UKOER Metadata

Phil Barker <phil.barker@hw.ac.uk>
JISC CETIS Learning Technology Adviser
http://jisc.cetis.ac.uk/

About UKOER

- Scope: Universities in England (mostly)
- Aim: institutions to set up sustainable mechanisms for making a significant amount of existing learning resources freely and openly available.

http://www.jisc.ac.uk/oer
About UKOER

- Scope: Universities in England (mostly)
- Aim: institutions to set up sustainable mechanisms for making a significant amount of existing learning resources freely and openly available.

A commitment that goes beyond the project funding

http://www.jisc.ac.uk/oer

A degree’s-worth of material for starters

http://www.jisc.ac.uk/oer
About UKOER

- Scope: Universities in England (mostly)
- Aim: institutions to set up sustainable mechanisms for making a significant amount of existing learning resources freely and openly available.

To anyone, no charge, minimal restrictions on use.
Creative Commons

http://www.jisc.ac.uk/oer
Funder: HEFCE
Management: JISC & HE Academy

Institutional Projects
7 x <£250k

Subject consortia
14 x <£250k

Individual Projects
8 x £20k

Support actions: various incl. CETIS

Funder: HEFCE
Management: JISC & HE Academy

Release Projects

New
12 x £80-250k

Cascade
5 x £75k

Use of OER

Case studies

Tracking

Desk studies

Discovery of OER

Thematic Collections
6 x ~70k

Support actions: various incl. CETIS
Background to UKOER Technical Requirements

- Diverse projects
- Not a repository/library programme
- Relatively low funding and emphasis on sustainability
- Must not create obstacles to release.
- Realisation that for years JISC had specifying sophisticated metadata that could be used to build clever services; but had been in a cycle where resource providers weren’t motivated to create metadata until service used it.

http://blogs.cetis.ac.uk/lmc/2010/04/16/then-and-now/

UKOER Technical Requirements

- Content standards:
  - Expect a wide range of content types so mandating specific content standards is impractical. However Projects should consider using appropriate standards for sharing complex objects e.g. IMS Content Packaging IMS Common Cartridge and IMS QTI for assessment items.

- Platform
  - Projects are free to use any system or application as long as it is capable of delivering content freely on the open web
  - all projects must also deposit their content in JorumOpen [national repository]
  - should use platforms that are capable of generating RSS/Atom feeds particularly for collections of content

http://blogs.cetis.ac.uk/lmc/2010/12/03/oer-2-technical-requirements/
UKOER Technical Requirements

- Metadata
  - [We] will not mandate the use of one single metadata application profile to describe content.
  - projects will need to ensure that content released through the programme can be found, used, analysed, aggregated and tagged. [which required metadata]
  - Metadata must include
    - Programme tag: ukoer
    - Title
    - Author/owner/contributor
    - Date
    - URL
      - (Tech info, file format, name & size removed for phase 2)
    - Licence info. (added for ph. 2)

http://blogs.cetis.ac.uk/lmc/2010/12/03/oer-2-technical-requirements/

---

Service 1: Find Feeds: Ensemble

http://galadriel.cetis.ac.uk/ensemble
Service 2: Find Items: Ensemble

Service 3: Bulk upload to Jorum

- Supports UKOER requirement for deposit in Jorum
- Inspired by podcasting and iTunesU upload

http://community.jorum.ac.uk/course/view.php?id=49
Metadata in feeds

- Oxford University RSS Feed from http://podcasts.ox.ac.uk/openspires.html

```xml
<rss version="2.0"
 xmlns:atom="http://www.w3.org/2005/Atom"
 xmlns:creativeCommons="http://backend.userland.com/creativeCommonsRssModule"
 xmlns:dc="http://purl.org/dc/elements/1.1/"
 xmlns:ev="http://purl.org/rss/1.0/modules/event/"
 xmlns:geo="http://www.w3.org/2003/01/geo/wgs84_pos#"
 xmlns:itunes="http://www.itunes.com/dtds/podcast-1.0.dtd"
 xmlns:itunesu="http://www.itunesu.com/feed"
 xmlns:media="http://search.yahoo.com/mrss/"
 xmlns:s="http://purl.org/steeple">
```

---

Metadata in feeds

```xml
<channel>
  <title>Quantum Mechanics</title>
  <link>http://...</link>
  <atom:link rel="self" type="application/rss+xml" href="..."/>
  <description>....
  <image> ...</image>
  <language>en-GB</language>
  <lastBuildDate>Wed, 27 Oct 2010 15:14:59 +0100</lastBuildDate>
  <copyright>© Oxford University; the media items are released with a Creative Commons licence</copyright>
  <creativeCommons:license>http://creativecommons.org/licenses/by-nc-nsa/2.0/uk/</creativeCommons:license>
  <itunes:author>...</itunes:author>
  <itunes:category text="Education">...</itunes:category>
  <itunes:image>...</itunes:image>
```

---
Metadata in feeds

```xml
<item>
  <title>
    <category>physics</category>
    <category domain="http://www.jisc.ac.uk/oer/">ukoer</category>
    <description>Second lecture of the Quantum Mechanics ...
    <guid isPermaLink="false">http://</guid>
    <link>http://</link>
    <enclosure url="http:... length="40781530" type="audio/mpeg"/><source>
    <pubDate>...</pubDate>
    <creativeCommons:license>http://creativecommons.org/licenses/by-nc-sa/2.0/uk/</creativeCommons:license>

    <itunes:subtitle> ... <itunes:summary>... <itunes:keywords>... <itunes:author>...<itunesu:category itunesu:code="109108"/> <itunes:duration>
```

Reflections/relations

- Good match between what we could mandate for UKOER and what RSS/ATOM supports
  - Bespoke/restricted namespaces exist that give better precision
- Supports collection level description
- Distinguishes between “rights” and “licence”
- Distinguishes between “item/resource” and “copy”
  - cf FRBR / ILOX
Licence

By Phil Barker <phil.barker@hw.ac.uk>, JISC CETIS <http://jisc.cetis.ac.uk/>

This work is licensed under the Creative Commons Attribution 2.5 UK: Scotland License. To view a copy of this licence, visit http://creativecommons.org/licenses/by/2.5/scotland/ or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California 94105, USA.