



# ePortfolio technologies

What technologies to implement ePortfolio environments?

Hong Kong 19-20 March 2007  
Melbourne 27-28 March 2007  
Wellington 29-30 March 2007



**Collective 2010 ePortfolio for all**  
EMPOWERING INDIVIDUALS FOR A LEARNING SOCIETY



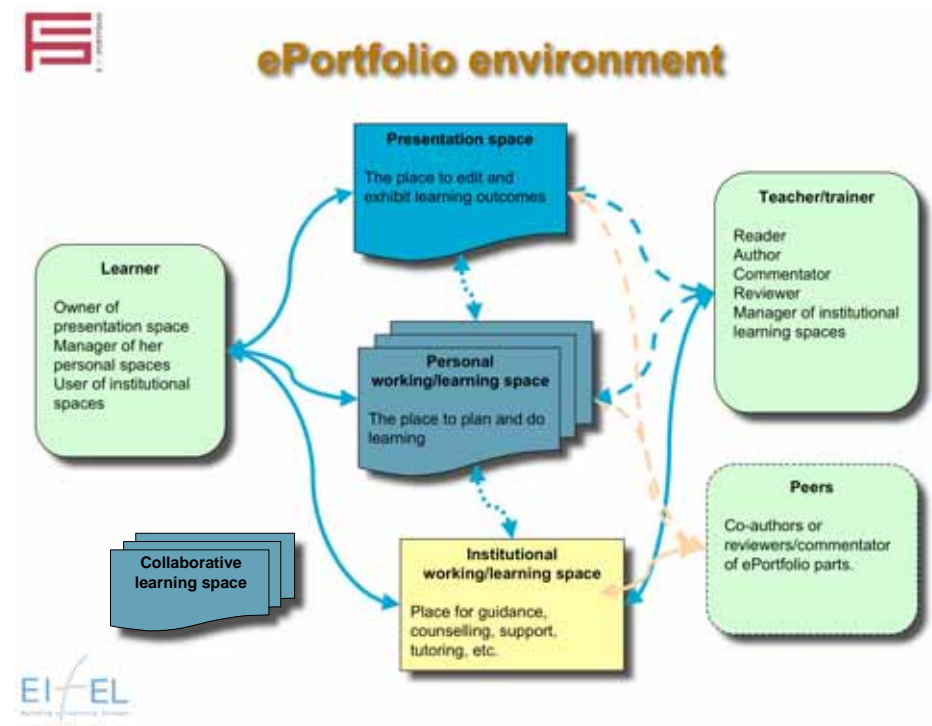

**ePortfolio 2007**  
MAASTRICHT UNIVERSITY  
12-19 OCTOBER  
Employability and lifelong learning in the knowledge society



