Open Archives and Institutional Repositories for Open Educational Resources: Challenges Ahead for Turkish Universities

Yaşar Tonta
Department of Information Management
Hacettepe University
tonta@hacettepe.edu.tr
yunus.hacettepe.edu.tr/~tonta/tonta.html
Outline

• Definitions (OA, IR, OER, LOR)
• Turkish OA, IRs and OERs
• OER Issues
  – Metadata
  – Interoperability
  – Resource Discovery and Retrieval
• Challenges for Turkish Universities
• Conclusion
Open Access

1. “. . . free, irrevocable, worldwide, right of access to, and a license to copy, use, distribute, transmit and display the work publicly . . .

2. A complete version of the work . . . is deposited (and thus published) in at least one online repository . . . maintained by an academic institution, scholarly society, government agency, or other well-established organization that seeks to enable open access, unrestricted distribution, inter operability, and long-term archiving.”

Source: Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities
http://www.zin.mpg.de/openaccess_berlin/berlindeclaration.html
Institutional Repository

• “digital collection capturing the intellectual output of a single or multi-university community”

• Accessible to end users both within and outside of the institution

• IRs:
  – Institutionally defined;
  – Scholarly;
  – Cumulative and perpetual; and
  – Open and interoperable.

Source: Crow, 2002, p. 16.
c. 1,100 archives & 23M records . . .
<table>
<thead>
<tr>
<th>Country</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>300</td>
</tr>
<tr>
<td>UK</td>
<td>151</td>
</tr>
<tr>
<td>Germany</td>
<td>112</td>
</tr>
<tr>
<td>Japan</td>
<td>71</td>
</tr>
<tr>
<td>Brasil</td>
<td>70</td>
</tr>
<tr>
<td>Spain</td>
<td>58</td>
</tr>
<tr>
<td>Canada</td>
<td>51</td>
</tr>
<tr>
<td>India</td>
<td>50</td>
</tr>
<tr>
<td>France</td>
<td>50</td>
</tr>
<tr>
<td>Italy</td>
<td>48</td>
</tr>
<tr>
<td>Australia</td>
<td>48</td>
</tr>
<tr>
<td>Sweden</td>
<td>35</td>
</tr>
<tr>
<td>Netherlands</td>
<td>27</td>
</tr>
<tr>
<td>Belgium</td>
<td>19</td>
</tr>
<tr>
<td>South Africa</td>
<td>15</td>
</tr>
<tr>
<td>Denmark</td>
<td>14</td>
</tr>
<tr>
<td>China</td>
<td>11</td>
</tr>
<tr>
<td>Hungary</td>
<td>9</td>
</tr>
<tr>
<td>Turkey</td>
<td>8</td>
</tr>
<tr>
<td>. . .</td>
<td></td>
</tr>
</tbody>
</table>

[http://archives.eprints.org/eprints.php?action=browse#country]
<table>
<thead>
<tr>
<th>Institution</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>METU Library E-Theses</td>
<td>(2247 records, OAI-compliant)</td>
</tr>
<tr>
<td>Ankara University Open Archive System</td>
<td>(3441 records, OAI-compliant)</td>
</tr>
<tr>
<td>Sabancı University Research Database</td>
<td>(9069 records, OAI-compliant, Eprints software, Not 100% OA)</td>
</tr>
<tr>
<td>Gazi University Open Archive</td>
<td>(2057 records, OAI not registered)</td>
</tr>
<tr>
<td>Atatürk University Open Archive</td>
<td>(578 records, OAI-compliant)</td>
</tr>
<tr>
<td>Atılım University Open Archive</td>
<td>(218 records, OAI not working)</td>
</tr>
<tr>
<td></td>
<td>And other non-registered web-accessible ETD archives</td>
</tr>
</tbody>
</table>
• 2003: METU Library ETD Archive becomes the first NDLTD member
• 2005: OA in Academic Informatics and Library Week meetings
• 2005: First experimental OA archive (Hacettepe Univ.)
• 2005: First operational OA archive (Ankara Univ.)
• 2006: OA Declaration
• 2006: Working Group on OA and IRs (ANKOS)
• 2006: OA & IRs Advisory Board (TLA, ÜNALKO, ULAKBİM)
Open Educational Resources

• “digitized materials offered freely and openly for educators, students and self-learners to use and re-use for teaching, learning and research.”

• “The open provision of educational resources, enabled by information and communication technologies, for consultation, use and adaptation by a community of users for non-commercial purposes.”

Learning Object Repositories

• Repositories that contain OERs of educational institutions
• They provide resource discovery, metadata enhancement, and social network tools as well as interoperability
Core Attributes of OER definitions

• Free access to open content (including metadata)
• Content is liberally licensed for reuse;
• Open content standards and formats are employed to facilitate easy reuse of content;
• Open source software is used, along with open Application Programming Interfaces (APIs), and authorizations to reuse Web-based services (e.g. RSS feeds).

