



OPEN SOURCE TECHNOLOGY (LEARNING PLATFORM) & OPEN ACCESS RESOURCE (OER) REPORT

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1 INTRODUCTION

This report presented an evaluation of two key elements of the LEAD 3.0 project development. Developed by Coventry University and Gruppo Pragma in line with their respective educational expertise.

Firstly an evaluation of the most diffused and tested open resource learning platforms to establish the strengths and weaknesses of each, in order to make an informed decision as to which most effectively meets the needs of the project. The report will present an initial list of platforms available and then narrow this search down with a presentation of their varied functionalities.

The second half of the report presents a categorization of the Online Learning Resource (OER) repositories. At this current stage of the project a definitive taxonomy of E-Leadership skills is yet to be confirmed, therefore a presentation of the OER repositories available gives an indication towards the next steps available in the development of the LEAD3.0 Academy. The repositories take into account a varied mix of learning resources that supply a mixed range of pedagogic approaches.

2 DIFFUSED AND TESTED LEARNING PLATFORMS

The following list of learning platforms was established from research into the use of learning platform on a global market by the most recognized MOOC providers and academic institutions. Many of these platforms are used by international organisations, that have shown that each can support high levels of users and the functionality require by each institution.

- Moodle
- Open EdX
- Sakai
- CourseSites (Blackboard derivative)
- Latitute Learning
- Dokeos
- E-Front
- Schoology
- ILIAS

The criteria to derive this list included:

- Collation of online reviews
- Prestige of current host organisations
- Flexibility of resource
- Licensing cost

3 DETAILED ANALYSIS

The listed platforms have their own unique advantages and disadvantages such as cost and platform flexibility, however some stand out amongst the others, which will be discussed below.

3.1 Moodle

As a learning platform, Moodle is the name that appears significantly in a many academic intuitions globally. However this is not to say that it is the perfect platform, and therefore needs to be compared with the other Learning Platforms's available to make an informed decision for the Design process of the Le@d Academy.

Currently Moodle estimates that tens of thousands of Moodle based sites have been established around the world, however no definitive figure can be derived due to its open source nature. It is not just used within the education sector either. Multiple industries use the platform to deliver training programs to employees of all occupations from pilots to healthcare.

3.1.1 Functionalities

- Collaborative tools – This is vital for the Web 3.0 experience of learning as unlike the one way educational system seen within academia for hundreds of years. This tools will allow for a free flow of knowledge and learning between multiple students and the trainers.
- Web conferencing – Communicating with fellow learners and facilitators is an effective method to enhance learning, and therefore the fact that Moodle supports plugins for this functionality.
- Personalised dashboard – The bespoke learning environment allows users to be given a personalised experience.
- Pre-programmed plug in applications – Moodle comes pre-programmed with multiple applications such as Helix, Turnitin, Quiz, Hot Potatoes and more. Each provide trainers the ability to test and develop the discussion within the topic, through quiz's that require full marks before it unlocks the next task; forcing the student to participate.
- File management – Provides users and trainers the ability to store resources on the Moodle servers that can easily be shared with others. The platform also enables trainers to embed HTML widgets such as YouTube videos and much more into the main page.
- Comprehensive module editing tools – Once uploaded to Moodle, materials can be pre loaded to allow for scheduled release of materials either by date or

by completion of tasks. Allowing users to complete a module at their own pace or giving the trainer the ability to drip feed the material out to students and force contemplation of the materials.

- Activity tracking – student engagement is one of the biggest issues in academia. Whilst once students would be tracked through in class attendance, now Moodle allows for trainers to monitor the level of engagement of their students and potentially provide additional support and encouragement to those students not engaging.

3.1.2 Third Party Reviews

Whilst the integrity of third party reviews cannot be guaranteed, they do provide a useful overview of how others have used the system and their experiences. The following bullet points discuss the key findings of these reviews.

- Moodle has been highlighted as being complicated to establish in the initial phase of its use. It requires an intermediate level of learning technology experience to set up processes that the trainers and educators can manipulate more freely during regular usage.
- The tracking of user engagement is very detailed within Moodle, with specific details being available of the files that users have opened and the pages they have viewed. However there are still some holes within this monitoring, in that the duration of time spent on these tasks cannot be determined at this point. Users may have started the video playing, however this does not necessarily mean they watched it all and this cannot currently be verified by the system. The current solution to this is to test the knowledge being disseminated through tests, either simple multiple choice tests that can be automated or longer assignment that may be submitted through Turnitin to assess for potential plagiarism cases.
- The size of Moodles community provides organisations and individuals to share information and support in order to manipulate the system into the most effective tool possible. Despite the support available for the system, Moodle has been highlighted as being very difficult to understand by the initiated individual, therefore technical expertise would be important in the development of a platform designed to be bespoke.

