





Spanish and Latin American OpenCourseWare repositories in Higher Education

A study of the development of OCW websites in Spanish and proposals for improvement

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UPM Open Education Office















Index

- I. Introduction
 - Open Education and OCW
 - Evolution of the OCW
- II. Objectives of the study
- III. Research strategies
- IV. Results
 - 1. Situation of the OCW in Spain and Latin America
 - 2. OCW managers
 - 3. OCW content producers
 - 4. OCW users
- V. Conclusions







OCW as part of the Open movement

Open Content

Open
Educational
Resources

OCW

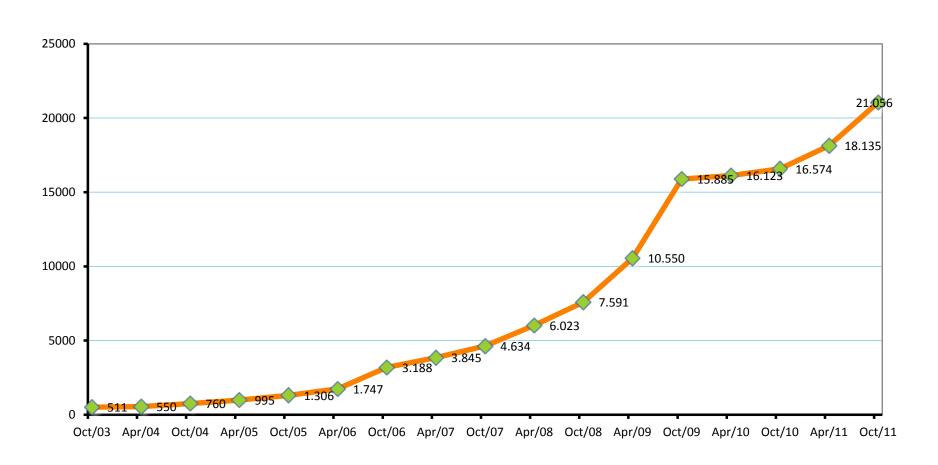
- OCW is only one type of Open Educational Resource (OER).
- OERs are only one type of Open Content.
- We have much to share with each other.



I. Introduction



Evolution of the OCW









Trends and developments

- Transition from OER → Open Education
 - OER, Open Teaching and open learning services
 - Most recent: Massive Open Online Courses (MOOC)
- Paris Declaration on OER (2012)
 - Recommendation to States to support to its fullest capacity awareness, creation and use of OER
 - Accepted on UNESCO World Congress on OER, Paris, 22
 June 2012
- Existence of infrastructural components to contribute to an ecosystem of open education. E.g.:
 - Open communities (OpenStudy)
 - P2P university
 - Saylor.org

CC-BY Robert Schuwer: http://www.slideshare.net/robertschuwer/oer-an-overview





Comparing



	TRADITIONAL	OPEN COURSE WARE	OPEN EDUCATION	ONLINE EDUCATION
ACCESS	Tuition fee	Open	Open	Tuition fee
STUDENT INTERACTION	Yes, mostly offline	No	Yes, online learning platform & social media	Yes, online learning platform & social media
INTERACTION WITH LECTURERS	Yes	No	Yes, online learning platform & social media	Yes, online learning platform & social media
EXAMS	Yes	Yes, but self testing	Yes, online	Yes, online and on campus
CERTIFICATES	Yes, accredited	No	Yes, non accredited	Yes, accredited
DIPLOMA	Yes, accredited	No	No	Yes, accredited





Overall objectives

- 1. Collect and describe case studies that highlight the main benefits of OCW in the world and the current status of the use and impact of OCW materials
- 2. Describe and assess the impact of social relations that can be drawn from the information provided by the Latin American universities on the use of OCW materials
- 3. Improve tools to search OCW materials applying the principles of semantic webs







Types of research strategies used

- Analysis of usability: web analysis
- Statistical analysis of data retrieved through a search engine
- Analysis of key actors
 - Managers:
 - Focus Group
 - Survey
 - Content producers
 - Focus Group
 - Survey
- Social analysis of web content

