

# iCamp

innovative, inclusive, interactive & intercultural  
learning campus

## Final Plan for Using and Disseminating Knowledge

|                                       |                                               |
|---------------------------------------|-----------------------------------------------|
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**The iCamp Consortium consists of:**

|                                                                  |             |                |
|------------------------------------------------------------------|-------------|----------------|
| Centre for Social Innovation (CSI)                               | Coordinator | Austria        |
| Jožef Stefan Institute (JSI)                                     | Contractor  | Slovenia       |
| University of Leicester (ULE)                                    | Contractor  | United Kingdom |
| Universidad Politécnica de Madrid (UPM)                          | Contractor  | Spain          |
| Vienna University of Economics and Business Administration (VUE) | Contractor  | Austria        |
| University of Science and Technology (AGH)                       | Contractor  | Poland         |
| Kaunas University of Technology (KTU)                            | Contractor  | Lithuania      |
| Işik University (ISIK)                                           | Contractor  | Turkey         |
| Tallinn University (TLU)                                         | Contractor  | Estonia        |
| Tomas Bata University in Zlín (TBU)                              | Contractor  | Czech Republic |
| Siemens AG (SIE)                                                 | Contractor  | Germany        |

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### Main Contributors

| <b>Name</b>        | <b>Institution</b>                            |
|--------------------|-----------------------------------------------|
| Barbara Kieslinger | CSI                                           |
| Fridolin Wild      | VUE                                           |
| Tomaž Klobučar     | JSI                                           |
|                    | ALL (input regarding individual organisation) |

### **List of Acronyms**

|        |                                                       |
|--------|-------------------------------------------------------|
| API    | Application Programming Interface                     |
| EC     | European Commission                                   |
| IJTEL  | International Journal of Technology Enhanced Learning |
| IST    | Information Society Technology                        |
| OSS    | Open Source Software                                  |
| PLE    | Personal Learning Environment                         |
| RSS    | Really Simple Syndication or Rich Site Summary        |
| SIP    | Session Initiation Protocol                           |
| SQI    | Simple Query Interface                                |
| TEL    | Technology Enhanced Learning                          |
| VoIP   | Voice over Internet Protocol                          |
| WebDAV | Web-based Distributed Authoring and Versioning        |

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## ***Executive summary***

The objective of this document is to present planned dissemination and exploitation activities for the iCamp project beyond the end of the official funding period. As outlined during EC reviews, the project has achieved highly valuable results for a wider community, and one of the efforts should be put now on disseminating and exploiting these results.

To gain effectiveness of dissemination and exploitation activities we plan to focus on three different associated communities, namely, the developer communities, the scientific communities, and finally the user communities – facilitators and learners at university level. Dissemination and exploitation is an integral part of the iCamp project, with its main aim being to establish links with these outlined target groups. The main objective is to disseminate the results obtained for awareness and to support the most effective exploitation of them at European scale.

This document sums up the main ideas, plans and recommendations elaborated during the whole project period by the *Dissemination and Exploitation* workpackage within the iCamp project.

The first section of the document is designed to describe the main exploitable outputs and possible routes of its exploitation; the second section outlines three associated communities and how these communities are going to be addressed depending on their nature; the last, third section describes specific dissemination and exploitation routes addressed at all communities through direct and indirect promotion.

## **1. Exploitable knowledge and its use**

This section presents exploitable results, defined as knowledge having a potential for:

- practical applications in research and open source software (OSS) activities; or
- developing a product or process (e.g. within virtual learning environments); or
- creating or providing a service.

An overview is provided per category of exploitable result detailing how the knowledge has been exploited till now and how it will be exploited or used in the future. The information presented reflects input from each contractor, as well as the coordinator, i.e. from the whole consortium that owns the knowledge and has an active role in its exploitation.

### **1.1. Pedagogical models/interventions**

#### **Purpose**

iCamp's pedagogical models/interventions are focused on self-directed and self-organised learning, social networking, and collaboration in a mediated and networked environment across national borders. Described pedagogical interventions provide with activity patterns for educational design that supports competence advancement in these three areas of challenge under particular contextual constraints.

#### **Route for the exploitation**

Exploitation is planned at institutional, national and international levels. Besides the numerous research papers and presentations in various conferences and the comprehensive final deliverable D1.3 one of the most significant practical outputs is the iCamp handbook "How to use Social Software in Higher Education". Handbook presents iCamp adopted and validated social software tools by grouping those tools according to the learning activities they support. Pedagogical models and tools as well as iCamp trials have been presented in the national or local seminars organised by most of the partners during the last year of the project.