3.2 Open edX

Is an open source platform that powers multiple learning platforms on the internet. Whilst the parent organisation edX works with numerous trainers to deliver free and paid for MOOC's, the Open edX platform can be used for other educational processes. The platform has an appropriate level of functionality currently, however developers are invited to further share developments for future users of the platform.

3.2.1 Functionalities

Accessibility – defined guidelines focus developers on providing a platform that is flexible enough to integrate with students with a wide range of learning requirements, from limited vision to dyslexia. The development of Open edX is guided by an open forum that states the development journey for subsequent versions.

Analytics – The ability to track students usage of the platform is essential for a number of reasons. Firstly to ensure consistent completions of the course, as well as the ability to understand the students journey through the platforms to identify teaching resources that are not well received by the users.

Mobile – The functionality of the Open edX platform is design in such as way to easily integrate onto mobile devices such as smartphones and tablets. Whilst this functionality has been established within the App Store with edX main course provided app, there are few other derivatives available, unlike Moodle.

Teaching & Learning Tools – The knowledge being transferred to students is only as good as the delivery method. Open edX provides a number of learning tools that integrates with other external plug-ins, but also allows trainers to assess students through the platform, with a continually expanding suite.

3.2.2 Third Party Reviews

PC Magazine have complimented Open edX on a number of key factors, however it also highlights a number of holes within its remit that are covered by a number of the other Learning platforms on the market.

3.3 Sakai

One of the other names in Learning Platforms (LP) that stand out within the market, Sakai offers a number of similarities to other competing LP's but also offers some stand out features that differentiate them. Whilst it is open source in function, only a select number of programmers are able to contribute to the development in order to keep it

regulated. The key functionalities of Sakai have been actively designed to work within academia rather than within a corporate structure.

3.3.1 Functionalities

- Unlike other platforms, Sakai runs using Java which has a number advantages, which include modular programs, platform independence and reusable code.
- Integration with Freemium cloud storage systems that include Dropbox and Google Docs/Drive
- Multi-lingual platform supporting 20 languages
- Web Conferencing – communication with fellow students and trainers can significantly enhance the learning process and Sakai supports its use within the platform.
- Built in quiz and assessment system – allows for continual testing of knowledge and understanding from learning resources provided.
- Announcements and forums – Allowing for easy communication between tutor and group, as well as group collaboration within activity.
- E-Portfolio platform – Interactive environment to allow students to reflect upon progress within activities and overall course structure. This process will be particularly important for the soft skill development process.
- Student Participation reports – As with many other learning platforms, the tracking of users is imperative to derive participation

3.4 Platform Summary Analysis

On further analysis of the three learning platforms discussed within this report, there is a great deal of similarities between them in terms of functionalities. The following table has been generated to compare the three platforms core functionalities and discuss the minor differences. Whilst there is not a platform that stands out significantly ahead of others, the table does suggest an appropriate route forward for the LEAD3.0 Academy.

	Moodle	Open EdX	Sakai
Pricing	Open Source	Open Source	Open Source (with some limited functionality)
Mobile Friendly	Original Andorid & iOS App	Optimised Website	Non Affiliated App
Analytics	Advanced user tracking	Advanced user tracking	Limited tracking functionality
Ease of Modification	Designed to give flexibility, but used by competitors in a number of cases	Derived from EdX MOOC system therefore not purpose built	Java based adds further complexity but gives additional functionality
Web Conferencing	Yes	Limited functionality	Yes
3rd Party Integration	Plugins: Turnitin, Helix, YouTube and standalone functional items	Not fully outlined within promotional material.	Dropbox & Google Drive integration

4 OER AND OER REPOSITORIES

Selection of OERs to be used in this project implies a preliminary analysis of the possible *sources* of these OERs that is what are called **OERs Repositories**.

In the following this analysis is performed, which, as explained in the following, takes into account also OCWs.

4.1 OERs vs OCWs

In the area of free or freely available on line courses and course materials there are a number of acronyms which are used and it is worthwhile to clarify their meaning in general and particularly their meaning in *THIS* specific project.

