Designing Dynamic Learning Environments for Trans-Competence Acquisition

iCamp

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Agenda

- The iCamp Project
  - Aims & Context
  - Augmented Landscapes
  - Competence Acquisition
- Learning Activities (AT)
- Web-Application Mash-Ups
- Mash-Up PLE (MUPPLE)
- Designing Activity-Driven MUPPLEs
- Sharing Experiences through Patterns
- Statement: Learning in The New Web
The iCamp Project

- Heterogeneous social software tools
- Distributed individuals
- Content as ‘social currency’
- Common model for competence acquisition
Augmented Landscapes

- Individuals use subsets of tools and services provided by institution.
- Actors can choose from a growing variety of options.
- Gradually transcend institutional landscape.
- Actors appear as emigrants or immigrants.
- Leave and join institutional landscape for particular purposes.

Diagram components:
- CS
- LMS
- EDR
- DLS
- eMail
- Messaging
- Chat a/v
- Wiki
- Weblog
- Forum
- Calendar
- Content
- Authoring

Network connections:
- Family
- Friends
- Experts
- Peers
Social- & Self-Competences (Hyperc.), not Professional Competence!

Competence is constructed from certain learning activities
Learning Activities

Learning Context

Learning Situation

represented by

Activity

consists of

Action

has affordance for

Tool

Example

Team Building Phase

Getting to know each other

1. Compose self-description

2. Share self-description

3. Retrieve self-description of others

4. Record chat with colleague

XoWiki

Scuttle

Objectspot
Web-Application Mash-Up

{ do s.th. } { for an output }
{ using http://… }  

share bookmarks  
using distance.ktu.lt/scuttle  

find papers  
using www.objectspot.org  

summarize papers  
using teldev.wu-wien.ac.at/xowiki
MUPPLE: a Mash-Up PLE

- Set of Web-Based Tools for learning, client-sided aggregation
  (= ‘web-application mashup’)
- Recommend **tools for specific activities**
  - through design templates
  - through data mining
- **Scrutable**: give learner full control over learning process
- **Track learner interaction & usage** of tools and refine recommendations

“Muppies were small furry creatures that were imprisoned at the Umboo Lightstation when Mungo Baobab, C-3PO and R2-D2 rescued them. Some considered Muppies a delicacy.”

-- http://starwars.wikia.com/wiki/Mupple

Mash-UP
Personal Learning Environments
Learner Interaction Scripting Language (LISL)

// definitions
define [an] activity "getting to know each other"
define [...] action "publish"
define tool "xowiki" [with] url http://xowiki.icamp.eu
define tool "wordpress" url http://wordpress.icamp.eu
define tool "videowiki" url http://distance.ktu.lt/videowiki
define action "broadcast"
define action "introduce"

// actions
publish "self-description" [using tool "xowiki"]
broadcast "meeting" using tool "wordpress"
Introduce "yourself" using tool "videowiki"
Activity
Getting to Know Each Other

- **phase 1**
  - getting to know each other
  - collaborative writing (3)
  - personal learning contract (5)

**new activity patterns**

**activity name**

**activity description**

**new action patterns**

- watch

---

**introduce yourself using videowiki**

Push the button to make a recording.

**watch intros using videolist**

- Aladin
- Snafu
- Heyden

- Aladin
- Snafu
- Heyden

- Aladin
- Snafu
- Heyden

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**write welcome message using xowiki**

This is an empty Wiki Page. Click [here] to edit.

---

**read project topics using xowiki**

Hello Alltogether,

Some of your project topics are

- [click to edit]

I suggest you propose your project topics that they have

Best,
Your Facilitator

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<br>
Sharing Activity Patterns

- Patterns (Alexander, 1979) consist of:
  - Context
  - Problem
  - Solution

- Collections of Aligned Patterns:
  Pattern Language
  - e.g. for 'office buildings'
  - e.g. for 'private homes'

→ Allow for Experience Sharing & Learning from Best-Practice
Learning in the New Web

- ‘individual’ not ‘institutional’
- ‘collaborative team’ not ‘isolated single’
- ‘multi-tool’ not ‘content-based’
- ‘learning to learn’ not ‘knowledge transmission’
- ‘activity sequences’ not ‘self-paced models’

= ‘TEL 2.0’ not ‘TEL 1.0’
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