





E-LEARNING APPROACH IN HIGHER EDUCATION IN CADASTRE AND CADASTRAL LEGISLATION

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THE WORLD CADASTRE SUMMIT

CONGRESS & EXHIBITION
April 20-24, 2015
Istanbul, TURKEY





The Topic...

- E-learning training methods are **more intuitive and attractive** and allow the simulation of phenomena, actions, interactions to help a deeper understanding of certain elements.
- In Romania, most of these initiatives have been taken by European funds, as higher education institutions should be made to the financial terms.
- It is known that there are cases where **the results** of these projects, although extremely useful, **could fail to survive over time**.



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[2]

What we did?



- Faculty of Geodesy of the Technical University of Civil Engineering Bucharest implemented an online platform in a project financed with **European funds**, in the idea of making a transition to a **blended-learning education system**.
- A **strategic project** was developed in partnership covering four development regions of Romania.



Case study...

... educational project in the field of geodesy

- Modernization of the curricula in the field of geodesy;
- Development of courses with digital animation;
- Development of the e-learning project;
- Creating the infrastructure project;
- Loading courses on the e-learning platform;
- Training teachers and students in activities related to the platform;
- Development of collaborative activities between students from partner universities.



Partners

- 4 Romanian Universities – who have “Land Surveying and Cadastre” Specialization
- 1 IT Company – for development of the e-Learning platform



Our project covered four regions of Romania:

- Bucharest-Ifov
- West
- North-East
- Center



Levels of implementation through the project

- BSc level:
 - **Land Surveying and Cadastre** Specialization



Levels of implementation AFTER the project - sustainability

- **BSc level** – specializations:
 - Land Surveying and Cadastre
 - Cadastre and Property Management
 - Geodesy and Geoinformatics
- **MSc level** – specializations:
 - Spatial Planning and GIS for Sustainable Development
 - Geomatics
 - Informational Systems in Cadastre and Real Estate Registration



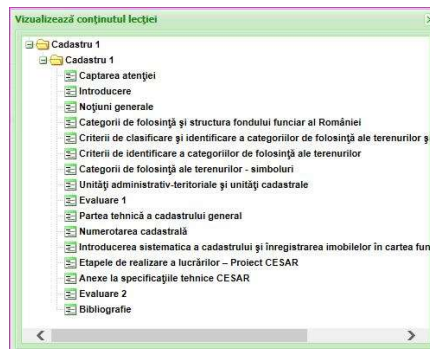
www.geodesy-instruct.ro

TS 5.2 "Cadastral Profession and
Education Across the World"

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Main Chapters in Cadastre Course



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Cadastru 1
Numerotarea cadastrală

Activity tree

- Cadastru 1
 - Captarea atenției
 - Introducere
 - Notiuni generale
 - Categori de folosință și structura fondului funciar al României
 - Ordni de clasificare și identificare a categoriilor de folosință ale terenurilor și de identificare a construcțiilor
 - Ordni de identificare a categoriilor de folosință ale terenurilor
 - Categori de folosință ale terenurilor - simboluri
 - Unități administrativ-teritoriale și unități cadastrale
 - Evaluare 1
 - Partea tehnică a cadastrului general
 - Numerotarea cadastrală**
 - Introducere automată a cadastrului și înregistrarea imobilelor în cartea funciară - Proiect CESAR
 - Etapele de realizare a lucrării - Proiect CESAR
 - Anexe la specificațiile tehnice CESAR
 - Evaluare 2
 - Bibliografie

Numerotarea cadastrală

Numerotarea cadastrală constă în atribuirea, după un algoritm de lucru bine definit, de numere de ordine unităților cadastrale din cuprinsul unui tereniu administrativ, separat pentru intravilan și extravilan. Aceste numere de ordine denumite **numere cadastrale** individualizează fiecare unitate de suprafață cadastrală în cadrul unui tereniu administrativ, fiind în legătură directă planul cadastral, registrele cadastrale și înregistrările din cartea funciară.

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Click pe titlu afiș în zona de lucru, apoi pe ruzățile evidențiate. Apăsăți pe butonul Continuu.

Editare < Activitate anterioară Activitate următoare >

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Basic Cadastral Features - Interactive and Animated

Cadastru 1
Unități administrativ-teritoriale și unități cadastrale

Principalele unități teritoriale ale cadastrului utilizate în cadrul sistemului informațional al cadastrului, la nivelul teritoriilor administrative comunale și orănești (municipale) atât la nivelul intravilanului cât și la nivelul extravilanului componente sunt:

Ați terminat această unitate de învățare.