The majority of iCamp partners participated in iCamp trials where those pedagogical interventions were tested together with social software tools developed or adopted by iCamp. Some of the partners have already gone beyond trials and have implemented those results into regular teaching practices of their organisations.

CSI is leading the eLearning part of the post-graduate course called SOQUA where iCamp pedagogical principles are fed into online modules. SOQUA is a joint initiative of three non-university institutes, namely the Institute for Social Research and Analysis (SORA), the Working Life Research Centre (FORBA) and the Centre for Social Innovation (CSI). These three partners offer vocational qualification courses in social sciences. SOQUA post-graduate courses impart knowledge on social science research practice, project management, and qualitative and quantitative methods of applied social science, as well as on key issues of European social research. They are aimed at junior researchers at the start of their career and those who are working in applied social science. In addition, CSI is using Social Software for the internal knowledge generation and sharing. The pedagogical intervention strategies of iCamp have also been transferred to the colleagues at CSI, who are lecturing at different universities.

KTU has incorporated iCamp activity patterns into teacher training curricula. Courses on e-learning methodology and tools are delivered here to more than 100 educators each year. KTU also takes part in the joint master study programme "IT for Distance Education" where teachers of several courses have adopted part of the iCamp pedagogical interventions and tools.

One course based on iCamp pedagogical models has been designed and implemented at the master level program in the Institute of Informatics at TLU. Course design embraces elements from self-directing intentional learning and change projects, learning contract and distributed learning environments. International master course „e-learning“ was redesigned based on iCamp pedagogical models. Another course "e-learning with social software" has already been delivered 4 times in Tartu University Open University.

At AGH the iCamp models were adapted as a leading principle for e-learning courses conducted within the Centre of e-Learning for educators, and teachers especially: "Introduction to eLearning", "Innovations in eLearning" and "Learning Design". The courses integrate various e-learning tools that support collaboration and networking but on the design level they adapt self-directness as a principle for adult learning. At university level the models are applied within the faculty of Social Science (a partner for iCamp trials). iCamp approach was also adapted in IT projects for students in Teachers' Training College in Bielsko Biala. It was also a basis for two further projects submitted for EU Structural Funds "Lifelong learning and vocational training for educators". This fact that iCamp models are influencing teacher training may have a very strong impact on the future of education in Poland.

At Siemens Corporate Technology, the central innovation hub for R&D inside Siemens, there is an application project focussing on "global distributed collaboration" which starts from software development activities but will extend into more general knowledge sharing and learning practices. iCamp methods and models will be fed into this project during next months.

## **1.2. Tool portfolio**

### **Purpose**

Create a number of tools that enable interoperability between different systems. Extend existing open source software by adding new features to original systems. Create open and easy extendable interfaces for connecting new software to existing network.

### **Route for the exploitation**

Developed tools are designed to ensure interoperability between certain tools and data sources. All tools developed during the project are released as an open source and could be downloaded from iCamp codebase on Sourceforge portal. Every software product developed is delivered with documentation describing different features of products and the installation guide. If a delivered product has an API there is a manual how this API can be used by developers. From outside the iCamp consortium For some building blocks there are sandboxes prepared in order to provide possibilities for potential users to test it in isolated environment. These sandboxes are accessible via the iCamp website.

In the following we will deal with each of the tools separately:

### **1.2.1. iCampFolio**

#### **Purpose**

Due to a heterogeneous landscape of systems and tools, learners and facilitators need support that would guide them in choosing suitable tools and systems according to their personal learning needs. iCampFolio is the first prototype of multi-dimensional decision support system, facilitating the selection of technology enhanced learning (TEL) systems and tools. It can be seen as a portfolio of tools forming a part of the entire iCamp Space alongside with people, locations and artefacts.

iCampFolio is a web based software that allows users to select the most appropriate set of tools from a list by specifying activities that need to be supported by those tools. You can interactively indicate the importance of a certain activity by moving indicators and play with a set of tools composed in a space on your screen according to it's approximation to defined activity pattern.

#### **Route for exploitation**

iCampFolio is developed and supported by Tallinn University that has committed its human and technical resources for hosting this service during and after the project. The product is supposed to be hosted as a centrally available open service accessible for any interested individual or institutional user. Initially only tools from iCamp tool portfolio were reflected in the iCampFolio but lately there were several other open source or open access tools described and made available. We expect contribution from other users

and developers of learning tools and extend iCampFolio with description of other educational tools and services that might be interesting to iCamp target audience. iCampFolio is exploited as a part of iCamp tools portfolio. The main driving partner for the further use of this software is TLU.

### **1.2.2. Moodle**

#### **Purpose**

Moodle, being one of the most popular open source learning management system, has modular design which means that people can develop additional functionality. Development is undertaken by a globally diffused network of commercial and non-commercial users, spearheaded by the Moodle company.