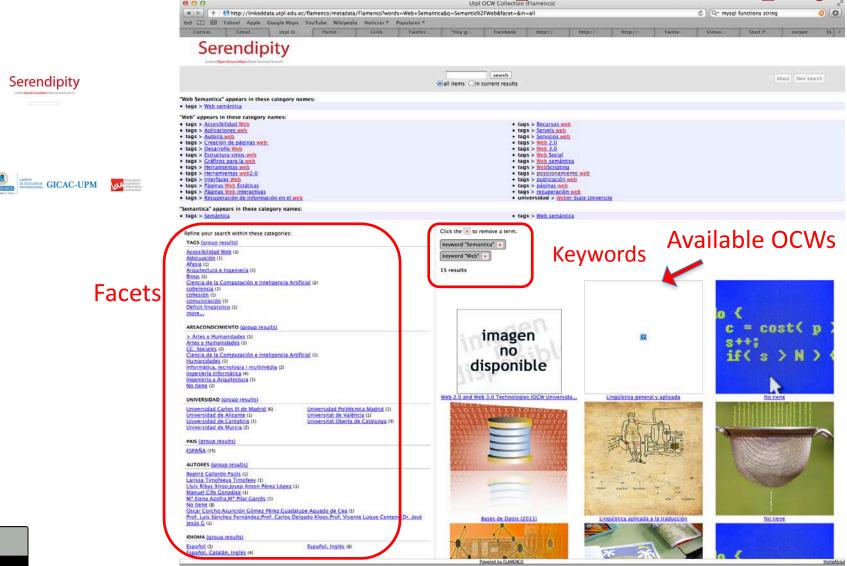




III. Research strategies



A semantic faceted tool developed: Serendipity







Focus group with OCW managers

- Meeting with managers of OCW with these criteria
 - Different levels of development of the initiative
 - Different knowledge and expertise
 - Different professional profile
- Guidelines of the focus group
 - What is for you the Open Course Ware?
 - What opportunities?
 - What prospects?
 - Disadvantages







Focus group with OCW producers

- Meeting with OCW producers with these criteria
 - Full time professors
 - Different knowledge and expertise on OCW
 - Different degree of development
- Guidelines of the focus group
 - What is for you the Open Course Ware?
 - What opportunities?
 - What prospects?
 - Disadvantages
 - Problems faced







Survey with OCW managers

- Survey
 - Use of the call to other universities to:
 - Contact with OCW managers to fulfill a survey
 - Redistribution of a survey through OCW content producer in their institution
- Elements of the survey
 - Control data
 - Opinion on OER and OCW
 - Prospects of improvement







Survey with OCW producers

- Two step survey
 - Pilot in UPM
 - Spread of the call to other universities:
 - Contact with OCW managers
 - Redistribution of the survey through these managers
- Elements of the survey
 - Control data
 - Opinion on OER and OCW
 - Past experience with OCW
 - Prospects of improvement







Social Network Analysis

- Creation of a database
 - Over 9.000 OCW courses from several continents
 - Identification of courses according to categories
- Analysis of relationships
- Establisment of nodes between different institutions







