# Understanding OER Requirements Across All Stakeholders When Working With OER Infrastructure, e.g., Repositories

**Claudia Hackl**

University of Vienna | Open Education Austria Advanced

14. November 2024

PHAIDRAcon

# Open Educational Resources (OER)

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# Open Educational Resources (OER)

*… are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions.*

*OER form part of 'Open Solutions', alongside Free and Open Source software (FOSS), Open Access (OA), Open Data (OD), crowdsourcing platforms etc.*

Definition - UNESCO (2023)

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# Open Educational Resources (OER)

**Reuse** - Content can be reused in its unaltered original format

**Retain** - Copies of content can be retained for personal archives or reference

**Revise** - Content can be modified or altered to suit specific needs

**Remix** - Content can be adapted with other similar content to create something new

**Redistribute** - Content can be shared with anyone else in its original or altered format

oercommons.org

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# Perspectives on OER

1. SDG “Quality Education”
2. EU Open Science Policy – “Education and skills”
3. Open Science Policy Austria – “Open Educational Resources (OER)”
4. Open Education Austria Advanced Project (national OER-project, funded by the BMBWF)
5. On institutional level: OER-policy /-services /-infrastructure

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# Institutional Anchoring of OER in higher education

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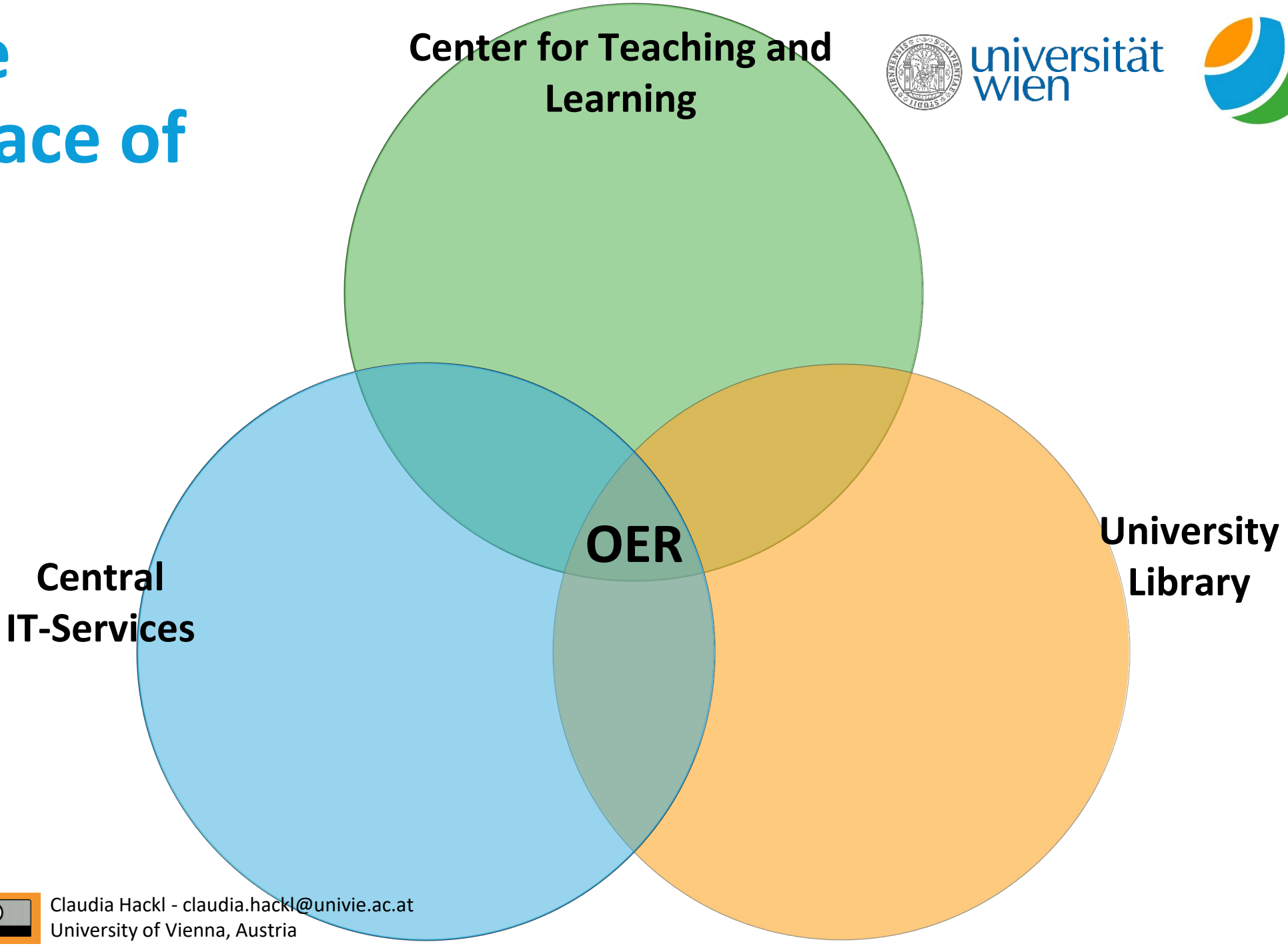


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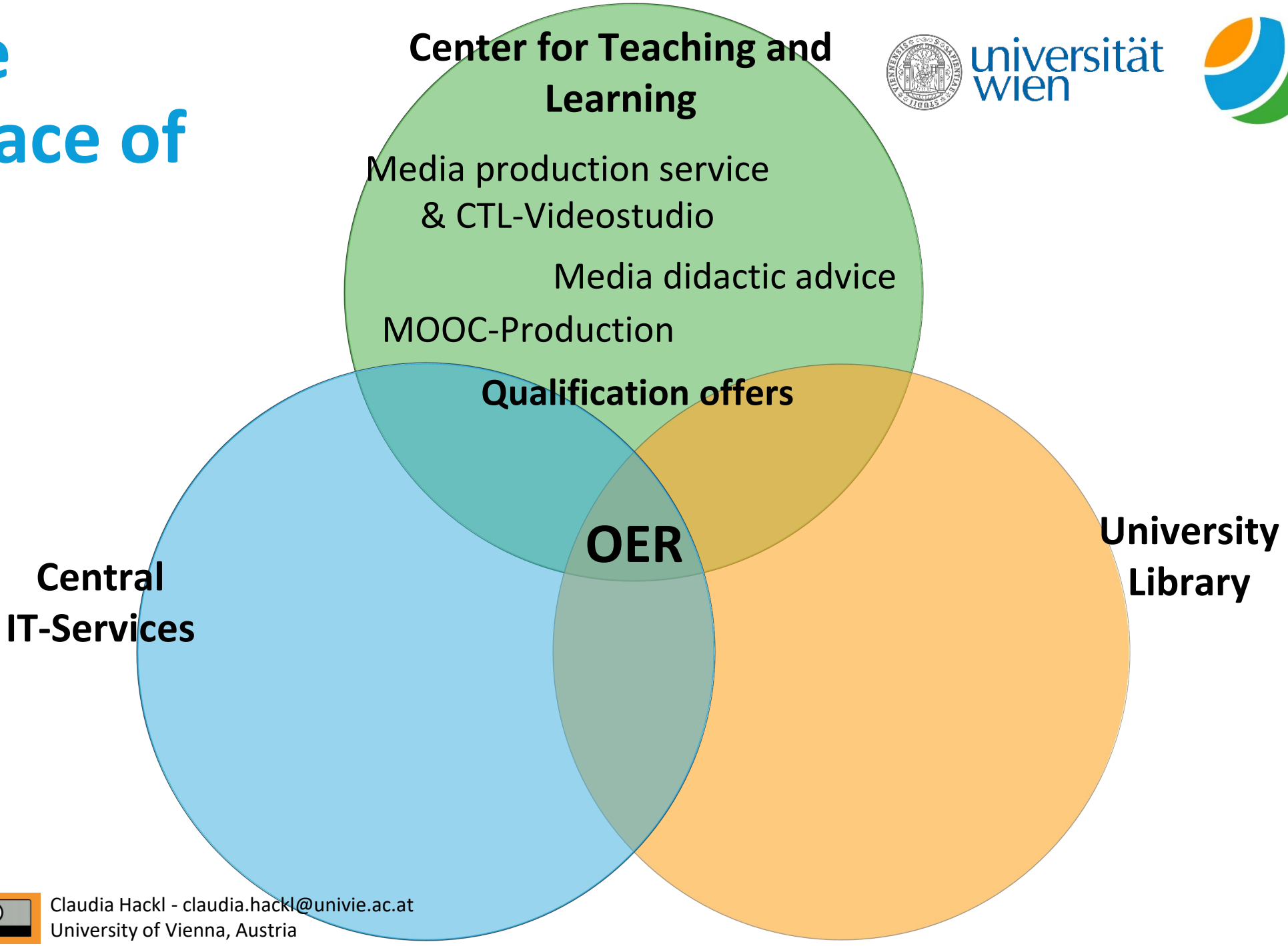