There were several new features-extensions developed during the iCamp project for Moodle, namely SQL target implementation for federated search and Calendar plugin for WebDAV support and Feedback extension for the integration and synchronisation of feeds inside Moodle with other feed-back enabled tools.

#### **Route for exploitation**

All Moodle extensions are documented and published on iCamp SourceForge code repository. We are also going to exploit iCamp developed extensions through the Moodle open source community and will make them accessible through <http://moodle.org/modules>.

Moodle has already been installed and used by KTU, TLU, AGH and TBU. In Lithuania the SQL plugin is promoted and installed in several other Moodle instances across the Lithuanian Distance Education Network. Popularity of the Moodle is a significant prerequisite to attract other institutions in worldwide exploitation of developed extensions.

### **1.2.3. WordpressMU**

#### **Purpose**

WordpressMU is a multi-user version of Wordpress, the most popular open source blog publishing system that has a huge number of different extensions for expanding its functionality. Feedback is the most important extension developed by iCamp for Wordpress. It allows better integration between different feedback enabled feed providers.

#### **Route for exploitation**

Developed Feedback extension is available in iCamp codebase at SourceForge. Plugins developed for Wordpress will be also provided through official plugins directory as well as several most popular unofficial repositories (e.g. [wp-plugins.net](http://wp-plugins.net), [wp-plugins.org](http://wp-plugins.org), etc.).

Wordpress is already installed and used by KTU, ISIK, AGH, TLU and VUE. Feedback plugin is used for creation of distributed spaces among groups of students while organising group communication.

#### **1.2.4. Scuttle**

##### **Purpose**

Scuttle is a social-bookmarking system that allows many users to store, share and organize their favourite links in one place, making them accessible from anywhere via Internet. It is a web based system where the user has a possibility to share stored links with other users or to make them private. Tagging gives possibility to organize and search stored links easily by extending search to public links of other users.

##### **Route for exploitation**

Scuttle is exploited through iCamp SourceForge codebase and is available for download with developed extensions. Extensions will be available for download as separate modules also. As far as the original Scuttle developer didn't accept contributions, separate project SemanticScuttle based on Scuttle code was initiated by some enthusiasts. Communication with SemanticScuttle group has been started in order to incorporate changes into the active community release.

Scuttle is installed and hosted at KTU which is committed to provide recourses for further support and exploitation. KTU is actively involved in further development of Scuttle and there are plans to deploy this solution in Lithuanian Distance Education Network and Lithuanian Rural Internet Access Points. Technical implementation of distributed social bookmarking system was also successfully tested and is ready to accept new partners.

#### **1.2.5. Feed-On-Feeds**

##### **Purpose**

Feed-On-Feeds is a feed aggregation tool that provides with feed information storing and tagging services as well as sharing possibilities. Feed-On-Feeds multiuser service allows to create a personal aggregation space where user can save, manage, tag, and share incoming feeds, separate items or tags.

##### **Route for exploitation**

Updated source code of Feed-On-Feeds and developed extensions are available through SourceForge iCamp codebase, while the service is installed and hosted at KTU server. Feed-On-Feeds was tested and exploited during the iCamp trials. Further exploitation among partner institutions is still under consideration.

### **1.2.6. VideoWiki**

#### **Purpose**

VideoWiki is a Web-based software developed by KTU using Red5 Open Source Flash Server. VideoWiki combines benefits of Wiki and Video recording service. It can be used for recording and distribution of videos directly from the web-cam. Recorder video can be shared by using direct links or by embedding video into any web page.

#### **Route for exploitation**

VideoWiki is hosted by KTU and its source code is made available through iCamp code base on SourceForge. KTU is committed to provide resources and support it after the end of the project and there are also some plans to develop it further and integrate in some other systems.

VideoWiki was used during the project trials as well as in some teacher training and master courses as an optional tool for making self presentation or presentation of learning results.

At TBU there is another initiative to develop an open source system for recording and broadcasting the video. VideoWiki was a good start for experimentation and consideration of different aspects while looking for solutions regarding technological platform, functionalities, and user interface. This system is in the development stage yet and TBU will continue research in this field in other projects.

### **1.2.7. MUPPLE**

#### **Purpose**

In the style of personalisable portal pages like Netvibes or iGoogle, MUPPLE facilitates the creation of Wiki pages which include a web application mashup. MUPPLE software allows teachers to pre-define templates containing learning content and tools which are required or recommended for educational activities. Consequently, learners can use such templates as an initial point for self-directed learning and modify them along the learning process in two ways: by editing the content and by customizing the tool mashup according to their needs. Besides, MUPPLE logs the user interaction with tools and refines the tool recommendations rules.

