



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





Open Educational Resources (OER)





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)





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





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





Institutional Anchoring of OER in higher education



At the interface of

Center for Teaching and Learning



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Central
IT-Services

OER

University
Library



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University of Vienna, Austria

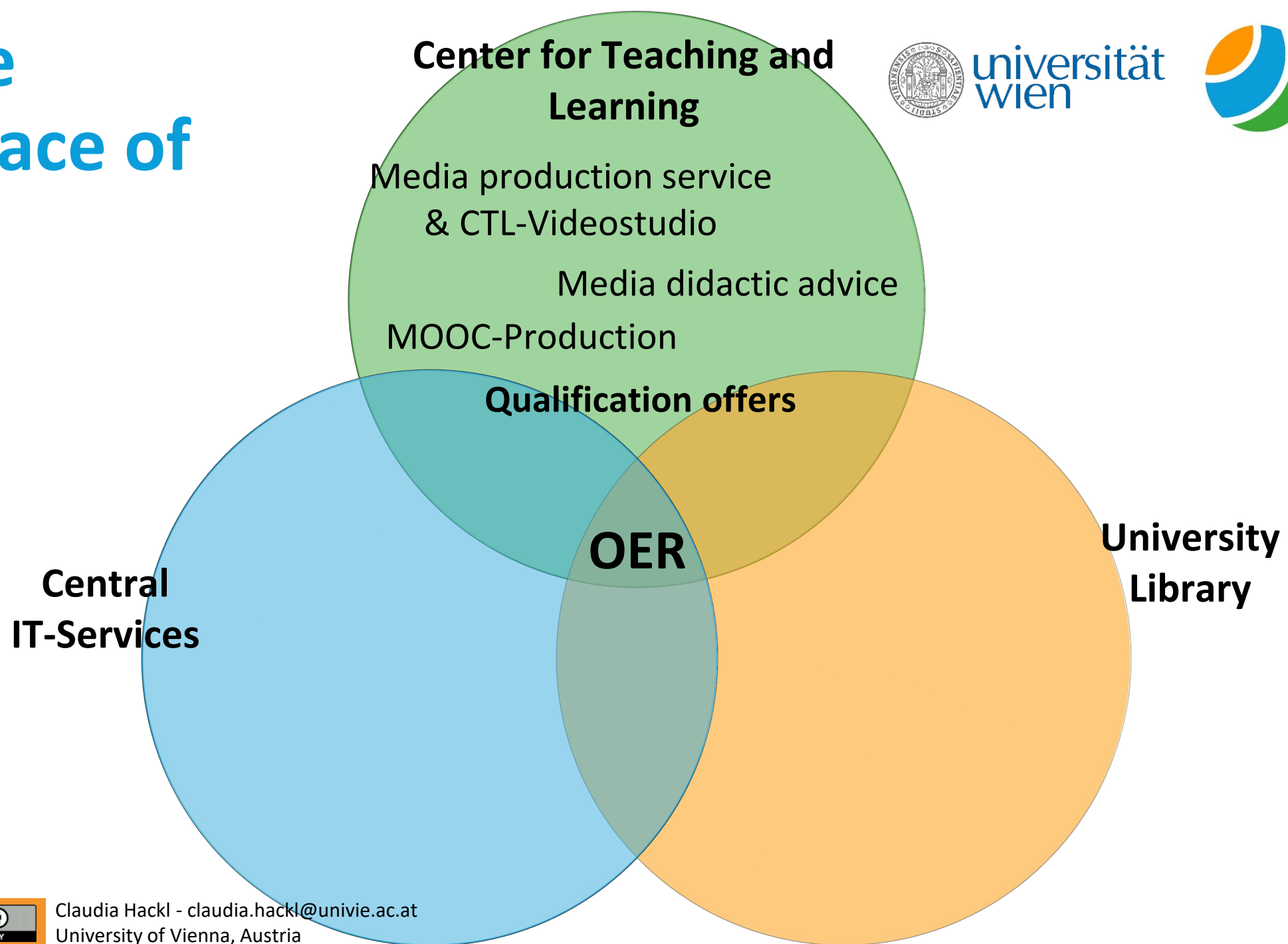
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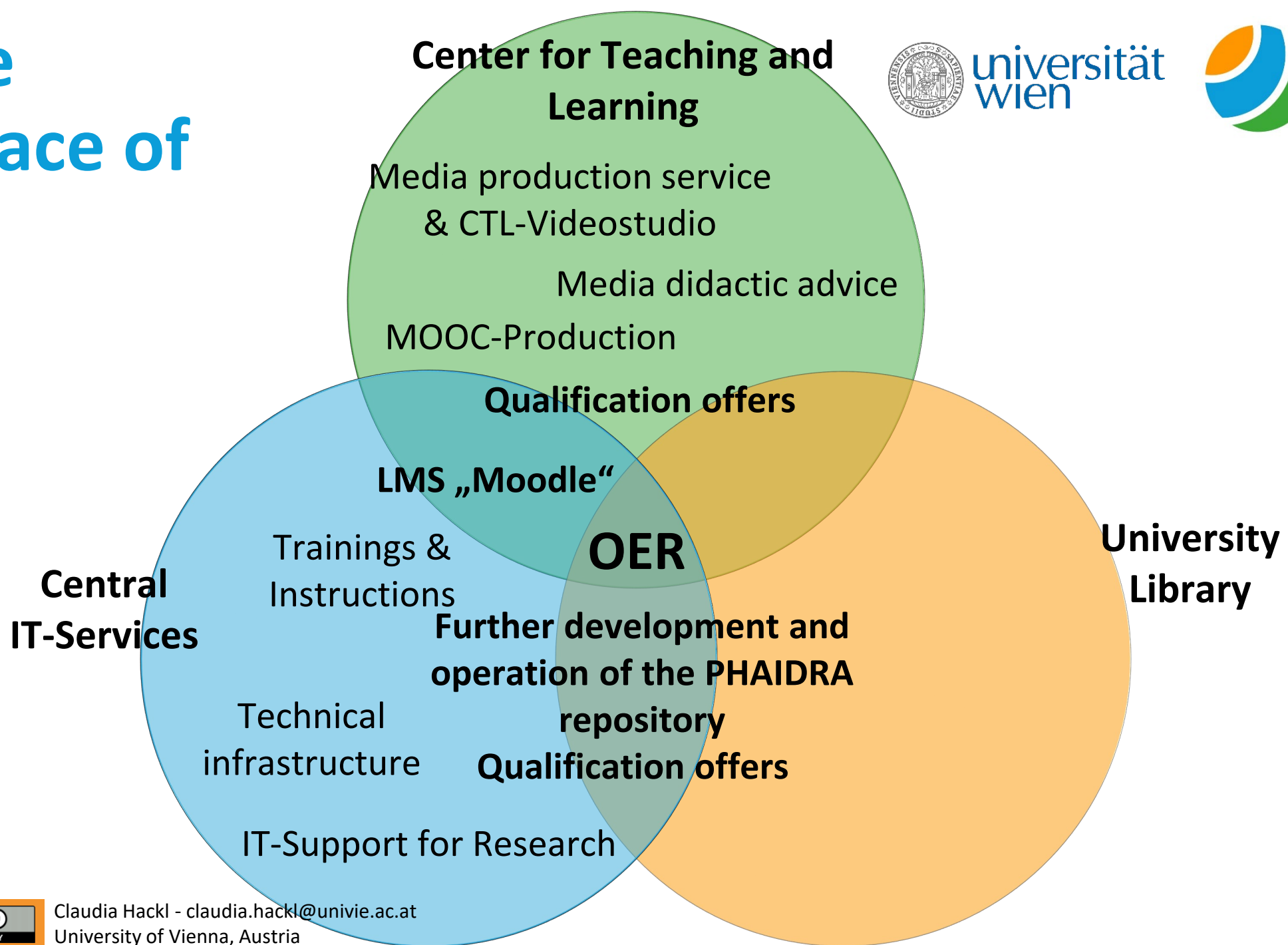
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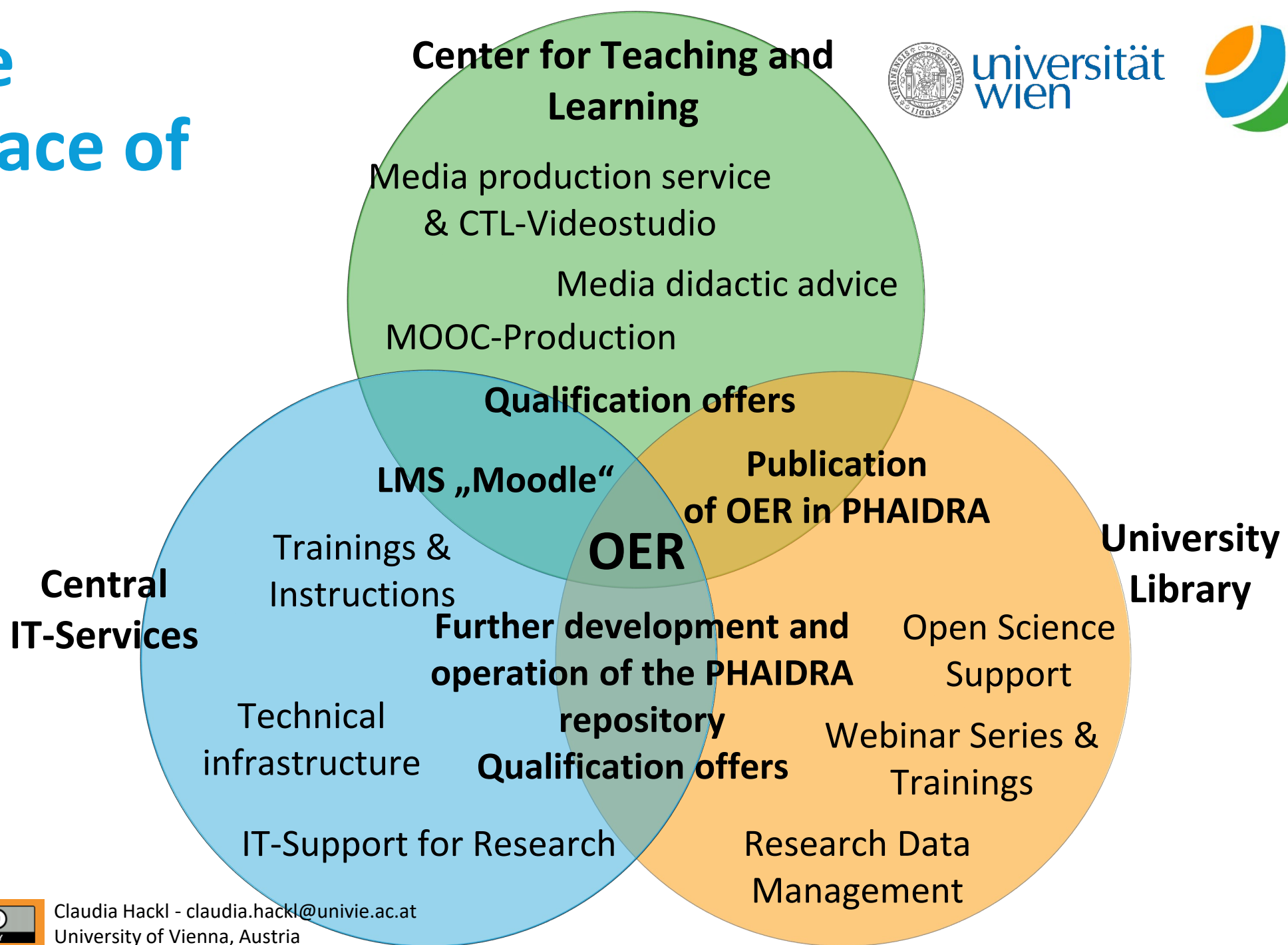
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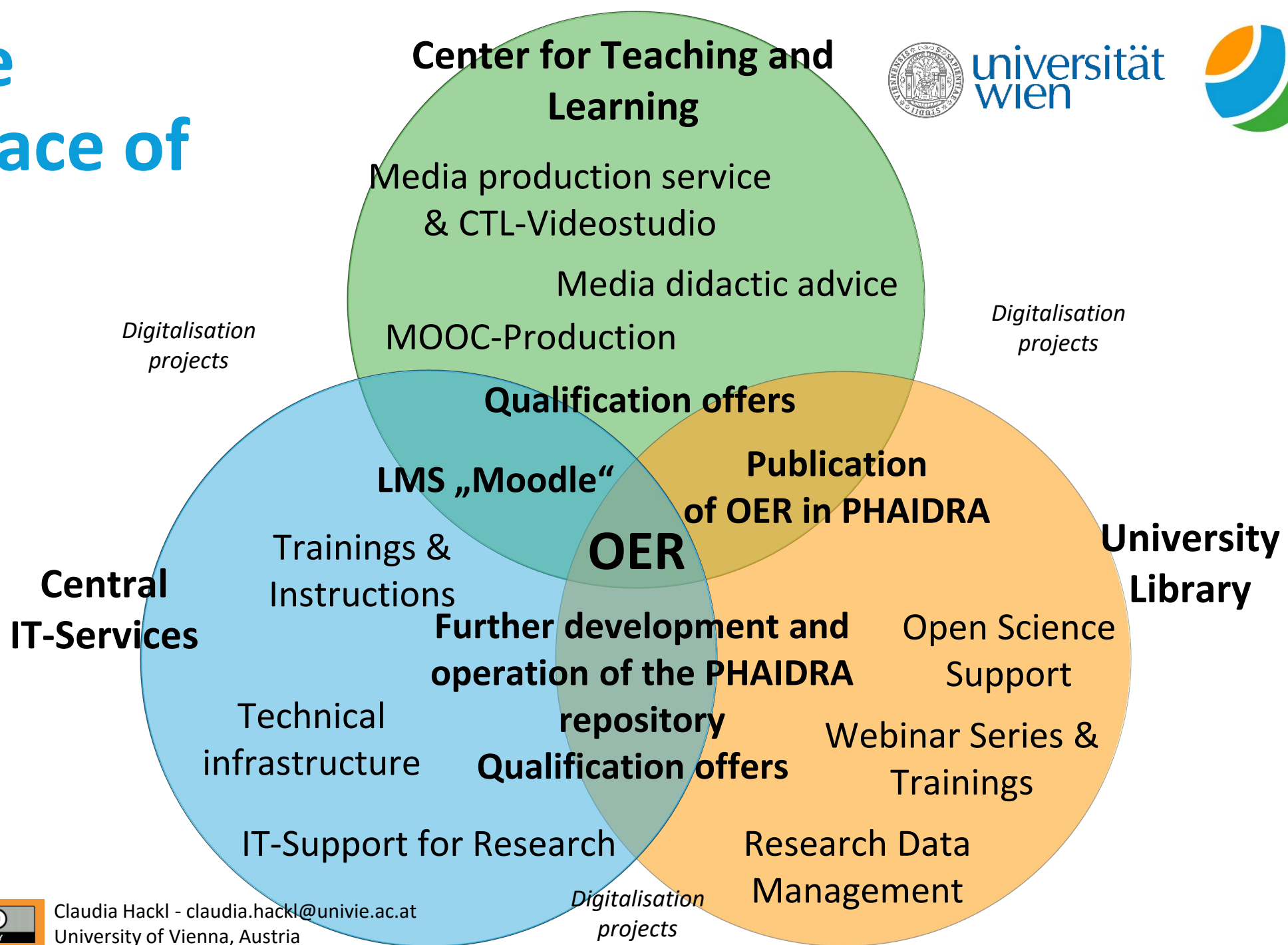
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Open Policies at the University of Vienna