4.1.1 OER – Open Education Resources

There are various definitions of **Open Educational Resources (OER)**, the most common are:

- **The William and Flora Hewlett Foundation**¹
OER are teaching, learning, and research resources that reside in the public domain or have been released under an intellectual property license that permits their free use and re-purposing by others. Open educational resources include full courses, course materials, modules, textbooks, streaming videos, tests, software, and any other tools, materials, or techniques used to support access to knowledge
- **OECD (Organization for Economic Co-operation and Development)**²
digitised materials offered freely and openly for educators, students, and self-learners to use and reuse for teaching, learning, and research. OER includes learning content, software tools to develop, use, and distribute content, and implementation resources such as open licences
- **OER Commons**³
Open Educational Resources are teaching and learning materials that you may freely use and reuse, without charge. OER often have a Creative Commons or GNU license that state specifically how the material may be used, reused, adapted, and shared

A OER is thus *any* resource which can have instructional/educational usage and which is *open*, that is *free*, *freely reusable* (not for commercial purposes).

4.1.2 OCW – Open CourseWare

According to OCW Consortium, now Open Education Consortium, a **Open CourseWare** is defined as⁴:

¹ <http://www.hewlett.org/programs/education/open-educational-resources>

² OECD – "Giving Knowledge for Free: THE EMERGENCE OF OPEN EDUCATIONAL RESOURCES" – Center for Educational Research and Innovation – 2007

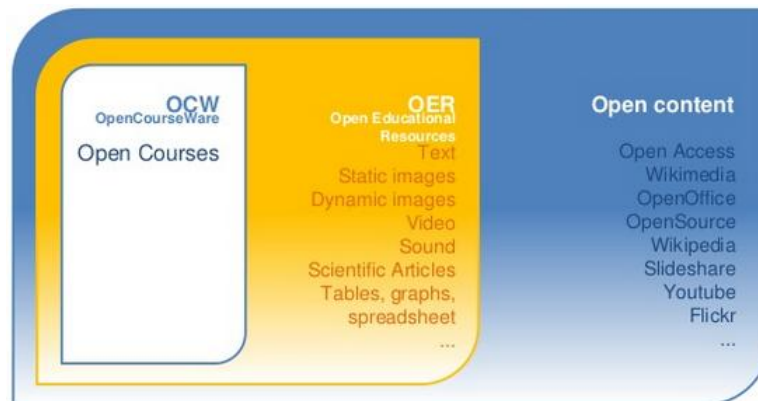
³ <https://www.oercommons.org/about#about-open-educational-resources>

⁴ <https://en.wikipedia.org/wiki/OpenCourseWare>

- is a free and open digital publication of high quality educational materials, organized as courses (often including course planning material as well as evaluation tools)
- is available for use and adaptation under an open license, such as certain Creative Commons licenses
- does not typically provide certification or access to faculty

4.1.3 OER and OCW in this project

Basically OCWs are a subset of OERs, as shown in the following picture⁵:



In Le@d3.0 Project our purpose is to identify educational resources freely usable to support Leadership development, so it does not really make much difference whether a resource is meant to be part of a University Course or not.

In fact there can be actually resources, defined as *Open Content* in the picture, which while not having an educational origin, nevertheless may be included in an educational activity.

In Le@d3.0, thus, we will use the term OER in broad sense to identify:

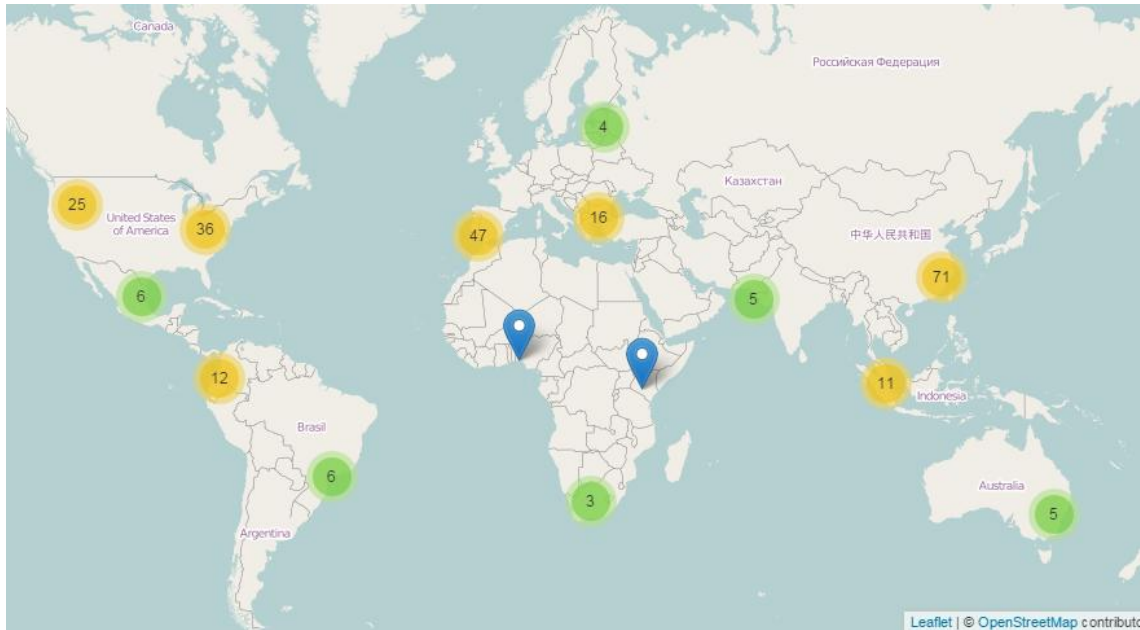
- **Teaching and learning material**, as well as **other content** not originally developed for instructional purposes, **freely available on line**
- Content is available for use and adaptation under an **Open License**