#### **Route for exploitation**

The XoMashup application as well as the software customized for iCamp is provided through iCamp codebase on SourceForge. MUPPLE is already installed and maintained at VUE, as well as tested by some project partners. It is planned to contribute the XoMashup component to the OpenACS community and it will be developed further in the framework of the ROLE project. MUPPLE's ideas have been much promoted among members of research community and one of the most important achievements was

organisation of the MUPPLE dedicated workshop in the EC-TEL'08 conference.

### **1.2.8. myDentity (Mail proxy)**

#### **Purpose**

myDentity is a web based software for tracking and analyzing personal social network based on e-mail communication. It acts as a mail proxy server by changing mail headers in such a way that all e-mail communication, instead of going directly, can go through myDentity service. The only thing user should do after registering on myDentity is to change his address in "Reply to" field to a new address created on the myDentity server.

#### **Route for exploitation**

myDentity is exploited as a centrally supported service at [www.mydentity.eu](http://www.mydentity.eu) maintained by VUE. It is also available as a downloadable package from iCamp codebase on SourceForge. myDentity was used by project partners for internal project communication and by trial participants during the trials. It will be used in ROLE and other projects as well.

### **1.2.9. iLogue**

#### **Purpose**

iLogue is a software that can be used as a personal learning logbook. It is an attempt to realise the concept of personal learning contracts by means of a combined weblog- and wiki-style authoring environment. Main features of iLogue include negotiating and developing learning contracts, creating records of action, allowing and supporting a review phase.

#### **Route for exploitation**

iLogue is made available through iCamp codebase on SourceForge and will be contributed to the OpenACS community.

iLogue is installed on the server of VUE where it was used by project partners in the trials.

### **1.2.10. Sip.iCamp.eu**

#### **Purpose**

Sip.iCamp.eu is a VoIP gateway offered as a part of the iCamp infrastructure dedicated for interoperability of voice communication. It is a server that provides all the services needed for SIP-based VoIP telephony.

#### **Route for exploitation**

Sip.iCamp.eu is exploited as a service provided at Sip.iCamp.eu and will be made available for download and installation for any interested organisation.

Sip.iCamp.eu is installed and used by project partners for internal communication and was provided as a service for the trials participants. TBU is the main partner who takes responsibility for the further promotion of Sip.iCamp.eu.

### **1.3. Repository network**

#### **Purpose**

Developed infrastructure enables executing a search through distributed heterogeneous data repositories that were connected by using SQL – Simple Query Interface protocol. The repository network consists of middleware service, SQL portlet and SQL target extensions developed for different systems. Middleware service accepts queries through SQL portlet that is usually integrated in users' home system, retrieves data from all SQL enabled targets registered within a middleware service and presents this data back to SQL portlet.

SQL interface to target systems has been coded in 7 different languages and can be easily adapted to new systems. SQL interfaces for Moodle, VIPS, .LRN, IVA and some other systems used by project partners have been developed within iCamp and those repositories were connected to middleware service installed on [www.objectspot.org](http://www.objectspot.org). Besides, agreements were made with some well known digital libraries and data bases of scientific publications that were also connected to Objectspot service.

#### **Route for the exploitation**

The network can be directly accessed via [www.objectspot.org](http://www.objectspot.org) service hosted by VUE and through the portlet configuration service on iCamp website that allows administrators / developers / capable facilitators to generate the html-code necessary to include the portlet into e.g. a wiki or any other existing content management system. A Firefox Plugin for the search box was also developed and promoted on iCamp website as well as uploaded to repositories of Mozilla Addons at <http://addons.mozilla.org> and <http://mycroft.mozdev.org>.

The developed repository network has reached a significant impact among developers, researchers and users communities. Further development of SQL targets and improvement of Mediator server is already committed in several other projects. The number of SQL targets is constantly growing as well as objectspot popularity among users is increasing. An important step was adoption and implementation of Objectspot for Lithuanian National Distance Education Network by connecting institutional Moodle repositories spread all over Lithuania.

#### **Further exploitation will concentrate on those activities:**

- Promotion of created SQL extensions for other educational institutions that are interested in sharing their repositories.
- Development of SQL API's for other popular systems.
- Making agreements with popular digital libraries.
- Promoting creation of national nodes.

- Develop further and promote SQL search portlet by creating widgets/gadgets for popular personal home pages such as iGoogle, Netvibes, PageFlake and other.

## **1.4. Feedback**

### **Purpose**

Feedback is a technology for data exchange between different systems. Its working principle is based on RSS pushing technology. The main idea is content delivery to subscribed systems upon creation by avoiding regular requesting for the data that is used in ordinary RSS pull mechanisms. Another feature of Feedback is a possibility to propose a feed to another user who uses Feedback enabled system.