Gold Sponsor



Silver Sponsor


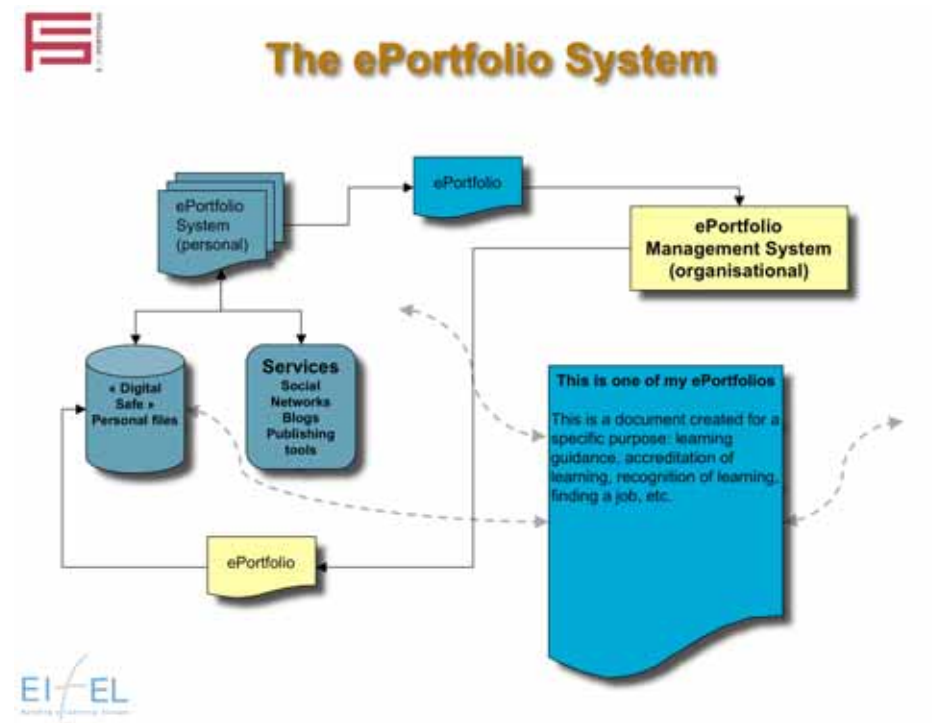
## ePortfolios and ePortfolio systems

```

    graph TD
      Personal[ePortfolio System (personal)]
      ePortfolio[ePortfolio]
      Organisational[ePortfolio Management System (organisational)]

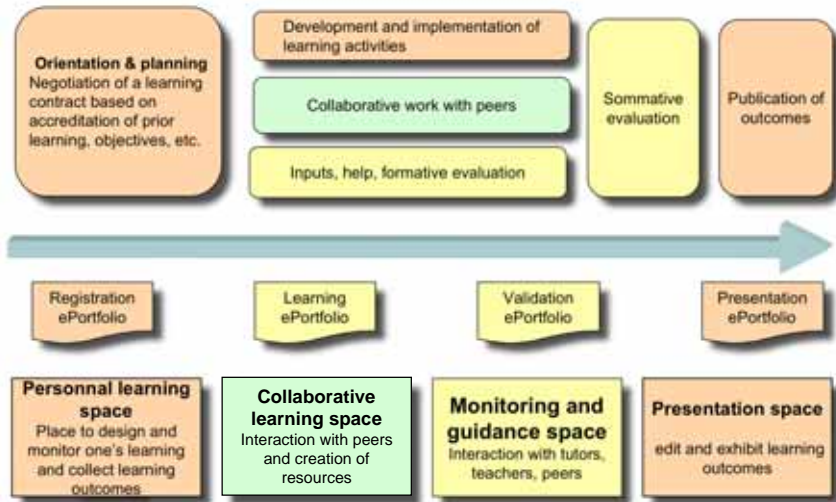
      Personal --> ePortfolio
      ePortfolio --> Organisational
  
```

- ePortfolio (Authoring) System**
  - a system used by a person to collect, organise, aggregate, connect and publish authentic and diverse learning outcomes to support reflective learning and practice for personal and professional development
- ePortfolio (Document)**
  - "a collection of authentic and diverse evidence, drawn from a larger archive, representing what a person or organization has learned over time, on which the person or organization has reflected, and designed for presentation to one or more audiences for a particular rhetorical purpose"
- ePortfolio Management System (ePMS)**
  - a system used to aggregate and connect authentic and diverse evidence of reflective learning and practice to enrich or create ePortfolios against the requirements of a specific organisational process