4.2 OER Scenario

There is a huge number of OER (and OCW) initiatives around the world. A quick glimpse of the diffusion of OER interest may be given by the map of members of the Open Education Consortium (former OCW Consortium)⁶

⁵ Stephanie Verbeken – <http://www.slideshare.net/stephanieverbeken/module-1-what-is-opencourseware> , adapted from Willem van Valkenburg <http://www.e-learn.nl/>

⁶ <http://www.oiconsortium.org/members/>



This map is absolutely not comprehensive, the number of initiatives is much greater.

4.3 OER Repositories

The huge number of OER (and OCW) initiatives around the world implies that the process of selecting OERs is by no means simple: there is the need to identify proper starting points for research of OERs. These starting points are usually referred to as **OERs Repositories**.

OER Repositories may be defined as “*digital databases that house learning content, applications and tools such as texts, papers, videos, audio recordings, multimedia applications and social networking tools*”⁷ and can be subdivided into two broad categories:

- **Content repositories**, that is “*repositories that store content on site exclusively follow a centralised model in which the learning objects are located on a single server or website*”⁸
- **Portal (aggregator) repositories**, that is “*portals that provide links to educational content provided by others. Many of them do house some content locally, but they are primarily aggregators of links*”⁹

Besides these categories also **OER Search Engines** have become quite widespread.

The classification of OER Repositories we are going to use is thus the following:

1. **University Content Repository**

OCW repositories managed by Universities or Business Schools

⁷ McGreal, Rory – Athabasca University - Canada “*Open Educational Resource Repositories: An Analysis*” – Proceedings: The 3rd Annual Forum on e-Learning Excellence – 2010

⁸ ibid

⁹ ibid

2. **Non University Content Repository**
OER repositories managed by other organizations, including providers assembling courses with materials from different sources
3. **Aggregator**
Aggregators/search portals, providing links to Content Repositories
4. **Non OER Repository**
repositories of Content, possibly Open, which might be useful for educational purposes

4.4 Repositories Selection Criteria

Being the number of OER Repositories very large and being our project focussed on a specific skill area, we need to define **selection criteria** to identify most suited repositories.

The criteria used are the following:

1. Repository **owner reputation**
2. Content available in **English and other EU languages**
3. Availability of content in subject areas of interest to the project, that is **Business Management, ICT, Economics**
4. Content available under **Creative Commons (CC) License** or similar (if possible. Some repositories are considered important and are included even if their content is NOT available under CC license)

5 SELECTION OF OER REPOSITORIES

For each of the identified Repository categories, in the following paragraphs a selection of OER Repositories is presented.

For each repository the following information are provided:

- Name: official name of repository
- URL: internet address of the repository
- Description: brief description of the repository
- Country: in which the repository is based
- Type of repository: according to the classification defined earlier
- Owner: organization owning and managing the repository
- Subjects: subjects covered by the repository
- Target: students targeted
- Searchable: whether the repository is searchable or not and how
- Organized: type of organization of content in the repository, if any
- OER Language(s): language(s) in which content is available
- OER type: media type
- License type: conditions for using the content

Among the repositories listed a few, specifically focused on Business and Management subjects, have their name highlighted.