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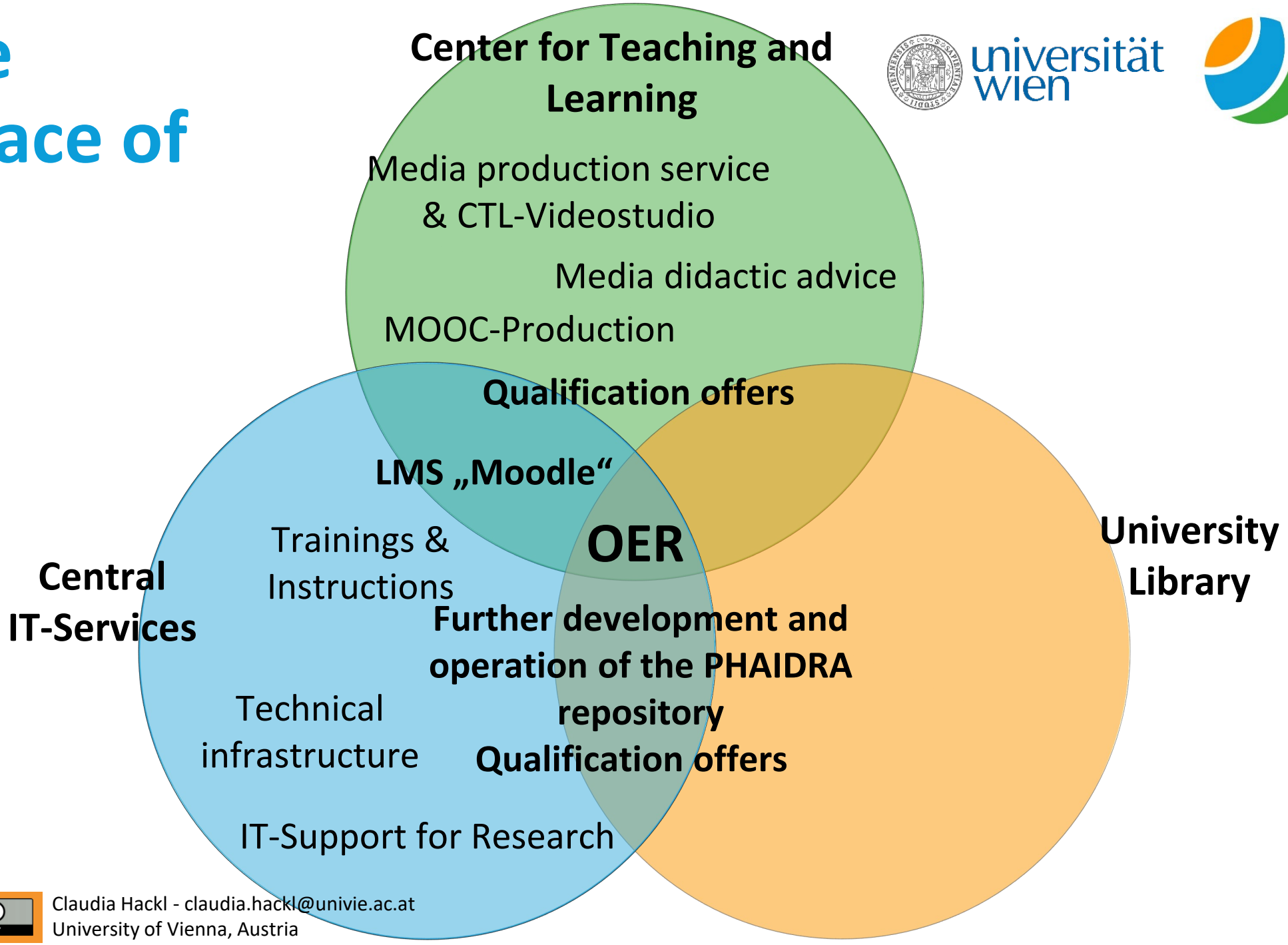


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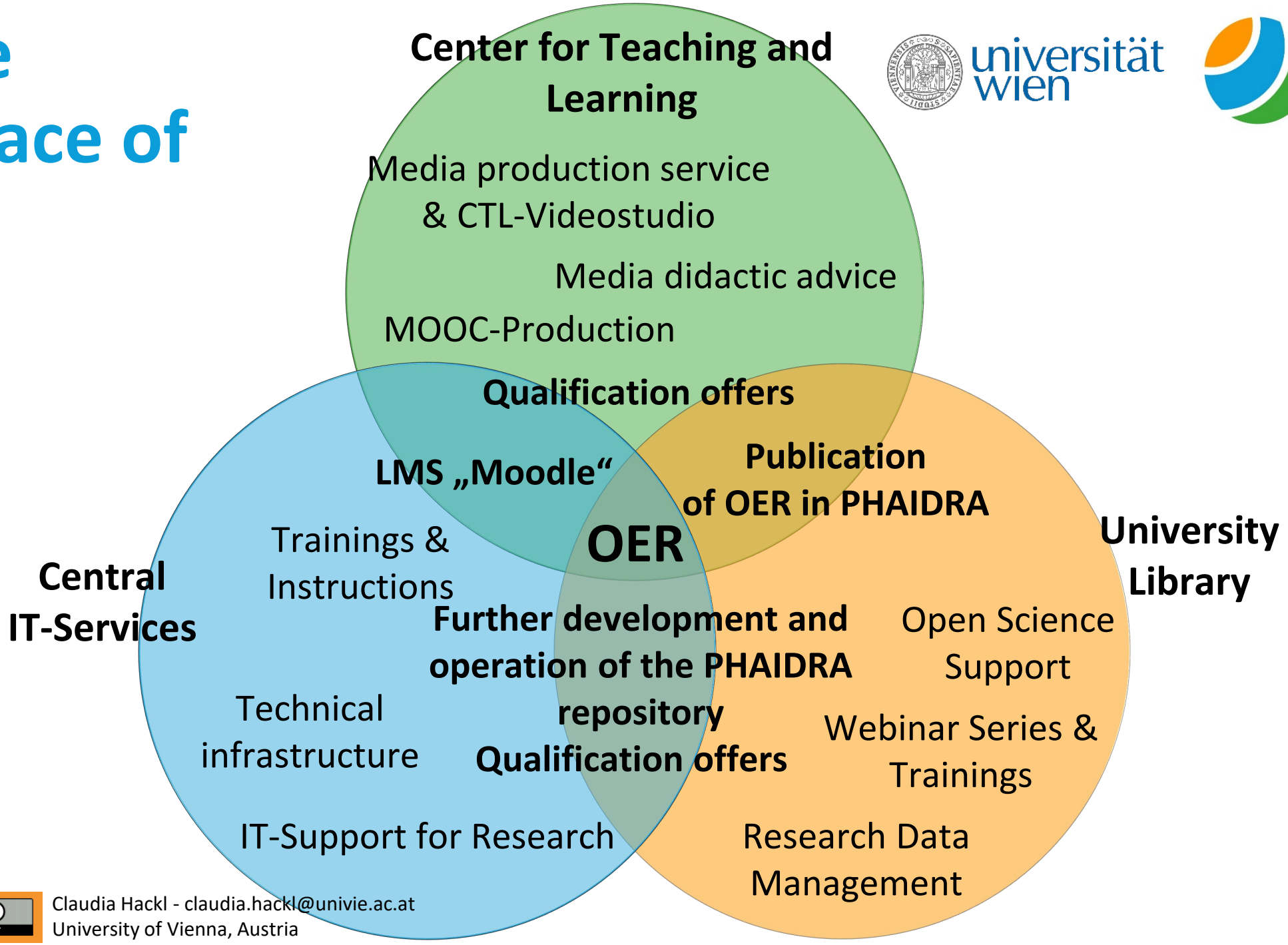


