



# eLearning – DTN

eLearning Newsletter • Issue 1 • December 2011

## In this issue

Information about eLearning-DTN project - what are we offering and who will benefit.

## Upcoming events

Test events in May 2012 in Portugal. Restricted number of seats. Special invitations. For info please contact: [info@eLearning-DTN.eu](mailto:info@eLearning-DTN.eu)

## Participating Organizations in eLearning-DTN

Tolerant Networks Ltd.  
Ireland, Contact Mr. Kerry Hartnett  
[www.tolerantnetworks.com](http://www.tolerantnetworks.com)

Instituto Pedro Nunes, (IPN), Portugal  
Contact Mr. António Cunha  
[www.ipn.pt](http://www.ipn.pt)

MEIS storitve za okolje d.o.o., (MEIS), Slovenia  
Contact Dr. Marija Zlata Božnar  
[www.meis.si](http://www.meis.si)

Power Lake AB, (PLAB), Sweden,  
Contact Ms.Barbro Fransson  
[www.powerlake.se](http://www.powerlake.se)

## Coordinating organization



Luleå University of Technology (LTU), SE-971 87 LULEÅ  
Contact Project Manager:



Photo: Staffan Wingborg. From Boda, Jämtland, Sweden.

## eLearning-DTN project

How to build and implement DTN-based internet access with gender and cultural sensitive approaches (eLearning-DTN ) transfers knowledge from an EU FP7 project Networking for Communications Challenged Communities: Architecture, Test Beds and Innovative Alliances (N4C) which was coordinated by LTU. N4C aimed to develop and test a broadband like network with use of Delay and Disruption Tolerant Networking (DTN) a technology for nomadic and rural use where there is need for a computerized messaging service. Target for N4C is regions that do not have access to optical fibres, copper cables, radio waves and satellite.

This is the first issue of the eLearning-DTN project's newsletter. We plan to publish at least two more issues of the english version of the newsletter during the project phase. We also plan to publish one language version for each additional language (Swedish, Portuguese and Slovenian).

On our website you will find more information and material for download: <http://www.elearning-dtn.eu/>

eLearning-DTN welcomes our readers and wishes you:

**Merry Christmas**

Dr. Maria Udén  
telephone +468 493 023,  
mobile +46 70 5334978  
[maria.uden@ltu.se](mailto:maria.uden@ltu.se)

### Editorial management

Power Lake AB  
contact Barbro Fransson  
[info@eLearning-DTN.eu](mailto:info@eLearning-DTN.eu)

#### Info på svenska (SE)



#### Info in Slovenščina (SI)



#### Info in Português (PT)



## and A Happy New Year!

Dr. Maria Udén, Project Manager

### eLearning-DTN - a transfer of innovation

eLearning-DTN is transferring innovation from N4C to new audiences. The N4C aimed to extend internet access to people, businesses and authorities operating in remote locations. Remote regions are often vast and sparsely populated, with a relatively poor economic base so that deployment of conventional technologies is not viable. N4C has attracted a lot of interest in Sweden and Slovenia where the N4C test beds are under development and internationally. Request to cooperation has come after an invitation by Brazilian government, and by research teams working with climate issues in Alaska.

N4C has used commercial-off-the-shelf (COTS) hardware's that can be bought in any electronic store in the network. The course will be offered in package with COTS equipment but the module will also be offered without hardwares. DTN is also distributed Open Source Software (OSS).

There is an urgent need to get training modules so the DTN-technology can be implemented. The test bed N4C was involved in has demonstrated this need both in schools and among rural SMEs and NGOs. The eLearning-DTN course - How to build and implement DTN based internet access with gender and cultural sensitive approach aims to address that need and target (SMEs, NGOs, etc. and schools, teachers, training colleges). The aim with eLearning-DTN is to give them knowledge so they can build DTN-based internet access. The course can be used in schools but also among people studying on-line.

The course will contain six modules set up on a moodle;

1. How to start – what you need in form of ICT software and other equipment ;
2. How to implement software;
3. How to build your network – people, mules and nodes;
4. Working with people in deployment - how to recruit user;
5. Case: A Deployment to NGO in Swedish Lapland;
6. Case: B Environmental deployment;
7. Case C How SME and NGO can deploy/make businesses on DTN.

Work is divided into six work packages:

1. Project management
2. Content
3. eLearning ICT tool
4. Tests
5. Evaluation and Quality Assurance
6. Dissemination.

### eLearning work shop in Slovenia

One of the cases that eLearning-DTN project is testing is deployment of DTN-technology in the Postojna cave in Slovenia. The cave is one of the major tourist attractions in Slovenia. The course will be tested on the staff working in the cave. The first test of the course outline was done in a work shop 10-14 October 2011 at the CSS 2011 Conference in Ljubljana  
[http://cot.uni-mb.si/css2011/index\\_eng.html](http://cot.uni-mb.si/css2011/index_eng.html)



Photo: From the Postojna cave.



Photo: Tourists travel by small trams in the cave. The DTN-technology is applied on the trams.



Photo: Partner MEIS is responsible for the tests in the Postojna cave. MEIS staff is applying the equipment in the cave.

### **eLearning-DTN Meeting in Dublin 7-9 November 2011**

In beginning of November 2011 eLearning-DTN held its first work shop at TCDs premises at the , O'Reilly institute in Dublin.. The aim of the meeting was to get expert opinions from test of the eLearning-DTN course outline and the draft courses. Five outside experts were gathered at the meeting who contributed with valuable insights on how and what to do. eLearning-DTN thanks the five experts for their dedicated participation in testing the course!



Photo: From Dublin meeting. Independent expert Dr Kay Mac Keogh presenting her views on eLearning-DTN pedagogic and eLearning model.



program.

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## **e Learning – DTN**

is a transfer of innovation transferring innovation from the FP7 project N4C to new audiences.



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