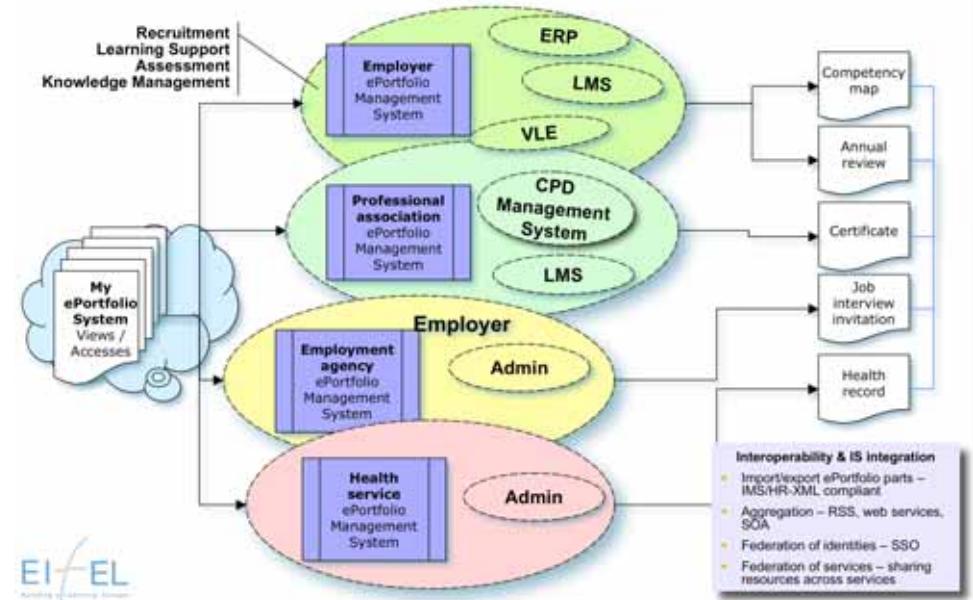





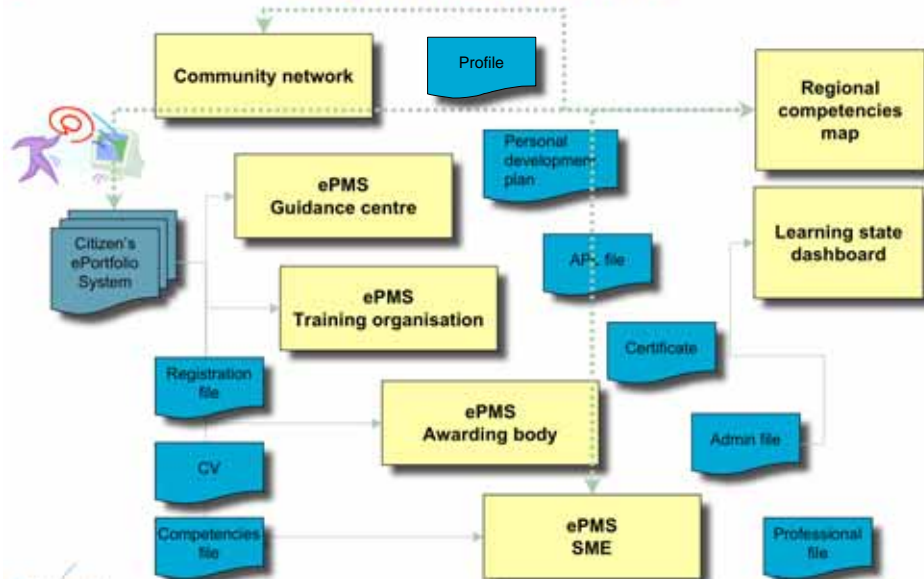
## ePortfolios and learning path



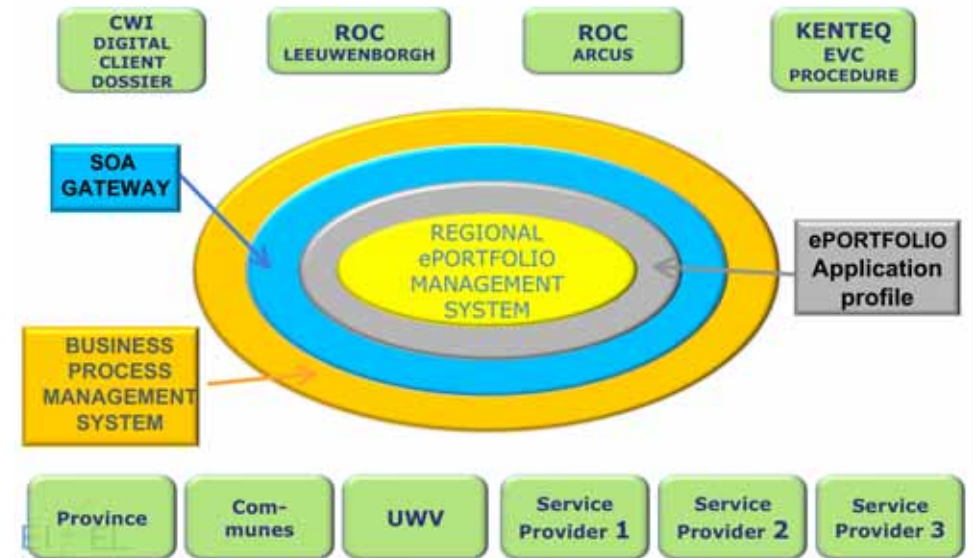
## ePortfolios management systems



## Regional ePortfolio



## A regional ePortfolio platform (Limburg, NL)





## Choosing ePortfolio tools

- ▶ ePMS or ePS...?
- ▶ What process?
  - Institutional assessment / job search / APL / self-assessment / peer review / story telling... ?
- ▶ What audience?
  - Teacher education / professionals / primary school pupils ... ?
- ▶ What scale
  - Group / class / institution / community/ cross-institution / regional ... ?
- ▶ What technology?
  - Open source / hosting / interoperability ... ?
- ▶ More
  - <http://www.electronicportfolios.com/myportfolio/versions.html>
  - <http://www.eife-l.org/publications/eportfoliosolutions>