Drivers and Enablers for OERs

- Policies emphasizing educational innovation and organisational change;
- Promotion of ICT-based lifelong learning needs
- The Bologna Process
- Global competition in Higher Education and decline in student numbers in Europe due to demographic trends;
- Creative Commons licensing is firmly established and is being used increasingly;
- Open content repositories will increasingly surface from the Deep Web;
- New systems for creating and handling group-based learning designs may become more widely used;
- Semantic applications will provide new ways to access knowledge resources.

Welcome to Jorum

Jorum provides access to free learning and teaching resources, created and contributed by teaching staff from UK Further and Higher Education Institutions. Jorum offers two collections - JorumOpen and JorumUK, containing a wide variety of resources, including open educational resources that are freely available to all.

Find out how to get started with Jorum >>

Jorum search and deposit options:

Access either collection by selecting the 'Search' or 'Deposit' buttons at the top right of the page.

JorumOpen
- Free to anyone, worldwide
- Resources licensed under Creative Commons

JorumUK
- Free to members of UK FE/HE Institutions
- Subscription Required
DiscoverEd
Discover the Universe of Open Educational Resources

Learn more about DiscoverEd
Please give us feedback
Disclaimer

Powered by Nutch; source code licensed under Apache License, 2.0; source available at code.creativecommons.org.
OER Commons

Learning is Sharing

Open Educational Resources are all about sharing.

In a brave new world of learning, OER content is made free to use or share, and in some cases, to change and share again, made possible through licensing, so that both teachers and learners can share what they know.

Browse and search OER Commons to find curriculum, and tag, rate, and review it for others.

Use the Tutorials as a guide. Join and contribute to the global Open Education community.

Search Resources

8th Communia Workshop, 19-20 April 2010, Özyeğin Üniversitesi, Istanbul
Metadata for OERs

- LOM
- DC
- MPEG-7
LRE Metadata Application Profile

Query Types

- in a given language (LOM 1.3)
- described by metadata in a given language
- of a given structure
- with a given status (e.g., draft)
- targeting an audience within a given age range
- licensed under a given creative commons license
- authored by a given author
- of a given "learning resource type"
- created at a given creation date
- of a given mime-type
- covering a given curriculum subject (competencies)
- described with a given LRE thesaurus descriptor

Architecture of LORs (GLOBE)

LRE Federated Searching

Interoperability

JISC cetis
Supporting Innovation and Interoperability in Educational Technology

Events

Repositories and the Open Web
Date: 19 Apr 2010

Third QTI Profiling working group meeting
Date: 20 Apr 2010

Real time Services in Education
Date: 08 May 2010

Mobile technologies, and Augmented Reality applications
Date: 07 Jun 2010 to 18 Jun 2010

Design Bash
Date: 16 Jul 2010

Comment and Analysis

Relationship Management: So Long, and Thanks for All the Hamsters
16 Apr 2010 Sharon’s Blog
The final JISC Relationship Management Programme Meeting was held in York at the end of March. Here are a few of the key points from the Programme findings

News and Funding
Grant 06/10: Higher Education Academy/JISC Open Educational Resources Programme Phase 2: Call for Projects
16 Apr 2010 JISC funding

JISC ITT: Study on Large Scale e-Portfolio Implementations
12 Apr 2010 JISC funding

8th Communia Workshop, 19-20 April 2010, Özyeğin Üniversitesi, Istanbul
GLOBE: Global Learning Objects
Brokered Exchange

About GLOBE

Organizations from around the world have formed a global alliance to make
shared online learning resources available to educators and students around
the world.

The Global Learning Objects Brokered Exchange (GLOBE) alliance was
established between the following founding members: the ARIADNE
Foundation in Europe, Education Services Australia, LORNET in Canada,
Multimedia Educational Resources for Learning and Online Teaching (MERLOT)
in the USA, and National Institute of Multimedia Education (NIME) in Japan.
These organizations have committed to work collaboratively on a shared
vision of ubiquitous access to quality educational content. Since its inception,
GLOBE has attracted the interest of other organizations with similar goals and
as a result, the GLOBE community continues to grow. The following list
represents the current GLOBE member organisations:

- AL-Quds University
- ARIADNE Foundation
- COSL (The Center for Open and Sustainable Learning)
- Education Services Australia
- European Schoolnet
- III (Institute for Information Industry, Taiwan)
- ISKME (the Institute for the Study of Knowledge Management in
  Education)
Introduction to Information Architecture

Module by: Peter Howel. E-mail the author

User rating (2): 5 stars (0 ratings)

Summary: This hands-on course examines issues related to information architecture as it applies to a medium-sized community college web site.

Exploring Information Architecture

Information architecture (IA) considers the study of information and how we find it and use it. In this course we will be studying various methods of making information more findable, and how to manage the growing size of our "library".
OALster
Find the pearls

No results match your search for 'iain baker information architecture'. Did you mean main baker information architecture?
Having trouble? Help us improve our search and let us know what you're trying to find.
Or, save this search for future reference.

