

INTRODUCTION

The Bologna process implementation has brought about a change in the Spanish University and principal objectives of the traditional education has been modified to adapt at the European Higher Education Area. In the Universidad Politécnica de Madrid (UPM), we have developed an integrated solution of videoconferencing and recording lectures/seminars which includes a web portal, a videoconferencing tool and an economical and easily transportable hardware kit. The videoconferencing tool that we have used is called Isabel and the web platform of schedule, stream, record and publish the videoconferences automatically is called Global Plaza.

This pilot project called **CyberAula 2.0** include five scenarios (English courses, Digital Systems, Web 2.0, Structure of materials and Plants of agro-alimentary interest) of different campuses of UPM (Figure 1). We present the results corresponding to one of this scenarios, at the ETSI Agrónomos.

MATERIAL AND METHODS

CyberAula 2.0 is a project that support, record and validate videoconferencing and lecture recording services by means the integration of both Global Plaza platform and Isabel videoconference tool with UPM Moodle platform. The software used in CyberAula project 2.0 is open source software.

❖ **Global Plaza** (Virtual Conference Web- 7th EU Prog.) is the platform to schedule, perform, stream record and publish videoconferences, and to enable researchers to set up and expand their own virtual community for exchanging the latests findings, documents, media files and connect with each other by means of virtual conferencing, freely. (Barra et al., 2011).

❖ **Isabel** (ver. 5) is the videoconference tool integrated with Global plaza platform. It is a real-time collaboration tool for the Internet, which support advanced collaborative web/videoconferencing with application sharing and TV like media integration. (Quemada et al., 2005).

Both software were developed in UPM and specifically designed for educational purposes.

❖ **Moodle** is an Open Source Course Management System (CMS), also known as a Virtual Learning Environment (VLE). It has become very popular among educators around the world as a tool for creating online dynamic web sites for their students. To work, it needs to be installed on a web server somewhere, either on one of your own computers or one at a web host company (UPM Moodle server).

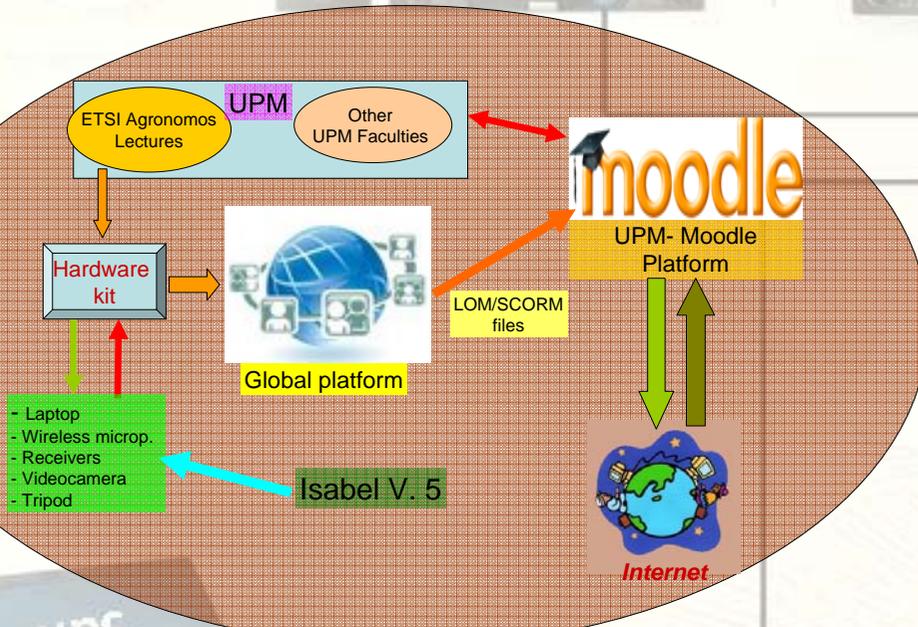


Fig 1. CYBERAULA 2.0 PROJECT

RESULTS

The results of this pilot-project are nowadays being evaluated by the involved students, scholars and teachers. Students have identified the Project as a very positive progress in their education, due to the friendly management of Global Plaza Platform and its use for their own benefit, taking into account that they have been pioneers in the implementation.

The other results, the recorded tests of lectures, workshops, visits and reports presented by students can be set out accessing directly to the platform in which the videos and documents related to this subject classes are uploaded: www.moodle.upm.es

As an example, here we present four student images. (Figs 2, 3, 4, 5).

All classroom videos, practical reports, workshops and the two field visits, along with the student presentations are uploaded in <http://globalplaza.org/spaces/plantas-de-interes-agroalimentario>



Figs. 2,3,4,5. Some screen of this project

REFERENCES:

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- Barra E., Mendo A., Tapiador A., Prieto D. (2011). Integral solution for web conferencign event management. Proceedings of the IADIS International Conference e-Society, Avila. Spain pag. 443-446.
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