- Open Access Policy since 2014

openaccess.univie.ac.at

- Research Data Management Policy since 2021

rdm.univie.ac.at

- OER Policy since 2024

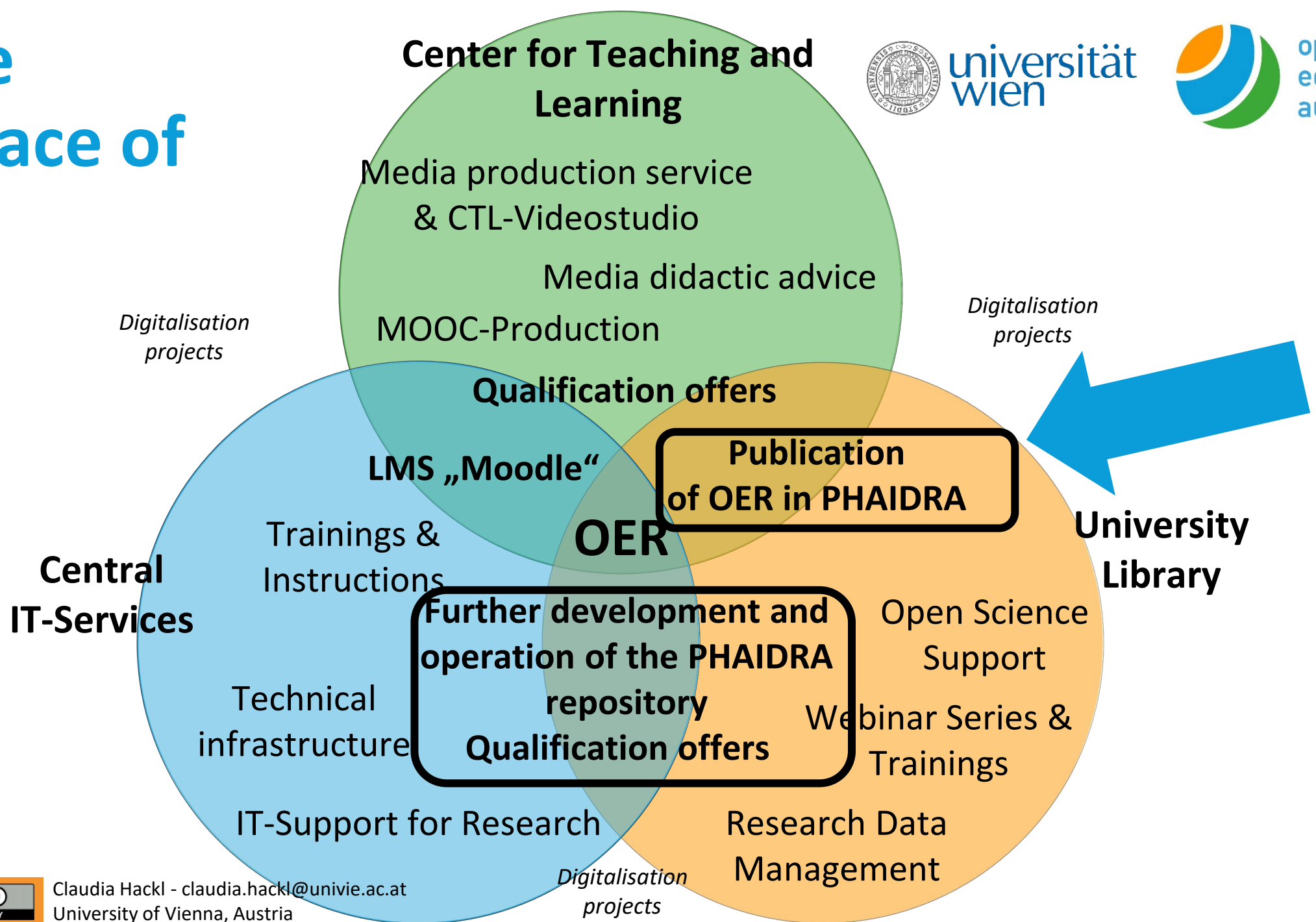
oer.univie.ac.at



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Examples: OER in PHAIDRA



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

You are here: ▶ Universität Wien ▶ PHAIDRA ▶ Search ▶ Detail o:1405231

Meilensteine für den Klimaschutz

- 1992: Klimarahmenkonvention der Vereinten Nation (UNFCCC)
- 1997 / 2005: Kyoto-Protokoll zur Ausgestaltung der Klimarahmenkonvention



01:56 / 07:30    1x     

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 |

[Open in new window](#)

eng |   Login

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

You are here: ▶ University of Vienna ▶ PHAIDRA ▶ Search ▶ Detail o:2046098

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.



