Intelligent MOOCs: Social and Adaptive Learning

Universidad Zaragoza

1542

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Collaboration agreement between

and

Polytechnical University of Madrid

Presentation goals

- Presenting a collaboration project on the instructional design of a MOOC that
  - Integrates the advantage of both cMOOCs and xMOOCs
  - Transforms the MOOCs weaknesses in strengths (heterogeneous)
  - Improves the MOOCs efficiency

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First MOOC in MiriadaX. Heterogeneous

Free Software and Open Knowledge

5 WEEKS. MARCH-APRIL 2013 AROUND 4000 REGISTERED

Country	Percentage
España	60
Colombia	9
México	7
Perú	6
Argentina	3
Venezuela	3
Bolivia	2
Chile	2
Ecuador	2
Brasil	1
El salvador	1
R. Dominican	1
Otros	3

Profession	Percentage
Faculty	13
Students	20
None	21
Several	44

Sex	Percentage
Masculino	72
Femenino	28

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Input conditions. Heterogeneous

To know what it is	588	18%
To apply it to my studies	797	24%
To use in my job	1125	34%
To help my organization to use free software	446	14%
Open knowledge dissemination	334	10%

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Input conditions. Heterogeneous

Primary Education	24	1%
Secondary Education	443	26%
University Studies (Pre-graduate) Professional	542	32%
University Studies (Post-graduate) Bachelor	283	16%
University Studies (Post-graduate) Specialization	192	11%
University Studies (Post-graduate) Master	210	12%
University Studies (Post-graduate) Doctorate	16	1%
University Studies (Post-graduate) Post-Doctorate	9	1%

AGE: BETWEEN 17 and 65 YEARS

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Second MOOC in MiriadaX. Heterogeneous

No university student	145	4%
University student	576	17%
No university teacher	1038	31%
University teacher	649	20%
Public employer no teacher	201	6%
Employer no teacher	490	15%
Autonomous no teacher	219	7%

Innovación Educativa Aplicada
Applied Educational Innovation

5 WEEKS

MARCH – APRIL 2014

6000 REGISTERED

To know what is the EI, not to apply it.	27	16%
To start the application of the EI	96	54%
To have a new point of view about EI	92	24%
To see the organization and materials of this MOOC	03	6%

I have no experience, this is my first course	1271	38%
I only found information on Internet	944	28%
I have applied or I apply the EI	833	25%
I have had or I have a post related with the EI	270	8%

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HETEROGENEOUS: GOOD OR BAD?