Feedback mechanism has been integrated in some tools used in iCampFolio. Feedback extensions have been made for Moodle, Wordpress, Scuttle and Feed-On-Feeds systems.

### **Route for the exploitation**

Feedback has been exploited in publications and conferences so far. Also, this technology is implemented in several systems adopted for iCamp. Extensions developed for Scuttle, Feed-On-Feeds, Moodle and Wordpress systems are exploited through the iCamp codebase on Sourceforge and through the communities of every single system. To check if the system is Feedback compatible the validator service was developed and is available at <http://validator.icamp.eu>.

Another important issue for Feedback exploitation is to convince big feed processing service providers, such as Feedburner, to include support for feedback into their services. Preparation of specification documents to standardisation body would be another push to the wider adoption of Feedback that has to be seriously considered by iCamp consortium.

## **1.5. iCamp best practices**

### **Purpose**

One of the aims is to develop a set of showcases to present the practical use of pedagogical models with iCamp tools that were validated during the trials. Such success stories can demonstrate to what extent educators find learning activities delivered with iCamp tools adaptable and reusable, compatible with pedagogical, philosophical and cultural values as well as useful for their professional development.

### **Route for the exploitation**

iCamp best practices are presented in iCamp Handbook "How to Use Social Software in Higher Education". This handbook attempts to make the results

of the iCamp project more accessible. Presentation of the tools is arranged according to the learning activities they support. The handbook is both a guide and a resource for anyone considering making use of Web 2.0 technologies in teaching or learning. For attracting and supporting users the help center (<http://helpcenter.icamp.eu>) was also established where interactive step-by-step demonstration of the tools is made available.

## 2. Associated communities

To gain effectiveness of dissemination and exploitation activities we focus our attempts on three different associated communities, namely, the developer communities, the scientific communities, and finally the user communities – facilitators and learners at university level.

### 2.1. Developer communities

iCamp project developed new tools and technologies (e.g. ObjectSpot, Mupple, Videowiki, Feed-back, etc.) as well as adopted and extended several open source tools (e.g. Wordpress, Moodle, Scuttle, Feed-on-Feeds, etc.).

Exploitation and sustainability is addressed at different levels:

**Hosting** of developed and adopted tools is provided by project partners;

**Open Source (OS) releases** are provided on iCamp code base at SourceFourge.net;

**Snow ball marketing** is applied by focusing at key tools and technologies.

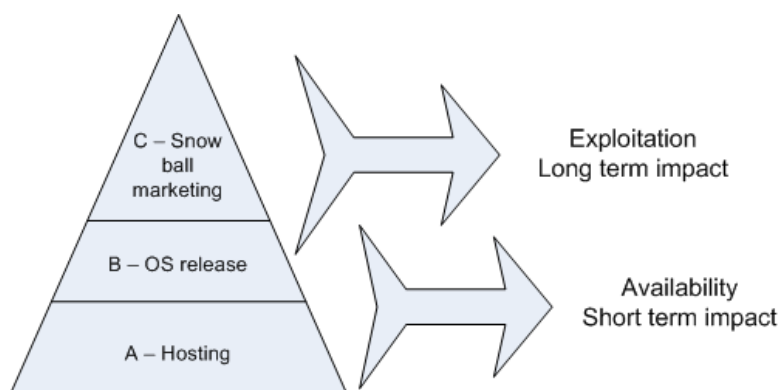


Figure 1. Three levels of sustainability

Hosting (level A) can ensure availability and short term impact only. Releasing developed software to OS community (level B) and producing easily downloadable installation packages addresses service providers and is one step further to exploitation outside consortium. Still, long term impact can be achieved only when technology or tools are widely adopted by the market. This wide adoption is possible only by focusing partners' efforts to the key technologies and tools in order to achieve snow ball marketing effect (level C). More detailed presentation of efforts for all three levels follows in the back order:

**C)** At level C the main focus is made on sustaining and promoting those core tools:

- Objectspot:
  - Mediator ([www.objectspot.org](http://www.objectspot.org));
  - Portlet (<http://www.icamp.eu/watchwork/interoperability/repository-network>);
  - SQL targets implemented in several different programming languages (PhP, Java, Python, Flash action script, Perl, C, XoTCL, .Net) for:
  - Open source platforms (Moodle, EducaNext, Drupal, IVA/Zope, .LRN, Course Online, ViPS),
  - several Digital libraries (ACM, CiteBASE, CiteSEER, DOAJ, EBSCO, IEEE, OAISTER, arXiv),
  - some reference sharing systems (BibSonomy, CiteULike, Connotea),
  - and for Google Scholar search engine;
- Feedback:
  - plugins for **WordPress**, **Moodle**, Feed-on-Feeds, Scuttle and other tools
  - validator available at <http://validator.icamp.eu>
- Mupple – Mush-Up Personal Learning Environment that is based on .LRN and open ACS is promoted within .LRN community.