Open in new window

Citable links

Persistent identifier

<https://phaidra.univie.ac.at/o:2046098>

Handle

<https://hdl.handle.net/11353/10.2046098>

Content

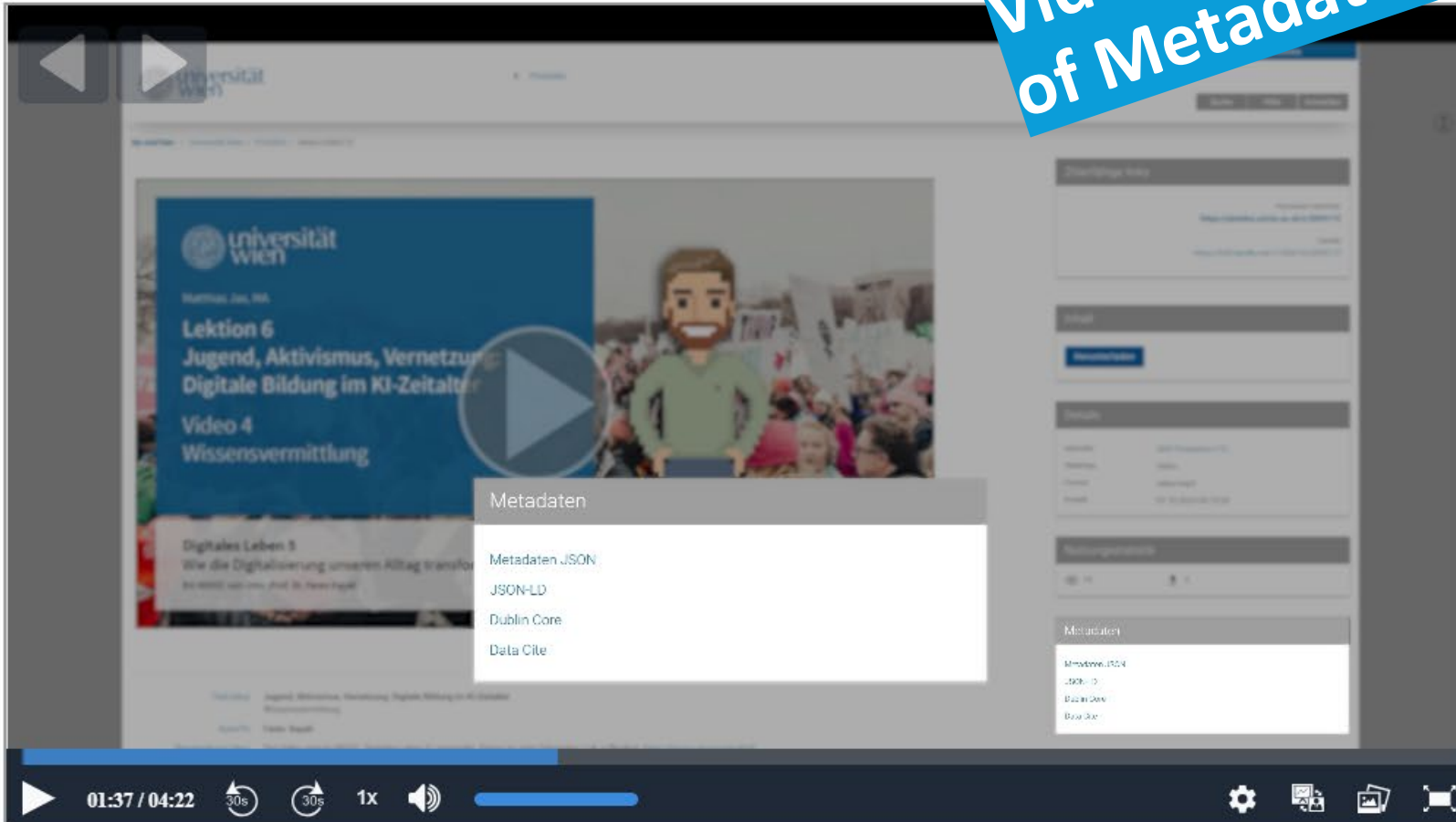
Download

Details

| | |
|-------------|--------------------|
| Uploader | OER-Produktion CTL |
| Object type | PDFDocument |
| Format | application/pdf |

Video on the Explanation of Metadata in PHAIDRA

You are here: ► University of Vienna ► PHAIDRA ► Search ► Detail o:2103819



The video player displays a lecture slide with the following text:

- universität wien
- Mathias Jax, MSc
- Lektion 6
- Jugend, Aktivismus, Vernetzung
- Digitale Bildung im KI-Zeitalter
- Video 4
- Wissensvermittlung

A metadata menu is overlaid on the video, listing the following options:

- Metadaten
- Metadaten JSON
- JSON-LD
- Dublin Core
- Data Cite

The video player controls at the bottom show a progress bar at 01:37 / 04:22, a 30s rewind button, a 30s fast forward button, a 1x speed control, and a volume icon.

Citable links

Persistent identifier
<https://phaidra.univie.ac.at/o:2103819>

Handle
<https://hdl.handle.net/11353/10.2103819>

Content

[Download](#)

Details

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

[Open in new window](#)



How to archive OER in PHAIDRA



Search

Upload

My objects

Object lists

Groups

Help

Logout

You are here: ▶ University of Vienna ▶ PHAIDRA ▶ Upload

 **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

Learning **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





How to find OER in PHAIDRA / OERhub



Search

Upload

My objects

Object lists

Groups

Help

Logout

You are here: ▶ University of Vienna ▶ PHAIDRA ▶ Search

klimawande|



91 objects

<

1

2

3

4

5

6

7

8

9

10

>



Klimawandel MOOC (KliMO): Wissenschaftliche Grundlagen

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.