NEGATIVE

IN USUAL ON-LINE COURSE

PERSON ADAPTS TO DESIGN OF CONTENTS

PERSON ADAPTS TO LEARNING STRATEGY

NEED TEACHERS/ TUTORS

NEED TO PERSONALIZED LEARNING

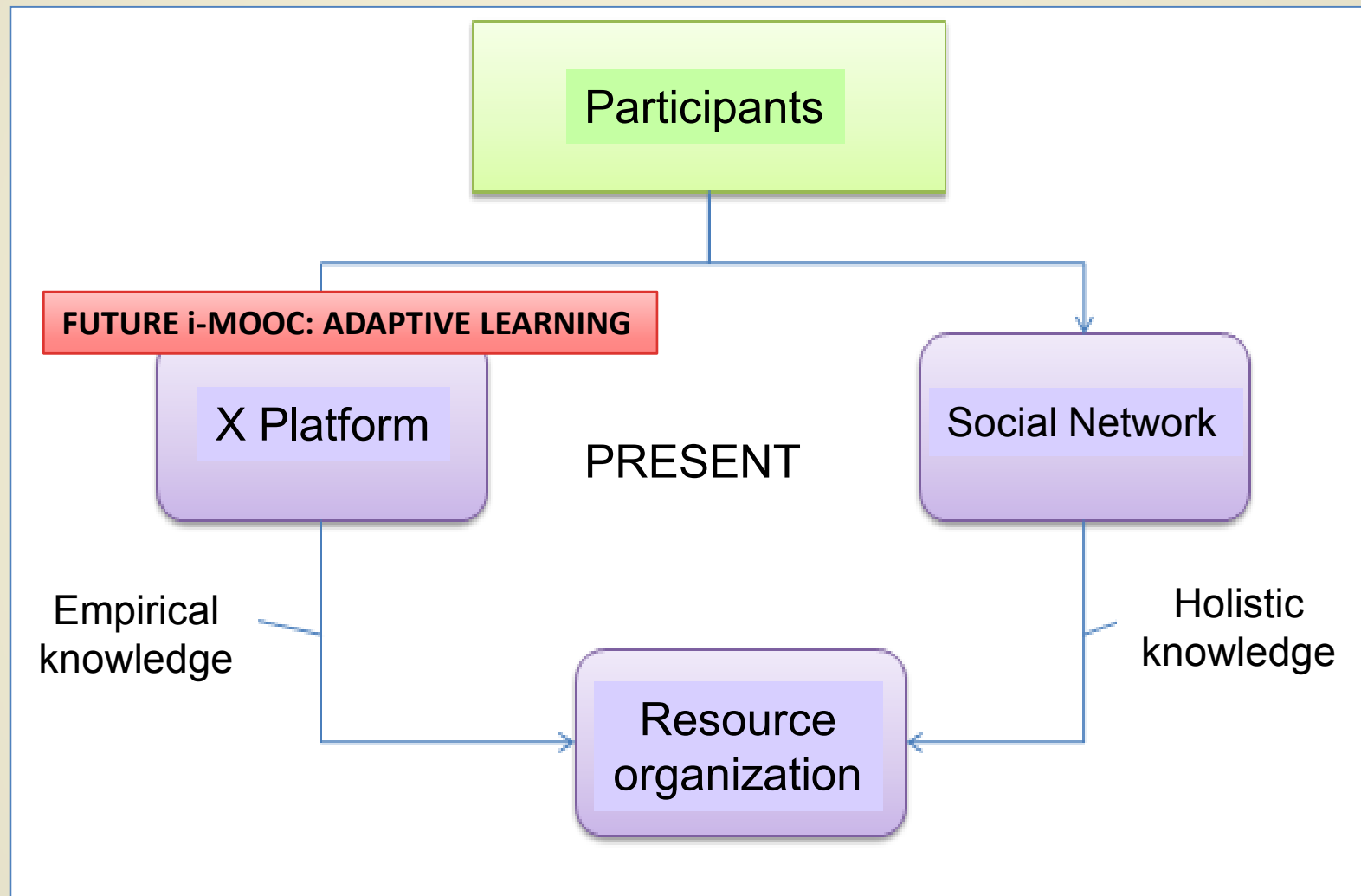**POSITIVE**

DIFFERENT POINTS OF VIEW

COOPERATION

CREATION OF LEARNING COMMUNITIES
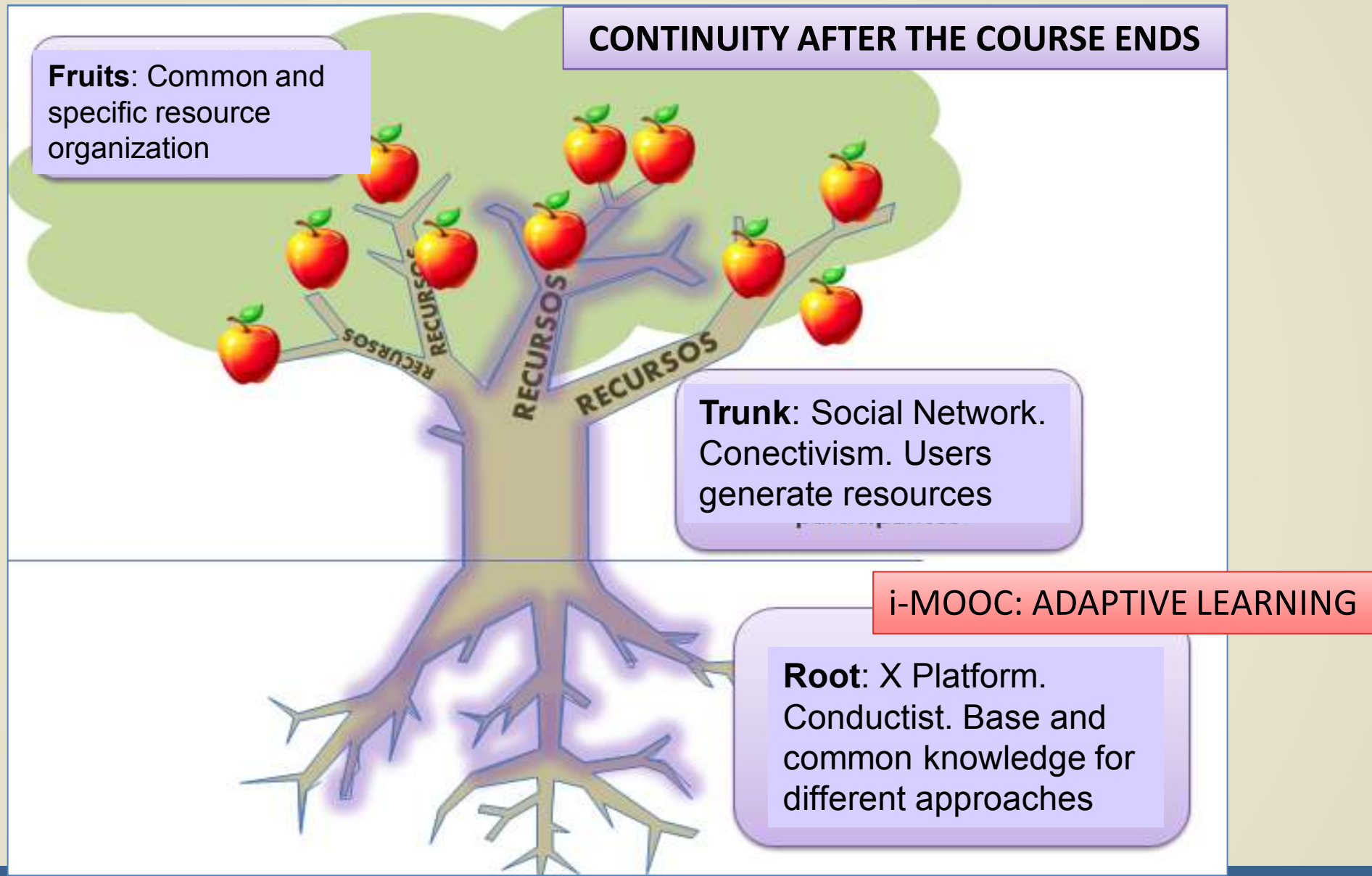
EXCHANGE OF EXPERIENCES

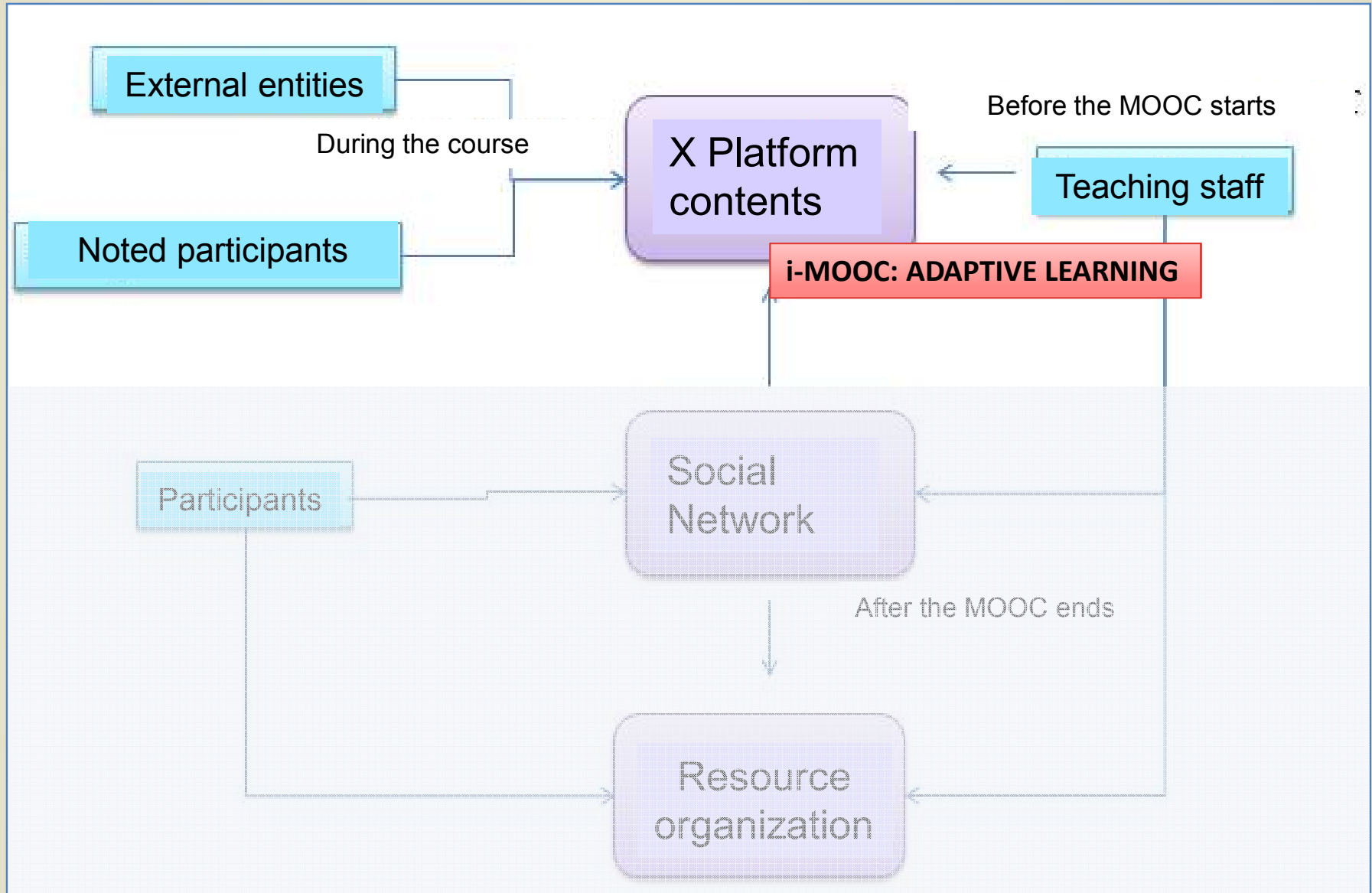**NEED TO SOCIAL NETWORKS**

Instructional Design. Technological layer

Participants

FUTURE i-MOOC: ADAPTIVE LEARNING

X Platform

Social Network

PRESENT

Empirical knowledge

Holistic knowledge

Resource organization

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Instructional Design. Pedagogical layer

Fruits: Common and specific resource organization

CONTINUITY AFTER THE COURSE ENDS

RECURSOS

Trunk: Social Network. Conectivism. Users generate resources

i-MOOC: ADAPTIVE LEARNING

Root: X Platform. Conductist. Base and common knowledge for different approaches

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Instructional Design. Cooperative layer

External entities

Noted participants

During the course

X Platform contents

Before the MOOC starts

Teaching staff

i-MOOC: ADAPTIVE LEARNING

Participants

Social Network

After the MOOC ends

Resource organization

