TENCompetence: Building the European Network for Lifelong Competence Development

Jocelyn Manderveld
SURF
Online Educa Berlin 1 December 2006
Personal Competence
Development System:
‘My personal competence manager’
The worldwide competitive economy places new demands on individual workers and organisations.

Many people want to develop themselves: find new opportunities, take care of personal growth, but don’t like the traditional schooling system.

There is a need to continuously update our competences:

- Profession
- Daily life
How can we use the possibilities of the new technologies to support lifelong competence development?
Three core issues

- A person learns from many formal and informal sources during lifetime: Formal education, courses, knowledge exchange with colleagues, learning from experiences, reading from the internet etc.

- Question: How does a learner know what learning resources are available from different formal and informal sources?
When we are able to create lists with all possible learning resources, a new issue arises:

- How do you know what learning resources best fits to your goals, background knowledge, previously obtained competences, and preferences.
Learning from many formal and informal resources leaves us with the problem that we cannot provide evidence for all our competences.

Question: How do we assess the competences of persons who have acquired competences through a combination of formal and informal learning during lifetime?
Summarise core issues

1. How to get an overview?
2. How to know which learning facilities are most suitable?
3. How do you assess competences from multiple resources?
PCDS

- Need for a Personal Competence Development System (PCDS)

- A PCDS is ‘owned’ by a person to support his/her competence development: Personal Competence Manager
TENCompetence is a 4-year EU-funded Integrated IST-TEL project that will develop a technical and organisational infrastructure for lifelong competence development.
TENCompetence

- 13 partners, 9 countries.

OUNL (coördinator), SURF, LogicaCMG, UVA.

Insead, Sofia University, Bolton, LS3D, Giunti Labs, ALTRAN, Universitat Pompeu Fabra Barcelona, GIUNTI Interactive Labs, Centre for Research and Technology Hellas, L3S-Universität Hannover, INSEAD, Bolton University/JISC and Synergetics.
7 Core Requirements (solve problems:)
1. Implement New Pedagogical & Organisational Models for Lifelong Compt. Development
2. Support the Discovery of Best Solutions
3. Stimulate Pro-active Sharing of resources
4. Support Competence Assessment
5. Provide Effective & Efficient User Support
7. Integrate Isolated Models & Tools from four 'worlds': knowledge sharing (WP5); learning activities (WP6); programmes (WP7); learning networks (WP8)

Non-functional Requirements:
1. Open Source Only (OSI)
2. Use of Open Standards
3. Service Oriented Architecture
4. Extensible
5. OSS services can be replaced by commercial services

TENC-Infrastructure:PCDS
- technical (= the system)
- organisational (= methods, manuals, workflow, paid services, etc.)

Organised Pilots in Project Plan:
1. Digital Cinema (first 18 month)
2. Health Care (after 18 month)
3. UNESCO Water Mng (after 18 month)
4. Antwerp Lifelong Learning City (after 18 month)

Additional Pilots:
1. Small pilots by Partners
2. Pilots by Ass. Partners
3. Pilots by others
At any time!
Uses learning facilities from multiple resources providing:

- Formulation of personal learning goals
- Overview of all the learning facilities connected to the goals
- Advice about the best solution to take
- Planning and management of learning activities
- Assessment of competences
Technical info about PCDS

- Based upon principles of Service Oriented Architecture
- Open Source and Standards based
- PCDS will connect to an unlimited number of services, but will specifically connect to
  - Learning Object repositories and Knowledge sharing initiatives
  - Formal & informal learning activities and units of learning
  - Formal & informal competence development programmes
  - Agents that provide specific services for the user like navigation support, assessment etc.
### Plan for Basic Guitar Skills

**Description**
I have used these actions to learn basic guitar skills. I started with the interactive lessons. Maybe you can also start with the small self test. I have made in basic guitar skills to see where you are.

**Plan**

<table>
<thead>
<tr>
<th>Status</th>
<th>Action</th>
<th>Type</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Interactive Lesson: scales</td>
<td>Discussion</td>
<td>11-2-2007</td>
<td>1-8-2007</td>
</tr>
<tr>
<td></td>
<td>Beginners course to guitar playing</td>
<td>Course</td>
<td>15-6-2006</td>
<td>23-10-2006</td>
</tr>
<tr>
<td></td>
<td>Rhythm</td>
<td>Information</td>
<td>1-10-2006</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guess the Chords Test</td>
<td>Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic Guitar Skills</td>
<td>Activity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Synchronised Plan (Bas may change)

**Options**
- Select plan
- Edit description
- Break synchronization
- View rights

---

**Agent**
- What to do now?
  - Create an action plan
  - New competence "basic ...
  - User "Colin" requests access to "Guitars" community

**Rating**
- Community rating: ★★★★★
  - Scott: I don't think this action plan was very useful...
  - Phil: I don't agree with Scott. Although probably not...
  - Gizmo: For me it was very useful. I am new and I like...
  - Ruud: I do not like to play the guitar anymore after ...

**People**
- Friends
  - Peter
  - Alex
  - Cendale
  - Asman
Your involvement?

- Enthousiastic
- Involved with development of PCDS.
- Use PCDS for your institute, organisation (testing, pilots)
- Knowledge exchange with colleagues
- Participate in training & workshops.
Associate Partnership

User organisations

- Users, use cases, testing, adaptation of system for your situation

Technology partner

- Development of open source components, development of implementation scenario’s, access to technical documentation and discussions
Associate Partnership

Educational designers/technologists
- Use cases, business models, pilots

Project, network, organisations
- Cooperation & harmonisation
- Access to information, discussions
Next events

- TENCompetence Workshop on Service Oriented Approaches and Lifelong Competence Development Infrastructures
  Location: Manchester UK
  Event Date: 11th-12th January, 2007

- TENCompetence PHD Winterschool
  Location: Innsbruck
  Event Date: 22nd-25th January, 2007
Contact

- Project website: www.tencompetence.org

- Contact manderveld@surf.nl for all other enquiries
THANKS