27.11.2023



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



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 |
| Uploaded on: | 17.12.2021 |
| Discipline: | Glaciology; Erosion; Climate change |
| Resource: | Video |
| Language: | German |

mp4

[📄 Copy link source](#)[🔗 phaidra.univie.ac.at](https://phaidra.univie.ac.at)

Metadata

[📄 Export as JSON](#)



How to find and integrate OER in LMS



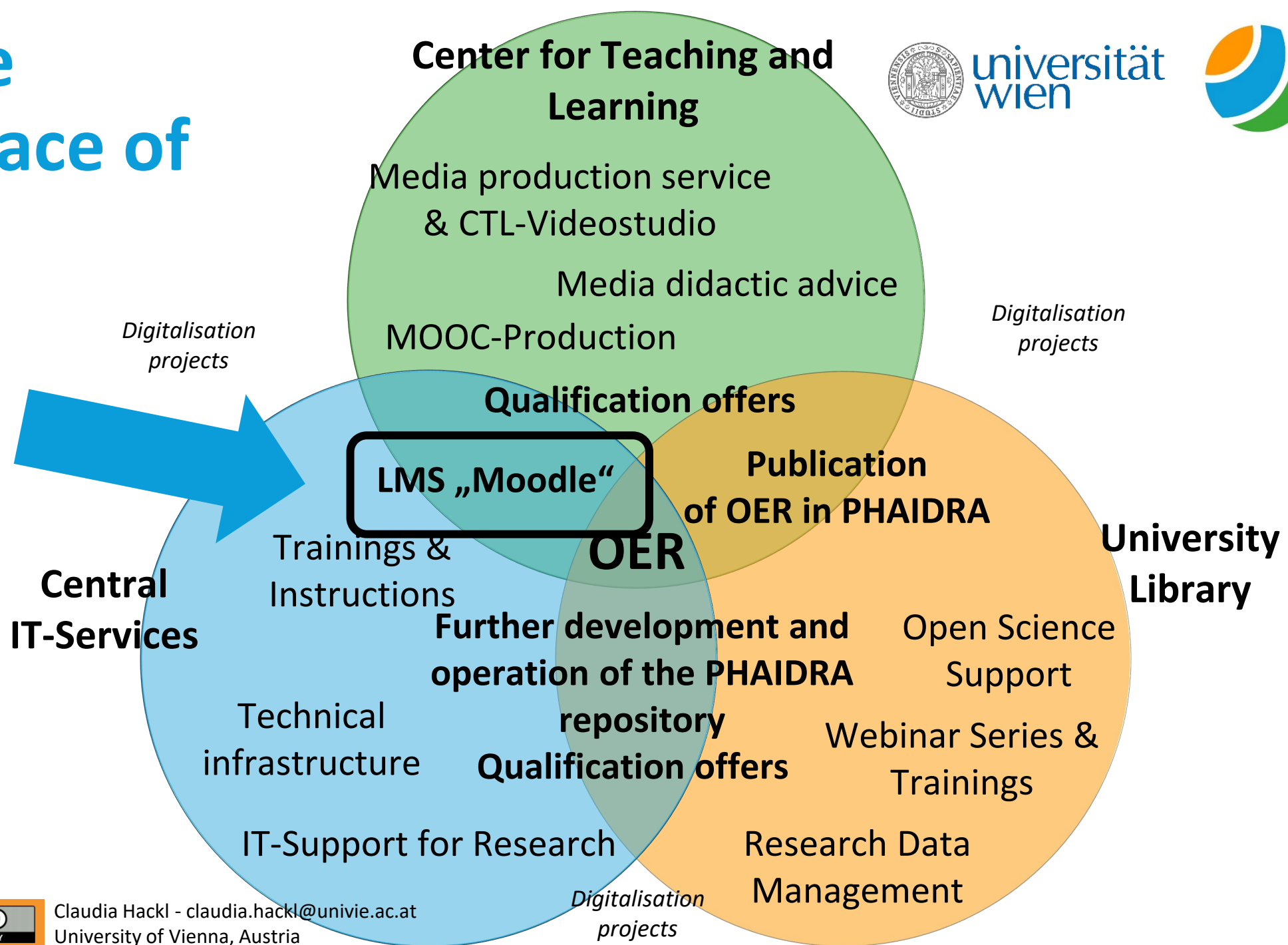
At the interface of








































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All Activities Resources

| | | | | | |
|--|---|--|--|--|---|
|  Assignment ☆ ⓘ |  Attendance ☆ ⓘ |  BigBlueButton ☆ ⓘ |  Book ☆ ⓘ |  Certificate ☆ ⓘ |  Chat ☆ ⓘ |
|  Checkmark ☆ ⓘ |  Choice ☆ ⓘ |  Consentform ☆ ⓘ |  Database ☆ ⓘ |  Etherpad ☆ ⓘ |  Fair Allocation ☆ ⓘ |
|  Feedback ☆ ⓘ |  File ☆ ⓘ |  Flashcards ☆ ⓘ |  Folder ☆ ⓘ |  Forum ☆ ⓘ |  Glossary ☆ ⓘ |
|  Group tool ☆ ⓘ |  H5P ☆ ⓘ |  Lesson ☆ ⓘ |  Moodleoverflow ☆ ⓘ |  OER Collection ☆ ⓘ |  Offline quiz ☆ ⓘ |
|  Organizer ☆ ⓘ |  Page ☆ ⓘ |  PDF Annotation ☆ ⓘ |  Photo gallery ☆ ⓘ |  Questionnaire ☆ ⓘ |  Quiz ☆ ⓘ |
|  Student folder ☆ ⓘ |  Text and media area ☆ ⓘ |  URL ☆ ⓘ |  Wiki ☆ ⓘ |  Wordcloud ☆ ⓘ |  Workshop ☆ ⓘ |
|  Zoom meeting ☆ ⓘ | | | | | |



„OER Collection“ Moodle Plugin

2014S 300325-1 Topics of Climate Change

Course details, information, time & date (u:find)

Course Settings Participants Grades Reports More ▾

 OER-Collection on Climate Change

KiIMO - Gletscher und Klimawandel



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



Author: Thomas Glade

Upload date: 2021-12-17

CC-BY-SA-4.0

Learning Outcome Learn about glaciers and climate change.

KiIMO - Klimawandel im gesamtgesellschaftlichen Kontext



Das Video wird im MOOC „Klimawandel MOOC (KiIMO): Wissenschaftliche Grundlagen“ verwendet. Dieser ist unter folgendem Link auffindbar: <https://imoox.at/course/KiIMO> KRELLBERG, K. (2021): Klimawandel im gesamtgesellschaftlichen Kontext. – In: GLADE, T. (Hrsg.): Klimawandel MOOC (KiIMO): Wissenschaftliche Grundlagen. iMooX; online unter:



Author: Thomas Glade

Upload date: 2021-12-17

CC-BY-SA-4.0

Relevant for final exam This video in particular is relevant for the final exam taking place at the end of the semester. Especially look out for concepts explained by the speaker in the video in preparation for the exam.