Those tools and technologies are supported and promoted by project partners in order to achieve snow ball marketing effect.

One of the most effective ways to address developer communities is to participate in developer conventions. Most popular and widespread tools such as Moodle or Wordpress have regular developer meetings that are the excellent place to present and discuss iCamp proposed innovations and developed extensions in order to get the snow ball effect. Examples of such activities are: Open ACS and .LRN conference, February 12-16, 2008 in Guatemala where a paper “A Web Application Mashup Approach for E-Learning” was presented, with the focus on iCamp developed XoWiki Mashup (Mupple) and MoodleMoot Conference; September 18-19 2008 in Klagenfurt at Alpen-Adria-University, Austria, where a paper “Interoperability In Open Learning Environment - Solutions For Moodle” was presented. Although there were no agreements signed with potential adaptors but during informal discussions representatives from several institutions expressed their interests to test FeedBack and SQL modules by trying to incorporate them in their institutional setting. Some companies working as

Moodle and .LRN service providers (e.g. Finish company Mediamasteri) has also expressed their intentions to test and to consider possible inclusion of those modules into their service packages. Adoption of Objectspot for Lithuanian Distance Education Network by connecting institutional Moodle repositories into national federated search engine demonstrated high potential to expand this concept of national Objectspot adoptions to other countries. Further hosting and development of the MUPPLE will be lead by VUE in the framework of the ROLE project.

**B)** Open Source tool communities are mostly promoted at B level:

- Preparing concise technical documentation ("one paper per each tool") to make it easy to maintain them in the future;
- Providing source code of all tools on Sourceforge portal at **<http://sourceforge.net/projects/icamp>**;
- Packaging all major tools that were developed and customized (making downloadable packages with install instructions, install scripts, etc. - all it is needed to take a tool and use it) in a way convenient for developers or administrators.

**A)** Most of the tools developed within iCamp project will be supported and hosted by partners at their own institutions (A level). We have clear commitment for the following tools from the partners listed below:

- Core tools:
  - Objectspot (VUE, KTU);
  - Mupple (VUE, TBU);
- Additional building blocks:
  - myDentity (VUE);
  - iLogue (VUE);
  - VideoWiki (KTU);
  - Feed-on-Feeds (KTU);
  - Scuttle (KTU, TBU);
  - iCamp Folio (TLU);
  - The Web interface for managing OpenSER+Asterisk VOIP servers (TBU);
  - Feedback enabled WordPress MU (KTU, AGH, TLU);
  - Feedback and SQL enabled Moodle (KTU, AGH, TLU, TBU).

## **2.2. Scientific communities**

It is important to address both – community of scientists in Technology Enhanced Learning (TEL) and community of researchers in educational science. For those communities we arranged two separate targeted events (workshop and symposium) that helped to facilitate wider scientific discussions and extended scientific communities for further work on related topics:

iCamp initiated symposia on ED-MEDIA conference in June 30 - July 4 Vienna, Austria, that was directed to community of researchers in educational sciences. In this symposium iCamp was highly represented with 5 paper contributions. The topics addressed ranged from more conceptual approaches towards Personal Learning Environments (PLEs) and self-direction in social spaces to technological challenges of distributed tools landscapes, as well as some constructive criticism on learning design approaches (e.g. IMS).

While considering TEL research community, it was decided to focus our efforts on the exploitation of MUPPLE and to organise a dedicated workshop on EC-TEL'08 conference in September 16-19, Maastricht, Germany. This idea became very successful among TEL community and got support from several other research and development projects, such as ProLix, TENCompetence, Palette and LUISA. There were 12 speakers and 42 participants in MUPPLE workshop and its proceedings were published through CEUR-WS.org service (<http://ceur-ws.org/Vol-388>).

Another important contribution to the dissemination and exploitation among scientific communities are scientific journals and book contributions that aim to present main findings and achievements and to increase visibility of iCamp among those communities.

As there has been accumulated big input to proceed scientific dialog in wider communities (please see the Final Management Report for a complete list of publications), it is expected that the consortium will continue producing iCamp related scientific journals and book contributions in a long time perspective. E.g. now there is one already invited article to the IJTEL journal (VUE).

## **2.3. User communities**

Dissemination for the user communities in and outside universities (namely, facilitators and learners at university level) is based on printed material, face to face presentations and training sessions as well as produced promotional resources online.