## ePortfolio technology challenges

- ▶ Collecting, storing and accessing ePortfolio data and parts
  - What personal, institutional or regional responsibilities? Who hosts who? what happens when leaving school/university?
- ▶ Digital identity management
  - Liberty Alliance, Open ID, Open CardIdentity federation - SSO; privacy - access control?
  - Service federation - controlling sharing of data
  - Authentication - credibility of ePortfolio claims?
- ▶ Using of metadata
  - Getting rid of folders!
- ▶ Query mechanisms
  - Making knowledge accessible!
- ▶ Semantic annotation
  - No more bold or italics!
- ▶ Automatic generation of CVs and ePortfolios
  - Collection, connection and reflection should create the proper data set for automatic generation of basic presentations
- ▶ Multiple views of same collection
  - Synchronic, diachronic, structured, unstructured...
- ▶ Peer to peer - sharing, collaborating
- ▶ Linking individual, community and organisational ePortfolios
- ▶ Processes and workflows - eb-XMLData representation; export / import data - what standards?
  - XML, RDF, ontologies, topic maps, etc. SCOR (≠ SCORM)...



## Liberty Alliance

### Liberty's Architecture



[http://www.projectliberty.org/resources/presentations/LibertyGoldenPitch\\_General.pdf](http://www.projectliberty.org/resources/presentations/LibertyGoldenPitch_General.pdf)



## The Skills and Competency Open Resource (SCOR) Framework

Michael Brown, SkillsNET Foundation  
Serge Ravet, EIFEL



**Objective 2010 ePortfolio for all**  
EMPOWERING INDIVIDUALS FOR A LEARNING SOCIETY

**ePortfolio 2010**  
Employability and lifelong learning in the knowledge society

Michael Brown, SkillsNET Foundation  
Serge Ravet, EIFEL

SkillsNET Foundation Gold Sponsor  
UniServity Silver Sponsor

## Skills & Competencies Open Resources Framework

- ▶ SCOR is common language management toolkit to define skill and competency requirements using a proven ontology framework.
- ▶ SCOR essential components will enable users to:
  - Meet enterprise requirements with their own strategy.
  - Identify where personal and professional skills are wholly or partially common, thus facilitating cross-cutting training and sourcing.
  - Rapidly identify skills & competencies needed to meet emergent requirements and efficiently produce them.
  - Understand job demands at a level of detail that will allow optimization.
  - Invest in the solution and not the process to define skills and competency



## Business Advantage

Typical Investment	Potential Savings
Eliminate need to purchase Human Capital software	\$ 75,000.00 –to- 350,000.00
Significantly reduce Human Capital Architect fees. The SCOR ontology provides the core design.	\$125,000.00 –to- \$300,000.00
Reduce data integration expense. SCOR data outputs can dynamically feed your HC applications	\$100,000.00 -to- \$400,000.00
Start you Human Capital Skill and Competency content development in just a few days. No need to wait 2-3 months to load software and train personnel. Project management templates are provide to SCOR users.	\$50,000.00 –to- \$200,000.00
Use standard industry or business sector skills and competency metrics to benchmark your organization	\$25,000.00 –to- \$200,000.00
No need to develop quality control procedures/processes. QC processes are made available to SCOR users.	\$15,000.00 –to- \$125,000.00
Reduce the number of HR Experts/Consultants. SCOR workflow will provide majority of workflow, thereby minimizing consulting fees.	\$75,000.00 –to- \$300,000.00



## Productivity Gains

- ▶ SCOR is a unique internet toolkit that supports online skill and competency capture for ePortfolio, teaching, training, human performance, HR management, research projects, risk assessment, business modeling, and more.
- ▶ Using SCOR, users can maintain enterprise skill and competency requirements, schedule, and manage the Subject Matter Experts; collaborate on large scale Human Capital projects; access and export skills and competency content; create meta-skills (SkillObjects®); determine people skill and competency capability and access powerful Business Intelligence (BI) Metrics.
- ▶ Define work at the speed of need. SCOR “easy access” enables trained users to start a project within hours.



## Transform Human Capital Data







**Objective 2010**  
**ePortfolio for all**  
EMPOWERING INDIVIDUALS  
FOR A LEARNING SOCIETY

**Thank you!**

Michael.brown@skillsnet.org  
serge.ravet@eportfolio.eu

