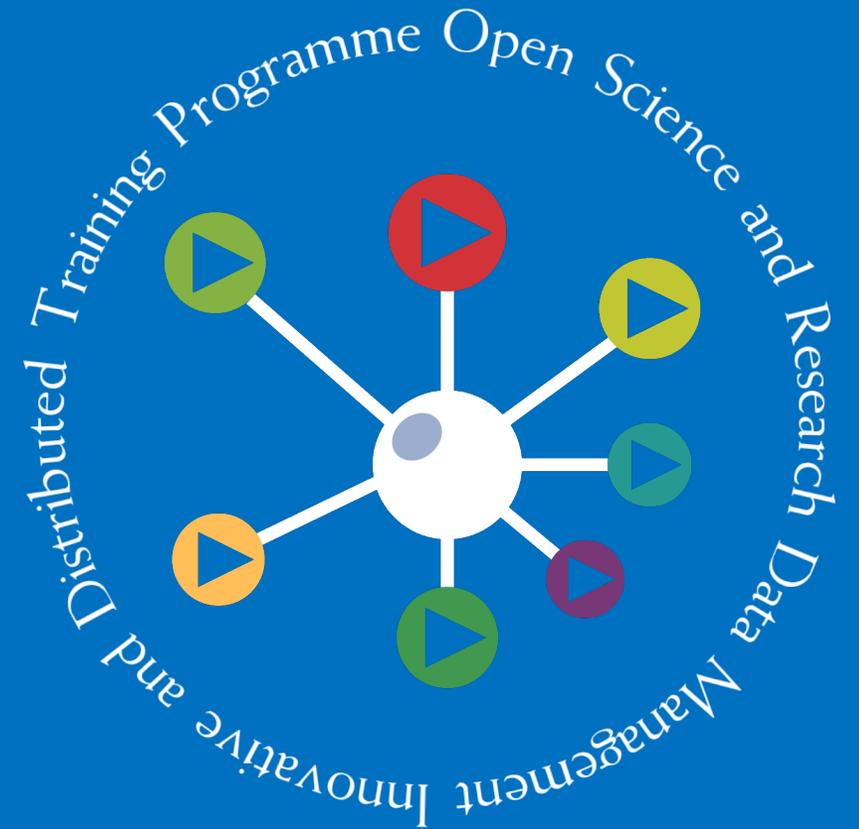


IO3: Distributed eLearning Training Platform for OS and RDM

University POLITEHNICA of Bucharest
National Institute of Research and Development in Informatics (ICI Bucharest)



Overview of IO3



🌐 Training Platform to share online digital training materials with Students and Early Stage Researchers

🌐 Host online Training Sessions and be able to collect feedback.

🌐 Work as a Living Lab for fostering hands-on activities on OS domains, like working with open and accessible data.

Activities



- 🌐 O3/A1. Technical and Functional Specifications and architectural design (M1-M2)
- 🌐 O3/A2. Implementation and first prototype evaluation (M3-M14)
- 🌐 O3/A3. Update and product testing (M15-M30)



O3/A1. Technical and Functional Specifications and architectural design



- ✿ Analysis of the requirements for the distributed training platform
 - ✿ Investigate the possibility to host at each institution an instance of the platform
 - ✿ Interconnect the authentication credential technologies into one
 - ✿ Or, go towards a more centralised architecture for such a platform
- ✿ We analysed the requirements in terms of hosting training platform
 - ✿ Moodle + EduGAIN

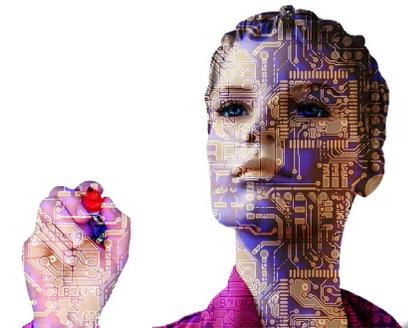
O3/A2. Implementation and first prototype evaluation



🌐 UPB, together with partners, develops a first prototype of the online training platform.

🌐 This will be put to test in the first set of training activities in the project

🌐 ... from where it will collect feedback from both Trainees and Trainers.

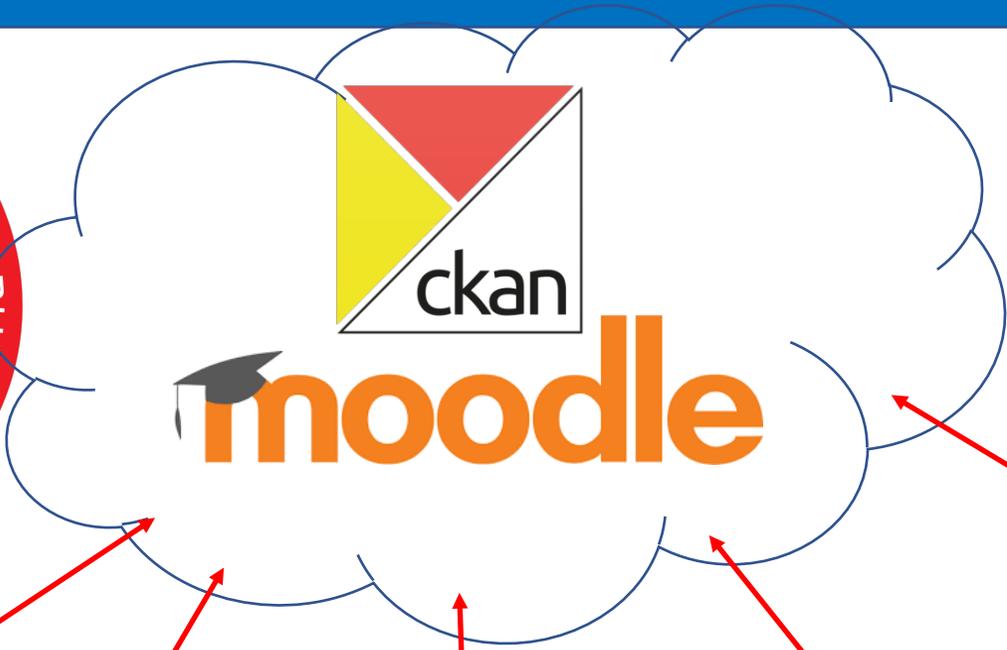
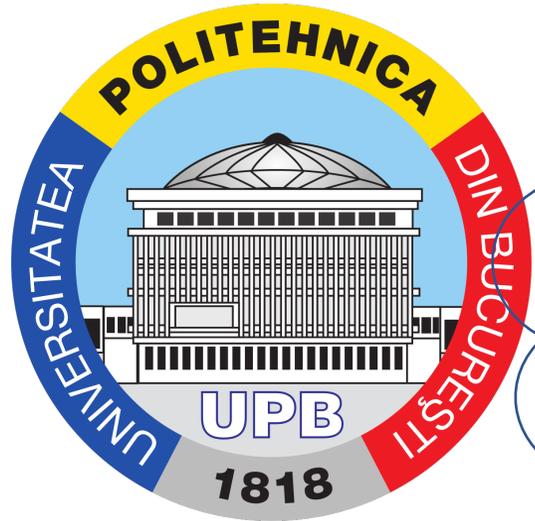