5.1 University Content Repositories

Name	The Economics Network
URL	http://www.economicsnetwork.ac.uk/
Description	It aim to enhance the quality of learning and teaching throughout the Higher Education economics community
Country	UK
Type of repository	University Repository
Owner	University of Bristol
Subjects	Economics
Target	HE
Searchable	Only textual research
Organized	By topic and material type
OER Language(s)	English
OER type	Various
License type	Not specified in general, some material Creative Commons

Name	Open Learn
URL	http://www.open.edu/openlearn/
Description	Open Learn is the home of free learning from the UK's largest university, The Open University.
Country	UK
Type of repository	University Repository
Owner	Open University UK
Subjects	Various
Target	HE, FE
Searchable	Textual site search
Organized	By subject
OER Language(s)	English
OER type	Various
License type	Creative Commons, unless specified differently

Name	Open Courseware in Management
URL	http://opencim.grenoble-em.com/
Description	Collection of course material in management related subjects
Country	FR
Type of repository	University Repository
Owner	Grenoble Ecole de Management
Subjects	Management
Target	HE
Searchable	Textual search
Organized	Just a list of courses
OER Language(s)	French
OER type	Various
License type	Creative Commons

Name	Open Learning Initiative
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URL	http://oli.cmu.edu/
Description	The Open Learning Initiative (OLI) is a grant-funded group at Carnegie Mellon University, offering innovative online courses to anyone who wants to learn or teach. The number of courses available is quite low. Enrollment to classes needed to access resources
Country	US
Type of repository	University Repository
Owner	Carnegie Mellon University
Subjects	Various
Target	HE
Searchable	Textual on the site (not specific for OERs)
Organized	By course
OER Language(s)	English
OER type	Various
License type	Creative Commons

Name	Open Michigan
URL	https://open.umich.edu/
Description	Open.Michigan is a University of Michigan initiative that enables faculty, students, staff and others to share their educational resources and research with the global learning community
Country	US
Type of repository	University Repository
Owner	University of Michigan
Subjects	Various (in particular Health and Medicine)
Target	HE
Searchable	Textual with filters
Organized	By course
OER Language(s)	English
OER type	Various
License type	Creative Commons

Name	MIT Open CourseWare
URL	http://ocw.mit.edu/index.htm
Description	MIT OpenCourseWare (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity
Country	US
Type of repository	University Repository
Owner	Massachusetts Institute of Technology
Subjects	Various
Target	HE
Searchable	Textual
Organized	By subject
OER Language(s)	English, some translated in Spanish, Turkish, Portuguese, Korean, Chinese
OER type	Videos, notes
License type	Creative Commons

Name	Oxford Open Collections
URL	http://podcasts.ox.ac.uk/open
Description	The Open Course Library (OCL) is a collection of shareable course materials, including syllabi, course activities, readings, and assessments designed by teams of college faculty, instructional designers, librarians, and other experts.
Country	US
Type of repository	University Repository
Owner	Oxford University
Subjects	Various
Target	HE
Searchable	Textual
Organized	No
OER Language(s)	English
OER type	Mostly audio and video
License type	Creative Commons

Name	Free Education - Regenesys Business School
URL	http://free.regenesys.net/
Description	Regenesys Business School is a South African private higher education institution in South Africa with offices also in Mumbai and Lagos. Regenesys launched an initiative to make free education possible without subsidies through using the Freemium business model. The school has made its material available at no charge while only charging students to complete the assignment and examination modules of their core business programmes
Country	ZA
Type of repository	University Repository
Owner	Regenesys Business School
Subjects	Business Management
Target	HE
Searchable	No
Organized	By qualification
OER Language(s)	English
OER type	Mostly video
License type	Creative Commons

5.2 Non University Content Repositories

Name	Connexions (OpenSTAX)
URL	http://cnx.org/
Description	OpenStax CNX provides a variety of courses assembled using OERs
Country	USA
Type of repository	Non University Content Repository
Owner	Non profit organization, supported by: William & Flora Hewlett Foundation, Bill & Melinda Gates Foundation, 20 Million Minds

	Foundation, Maxfield Foundation, Open Society Foundations, and Rice University
Subjects	Various
Target	HE
Searchable	Yes, various criteria
Organized	By subject
OER Language(s)	English
OER type	Various
License type	Creative Commons

Name	Kahn Academy
URL	https://www.khanacademy.org/
Description	Khan Academy offers practice exercises, instructional videos, and a personalized learning dashboard that empower learners to study at their own pace in and outside of the classroom
Country	US
Type of repository	Non University Content Repository
Owner	Khan Academy
Subjects	Various
Target	Various
Searchable	Textual
Organized	By subject
OER Language(s)	Various
OER type	Mostly videos
License type	Mostly Creative Commons