Sector cadastral Imobil Parcela

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Cadastral Legislation Course

Dr drepturi reale și publicitate imobiliară - anul II masterat UTCB partea a II-a curs 1
mom 2

Ce este notarul și de ce avem nevoie de acesta? (1)

Principiul consensualismului
= este principiul juridic ce se caracterizează prin recunoașterea valabilității încheierii unui contract prin simplul acord de voință al părților

Interesele economice ale persoanelor fizice și juridice → acte juridice



Homework Area

Teme de casă			
Teme create de dumneavoastră		Teme asociate la curs	
Nume temă	Conținut temă	Data creării	Data finalizare
2014 tema 2 DLCF	Dragi studenți, Tema consta in a raspunde la intrebarile: 1. Ce exemple de dre...	17/04/2014	27/04/2014
2014 tema 3 DLCF	Dragi studenți, Va rog sa studiatii site-ul ANCP, in special sectiunile Legislatie, ...	13/05/2014	07/06/2014
2014 tema 4 DLCF	Tema nr. 4. 1. Ce reprezinta exproprierea? 2. Ce imobile se preteaza a fi expro...	27/05/2014	02/06/2014
BDCZU_s1_tema	Dragi masteranzi, Va transmit atasata tema BDCZU pentru proiect. O zi frumoa...	07/03/2013	07/06/2013
BDCZU_s12_tema	Dragi masteranzi, Pentru aceasta saptamana va rog sa studiatii documentele p...	20/05/2013	07/06/2013
BDCZU_s2_tema	Dragi masteranzi, Aveti spre studiu urmatoarele link-uri care sa va fie de folos...	26/03/2013	07/06/2013
Cerinte aplicatii IOCF si Re...	Dragi masteranzi, Va transmit atasate Tema si Regulele de evaluare pentru IO...	28/02/2014	06/06/2014
Cerinte aplicatii PMOL, reg...	Dragi masteranzi, Va transmit atasate cerintele prezentate la curs PMOL, pe da...	28/02/2014	06/06/2014
Diseminare Rezultate colo...	Dragi studenți, Am atasat la aceasta tema rezultatele la coloctiv. O zi buna!	07/06/2013	06/07/2013
DRRI SICPI partea a2a	Tema studiu resurse pentru examen - pentru masteranzi care au optat pentru ...	01/12/2014	17/01/2015
GD	Testul teoretic de verificare pentru restanta din sesiunea de toamna 2012. Te...	15/06/2012	10/09/2012
GD Tema 2 Aplicatii	Tema 2 Aplicatii Stimati studenti, Apreciez raspunsurile si mesajele trimise la T...	14/08/2012	10/09/2012
Incarcare referate DREPT ...	Dragi studenți, Pentru partea a doua veti transmite ca raspuns la tema acest...	23/04/2013	03/06/2013
INFORMARE an I SICPI si n...	Dragi masteranzi, Va semalam un eveniment interesant la Biblioteca Nationala...	24/05/2013	20/06/2013
IOCF_s1_tema	Dragi masteranzi, Va transmit cerintele atasate pentru disciplina IOCF. Studi...	28/02/2013	10/03/2013
IOCF_s2_tema	1. Dati exemplu de trei tari care beneficiaza de un sistem de cadastru si public...	07/03/2013	21/03/2013
IOCF_s3_tema	Pentru aceasta saptamana va rog sa raspundeti la urmatoarele intrebari: 1. Ca...	14/03/2013	21/03/2013