Types of results

 Statistical analysis of data retrieved through a search engine

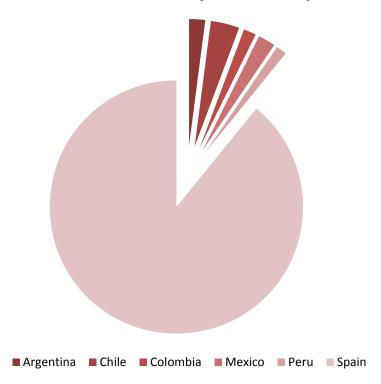






OCW in Spain and Latin America

OCW Courses per country



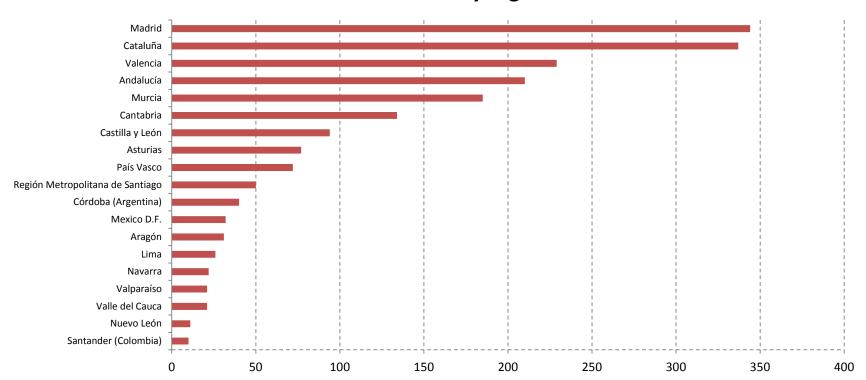






OCW in Spain and Latin America

OCW courses by region



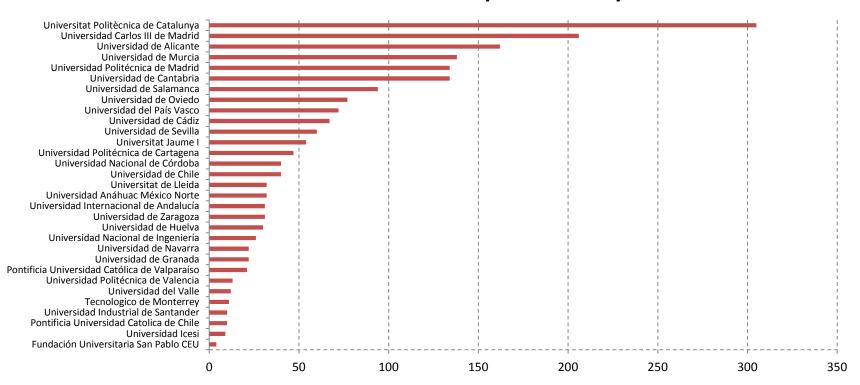






OCW in Spain and Latin America

Number of OCW courses per University



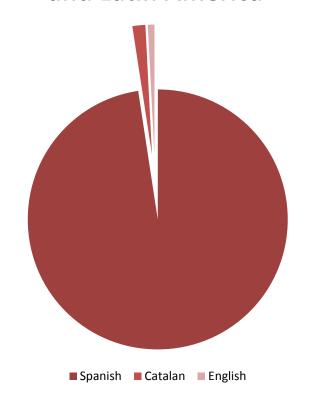






OCW in Spain and Latin America

Language used in OCW produced in Spain and Latin America









OCW in Spain and Latin America

OCW Courses by knowledge area





Humanities

Sciences