Name	Saylor Academy
URL	https://learn.saylor.org/
Description	It offers courses assembled with OERs from various sources. Courses are peer reviewed
Country	US
Type of repository	Non University Content Repository
Owner	Saylor Foundation (legal name, The Constitution Foundation)
Subjects	Various, there is a quite large Business Management section
Target	Various
Searchable	Textual
Organized	By subject
OER Language(s)	Various
OER type	Various
License type	Creative Commons

5.3 Aggregator

Name	Academic Earth
URL	http://academicearth.org/
Description	Based in Houston (TX), Academic Heart is a portal allowing to access courses of US Universities. It provides a few <i>VideoElectives</i> and a few

	<i>Playlists</i> , in which courses from different Universities are used
Country	United States
Type of repository	Aggregator
Owner	CNM.com
Subjects	Art&Design; Business; Engineering; Humanities; Medicine&Health Care; Science&Math; Social Science; Test Prep
Target	Mainly HE students
Searchable	Textual
Organized	By Topic
OER Language(s)	English
OER type	Depends on University providing the content
License type	Depends on University providing the content

Name	Banco Internacional de Objetos Educacionais (International Database of Educational Objects)
URL	http://objetoseducacionais2.mec.gov.br/
Description	The Educational Repository is an online service for collecting, preserving and providing access to data of research publications and digital content worldwide produced
Country	Brazil
Type of repository	Aggregator
Owner	Brazil Government
Subjects	Various
Target	From CK12 to HE
Searchable	Country, Language, Level, Type of OER, ...
Organized	Education level; Title; Author; Subject;
OER Language(s)	Various, mainly Portuguese
OER type	Various
License type	Content is said to be in public domain or anyhow that has been negotiated to be freely used, copied, translated for EDUCATIONAL purposes It does not specify actually under which (if any) licensing scheme.

Name	Jorum
URL	http://www.jorum.ac.uk
Description	Jorum claims to be the UK's largest repository for discovering and sharing Open Educational Resources for higher and further education and the Skills sector.
Country	UK
Type of repository	Aggregator
Owner	Jisc, a registered charity and champion the use of digital technologies in UK education and research
Subjects	Various
Target	HE, FE
Searchable	By keyword, results may be filtered
Organized	No
OER Language(s)	English
OER type	Various

License type	Creative Commons, unless specified differently
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Name	MERLOT II
URL	http://www.merlot.org/merlot/index.htm
Description	MERLOT (Multimedia Education Resource for Learning and Online Teaching) is an international consortium of over 20 institutions (and systems) of higher education, industry partners, professional organizations and individuals devoted to identifying, peer reviewing, organizing and making available existing OER. One product of the collaboration among these partners is a website, hosted by the California State University, which serves as a repository of online resources
Country	USA
Type of repository	Aggregator
Owner	California State University
Subjects	Various
Target	HE mainly
Searchable	Textual search which can be filtered
Organized	By subject
OER Language(s)	English
OER type	Various
License type	Various

Name	MERLOT Business Portal
URL	http://business.merlot.org/
Description	Merlot II specialized Business Portal, providing access to OERs and other resources useful for teaching/learning Business Management subjects
Country	USA
Type of repository	Aggregator
Owner	California State University
Subjects	Business Management
Target	HE mainly
Searchable	Textual search which can be filtered
Organized	By subject
OER Language(s)	English
OER type	Various
License type	Various

Name	Globe
URL	http://oer.equella.com/access/home.do
Description	GLOBE (Global Learning Objects Brokering Exchange) is a one-stop-shop for learning resource broker organizations, each of them managing and/or federating one or more learning object repositories. Globe alliance includes: Ariadne Foundation Department of Instructional Technology and Learning Sciences Education Services Australia European Schoolnet

	III (Institute for Information Industry, Taiwan) ISKME (the Institute for the Study of Knowledge Management in Education) KERIS (Korea Education & Research Information Service) LACLO (The Latin American Community of Learning Objects) LORNET METAL- Inter-University Center for e-Learning (IUCEL) MERLOT (Multimedia Educational Resources for Learning and Online teaching, USA) OER Africa The Open University of Japan, Center of ICT and Distance Education (OUJ-CODE)
Country	USA
Type of repository	Aggregator
Owner	NA
Subjects	Various
Target	Various
Searchable	Textual search, filtered
Organized	No
OER Language(s)	English
OER type	Various
License type	Various