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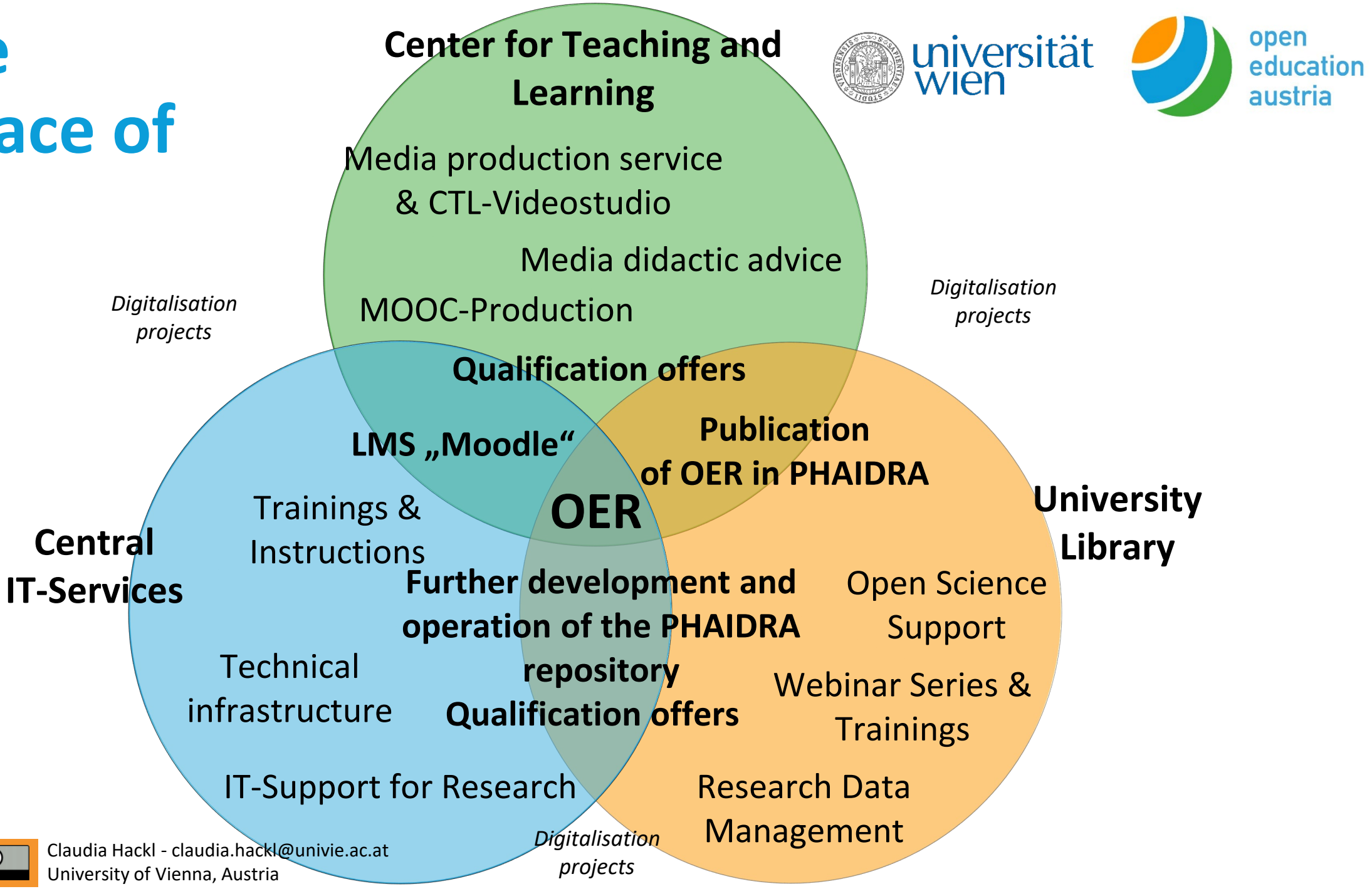


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# Open Policies at the University of Vienna

- Open Access Policy since 2014

openaccess.univie.ac.at

- Research Data Management Policy since 2021

rdm.univie.ac.at

- OER Policy since 2024

oer.univie.ac.at

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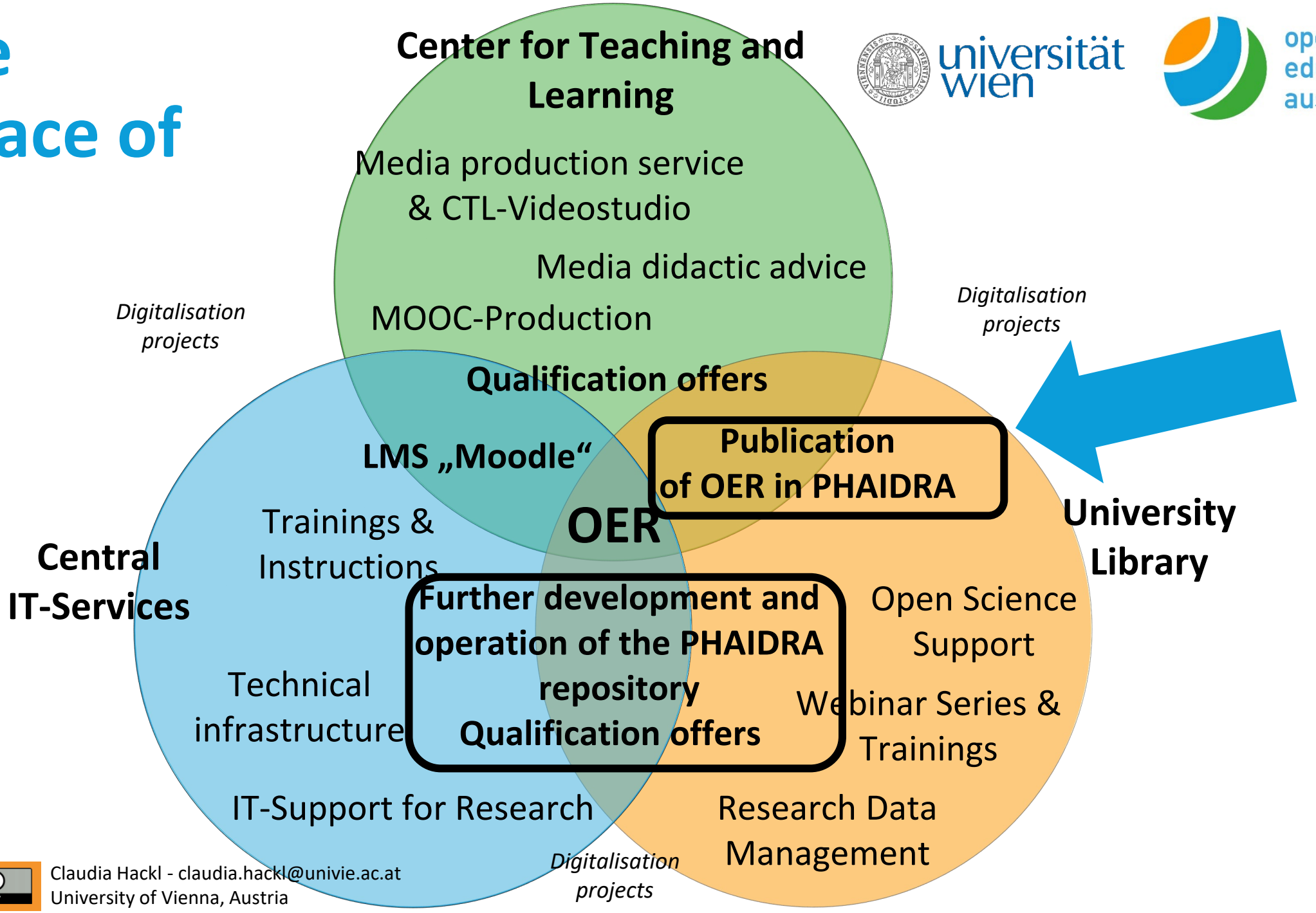


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# Examples:
# OER in PHAIDRA

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# Video on Climate Protection Part of a Massive Open Online Course

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## Citable links

Persistent identifier
https://phaidra.univie.ac.at/o:1405231

Handle
https://hdl.handle.net/11353/10.1405231

## Content

Download

## Details

| | |
|---|---|
| Uploader | OER-Produktion CTL |
| Object type | Video |
| Format | video/mp4 |

# Preparation Materials for the entrance exam (Korean Studies at Uni Vienna)





## 6.2 Die koreanische Lebensweise

### Währung

Koreas Währung ist der Won (₩), den es in 1000- , 5000-, 10.000- und 50.000-Won-Scheinen und als 1-, 5-, 10-, 50-, 100- und 500-Won-Münzen gibt. Herausgeber für Münzen und Scheine ist die Zentralbank *Bank of Korea*. Die meisten größeren Geschäfte, Hotels und Restaurants in Korea akzeptieren die international wichtigsten Kreditkarten.