■ Health Sciences

■ Social and Juridical Sciences

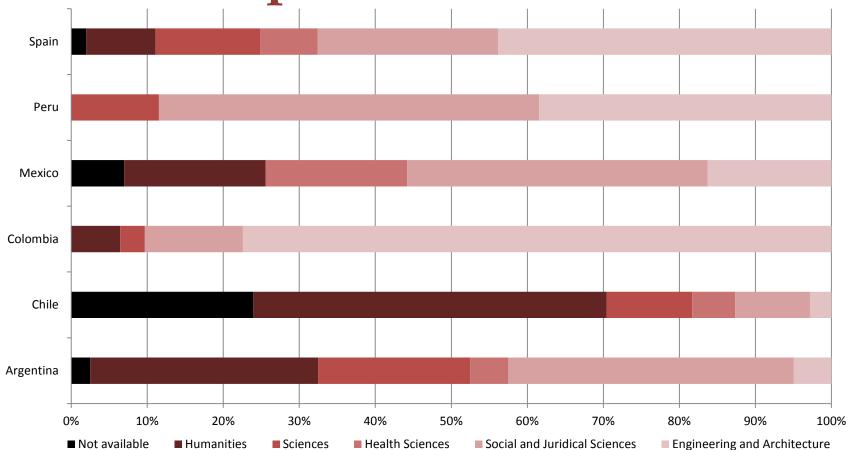
■ Engineering and Architecture







OCW in Spain and Latin America

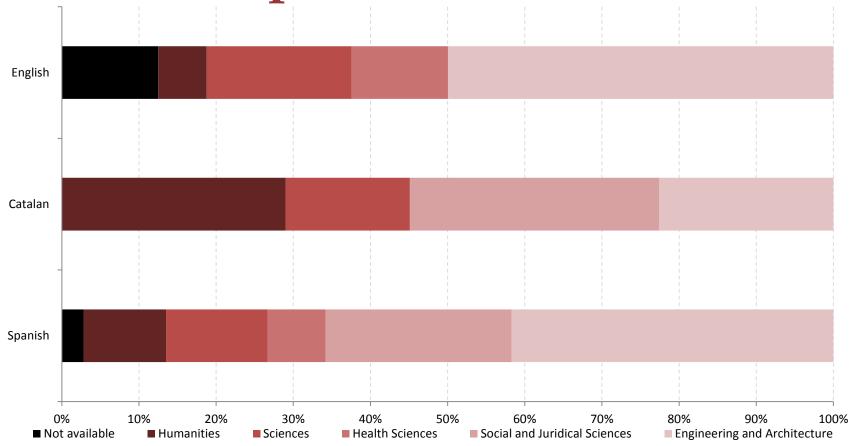








OCW in Spain and Latin America



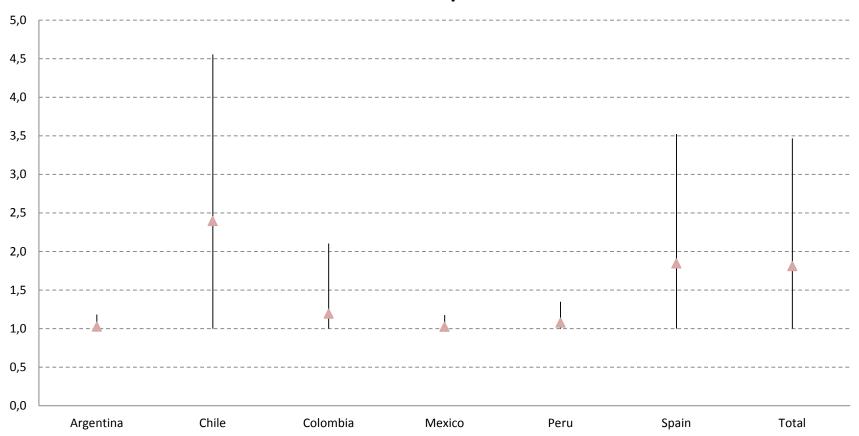






OCW in Spain and Latin America

Number of authors per OCW course







Types of results

- Focus group on managers
 - Qualitative data
 - Indepth analysis
- Survey on managers
 - Hypothesis testing and assesing problems
 - More general data

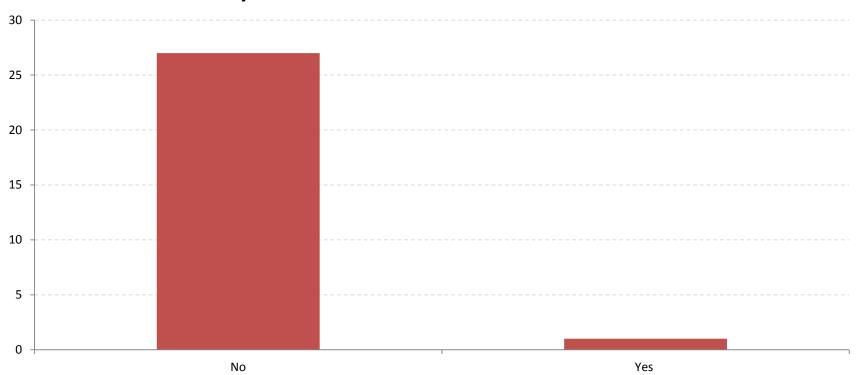






Survey to OCW managers

Do you have an exclusive dedication to OCW?