Name	Open Scout
URL	http://learn.openscout.net/index.html
Description	OpenScout stands for "Skill based scouting of open user-generated and community-improved content for management education and training". OpenScout is a project co-funded by the European Commission within the eContentplus Programme as a Targeted Project in the area of Educational Content (Grant ECP 2008 EDU 428016)
Country	EU
Type of repository	Aggregator
Owner	NA
Subjects	Various
Target	Various
Searchable	Textual search, filtered
Organized	Yes
OER Language(s)	Various
OER type	Various
License type	Mostly Creative Commons

Name	Universia
URL	http://ocw.universia.net/en/index.php
Description	OCW initiative by a number of Spanish and Latin American Universities
Country	ES
Type of repository	Aggregator
Owner	Universia University Consortium
Subjects	Various

Target	HE
Searchable	Textual
Organized	By area, author, keyword, university
OER Language(s)	Spanish; Portuguese
OER type	Various
License type	Creative Commons

Name	Open Education Consortium
URL	http://www.oeconsortium.org/
Description	The Open Education Consortium is a worldwide community of hundreds of higher education institutions and associated organizations committed to advancing open education and its impact on global education
Country	US
Type of repository	Aggregator
Owner	Consortium of institutions
Subjects	Various
Target	HE
Searchable	Textual
Organized	By institution, language, category
OER Language(s)	Various
OER type	Various
License type	Depends on institution providing course/OER

Name	OER Commons
URL	https://www.oercommons.org/
Description	Search and browse through OERs made available by a large number of organizations
Country	US
Type of repository	Aggregator
Owner	NA
Subjects	Various
Target	Various
Searchable	Textual with filters
Organized	By subject
OER Language(s)	Mostly English
OER type	Various
License type	Mostly Creative Commons

Name	The Orange Grove
URL	http://florida.theorange grove.org/og/access/home.do
Description	Florida's digital repository for instructional resources
Country	US
Type of repository	Aggregator
Owner	Florida State
Subjects	Various
Target	Various
Searchable	Textual with filters

Organized	By subject
OER Language(s)	Mostly English
OER type	Various
License type	Mostly Creative Commons

Name	iTunesU
URL	Accessible via iTunes
Description	In iTunes catalogue a large number of lesson from universities around the world (downloadable)
Country	US
Type of repository	Aggregator
Owner	Apple Inc.
Subjects	Various
Target	Various
Searchable	Textual
Organized	By subject
OER Language(s)	English
OER type	Videos, notes
License type	Depends on OER owner

Name	Open Education Europa
URL	http://www.openeducationeuropa.eu/en
Description	The main goal of the Open Education Europa portal is to offer access to all existing European Open Educational Resources in different languages in order to be able to present them to learners, teachers and researchers
Country	EU
Type of repository	Aggregator
Owner	EU Commission
Subjects	Various
Target	Various
Searchable	Textual and filtered
Organized	By subject, language, Education level, media, license
OER Language(s)	EU languages
OER type	Various
License type	Mostly Creative Commons

Name	Ariadne
URL	http://www.ariadne-eu.org/
Description	The ARIADNE Foundation is a not-for-profit association that aims to: Carry out basic and applied research that will improve creation, sharing and reuse of knowledge through the use of technology Develop and deploy methodologies and software that will provide flexible, effective and efficient access to large-scale knowledge bases Apply the results of its research and development activities to help preserve multicultural and multilingual knowledge assets and collections Explore how these research and development results can be adopted

	and sustained so that they support educational and research communities
Country	EU
Type of repository	Aggregator
Owner	Ariadne Foundation
Subjects	Various
Target	Various
Searchable	Textual search, filtered
Organized	No
OER Language(s)	Various
OER type	Various
License type	Various

Name	Google OCW
URL	https://cse.google.com/cse/home?cx=000793406067725335231:fm2ncz noswy
Description	OCW specialized search
Country	US
Type of repository	Aggregator
Owner	Google Inc.
Subjects	Various
Target	NA
Searchable	Textual
Organized	NA
OER Language(s)	NA
OER type	NA
License type	Depends on institution providing course/OER