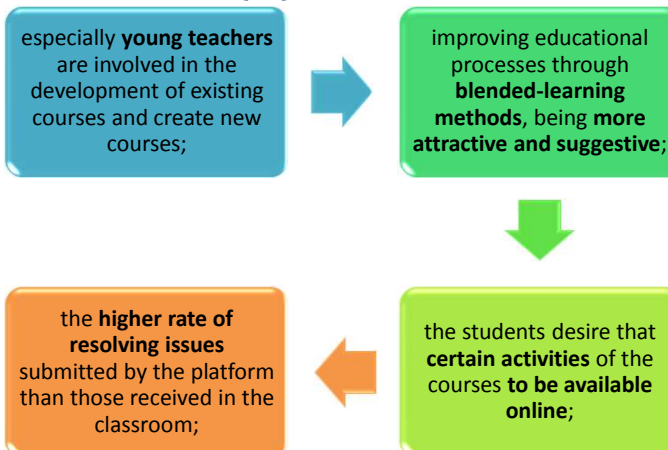
Statistics on Users

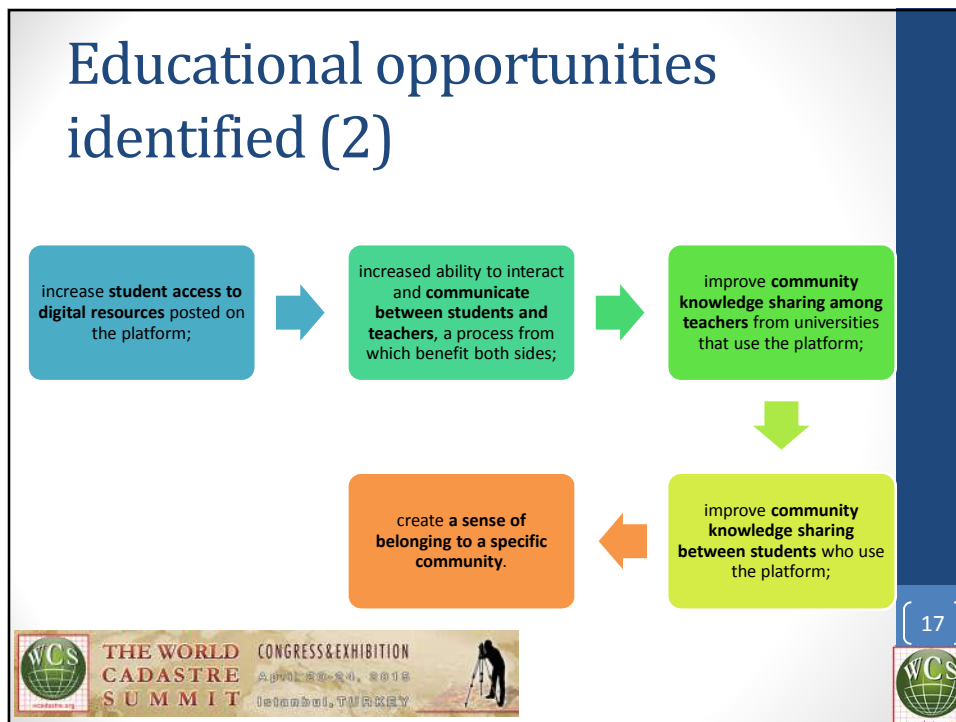
Statistici despre conectările utilizatorilor

Nume întreg	Numele componentei	Număr total...	Timp total p...	Mail
Badea Ana-Cornelia	Profesori	3306	1,657:00:23	badeacadas...
Badea Gheorghe	Profesori	2958	1,086:08:08	badeacadas...
Onu Cristian	Profesori	1284	469:32:30	crisi_onu@...
Bofu Constantin	Profesori	1166	428:50:21	constantinb...
Benedic Codrut George	B An 1 Geomatica2014	1119	204:51:05	codrutbened...
Negrila Aurel Florentin	Profesori	1044	280:41:56	negrilaa@ya...
Tomescu Mihai Marian	B An 1 PSGISDD 2014	932	307:33:14	tomescu.ma...
Mihai Oana Maria	B An 2 SICPI 2014	902	171:26:29	ony_sweete...
Cinci Tudorel Silviu	Profesori	827	196:54:49	tudorelsilviu...
Dragan Daniela	B Abs 2013	696	443:55:25	danadanutz...



Educational opportunities identified (1)





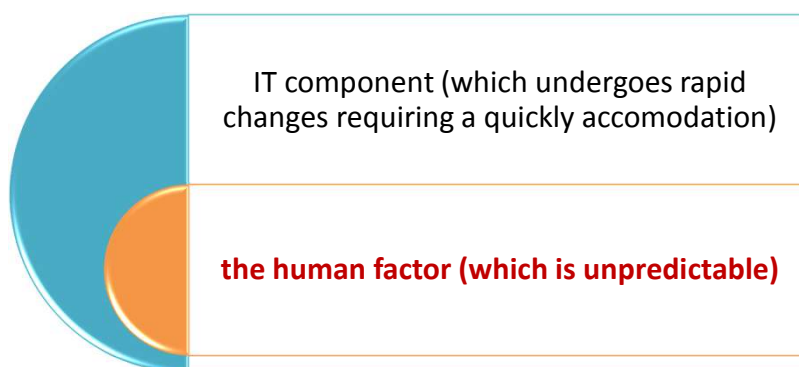
- ## The identified **risks**...(1)
- **limited involvement of teachers** with conservative conceptions or unwilling to digitally transmit some information they teach in the classroom classically;
 - **limited involvement** in the **development of new digital content or in updating** existing ones, due to the large volume of work required;
 - the possibility that universities **no longer cope financially** to update software or hardware equipments;
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-

The identified **risks**...(2)

- **senior and top management** should not be actively involved;
- **stop working partnership asset**;
- IT partner not to provide **maintenance after completion implementation period** of the project.