This process will be much facilitated by using iCamp Handbook for educators "How to use social software for learning process" with the focus on iCamp developed tools. The handbook is available both in a printed version and as an open access electronic book that can be accessed via the iCamp

website. This handbook illustrates possible strategies for making good use of developed technologies, guided by a constructivist pedagogical vision.

iCamp consortium has many useful contacts that will be contacted to either aid in dissemination or be targeted. Those existing networks provide a good platform to undertake the dissemination for awareness and of exploitation.

### **PROLEARN community**

PROLEARN was a 'Network of Excellence' financed by the IST (Information Society Technology) programme of the European commission dealing with technology enhanced professional learning. PROLEARN's goal was to achieve a greater focus on questions of European importance and a better integration of research efforts. PROLEARN initiated and improved cooperation between various actors of academia and industry in the area of technology enhanced learning.

### **SEE-ERA-NET**

The Southeast European Era-Net SEE-ERA.NET is a networking project aimed at integrating EU member states and Southeast European countries in the European Research Area by linking research activities within existing national, bilateral and regional RTD programmes. SEE-ERA.NET is financed by the European Commission and managed by a consortium of 17 institutions from 14 European countries.

Contacts available in this network are especially important as the project involves institutions from such countries as Bulgaria, Croatia, Hungary, Romania, Serbia, Bosnia and Herzegovina, etc.

### **EATEL**

The objective of European Association of Technology Enhanced Learning (EATEL) is to promote education and continuing education in the area "Technology-Enhanced Learning" (TEL) and to support science and research in this area. EATEL provides support for the provisioning of material and tools for education and continuing education in the area "Technology-Enhanced Learning"; organizes and supports various scientific and educational events, such as conferences, summer schools, seminars and discussion forums, in the area "Technology-Enhanced Learning"; etc.

### **CEENet**

Central and Eastern European Networking Association (CEENet) is an association of national organizations which focus on the academic, research and educational networking. CEENet membership comprises of 23 national research and education networks from the countries that are very targeted by the iCamp consortium: Bulgaria, Croatia, Hungary, Latvia, Macedonia, Moldova, Romania, Serbia and Montenegro, Slovakia, etc.

### **BDRA**

The Beyond Distance Research Alliance (BDRA), University of Leicester (UK), brings together teachers and researchers, interested in the field of

innovation in teaching and learning, from any discipline or level of education. BDRA provides a focused way of networking and collaborating nationally and internationally in the field, a focus and an interesting place to attract external visitors and collaborators. The Alliance also provides an arena for demonstration and discussion of new internal and external developments.

### **GDLN**

The Global Development Learning Network (GDLN) is a partnership of over 120 learning centers (GDLN Affiliates) in nearly 80 countries around the world. GDLN Affiliates collaborate in holding events that connect people across countries and regions for learning and dialogue on development issues. Offering a combination of distance learning tools such as interactive videoconferencing and the internet, and expert facilitation and learning techniques, GDLN Affiliates enable individuals, teams, and organizations working in development around the world to communicate, share knowledge, and learn from each others' experiences.

### **Estonian E-University Consortium**

Estonian e-University is a consortium of universities and applied universities. Functions of the Estonian e-University consortium are: coordination of cooperation between universities and applied universities based on principles of profound studies; increasing the availability of quality education for students and other people willing to learn, for example Estonians abroad and foreign students; etc. Estonian e-University is a member of EADTU (European Association of Distance Teaching Universities), ePortfolio, EFQUEL (European Foundation for Quality in eLearning), EDEN (European Distance and e-Learning Network), and Baltic Sea Virtual Campus.

### **EERA**

The European Educational Research Association (EERA) is an association of national educational research associations (only national associations can become a member of EERA). EERA encourages collaboration amongst educational researchers in Europe, promotes communication between educational researchers and international governmental organizations, and disseminates the findings of educational research.

### **EARLI**

The purpose and objects of the European Association for Research on Learning and Instruction are promotion and development within Europe of empirical and theoretical research into learning and instruction and the interchange of information relating to this subject between European members and other Associations throughout the world towards an international achievement of these objects and purposes. This is done through organization of conferences, publication of a newsletter, promotion of mutual scientific communication and research co-operation between members and the organisation of a network of correspondents.

### **3. Dissemination and exploitation routes**

iCamp ideas have made big influence on partners' research and development activities as well as implementation of e-learning at international, national and institutional levels. All communities with regards to dissemination and exploitation will also be addressed through direct and indirect promotion in the future.