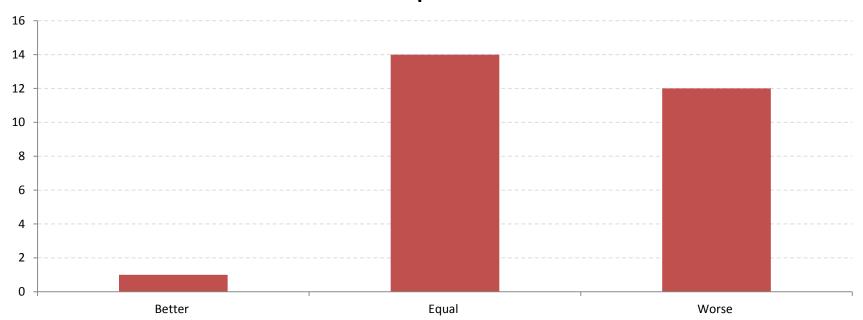






Survey to OCW managers

In comparision with other units of your institutions, how do you consider that you office is equipped regarding resources to your disposal?



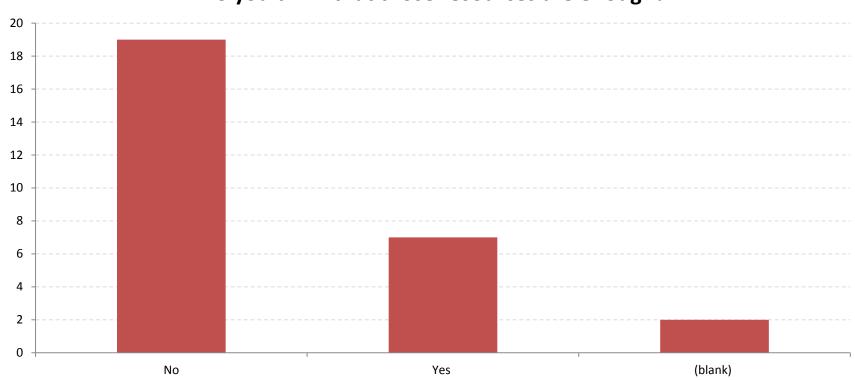






Survey to OCW managers

Do you think that those resources are enough?



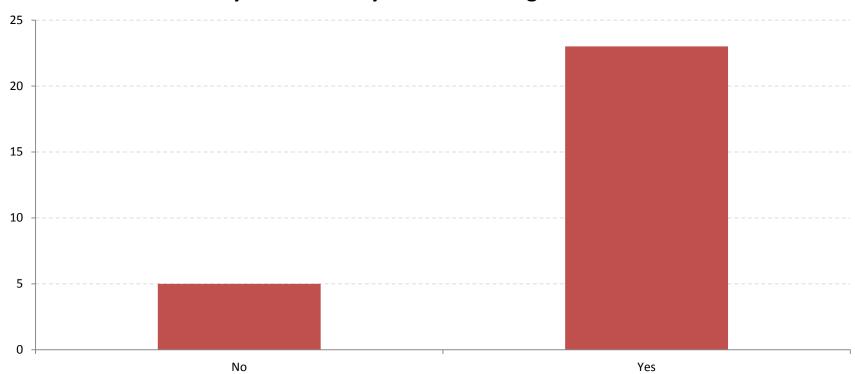






Survey to OCW managers

Does your university have a working OCW website?



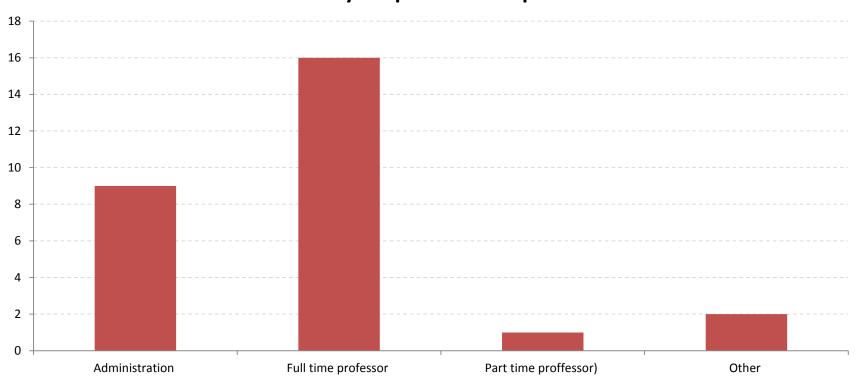






Survey to OCW managers

What is your professional profile?