O3/A3. Update and product testing



- ❁ The platform to be continuously tested ...
 - ❁ Up-to-the-phase where we take the prototype
- ❁ The prototype to host one or two training sessions in parallel with a limited number of online Trainees
 - ❁ Scalability up to 50 training sessions in parallel and hundreds of Trainees accessing in the same time the platform.
- ❁ The backbone runs in the Cloud (within the UPB's and NCI's Data Centers)
 - ❁ The possibility of synchronisation of curricula and activities between hosts.

Phase 1 – centralised training platform



Can work for a comon curricula like the one for Reproducibility Science

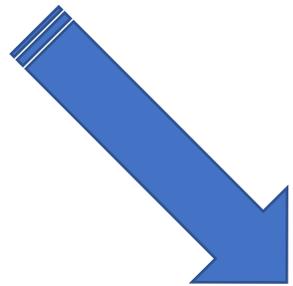
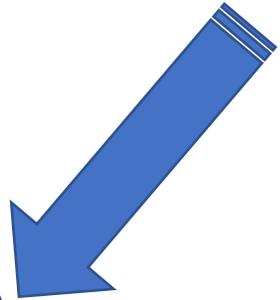
Not working when already existing materials need to be moved somewhere else (IPR / GDPR?)



Phase 2: In terms of access, eduGAIN



It solves IPR and security aspects....
Harder to deliver on-time for Train of Trainees...



Steps



- 🌐 We started developing the *centralised* Moodle platform at UPB with the first set of classes
 - 🌐 To be ready for first training (common) modules → please select classes that do not suffer from IPR / authorisation problems
 - 🌐 If classes are *mandatory* taught at the home institution, be prepared to manually enrol outside PhD students into the local authorisation system
- 🌐 Moodle integrated with SAML 2.0 (IDP)
- 🌐 CKAN integrated with SAML 2.0 (IDP)
- 🌐 Moodle integrated into EduGAIN as SP (Service)

Phase 1: Moodle set-up



<https://trainrdm.crescdi.pub.ro/>



Available courses

 [Visualising Data](#)

This course aims to teach the following topics:

- [Introduction](#) to data visualization
- Data visualization techniques
- Data visualization tools
- Issues in data visualization

 [Data Cleaning with OpenRefine](#)

This course aims to teach the following topics:

- Use essential OpenRefine functionality
- Advanced OpenRefine functions
- Reference resources for further learning

 [Working with Personal and Sensitive Data](#)

Visualising Data

Data Cleaning with OpenRefine

Working with Personal and Sensitive Data

Archiving Data

Sharing Data

Working with Data

Data Management Planning

Understanding Research Data

Inside each course has modules



Working with Personal and Sensitive Data



[Dashboard](#) / [Courses](#) / [WPSD](#)

Turn editing on



Announcements

How to collect, share, store, and protect the sensitive data

Understand the principles of good research data management

GDPR and data protection regulations, and what these mean for research and research data

Relevant services and resources available to researchers at the university

About EduGAIN



- 🌐 We started with the eduGAIN documentation [1] [2]
- 🌐 One can add own identity provider by SAML if the elements from [2] are still specified in the metadata exposed by SAML and be signed with the specifications in that document
- 🌐 Finally, the IDP should appear at [3]
- 🌐 Moodle at UPB is exposed as service provider in eduGAIN
 - 🌐 All partners need to expose IDPs into eduGAIN as well

[1] <https://technical.edugain.org/documents>

[2] <https://technical.edugain.org/doc/eduGAIN-saml-profile.pdf>

[3] <https://mds.edugain.org/edugain-v1.xml>

[4] <https://wiki.geant.org/display/eduGAIN/How+to+Join+eduGAIN+as+Service+Provider>

What's next



🌟 We aim to finish with eduGAIN connectors (Moodle and ckan)

🌟 Institutional channels sometimes take time

🌟 We need to finalise the construction of classes

🌟 Train of trainers: May 2022 → proposal to host on the centralised Moodle for now the materials (quite soon)

🌟 For Train of trainees: let's collect all course materials and IPR constraints

🌟 **Discussion:**

🌟 **Access, re-use and legal implications (all)**

THANK YOU!



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