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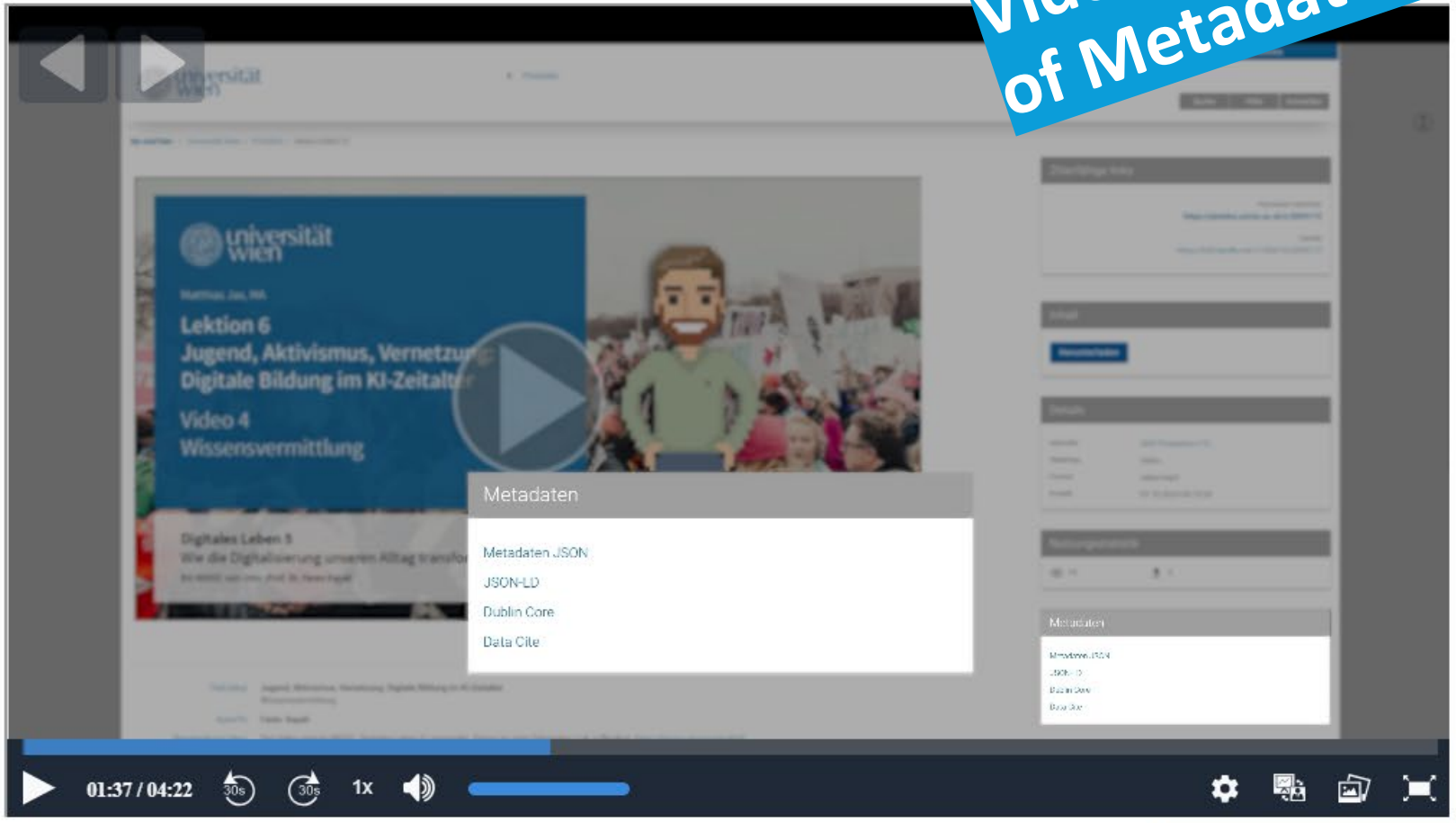
| Format | application/pdf |

# Video on the Explanation of Metadata in PHAIDRA



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## Details

| | |
|---|---|
| Uploader | OER-Produktion CTL |
| Object type | Video |
| Format | video/mp4 |

# How to archive OER in PHAIDRA

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**Create new object** Upload Picture, Audio, Video, Document, Data or create an empty Collection.

**Open Educational Resources (OER) upload**

Publish your openly licensed teaching/learning materials here - videos, scripts, audios, quizzes, images, slide sets, Moodle elements, etc.

**Upload publication (via u:scholar)**

Upload journal articles, reports, reviews, working papers, conference papers, monographs, individual chapters from monographs ...

**Open template** Open a previously created upload template.

# Archiving OER in PHAIDRA

**L**earning **O**bject **M**etadata for Higher Education
https://oer-repo.uibk.ac.at/lom/latest/

Used in the DACH-Higher Education Area for OER

Mandatory metadata:

- Title
- Date
- Author
- Licence
- Discipline (ÖFOS 2012)
- Mediatype
- Learning Resource Type (controlled vocab)
- Language

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# How to find OER in PHAIDRA / OERhub

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klimawandel

91 objects

1 2 3 4 5 6 7 8 9 10

## Klimawandel MOOC (KliMO): Wissenschaftliche Grundlagen

27.11.2023

Thomas Glade

Link zum MOOC: https://imoox.at/course/KliMO

Kursinhalt
In insgesamt 4 Einheiten und 12 Lektionen werden im KliMO dieser umfassende Themenkomplex aus einem ganzheitlichen geographischen Zugang mit den verschiedenen natur- und sozialwissenschaftlichen Perspektiven beleuchtet. Dabei lernen Sie mit Begriffen wie Klima,

## Filters

Remove filters

- Access
- Type
  - Image
  - Book
  - Text (7)
  - Learning object (92)
  - Open Educational Resource (OER) (91)
  - Collection (6)
  - Video (102)
  - Data (10)
  - Container
  - Map
  - Resource
  - Sound

Search klimawandel

Discipline | Resource | Language | Licence | Date | Source | Media

93 Results for „klimawandel“  Sorted by:

Bottom  Viewing 1 to 10  Back 1 2 ... 10 Continue

## Klimawandel MOOC (KliMO): Wissenschaftliche Grundlagen

PD

In insgesamt 4 Einheiten und 12 Lektionen werden im KliMO dieser umfassende Themenkomplex aus einem ganzheitlichen geographischen Zugang mit den verschiedenen natur- und sozialwissenschaftlichen Perspektiven beleuchtet. Dabei lernen Sie mit Begriffen wie Klima, Emissionsbilanzierung und sozial-ökologischer Transformation umzugehen. Unter anderem we...

