A.S.DRIGAS, Y.VRETTAROS, D.KOUREMENOS, L.G.KOUKIANAKIS, P.D.STAVROU

Supportive Technologies for hard of hearing individuals

This article presents an electronic platform, which acts as a supportive tool for learning-education, supporting and intervention for hard of hearing individuals. The aforementioned activities are included in the e-psychology activities and hence can be considered as a supportive tool for both elearning and e-psychology for these individuals. Within the platform, lessons in the Sign language were developed and used, which deal with the usage and exploitation of ICTs and even e-commerce. The development of these lessons was based on multimedia technologies such as visual material, streaming digital video and video conference. The implementation of this platform was based on two axes-ideas. The first deals with the usage of ICTs as a tool in order to expand the communication abilities of the hard of hearing and as an intervention tool for the improvement of their equal access to: education, knowledge and employment. The second deals with the usage of ICTs' as learning objects in order to exploit them, enhancing hence their vocational life, ensuring their equal access to continuous vocational training without any form of discrimination, developing their enterprising and competitiveness skills through ICTs, expanding their vocational horizon and finally, developing their professional skills through the ICT tools.

Supportive Technologies for hard of hearing individuals

A.S.DRIGAS, Y.VRETTAROS, D.KOUREMENOS, L.G.KOUKIANAKIS, P.D.STAVROU

BRIEF

This article presents an electronic platform, which acts as a supportive tool for e-learning-education, supporting and intervention for hard of hearing individuals.

Objectives

Distance and life-long training Environment: we developed distance and life-long training Environment for the deaf people in the e-commerce and new technologies sector via e-learning tools.

Equal rights :

The support of the **equal rights** of Deaf people for their access and real attendance in the professional training.

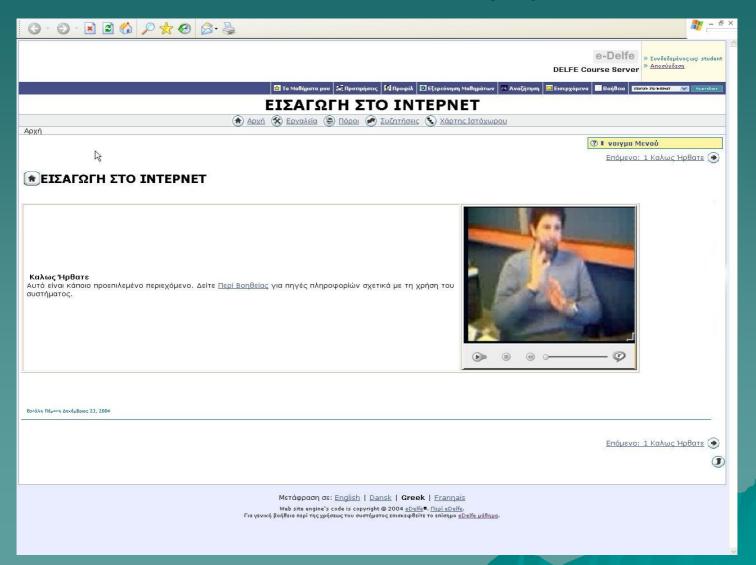
New professional fields:

The creation of a passage for these individuals into the **new professional fields** via their training with specialized knowledge and dexterities in the use of the continuously developing sectors of e-learning and electronic Trade (e-commerce).

Platform (1)

- Within the platform, lessons in the Sign language were developed and used, which deal with the usage and exploitation of ICTs and even e-commerce.
- ◆ The e-Learning environment for the Deaf People is adapted to their capabilities and communication abilities via the Sign Language. The environment is based on the usage of the advanced teleconference services of Internet (network virtual classroom) and offers a sum of facilities and services that are able to support, via an easy and friendly way, education and training in the form of life long and continuing education for the Deaf People.

Platform (2)



Axes-ideas (1)

The first deals with the usage of ICTs as a tool in order to expand the communication abilities of the hard of hearing and as an intervention tool for the improvement of their equal access to: education, knowledge and employment.

Axes-ideas (2)

The second deals with the usage of ICTs' as learning objects in order to exploit them, enhancing hence their vocational life, ensuring their equal access to continuous vocational training without any form of discrimination, developing their enterprising and competitiveness skills through ICTs, expanding their vocational horizon and finally, developing their professional skills through the ICT tools.

