DLCM's MOOC

Bring your questions &
pick up your answers

Research Data
Management
MOOC

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Mandated by swissuniversities

h e g
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DLCM interest for digital e-learning …

- European commission recognizes the importance of developing MOOCs and other digital e-learning educational material and recommends integrating them into HEIs training strategies and policies. This corresponds perfectly to our intention to proposing the development of a MOOC.

- A comparative study shows that Switzerland is clearly one of the major leaders in developing such online e-learning tools.

- Based on the top ten of Coursera, one of the most used MOOCs are indeed created by the University of Geneva, which is highly ranked. Our MOOC will be developed with the advices of UNIGE's expert team.

DLCM's MOOC

- Objectives:
  - Provide accessible online materials to researchers,
  - Support HEI units that assist researchers,
  - Assist swiss and external researchers,
  - Offer a complementary ressource to OLOS users,
  - Promote DLCM and OLOS services and expert network.

Structure : General Overview

GM1 - From Research Data Management (RDM) to Research Data Governance (RDG) practices

Basma Makhlouf-Shabou & Silas Krug

GM2 – Active Research Data Management (ARDM)

Eliane Blumer & Basma Makhlouf-Shabou

GM3 – Research Data Sharing (RDS)

René Schneider

GM4 – Research Data Preservation (RDP)

Pierre-Yves Burgi

GM5 – Data Management Plan (DMP)

Basma Makhlouf-Shabou

Module 1

GM1 - From Research Data Management (RDM) to Research Data Governance (RDG) practices focuses on …

1. Understand the respective definitions of Research Data Governance and Research Data Management
2. Research Data Governance practices
3. Research Data Governance policy and how to create it
4. Existing tools for Research Data Governance

Module 2

GM2 – Active Research Data Management (ARDM) focuses on …

1. Characteristics of Active and Semi-Active Research Data
2. Phases of Active Research Data Management and related activities
3. Research data creation, capture and collection
4. Research data description and structuration
5. Research data analysis and visualization
6. Tools that may be useful for managing Active Research Data

Module 3

GM3 – Research Data Sharing (RDS) focuses on …

1. Introduce data sharing concept and its contribution to the Open Science philosophy
2. Discover the main persistent identifiers and their advantages and limits
3. Understand the challenges implied by the research data sharing and reuse
4. Get to know the main legal and ethical constraints on Research Data Management (Cases of Switzerland and other european countries)
5. Discover tools and technologies which help to research data sharing and reuse

Module 4

GM4 – Research Data Preservation (RDP) focuses on …

1. Long Term Preservation's concepts and principles
2. Basics of the Open Archival Information System (OAIS: ISO 14 721)
3. File profiling methods that enable research data sustainability and interoperability
4. Tools and technologies for research data Long Term Preservation (the case of the University of Geneva: Yareta)

Module 5

GM5 – Data Management Plan (DMP) focuses on…

1. What is a Data Management Plans
2. How to create and maintain DMPs
3. Existing tools for managing DMPs in different research funding agencies

Module Content formats

- Each module proposes
  - Textual contents (PDF, PPT, etc.)
  - Videos of different formats (interviews, demo, etc.)
  - An updated bibliography
  - A quiz
  - Abstracts in english, french, german and italian

Next steps (1/2)

Developing specialized modules

SM1 – Research Data types and paradigms:

1. Quantitative & qualitative data on the Research Data Management
2. File formats and their impact on the Research Data Management

SM2 – RDM fields of study:

1. Discover and compare characteristics of Research Data Management regarding the academic field of application

SM3 – Tools, technologies and services:

1. Different tools, technologies and services usable in Research Data Management

Next steps (2/2)

Introduce community management (2021.11.30)

- To answer specific needs of users
- To maintain interest and engagement of users

Module certification (2021.06.30)

An additional service will allow the certification of the knowledge acquisition from the MOOC modules. Two options are possible:

1) general certification that attests that participants succeeded the exams of the entire modules.
2) partial certification based on the needs and the demands of participants. This service will be specified and designed in collaboration with Swiss MOOC.

Our Team & Partners

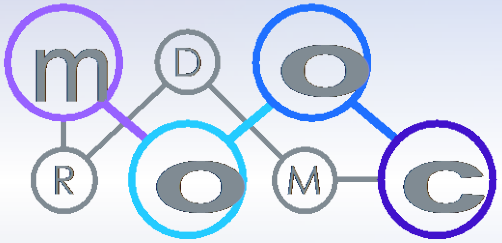
- DLCM's MOOC team
  - Basma Makhlouf-Shabou (HEG)
  - Silas Krug (HEG)
  - Aimée Noirjean (HEG)
  - Nicolas Tregan (HEG)

- Partners
  - swissuniversities
  - HEG, Information Sciences Dept.
  - MIT Libraries
  - EPFL, Library
  - Swiss MOOC Service & EPFL
  - University of Geneva
  - UCL, Library Services
  - SLU, Archives
  - DevPro, HES-SO

Next Steps: general timeline

- March 2021 : five general modules are available online
- June 2021 : process of certification is established
- November 2021 : community manager hired for OLOS and the MOOC
- December of 2021 : specialized modules are completed

Thank you!



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