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Instructional Design. Cooperative layer

External entities

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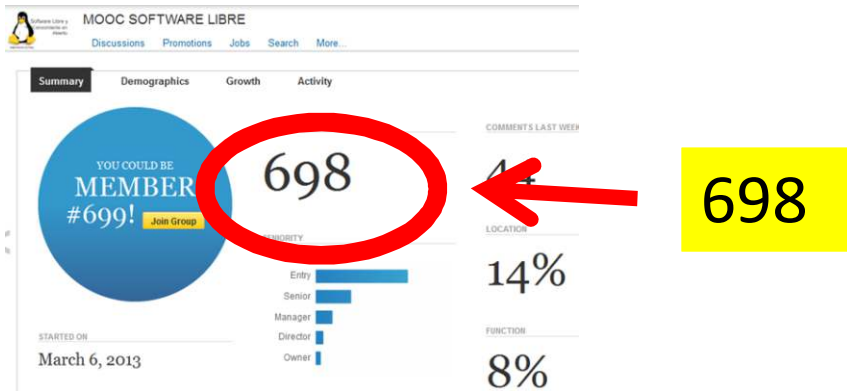
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MOOC EFFECTIVENESS HAS BEEN IMPROVED

Ending ratio over enrolled students   28%   (13,5% ending average MiriadaX)

DIFFERENT PROFILES ENRICH BOTH RESOURCES AND LEARNING

LEARNING COMMUNITY IS STILL ALIVE

698

Created: March 6, 2013
Type: Networking Group
Members: 778

Acerca de este grupo

889

Creado: 6 de marzo de 2013
Tipo: Grupo de networking
Miembros: 889

Innovación Educativa
Aplicada

Es momento de pasar a la acción

Aprendizaje

Innovación

2137

Competitividad

Pública   2.137 miembros

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Results. Socialization

Q30. I've participated in one social networks of the course at least
Q31. Have you contacted with your course partners through the proposed social network

VALUE	Q30	Q31
YES	75%	65%
NO	25%	35%

Survey. 641 answers

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Results. Cooperation

Q38. Sharing resources and interacting through social networks improve the learning in the course.

Q39. Sharing resources and interacting through social networks improve the initial contents of the course.

VALUE	Q38	Q39
1	2%	1%
2	2%	2%
3	11%	12%
4	37%	33%
5	48%	45%

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Intelligent MOOCs: Social & Adaptive MOOCs

Curso: Innovación Educativa

Platform UPM/UZ in Moodle

Acceder

i iMooc

What is the highest lev-
High School
College Degree
Degree

Los iMooc son la nueva forma de sacar todo el partido a tus cursos. Dentro de un iMooc puedes definir qué contenidos quieres ver o que itinerario seguir en función de tu perfil.

Más info

Q Cursos

- Aplicación de las Redes Sociales en la Enseñanza

- Innovación Educativa

- Software libre

Ver todos

★ Únete

Si aún no estás registrado no esperes más y únete para empezar tu formación.

Regístrate

Courses offer different itineraries depending on the participants' decision/profile

Thank you very much

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MOOCs: TYPE X and C

	xMOOC	cMOOC
Strategy	Conductist	Conectivism
Similar to	**LMS online courses**	**Social networks and Personal Leaning Environments**
Learning guide	It is based on contents and/or tasks	Interactions among persons
Knowledge type	Holistic knowledge	Empirical knowledge
Evaluation	Test Coursework Peer evaluation	Knowledge created in the personal learning environments

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