

# Technology Development Programme - TENCompetence

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# Technology development programme



Peter van Rosmalen  
Heerlen, 13 maart, 2007

**OpenUniversiteitNederland**

# Technology Development Programme

Peter van Rosmalen  
Heerlen, 13 maart, 2007

# Learning Networks Programme

A Learning Network is a network of persons who create, share support and study learning resources ('units of learning') in a specific knowledge domain.

## Objective:

Develop a coherent set of e-learning technologies to establish learning networks for lifelong learners.

# Key issues

- Put the lifelong learner center stage
- Support for formal education, non-formal (further) education and training and informal learning
- Support learners with collaborative filtering techniques to navigate in the learning network
  - Support learners to assess their existing competences and to map them to a position in a learning network
- Decrease the workload of teachers and learners
- Use and develop open standards and open source software



# Themes LN - internal projects

## 1. Learning Networks Integrated

## 2. Learner Positioning in Learning Networks

- Assessment model
- Positioning

## 3. Make & Use Activity Nodes in Learning Networks

- ASA (support)
- SEP (social software)

## 4. Navigation in Learning Networks

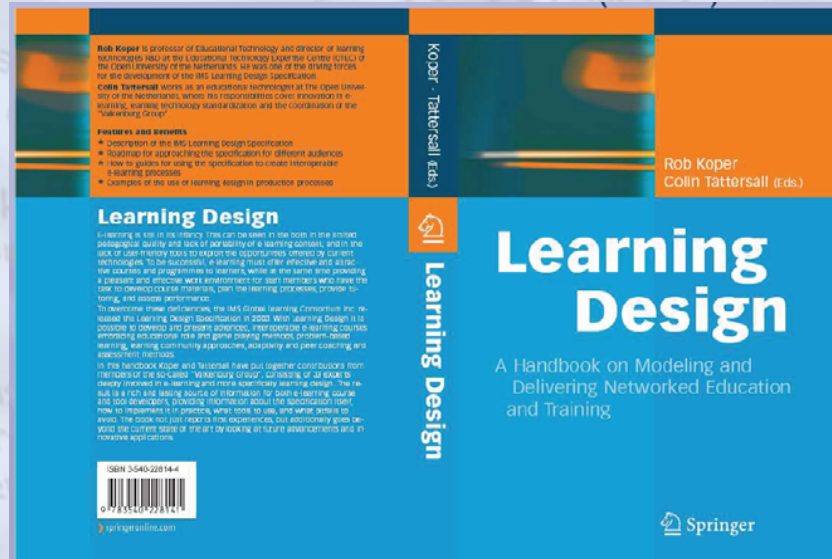
- ROMA (navigation)
- ISIS (navigation)

# European Projects

- E-LEN (Learning Design Patterns)
- aLFanet (Adaptive, standards-based elearning)
- UNFOLD (Standards dissemination & COP in particular IMS-LD)
- TELCERT (Application Profiles and conformance testing)
- COOPER (Project based learning)
- JISC (IMS LD)
- MACE (Architecture)
- PROLEARN (Network)
- TENCompetence (IP)

# Standards

- IMS-LD (2003)
- CopperCore (IMS-LD open source player)
- Publications





# TENCompetence

```
function CSClickReturn () {  
  var bAgent = window.navigator.userAgent;  
  var bAppName = window.navigator.appName;  
  if ((bAppName.indexOf("Explorer") >= 0) && (bAgent.indexOf("Moz") < 0)) {  
    return true; // dont follow link  
  } else {  
    return false; // dont follow link  
  }  
}  
  
function CSButtonReturn () {  
  var bAgent = window.navigator.userAgent;  
  var bAppName = window.navigator.appName;  
  if ((bAppName.indexOf("Explorer") >= 0) && (bAgent.indexOf("Moz") < 0)) {  
    return false; // follow link  
  } else {  
    return true; // follow link  
  }  
}
```