Name	Content without Borders
URL	http://oer.equella.com/access/home.do
Description	<p>Content Without Borders is an open access repository service powered by EQUELLA. This publicly accessible repository promotes and provides access to resources contributed by academic institutions and repositories from around the world.</p> <p>Resource contributions are stored and harvested in the Content Without Borders repository as content metadata only and link consumers to the appropriate source repository to view the actual items and attachments.</p>
Country	AUS
Type of repository	Aggregator
Owner	Equella (Pearson Group)
Subjects	Various
Target	Mainly HE
Searchable	Textual search, filtered
Organized	By subject
OER Language(s)	English
OER type	Various
License type	Various, mostly Creative Commons

Name	VideoLectures.NET
URL	http://videlectures.net/
Description	Portal with tens of thousand videos from Universities and other institutions (also EFMD). It is hosted at Jozef Stefan Institute in Slovenia
Country	SLO
Type of repository	Aggregator
Owner	NA
Subjects	Various
Target	Various
Searchable	Textual search, filtered
Organized	By subject
OER Language(s)	Mainly English and Slovenian. A small number in other EU languages
OER type	Video
License type	Creative Commons

5.4 Non OER Repositories

Name	Internet Archive
URL	https://archive.org/
Description	Non-profit library of millions of free books, movies, software, music, and more.
Country	USA
Type of repository	No
Owner	No profit organization
Subjects	Various
Target	General public
Searchable	Textual search, filtered
Organized	By media type
OER Language(s)	English
OER type	Various
License type	Various, depending on source

Name	YouTube
URL	http://www.youtube.com
Description	Among the videos there are a number of lessons as well as content which may be used in courses
Country	US
Type of repository	Video repository
Owner	Google Inc.
Subjects	Various
Target	Various
Searchable	Textual
Organized	No
OER Language(s)	Various
OER type	Videos
License type	Depends on video owner

Name	TED – Ideas worth spreading
URL	http://www.ted.com/
Description	Among the videos there are a number of talks relevant to project's scope
Country	US
Type of repository	Video repository
Owner	Sampling Foundation
Subjects	Various
Target	Various
Searchable	Textual, filtered
Organized	By topic, language, event type
OER Language(s)	Various
OER type	Videos
License type	Creative Commons

Name	Stanford University channel on You Tube
URL	https://www.youtube.com/user/StanfordUniversity
Description	Selection of speeches hosted by Stanford
Country	US
Type of repository	Non OER Repository
Owner	Stanford University
Subjects	Various
Target	Various
Searchable	Textual
Organized	By Playlist
OER Language(s)	English
OER type	Video
License type	You Tube standard

Name	Knowledge @ Wharton
URL	http://knowledge.wharton.upenn.edu/
Description	Resources on Business Management
Country	US
Type of repository	Non OER Repository
Owner	Wharton – University of Pennsylvania
Subjects	Business Management related
Target	Various
Searchable	Textual
Organized	By subjects
OER Language(s)	English
OER type	Various
License type	Copyright Wharton

Name	Saïd Business School – University of Oxford on YouTube
URL	https://www.youtube.com/user/OxfordSBS

Description	Resources on Business Management
Country	UK
Type of repository	Non OER Repository
Owner	Saïd Business School – University of Oxford
Subjects	Business Management related
Target	Various
Searchable	Textual
Organized	By playlist
OER Language(s)	English
OER type	Videos
License type	You Tube standard

Name	Public Lectures and Events – LSE
URL	http://www.lse.ac.uk/newsAndMedia/videoAndAudio/channels/publicLecturesAndEvents/Home.aspx
Description	Resources on Business Management
Country	UK
Type of repository	Non OER Repository
Owner	London School of Economics
Subjects	Business Management related
Target	Various
Searchable	Textual
Organized	By publication year
OER Language(s)	English
OER type	Videos and Podcasts
License type	Copyright LSE

Name	INSEAD Thought Leaders Videos INSEAD Knowledge INSEAD on You Tube
URL	http://executive-education.insead.edu/thought-leaders-videos/ http://knowledge.insead.edu/ https://www.youtube.com/user/INSEADofficial
Description	Resources on Business Management
Country	FR
Type of repository	Non OER Repository
Owner	INSEAD
Subjects	Business Management related
Target	Various
Searchable	Textual
Organized	By subject (playlist on YouTube)
OER Language(s)	English
OER type	Various, mostly videos
License type	Copyright INSEAD Standard You Tube

Name	Harvard Businss School on You Tube
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URL	https://www.youtube.com/user/HarvardBSchool
Description	Resources on Business Management
Country	US
Type of repository	Non OER Repository
Owner	Harvard Business School
Subjects	Business Management related
Target	Various
Searchable	Textual
Organized	By playlist
OER Language(s)	English
OER type	Videos
License type	You Tube standard

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