Back

# KliMO - Gletscher und Klimawandel

Das Video wird im MOOC „Klimawandel MOOC (KliMO): Wissenschaftliche Grundlagen" verwendet. Dieser ist unter folgendem Link auffindbar: https://imoox.at/course/KliMO MARR, P. (2021): Gletscher und Klimawandel. – In: GLADE, T. (Hrsg.): Klimawandel MOOC (KliMO): Wissenschaftliche Grundlagen. iMooX; online unter: https://youtu.be/t2ql83x3xJo

| | | |
|---|---|---|
| Authors: | Thomas Glade | mp4 |
| Uploaded on: | 17.12.2021 | |
| Discipline: | Glaciology; Erosion; Climate change | |
| Resource: | Video | |
| Language: | German | |

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## Metadata

Export as JSON

# How to find and integrate OER in LMS

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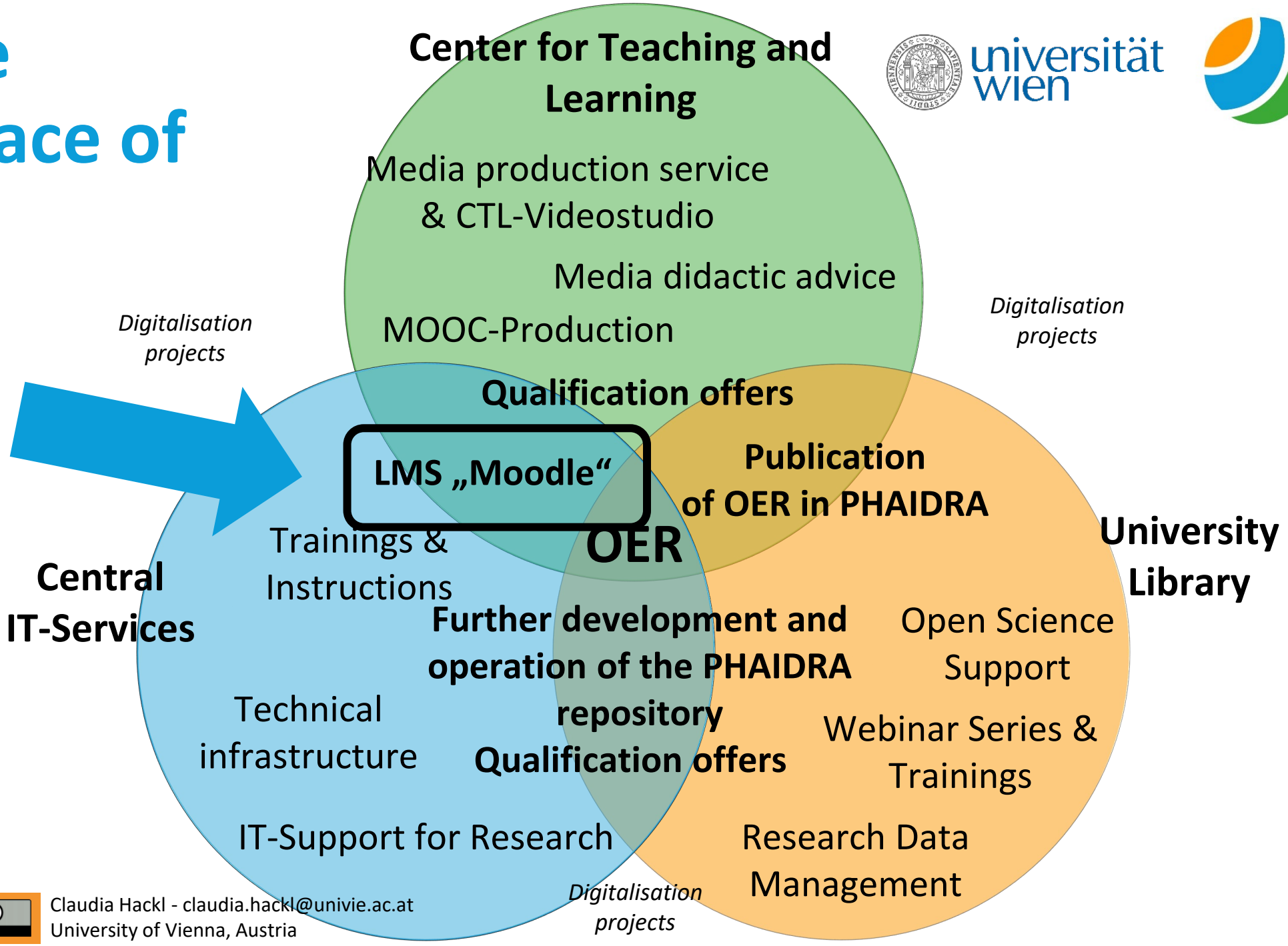


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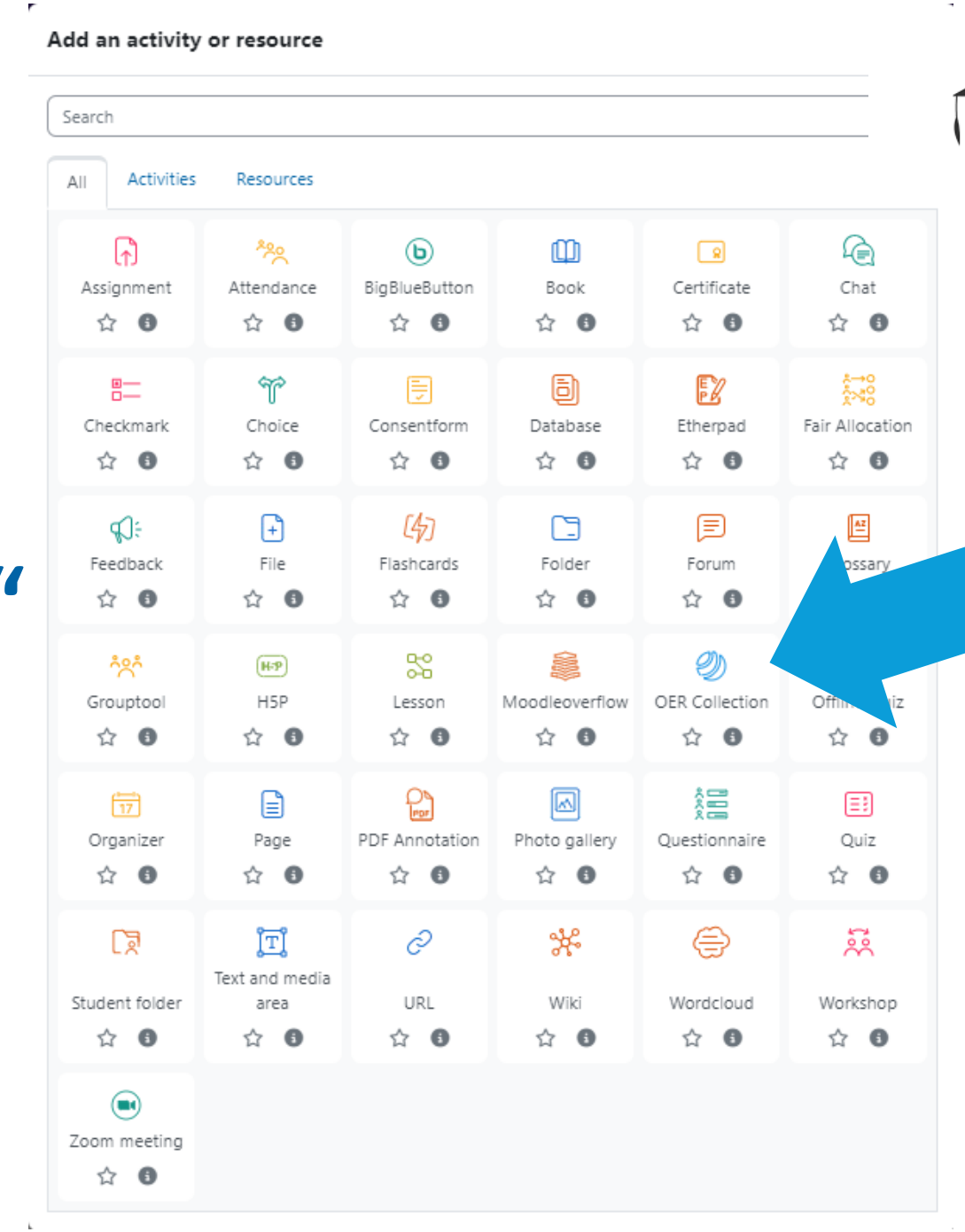
# „OER Collection“ Moodle Plugin