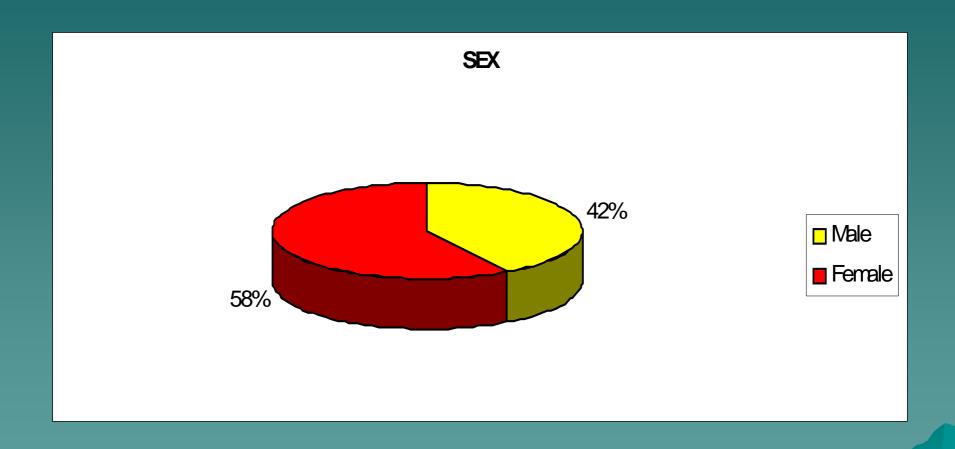
- "Introduction to Internet"
- lessons in real classroom

- "Introduction to E learning"
- lessons in real classroom.

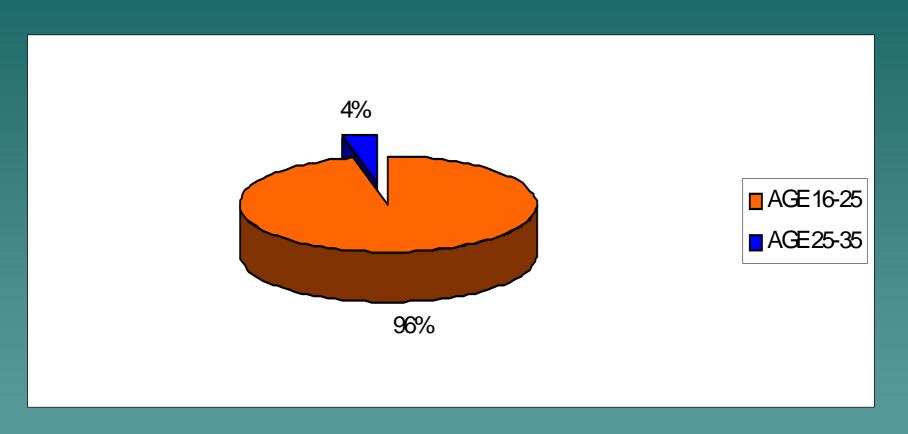
- "Introduction to Internet"
- lesson in Virtual Classroom.

- ◆E- commerce
- lessons in Virtual Classroom.

