

Core Research Area: *Interoperability*

Research project proposals produced by the experts of the 4th STELLAR Delphi round

262. Interoperability

Group: Researcher

Project title

Integration of Learning Environments

Project description

Today, from the learner point of view, TEL requires use of multiple different technical platforms together. Thus, for example, authentication is a problem in which the user needs to remember multiple accounts and their passwords. The research question is, how to integrate all the different environments in order to make the user experience as smooth as possible.

Project partners

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Project justification

This is more like a technical issue, but after solved, can open up new insight to develop future learning environments that go beyond current standards.

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Group: Researcher

Project title

Integration external tools in e-learning systems

Project description

Interoperability, tool integration, dynamic adaptation of content, interactive content, and automated learning assistance through student behaviour analysis, will configure the major research topics in this project.

Project partners

Several research groups in EUROPE

Project justification

As LMSs try to move beyond simple "content delivery" and adopt other educational approaches (e.g. practice-based learning approaches) the current standards and technologies do not provide enough support. To solve this limitation, some platforms can extend their functionality by a mechanism called "extensions". However, the complexity of these extensions is severely limited by the possibilities of the LMS. These limitations can be described as tailorability and extensibility deficiencies, which have been identified as the main drawbacks in current LMSs. The current trend to solve these limitations is to take advantage of the Software as a Service (SaaS) and Cloud Computing software deployment models. The main idea behind these solutions is to develop a learning tool separately from the LMS, and provide it with some interfaces to allow their integration.

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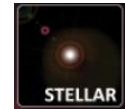
Group: Educator

Project title

Open data - Removing organisational boundaries

Project description

To look at what happens when you open up information and data sources within an institution and allow users to access these and use them freely with any device (phone, laptop, etc.). The TWOLER



project at the University of Westminster tried this and it was a great success but funding and job losses has stopped any further research.

Project partners

A range of institutions (universities, colleges, schools, public sector bodies, private enterprise) to expose a range of data sources, across several countries to explore the different cultural attitudes to open data

Project justification

To show how it is technically possible, to demonstrate the benefits to society of open data, and identify any barriers.

The education system is still based on out dated institutional models, we need to open up the institutions and empower the learners.