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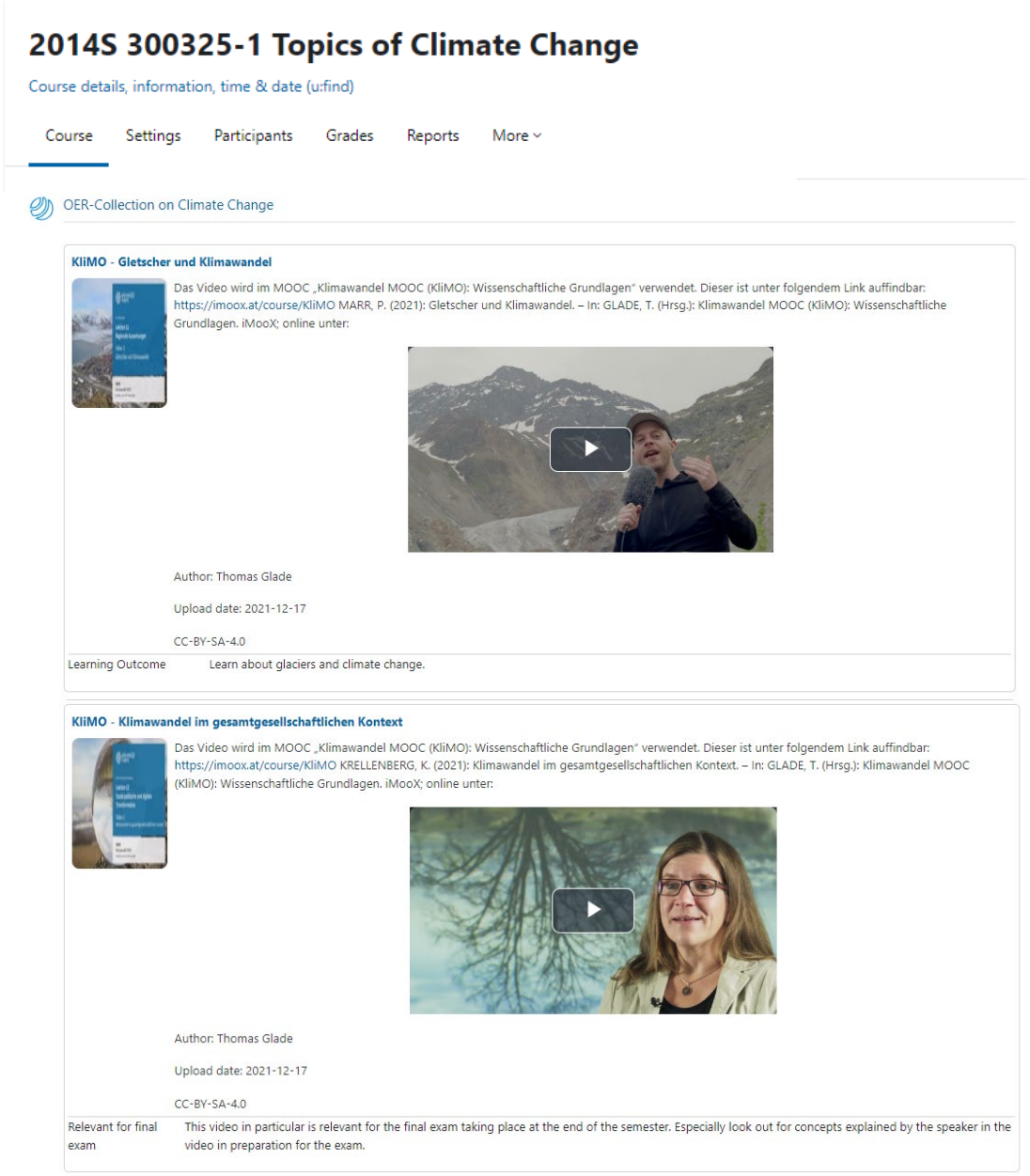


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moodle

# „OER-Collection“ Moodle Plugin

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# OER Requirements for OER Infrastructure

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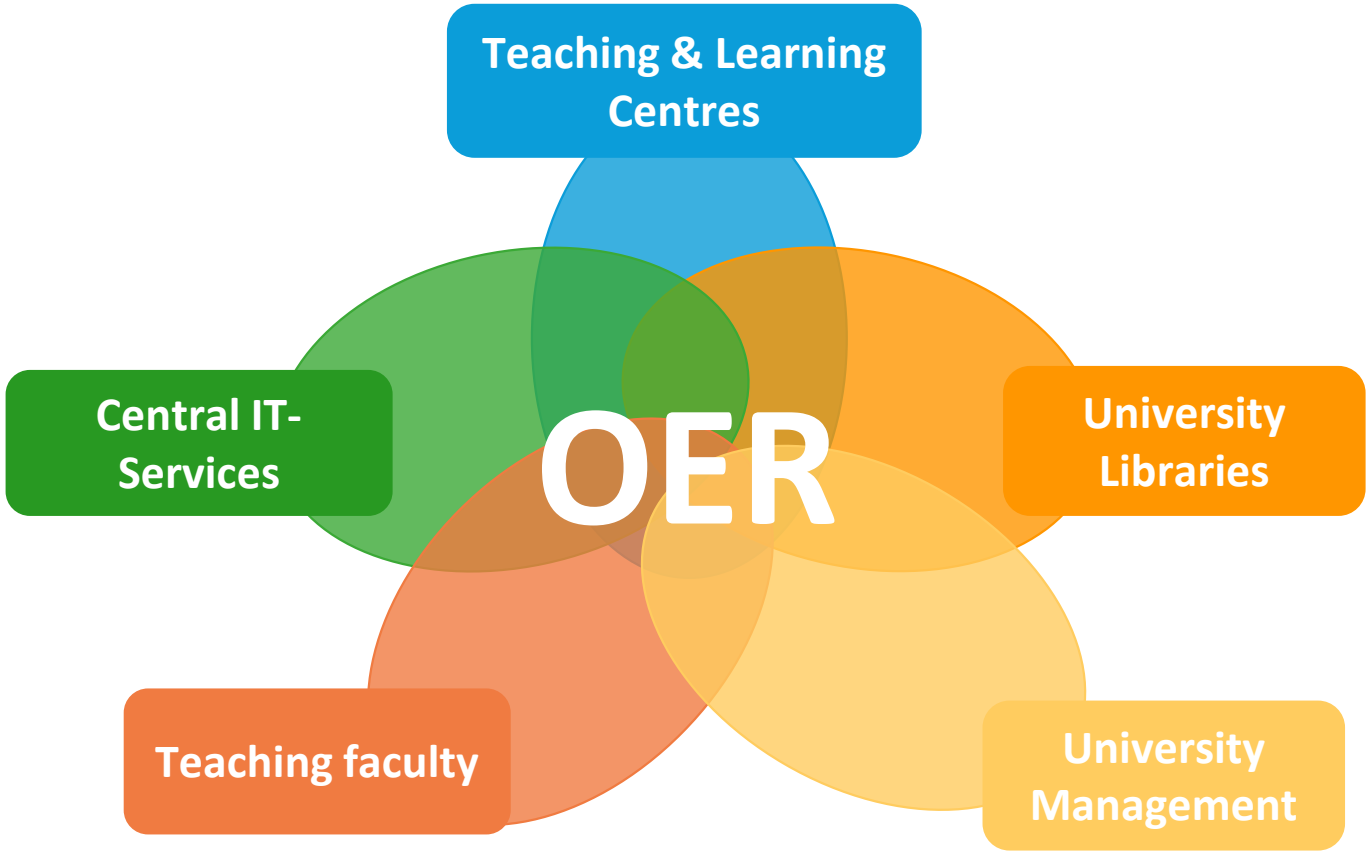


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# OER from a “didactical” point of view

**E-Learning Centres**

## Requirements

- sustainable anchoring of OER in mainstream education
- the further use and didactic development of free educational resources
- low-threshold content production
- Raising awareness of OER among teachers through internal university training programs
- creating access to the OER produced
- Institutional OER policies

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# OER from a “technical” point of view

**Central IT-Services**

## Requirements

- Storage and archiving of data / OER
- Establishment of appropriate infrastructure for research and teaching repositories
- Centralized search for OER in the higher education space across individual systems with different search options & filters
- Suitable software for an OER repository fit?
- Integration into the institutional system landscape
- User-friendly input masks
- Open Source <> Open Education

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# OER from a “librarian” point of view

**University Libraries**

## Requirements

- Ensuring the long-term archiving of OER
- Appropriate data formats
- Standards for metadata schemas (OER LOM)
- Controlled Vocabularies
- Linking services for research and teaching
- Open Education <> Open Access

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OER from an “end user” point of view