Sensitive areas in projects - involving modern learning methods



A sustainable project means to be...

The diagram illustrates the components of a sustainable project. A central blue circle labeled "Sustainable Project" is surrounded by six overlapping circles, each representing a different aspect of sustainability: Social (top), Equitable (top-right), Economic (right), Viable (bottom), Environment (bottom-left), and Bearable (left).

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Project sustainability – main perspectives

The diagram shows a staircase with five steps, each representing a perspective on project sustainability. The steps are: Transferability (bottom-left), Integrated Approach, Financial Sustainability, Human Resources Sustainability, and Technical Sustainability (top-right).

Transferability
Integrated Approach
Financial Sustainability
Human Resources Sustainability
Technical Sustainability

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Sustainability in terms of human resources involved

the trained specialists - project implementation team must to ensure:

the functionality of the technical platform;

provide the necessary knowledge to work on the platform to the the teachers and students;

the platform development;

completing the existing disciplines with new materials posted on the online platform;

introduction of online resources for new disciplines;

training new users of the platform - with the trainers created in the project:

teachers – in the purpose of the designing and use of teaching materials;

students - in order to create the possibility for new students to become users of the platform.



Transferability

- Transferability - the project aims to promote wider outcomes, by supporting the future development of educational processes of the institutions involved in many ways:
 - **by replication in other institutions** through direct promotional activities by material / information dissemination portal, forum and project website,
 - **the study and dissemination of good practice sessions**, finally proposed model can be taken, improved and developed.



Integrated approach

- Integrated approach - the educational project will be aimed at further an **impact of policies and educational strategies**, given that the final will propose a validated model, an **innovative process of an improvement knowledge transmission**, based on the use of the **e-learning in teaching - learning – assessment**, model to be taken over and extended to other segments of the higher education system.



Equal opportunities – assuring gender mainstreaming

...one of the European Union's founding values...



Equality in education?!

Equality between women and men in education involves to provide **equal conditions** regarding:

access of women and men at all levels of education and training,

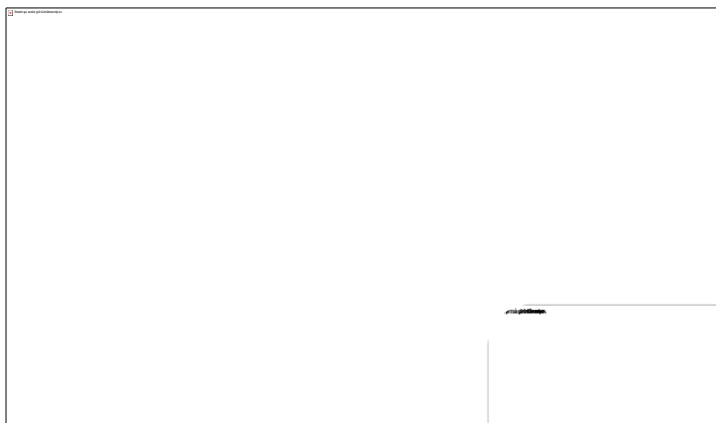
apprenticeship employment,

training,

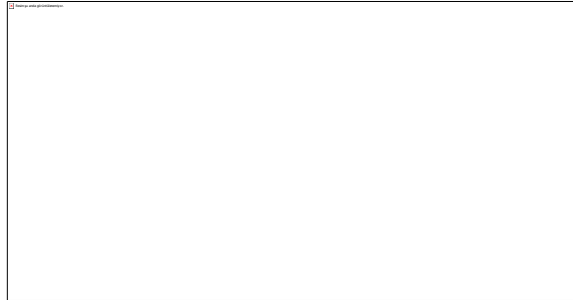
generally continuing education.



Comparative study of the involved teachers – 4 universities



Comparative study of the involved students – 4 universities



In conclusion...

- Can be said that any project, no matter how professionally managed, **is subject** to the **risks of the post implementation period.**
- One of the key factors to remain functional and for a continuous improvement of the result is **the involvement of senior and top management of the partner institutions.**



So...

- any sustainability strategy must carefully manage the **human resources element**.
- Preferably, in such educational projects, could be better to design new initiatives to come to improve what has just been done, possibly by **developing new projects**.



Thank you for your kind attention!

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