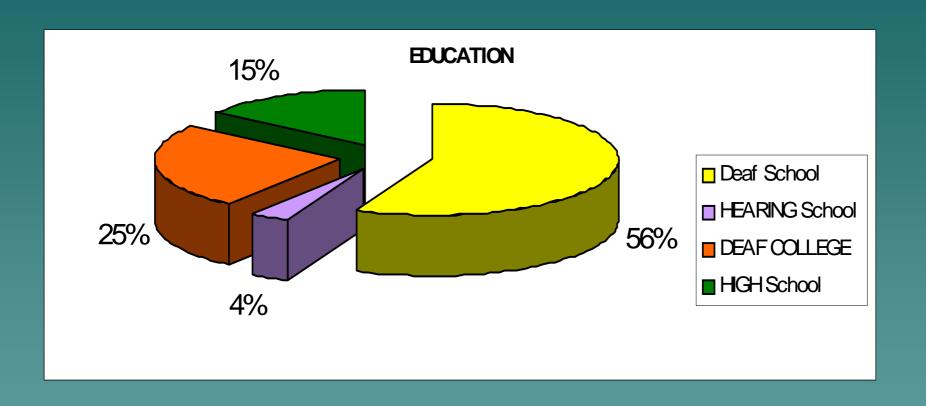
Sex



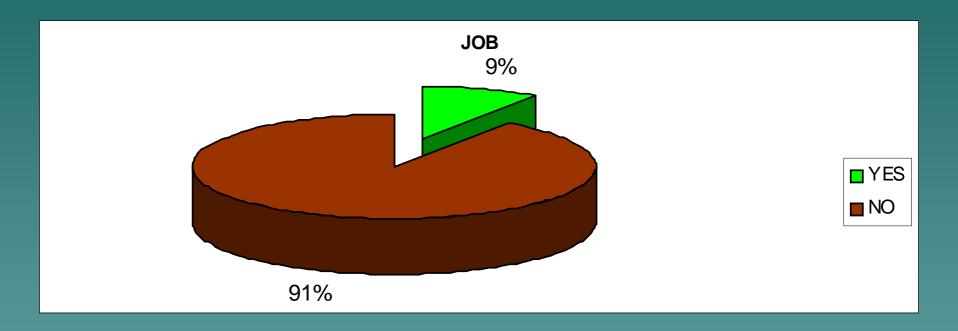
Age



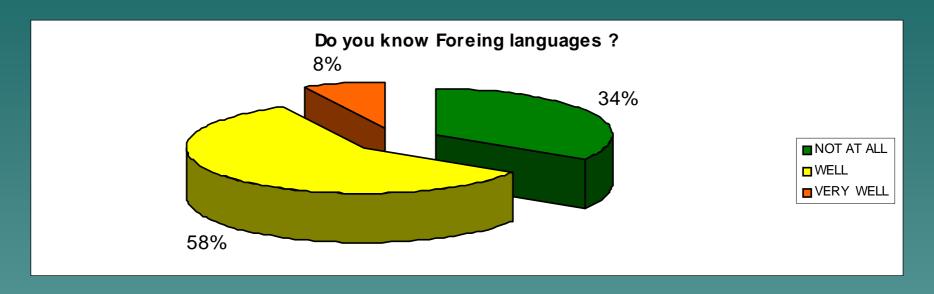
Education



Job

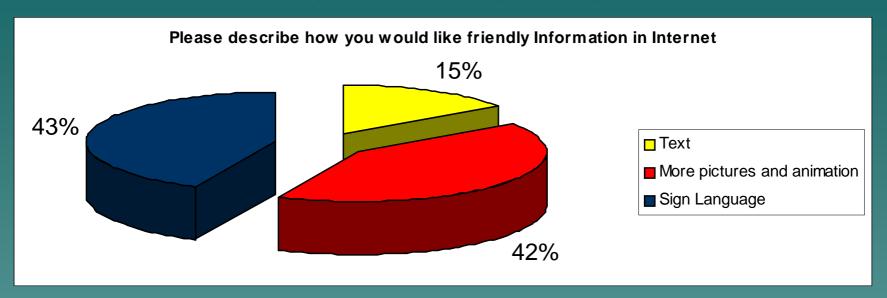


Linguistic dexterities



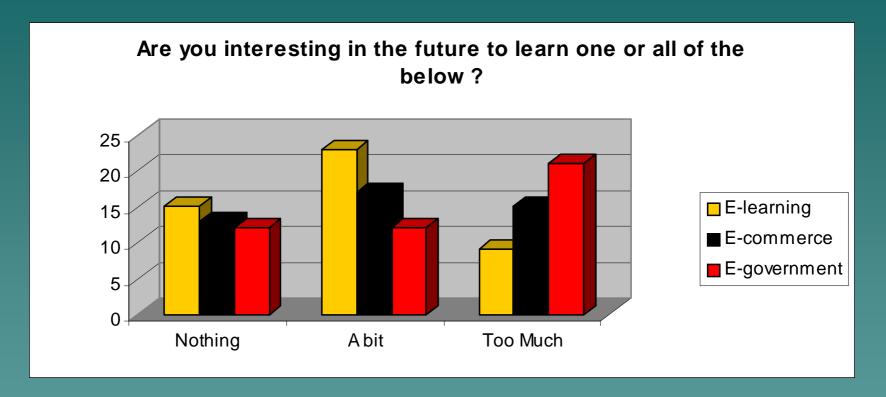
The deaf individuals do not have the linguistic dexterities for the use of possibilities of internet.

Sign Language



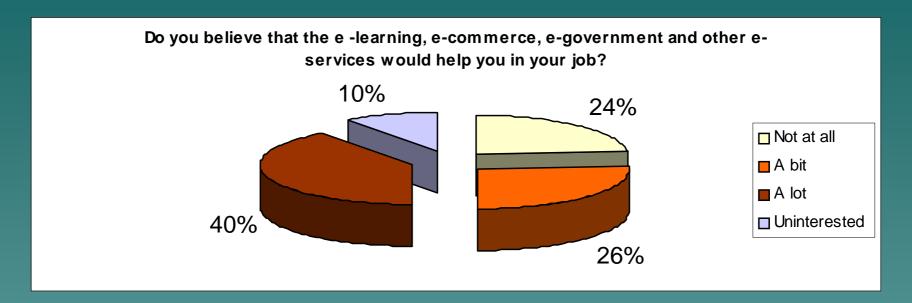
The Sign language constitutes the best way of facilitation of hearing impaired in the use of technological possibilities of internet.

Future



 The deaf individuals have particular interest they are educated in future in the use of applications e - learning, e- commerce and e- government

Results



 The deaf individuals believe that the use of new technologies, is importance for their professional integration and improvement

Problems and limitations

- In some areas of the language there are no standardized signs, so there may be some theoretical objections as to the use of particular entries.
- DSL links of at least 384Kbps are considered as the minimal requirement for a Sign Language Virtual Classroom

THANK YOU.

You can visit

DELFE web site:

http://imm.demokritos.gr/DELFE/