# TENCompetence Project Aim

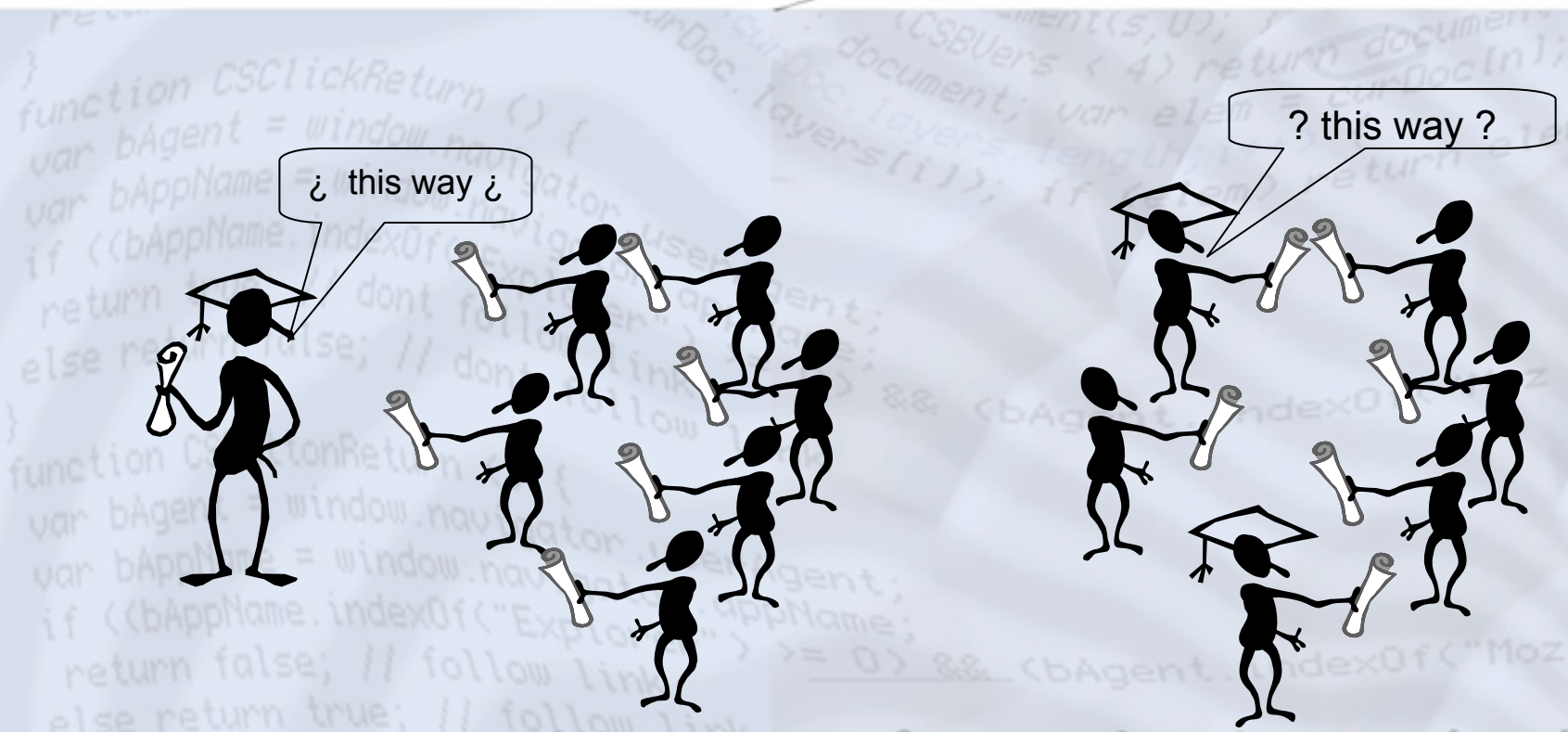
- **Building The European Network for Lifelong Competence Development**
- To be used by any individual, school, team or organisation that has a need to (further) develop the competences (of their members) in a formal or informal way
- The system will integrate and develop open source software based on the principles of web services/SOA



# TENCompetence Partners

<b>Open Universiteit Nederland (Coordinator)</b>
Software de Base, S.A.
LogicaCMG
Fundació Universitat Pompeu Fabra
GIUNTI Interactive Labs s.r.l.
Centre for Research and Technology - Hellas
Universität Hannover
Institut Europeen d'Administration Des Affaires
The University of Bolton
Universiteit van Amsterdam
Sofia University "St. Kliment Ohridski".
Stichting SURF
Synergetics
UNESCO-IHE
Stad Antwerpen

# Important aspect



**Consortium Management Activities**

**Aspect RTD activities**

- Knowledge Resource Sharing & Management
- Learning Activities & Units of Learning
- Competence Development Programmes
- Networks for Lifelong Competence Development

**Integration RTD activities**

- Requirements & Analysis of the Integrated System
- Technical Design & Implementation of the Integrated System
- Pilots with & Validation of the Integrated System

**Valorisation activities**

- Training
- Dissemination & Exploitation



# Core use cases

1. Want to improve a specific competence
2. Want to study for a new job (or 'competence profile')
3. Want to keep up-to-date in my current competence profile(s)

## Supporting Use Cases:

- Want to explore the learning resources, courses, people, etc. in a new field
- Want to assess my competences for a certain job (competence profile)
- Want to reflect on my competences

# The “Personal Competence Manager”

- Supports the development of competences by managing **personal action plans**
- The personal action plans includes **actions from multiple sources**: informal and formal learning activities, courses, study programmes, workshops, meetings, communities, working groups, ...
- Persons can **share the action plans** and underlying resources with others
- It **integrates various systems** for knowledge management, learning design, learner support, navigation support & positioning/assessment.

## 7 Core Requirements:

1. Support new pedagogical & organisational Models for Lifelong Competence Development
2. Support individuals to search the most suitable formal and informal learning activities
3. Stimulate pro-active sharing of resources
4. Support competence assessment
5. Provide various forms of user support services
6. Provide decentralized, self-organised management
7. Integrate isolated models & tools from four different areas (KM, Learning, CDP, CoP)

## Non-functional Requirements:

1. Open Source Licenses
2. Use of Open Standards
3. Web services/SOA based
4. Extensible
5. Services can be replaced by commercial services

## PERSONAL COMPETENCE MANAGER

## Organised Pilots in Project Plan:

1. Digital Cinema & ICT (first 18 month)
2. Health Care (after 18 month)
3. Nile Region (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