#### **3.1. Direct promotion**

Direct promotion is normally used most effectively when trying to commit interested communities but it also can be used for awareness rising. For direct promotion the following initiatives and means are planned:

- Some of the ideas and products founded in iCamp have found follow-up implementation and support from other projects. Here we present the list of already approved iCamp related project where partners continue research and development work on specific ideas or follow-up implementation of iCamp methods and/or tools:
  - REVIVE – Reviewing and Reviving Existing VET Curriculum (started October 1st, 2008 and is planning to utilise iCamp pedagogical models for VET).
  - STELLAR – Sustaining Technology Enhanced Learning Large-scale multidisciplinary Research. The new Network of excellence is expected to be started in February 2009 (<http://stellarnet.eu>).
  - Responsive Open Learning Environments (ROLE, to be started in February 2009): exploitation of selected iCamp tools (ObjectSpot, Mupple) and concepts ( mash-up personal learning environments, distributed feed networks).
  - iCoper - Interoperable Content for Performance in a Competency-driven Society. (started on the 1<sup>st</sup> of September 2008 and aims at building best practice network in the frame of the eContentPlus programme, [www.icoper.org](http://www.icoper.org)).
  - Language Technology for Lifelong Learning (LTfLL, started March 2008): further development of iCamp ideas (feed networks, widgets, language technology).
  - IntelLEO – Intelligent Learning Extended Organisation. (A STREP starting in February 2009)
  - APOSDLE: exchange of ideas regarding repository federations.

- Palette, TENcompetence, Prolix, Luisa: joint workshop and concertation about mash-up personal learning environments.
- LEMAIA: Identification of Best Practice. (a project under the Life Long Learning Programme)
- InnoUniLearning: Best Practice Transfer.
- MeRLab - Innovative Remote Laboratory in the E-training of Mechatronics (Leonardo da Vinci program project, [www.merlab.eu](http://www.merlab.eu)).
- e4VET (Enhancing, Empowering and Emphasizing E-learning in Vocational Education and Training), Leonardo da Vinci program.
- OpenScout (Skill based scouting of open user-generated and community-improved content for management education and training), eContentPlus programme (expected to be started in April 2009)
- Building blocks of educational networks, national project in Slovenia.
- ETF7663 The framework for supporting and analysing self-directed learning in augmented learning environment.
- SF0130159s08 E-learning systems with distributed architecture, their interoperability and models of application.
- MOSEP – More self-esteem with my ePortfolio.
- Online course according to the eJump project (<http://www.iml.umu.se/aktuell/>).
- Teacher training within some partner institutions (incorporation iCamp modules into teacher training curricula).
- Embedding iCamp methods and tools into own university strategy.

### **3.2. Indirect promotion**

Indirect promotion is the best for addressing wider audience and rising awareness about the project. Following means are planned to be used for indirect promotion:

- Approved events addressing iCamp communities of developers, scientists and users:
  - REVIVE training workshop, 2009 Mar 1-2, Budapest, Hungary.

- TENcompetence Winter School 2009, 2009 Feb, Austria.
  - ROLE Kick-off Meeting, 2009 Mar 2-3, Lausanne, Switzerland.
  - Joint European TEL Summer School 2009, May 30 – June 6, Terchova, Slovakia.
  - Vzgoja in izobraževanje v informacijski družbi, 2009 Oct 12-16, Ljubljana, Slovenia.
  - Pre-doctorate & Post-graduate courses on TEL, 2009, Madrid, DIT- UPM.
  - Learning ICT training sessions and courses, 2009, Madrid, DIT- UPM.
  - Next Generation Internet Courses (Isabel-supported activities), 2nd semester 2009, Madrid (UPM) + Barcelona (UPC) + Valencia (UPV).
- Flyers and other printed materials.
  - iCamp website that will be re-arranged and switched from project-oriented to results-oriented.
  - Flash drives (with iCamp logo) containing iCamp promotional video, Handbook and source codes of all tools.
  - Professional promotional video with the aim to shortly introduce the iCamp project and its results; it covers presentation of international iCamp trials, interviews with project and trials participants presenting their expectations and impressions about iCamp. The video is available at Youtube:
  - <http://www.youtube.com/watch?v=7qSyVZNcJgM>
  - Presentations about iCamp tools recorded and provided on Video lecturing system ViPS.

## ***4. Closing remarks***

As the results presented in this document show the iCamp project has been rather complex with regards to fulfil its ambitious aim to actually combine advanced pedagogical concepts with innovative technological solutions and move away from monolithic software solutions. This leaves us with a broad range of different results, some of which remain at a more experimental/prototype level while others have already reached a status that led to their implementation in big training networks (e.g. the Lithuanian National Distance Education network).

One factor that has always driven the project during the whole duration has been the strong commitment of the partners and as a consortium we are confident that this commitment will also assure that the results of this project will also be further disseminated and exploited in the future.