**Teaching faculty**

# Requirements

- low-threshold content production
- creating access to the OER produced
- the further use and didactic development of free educational resources
- internal university training programs
- user-friendly production software
- FAQs or services for legal questions
- Media didactic consultations
- Institutional OER policies to give background & framework

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OER from an “institutional” point of view

**University management**

# Requirements

- Strategies: Demonstrate contribution of OER to achieving goals
- OER services: break down organizational barriers, promote cross-departmental cooperation
- Address staff in their role as researchers AND teaching faculty
- Encourage OER, provide incentives
- Promote integration of OER of different granularity into teaching
- OER policies & infrastructure

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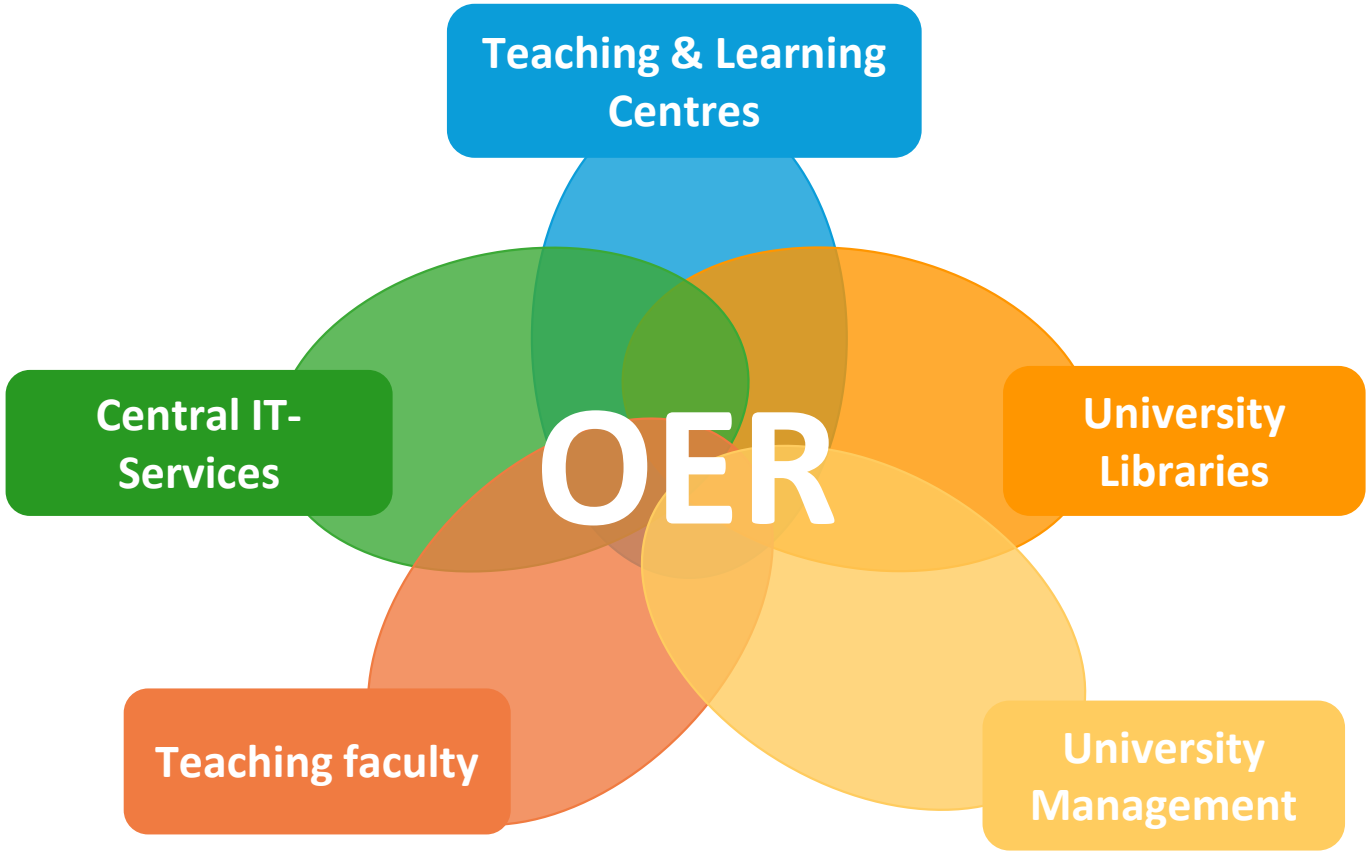


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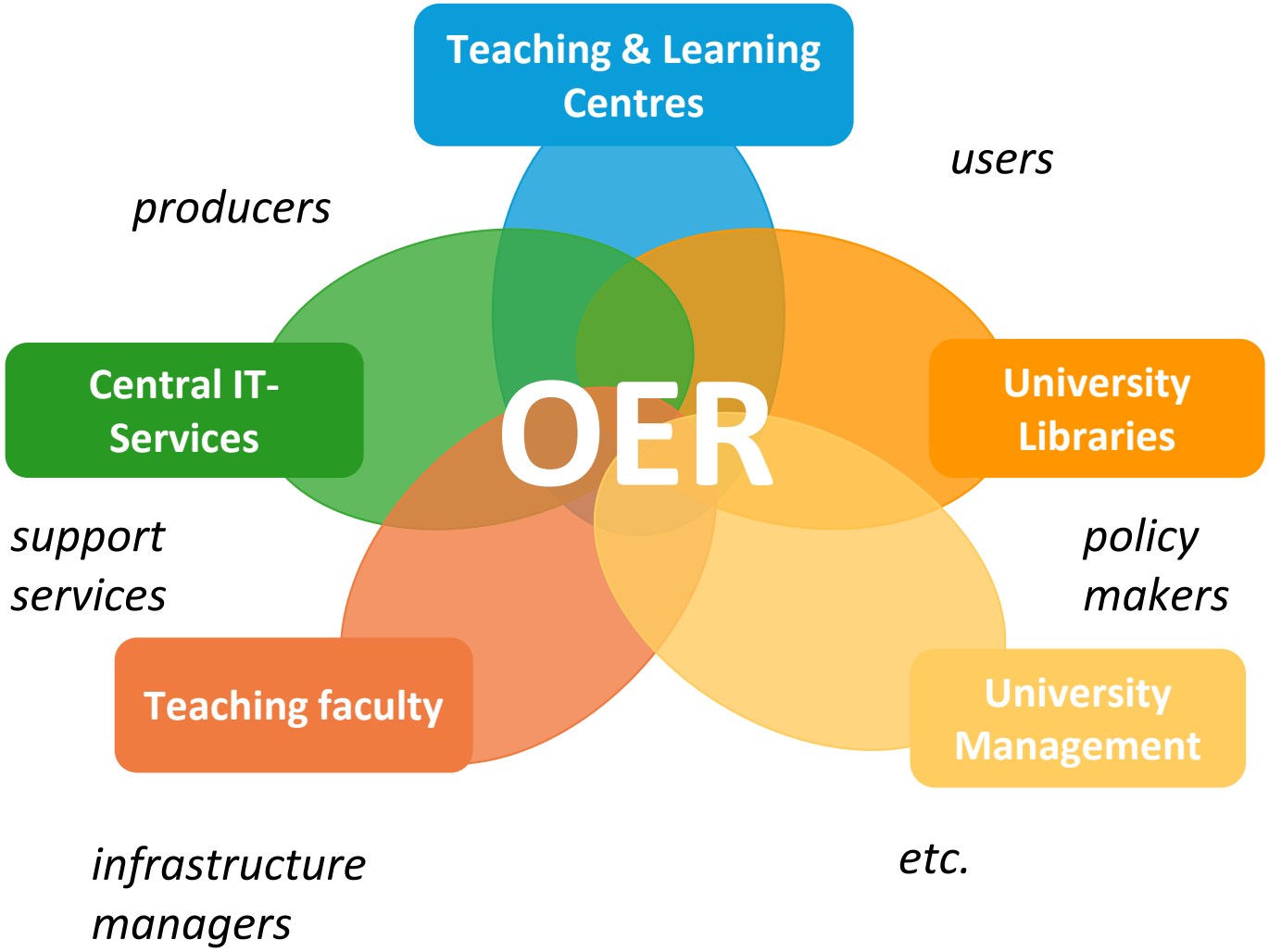


