Using digital libraries in the teacher education

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Share.TEC
teacher education resources

UNESCO International Workshop, 14-16 June, 2011, Sofia, Bulgaria
Share.TEC is for
- Teacher educators
- In-service teachers
- Pre-service teachers
- Educational publishers
- Content providers

Share.TEC members can
- Create their own profile
- Access interactive Web 2.0:
  - Rating
  - Commenting
  - Bookmarking
  - Saving favourite resources
- Express areas of interests
- Use services adapted to personal needs and preferences

Share.TEC resources
- Rich
- Contextualized
- Easily reusable

Share.TEC the open door to
teacher education practices,
resources & people

On Share.TEC you can
- Seek new perspectives & insights for enriching teaching practices
- Embrace innovation
- Get fresh ideas that you can adapt and apply in practice
- Search for, browse & annotate teacher education resources
- Access an effective showcase & gain a sense of current trends
- Find new market opportunities across Europe
- Share pedagogical experience
Issues addressed

• Share.TEC vision
• Share.TEC features
• Share.TEC – a project and a platform
• More information & contact
Digital Library (Repository)

• Library in which collections are stored in digital formats and accessible by computers
• The digital content may be stored locally, or accessed remotely via computer networks
• A digital library is a type of information retrieval system
• Data is indexed using metadata
• Based on OAI/PMH protocols for sharing
Main functions

• offer the outputs to the world
• maximise the visibility and enhance impact
• showcase and sell results / products
• to collect and curate digital collections
• to manage research and teaching activities
• workspace for collaborative projects
• development and sharing of digital teaching materials and aids
• access to student achievements
Some issues

• How to collect content
• How to look after the content
• How to add value to the content
• How to share information with other digital libraries
• How to offer services to end users
• How to ensure legally sound operations
• How to ensure interoperability
• How to make it sustainable
Metadata

• Data about data
• Describe various characteristics of the digital objects stored in the library
• Used for cataloguing purposes
• Many standards available (metadata schemes)
• There is no official only one standard set
• Dublin Core (DC) is de-facto standard
Open Access Initiative (OAI)

• Main goal: open access as the worldwide electronic distribution of peer-reviewed literature and completely free and unrestricted access to it by all scientists, scholars, teachers, students and other curious minds

• First declared in Budapest, best known as Berlin Declaration (http://www.openarchives.org/)

• Includes (a) authors grant free access to users; (b) full version available in at least one digital library
Teachers expectations and requirements analysis

- Detailed surveys performed in 7 countries
- Three international workshops
- Internet surveys
- Scenarios and use cases developed
Share.TEC vision

- unlocking teacher education resources & expertise
- building a teacher education hub
- connecting teacher education networks
- bridging cultural differences
- combining market and open potential
The Share.TEC vision for teacher education

• **To offer** services for locating and sharing teacher education specific digital content

• **To strengthen** the European dimension in sharing teacher education digital resources

• **To encourage** the exchange and reuse of quality contents for teacher education at a European level

EdReNe Workshop, Nov. 09
Discover new markets

Get new ideas which you can use in practice

Keep track of current trends

Share your pedagogical experience

The Share.TEC solution
Share.TEC – the project

- EU project within the eContentplus programme during 2008-2011 which has produced a new product for teacher education
- The project consortium:

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<th>Category</th>
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<tr>
<td>Istituto per le Tecnologie Didattiche, CNR (IT)</td>
<td>universities, research inst., schools of education</td>
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<td>CLUEB Editore (IT)</td>
<td>educational publisher</td>
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Share.TEC – the platform

• A platform granting unified access to digital resources across Europe that specifically target the domain of Teacher Education

• Share.TEC will help practitioners across Europe search for, learn about and exchange resources of various kinds, and will support the sharing of experiences.
Share.TEC – the platform

- May 2011: 27,376 objects and 786 registered members
- Create your own profile and enjoy customized solutions for the full Share.TEC experience
- A core of tested teacher education content
- Several different repositories are connected to Share.TEC, broadening reusability perspectives across Europe.
Share.TEC – the platform

- Sophisticated system achieved via a model that helps overcome language barriers and captures pedagogical descriptions
- A gateway to specific teacher education resources
- User focused services
- A boost for the teacher education content market in Europe
- Share your material with others and create new discussion groups
... finding your way through the platform
Why is Share.TEC beneficial to teacher education?

Teacher education

- requires change from traditional culture to shared academic practice
- has limited resources
- needs a unique common teacher education ontology
- needs renewable learning and teaching material
All three need digital resources that are…

- easy to find and applicable to teacher education
- trustworthy and “road tested”
- (potentially) reusable
- (potentially) multimedia and innovative
Share.TEC resources

- addressing actors in the teacher education world (not K-12 students directly)
- encompassing lessons plans, teaching modules, best practices, reference material, etc.
- coming from sources across Europe
- combining “open” and commercial approaches
Special features
the semantic layer
of the Share.TEC system

TEO (Teacher education ontology) is
• a representation of teacher education-related concepts,
• a framework for mapping culturally and linguistically
diverse versions of that representation.

CMM (Common metadata model) is a prerequisite in the
process of harvesting metadata from repositories inside
and outside the consortium.

MMM (Multicultural metadata model) is a set of
language/context specific derivations.
Special features - multilanguage layer
Networking
БЛАГОДАРЯ ЗА ВНИМАНИЕТО!

THANK YOU FOR YOUR ATTENTION!