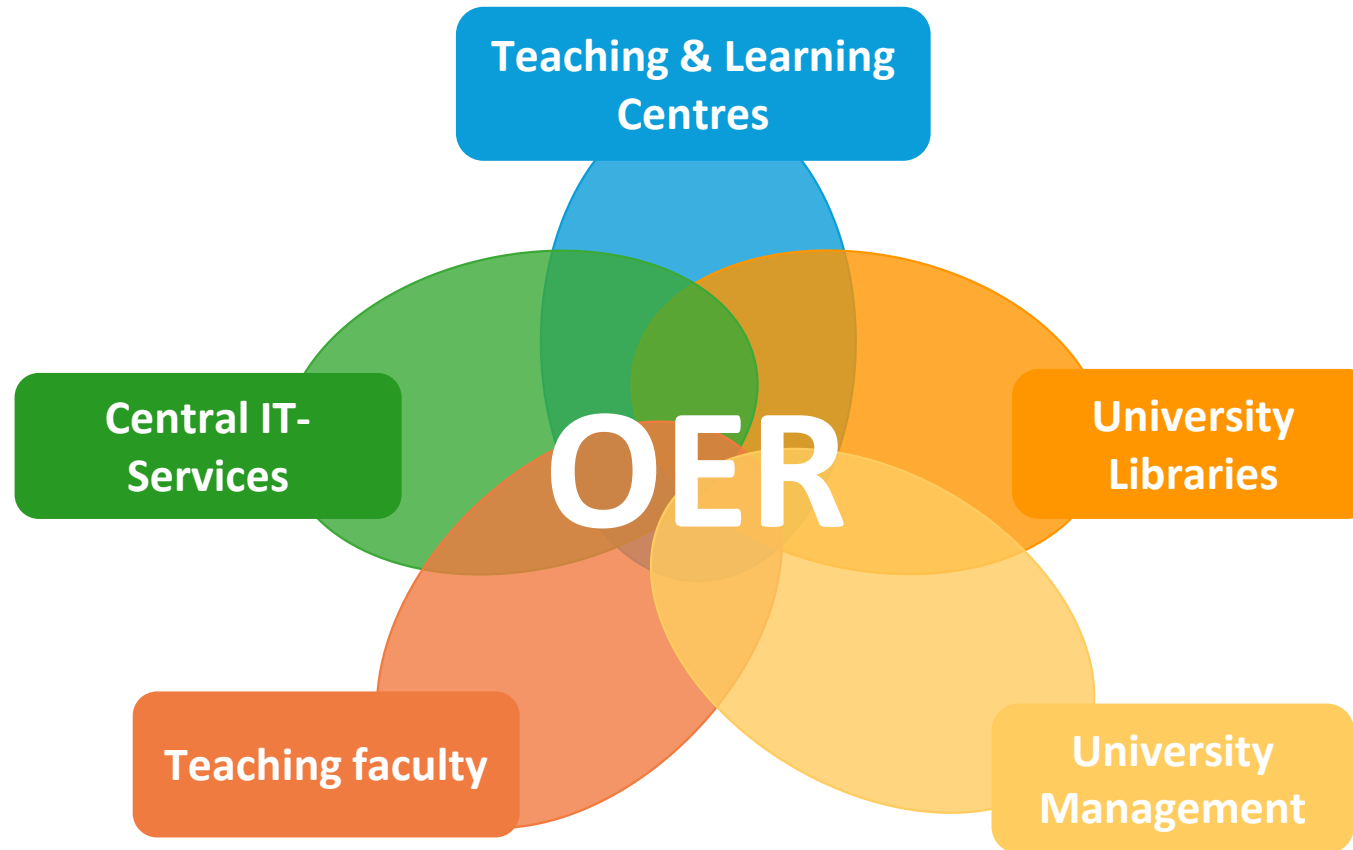
„OER-Collection“ Moodle Plugin





OER Requirements for OER Infrastructure







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





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





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





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





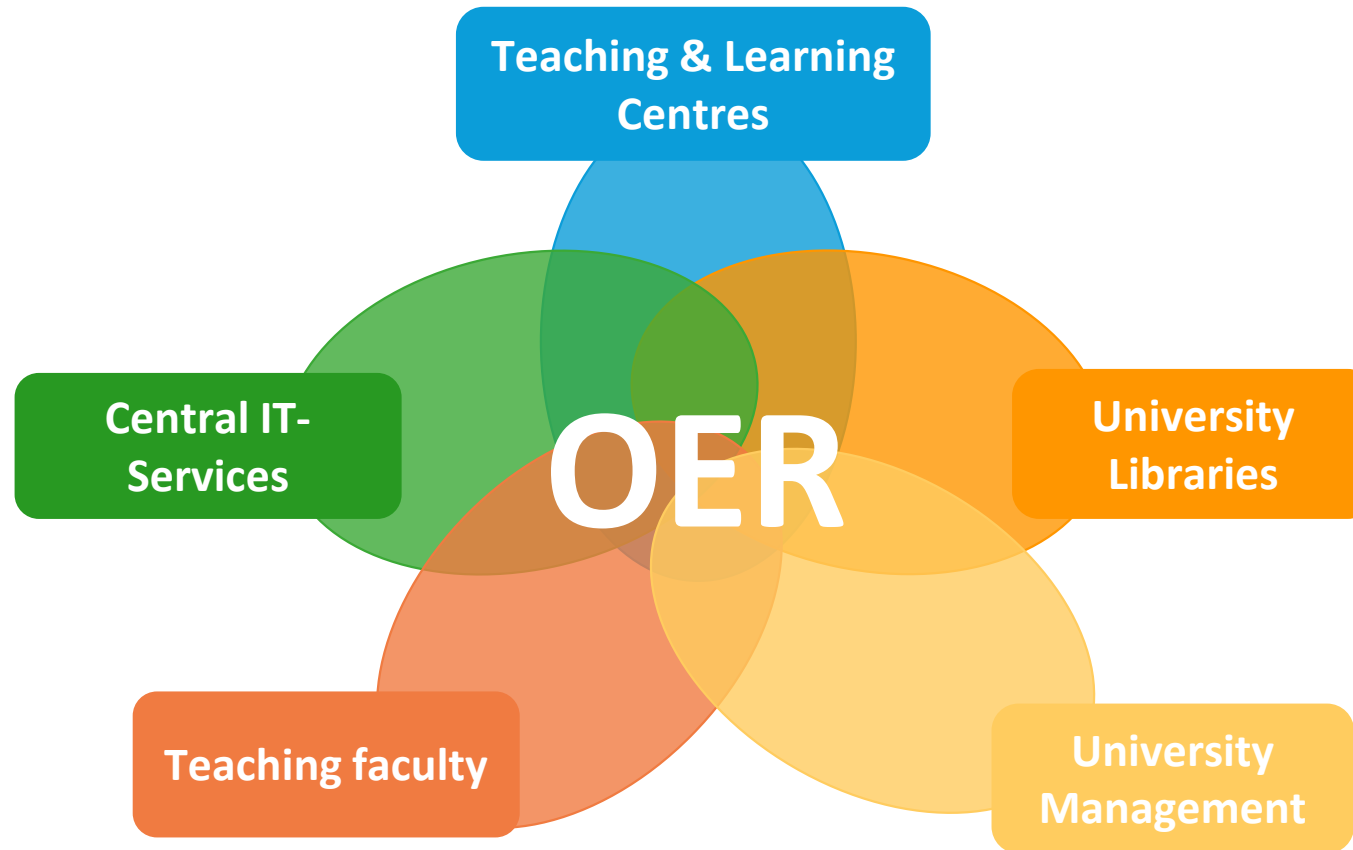
OER from an “institutional” point of view