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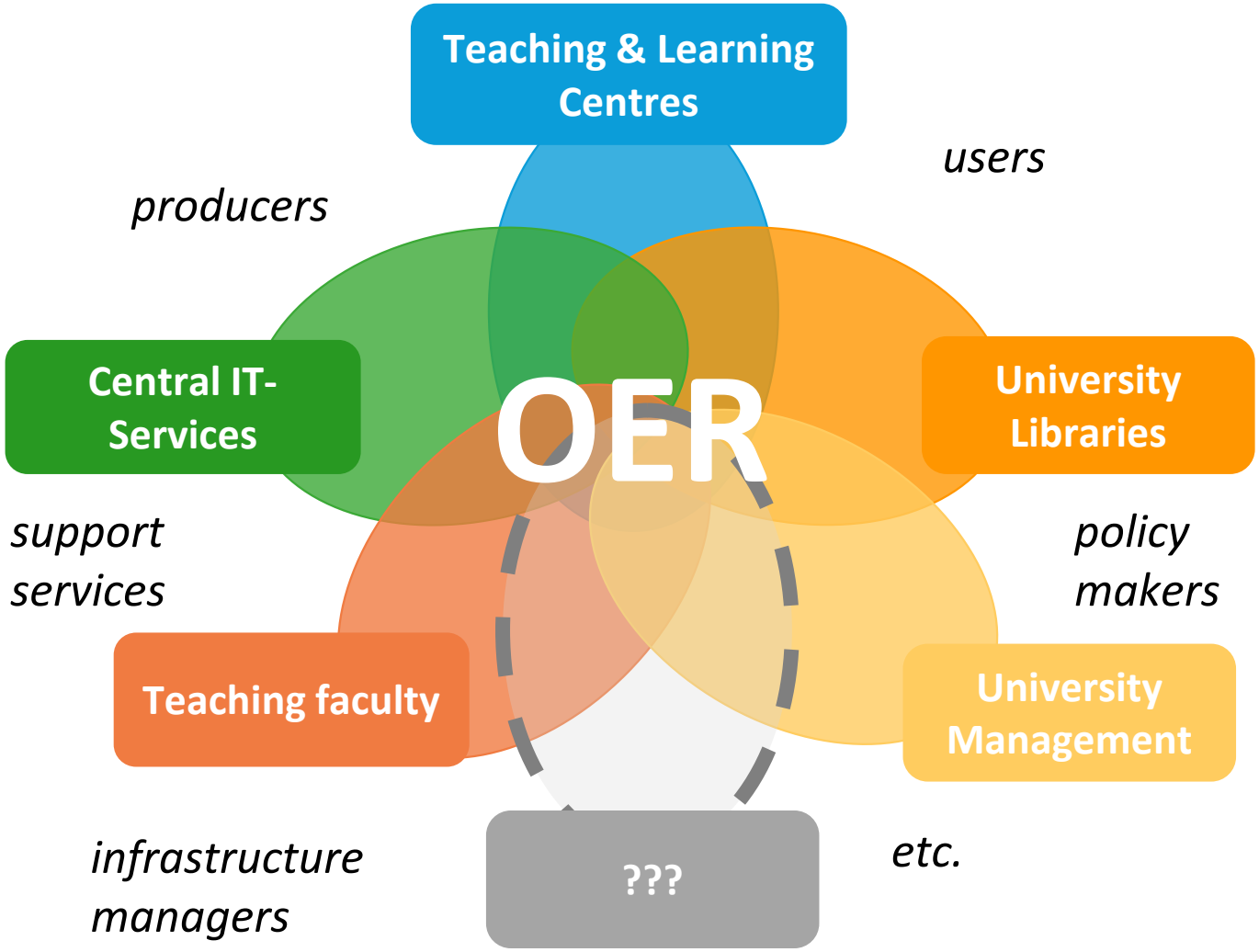


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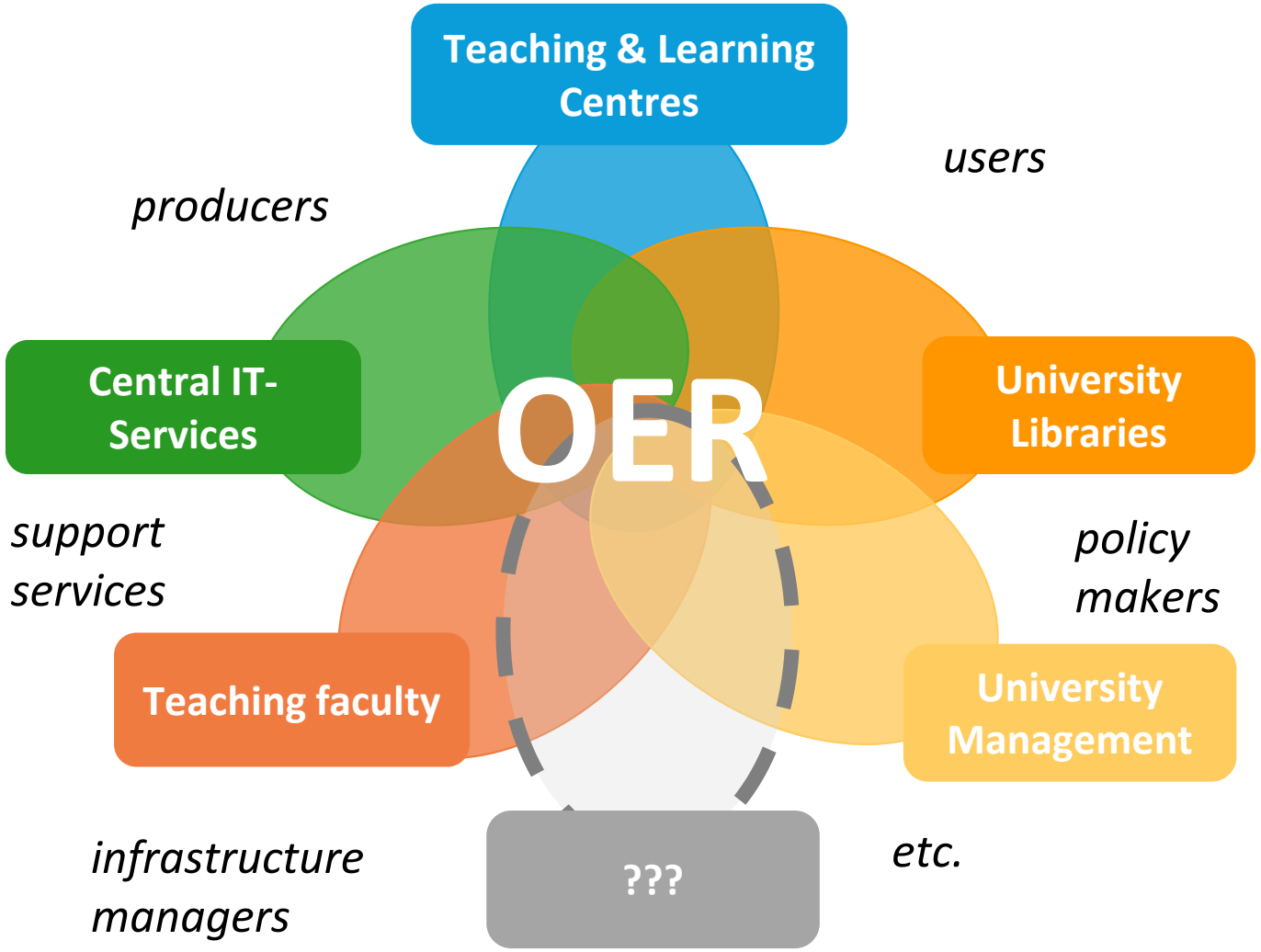


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**Understanding OER Requirements Across All Stakeholders When Working With OER Infrastructure, e.g., Repositories**

14. November 2024

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# Thank you!

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# Claudia Hackl

Center for Teaching and Learning, University of Vienna

- **Knowledge transfer** in the context of institutional anchoring of OER for the Austrian Higher Education Sector
- Focus: Identifying and exploiting **synergies** from Open Science and Open Education
- Projectmanagement **Open Education Austria Advanced**
- Part of the **Digital Teaching** Team of CTL, Uni Vienna
- Professional and academic background at the **interface of Computer Science, Didactics and Library & Information Studies**

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