Search for an item in libraries near you:
Enter a title, subject or author: iain baker information architecture

Search Advanced Search

Languages: Deutsch | English | Español | Français | Nederlands | Эсп\n
Your WorldCat: Sign In | Register | My WorldCat | My Lists | My Watchlist | My Reviews | My Tags | My Saved Searches

Legal: Copyright © 2001-2010 OCLC. All rights reserved. Privacy Policy | Terms and Conditions

WorldCat is the world's largest library catalog, helping you find library materials online.
Turkish Open CourseWare Consortium

- Founded in 2007 (TAS & HEC)
- Has about 60 members
- Provides free access to course materials (syllabi, slides, lecture notes, audio-video records, and so on)
- Some MIT’s OpenCourseWare will be translated and made available
- Some members offer several courses through OpenCourseWare web sites.
Ulusal Açık Ders Malzemeleri Konsorsiyumu

ÇAĞRI

TÜBA Açık Ders Malzemeleri Projesi (2010) Çeviri/Telif Ders Hazırlama Başvuruları

DPT tarafından desteklenen bu proje kapsamında hazırlanan açık derslerin UADMK Web sitesi üzerinden herkesin erişimine açık olarak şekilde yayınlanması hedeflenmiştir.

DERSLER

UADMK Çalışma Grubu, 2010 yılı için özgün çeviri ve telif açık ders malzemelerinin aşağıdaki alanlarda olmasına karar vermiştir:

- Matematik
- Biyoloji
- Moleküler Biyoloji ve Genetik
- Fizik ve Astrofizik
- Kimya

Bağlantılar

Uluslararası Konsorsiyum
MIT OCW
OpenLearn
Connexions

8th Communia Workshop, 19-20 April 2010, Özyeğin Üniversitesi, Istanbul
Courses Offered

Ulusal Açık Ders Malzemeleri Konsorsiyumu

Açılan Dersler

- Ankara Üniversitesi Açık Ders Malzemeleri
  Ankara Üniversitesi, Açık Ders Malzemeleri sitesinde farklı bölümlerden 15 dersi sunmaktadır.
- Baskent Üniversitesi (ADEM)
  Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümünden 4 dersi sunmaktadır.
- Ege Üniversitesi
  Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümünden 4 dersi sunmaktadır.
- Hacettepe Üniversitesi Açık Ders Malzemeleri
  Hacettepe Üniversitesi, Açık Ders Malzemeleri sitesinde üç bölümlerden 6 dersi sunmaktadır.
- ODTÜ Açık Ders Malzemeleri
  Orta Doğu Teknik Üniversitesi, Açık Ders Malzemeleri sitesinde farklı bölümlerden 44 dersi sunmaktadır.

Bağlantılar

- Uluslararası Konsorsiyum
- MT OCW
- OpenLearn
- Connexions
- Academic Earth
- NFTEL

Duyurular ve Faaliyetler

Ziyaretçi Trafığı

http://acikders.org.tr/?q-tr/node/12
Universities with OER web sites
Free Access..
Issues

- Organizational issues
  - Skills of planning, organization and administration of OERs
- Cultural and educational issues
  - “the concept of re-usable learning objects has hardly registered with the average “chalkface” academic in Higher Education.”
- Lack of institutional commitment
- Intellectual Property Rights
- Adherence to metadata and interoperability standards (i.e., LOM, OAI-PMH)
- Lack of effective search mechanisms

Source for quotation: Davis et al. (2009). Bootstrapping a Culture of Sharing to Facilitate Open Educational Resources. IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES.
Barriers to OERs

- Business models
- Investment in training and support
- Lack of ontology-based educational Semantic Webs
- Library services may be slow to find their place in open learning environments – it is widely felt that libraries will need to adapt better to the considerable changes in information behaviour and Web-based environments.

The OLCOS Roadmap 2012
Recommendations for LORs

• Do not follow a ‘top-down’ strategy of delivering learning objects; instead empower teachers and learners;
• Support individual content creators and communities of practice with useful tools and services;
• Make licensing of content as easy as possible;
• Allow for easy discovery and access to resources;
• Assist open content initiatives in the creation of rich metadata and provide semantically enhanced access to resources.

Sustainability

- Intellectual Property Rights (IPR)
- Quality Control
- Bandwidth
- Cost

Challenges for Turkish Universities

- Awareness of OA, IRs and OERs should be increased
- “Users see the value of sharing, but altruistic sharing is not a good enough incentive on its own.”
- OA, IRs and LORs have to be dealt with on a higher level (i.e., TGNA, SPO, Turkish NSF and HEC)
- Visibility of LORs
- Interoperability of and record exchange among LMSs, VLEs, LORs, etc.
- Librarians to expand their thinking about IRs (institutional repositories), for example, to archive educational materials.

Source for quotation: Davis et al. (2009). Bootstrapping a Culture of Sharing to Facilitate Open Educational Resources. IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES.
“Stewardship is easy and inexpensive to claim; it is expensive and difficult to honor, and perhaps it will prove to be all too easy to later abdicate. Institutions need to think seriously before launching institutional repository programs”.

Source: Lynch, 2003
Open Archives and Institutional Repositories for Open Educational Resources: Challenges Ahead for Turkish Universities

Yaşar Tonta
Department of Information Management
Hacettepe University
tonta@hacettepe.edu.tr
yunus.hacettepe.edu.tr/~tonta/tonta.html