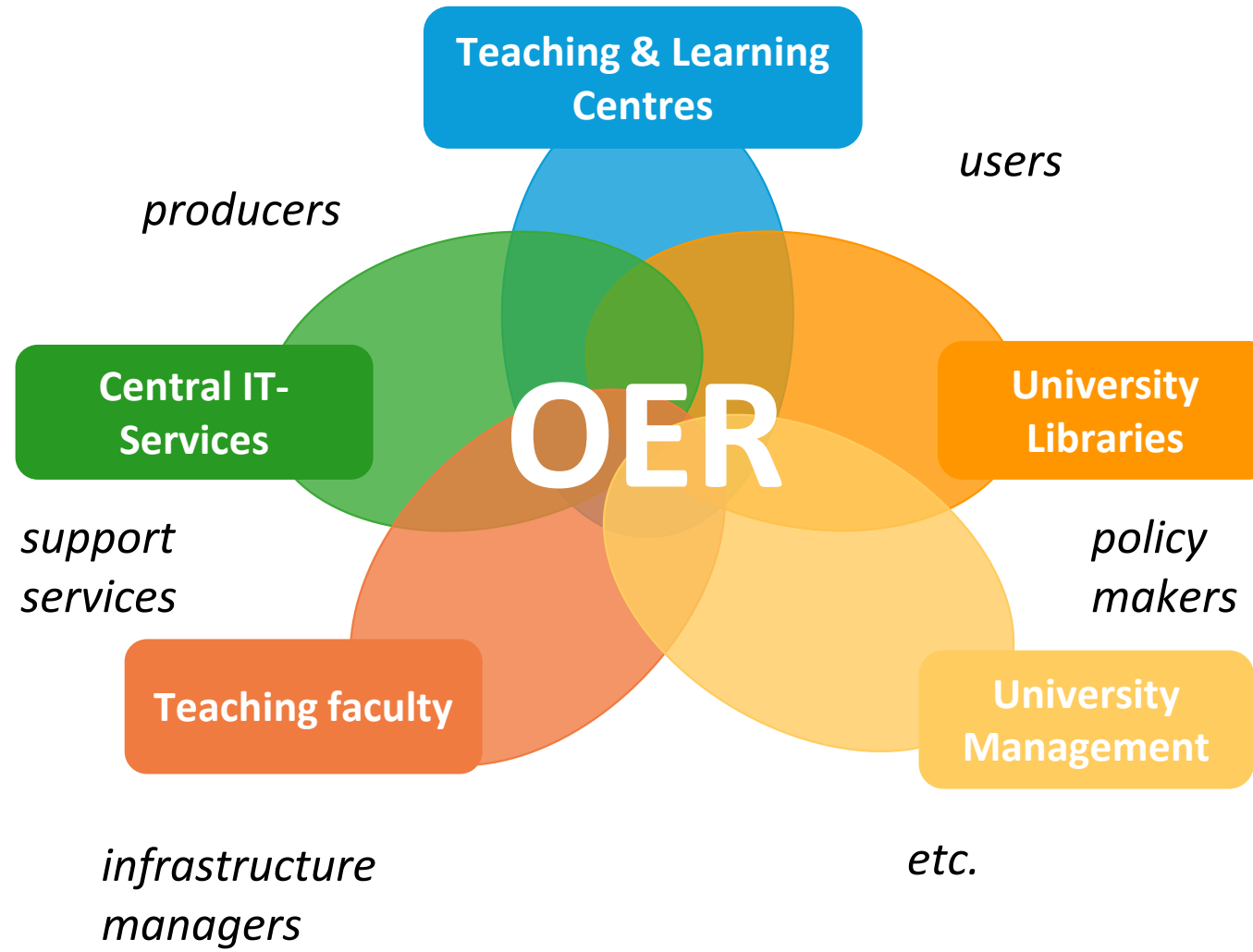
University
management

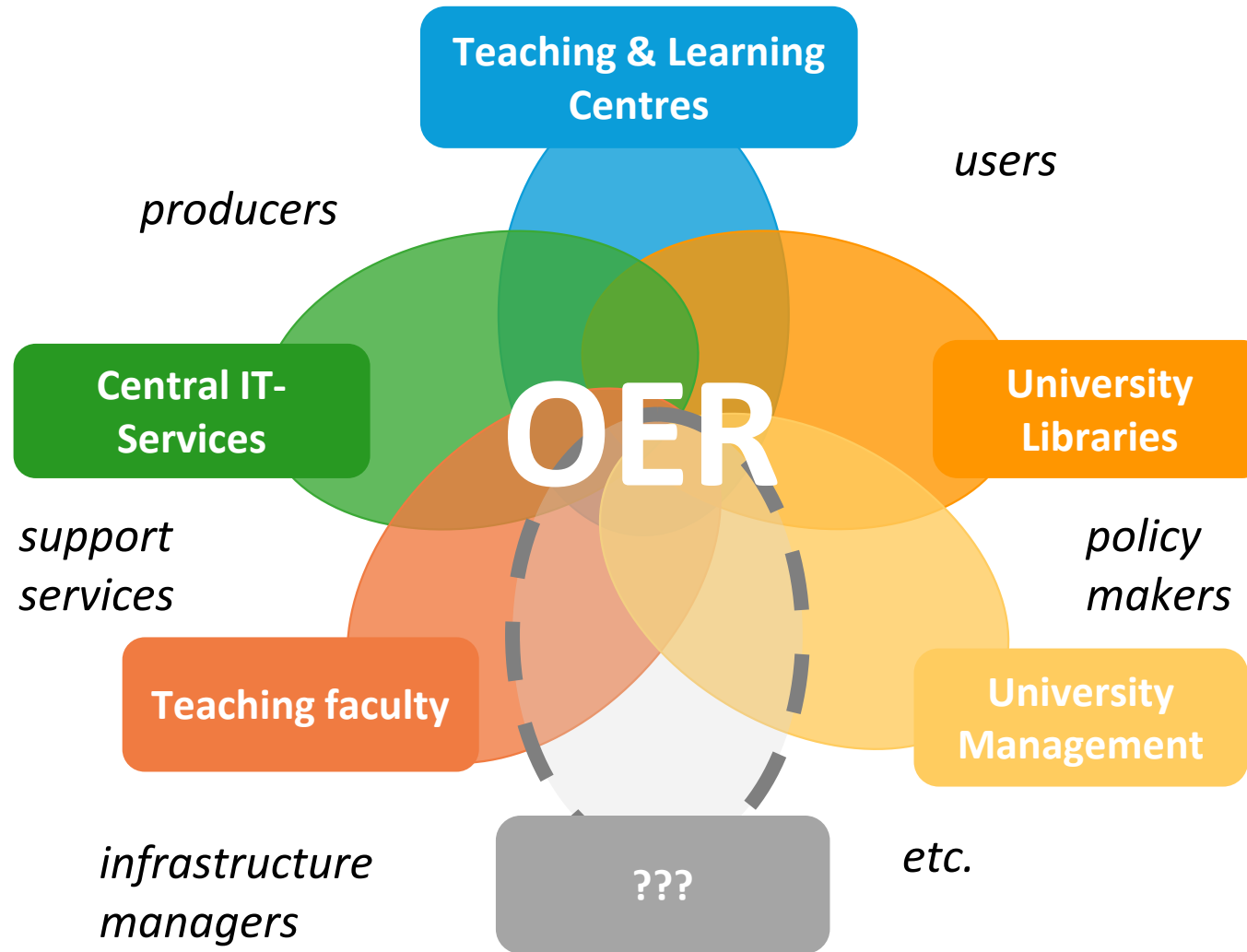
Requirements

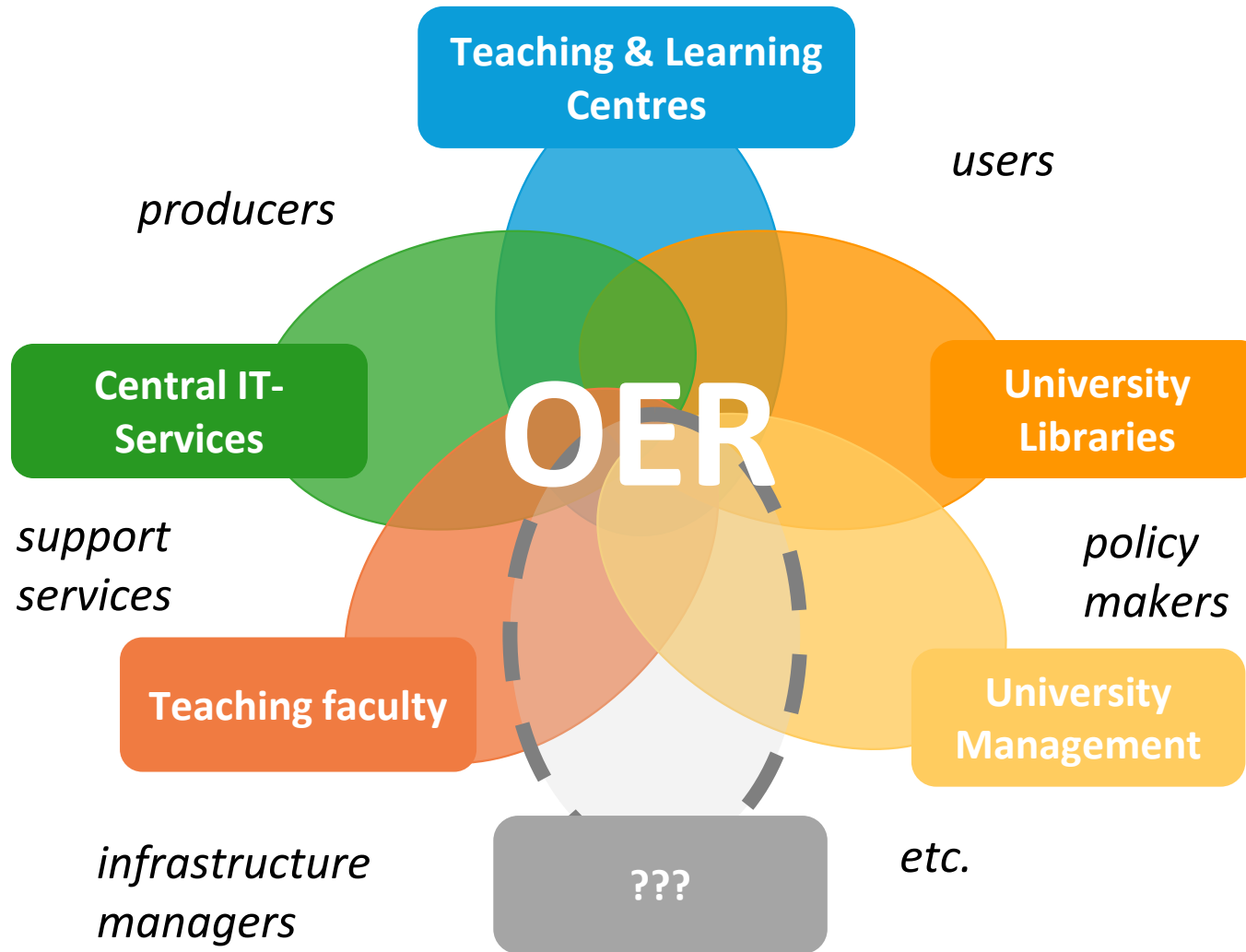
- Strategies: Demonstrate contribution of OER to achieving goals
- OER services: break down organizational barriers, promote cross-departmental cooperation
- Address staff in their role as researchers AND teaching faculty
- Encourage OER, provide incentives
- Promote integration of OER of different granularity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











**Understanding OER Requirements
Across All Stakeholders
When Working With OER Infrastructure,
e.g., Repositories
14. November 2024**

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Open Education Austria Advanced

www.openeducation.at





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**