What is for you the OCW?

• Regarding the first type of definition emphasizes that the OCW OER is a structure. This indicates that the invention of MIT provided a context to the rising phenomenon of OER. In this regard it is considered that the OCW is a support course organized by the OER form, unlike traditional mechanisms by boxes copyright limitations. Thus, one of the participants defined:

"For us [OCW] is a web portal that a repository that allows the faculty of the University and its students publish the contents in open classrooms generated in a structured and with a very reasonable cost."

• In this sense the OCW is defined as a means to store teaching materials from college and make them available to students. These approaches resemble the OCW a Virtual Classroom. Thus OCW is a deposit of material that has been employing class. This will see the implications this has for students and teachers.

"Also [OCW] to share knowledge among students and other users, because until recently, students were no longer enrolled could not access the above materials. So we are taking a more once students have finished their studies."







What is for you the OCW?

- Another element highlighted OCW office responsible for the initiative is that it can be a means of promoting the university, a way to show the work done in the classroom for the rest of the world.
 - "It can also be renowned for the University, to be known beyond the national context. Through internet right now, being a digital repository, it can be known in other parts of the world and this is important."
- OCW is detected that has two sides of self while having a slope of help to others. This highlights that the OCW is also an altruistic movement that enables access to knowledge in higher education for disadvantaged sectors of society and people living in the third world. It also altruistic in the sense that allows teachers to learn from other materials that are made in other universities. One of the participants highlighted:
 - "I think [OCW] has two aspects: a showcase of the University, a way to attract new customers and new students, and then, on the other hand, is an altruistic movement that puts knowledge available to anyone, especially people who have no possibilities of a career, people in the third world or underprivileged. Is the slope Personally I like."
- On the other hand pointed out that, beyond what the theory says, the OCW is a concrete initiative with its rulings. So one of the participants said:
 - "I theoretically agree with everything that has been said, that [OCW] promotes visibility, people share, but at my institution I would label the OpenCourseWare as a failed initiative."







What opportunities does it offer?

• The first group for the opportunities that have been highlighted in our discussion group is the teacher. The proposal states:

Opportunities ... because I believe that our teachers are several. On the one hand, is a way to get noticed, to make known their teaching. It is also a mechanism to improve its content, because when a teacher poses open publish their content because if you normally using in the classroom with students, but now eye will make available to the whole world and then I think a lot. The restructuring, seeking copyright problems and get more attractive ... It is also a way of acknowledgment. Do not give them much, but they offer a certificate of participation in the project and points for extra pay.

• The next element highlighted OCW producers is how, at the same time it promotes the university, the initiative can serve to promote teachers who publishes it.

"At the level of teachers believe that may be important to promote what some teachers are doing and professors from other universities to see what is being done and that there may be some sharing of knowledge."







What opportunities does it offer?

• In the same way that promotes the work of teachers the initiative can be used as a means to engage teachers in the use of new technologies in the world of education. Thus the conversion of OCW materials, and equipment made for them in the office, can serve as a bridge for teachers from getting into the publication of open educational materials:

"For us it has been a means, say, fundamental both to promote the university and for many teachers who did not have any way affiliated with or virtual classroom with new technology [..]. to sign up to this new way of teaching and new way of transmitting knowledge."

"There are many teachers who said at the beginning that I did not want to go in because I e-learning requires much effort, I have many students, nobody helps me, the platform is very complicated. And at the moment you say 'you're going to put a number of people who are going to help, we will improve your material will also simplify and you will see ... when you see the results within a month you will see page visit thousand people from Peru and four thousand from Argentina ... seems that this is serious and is a good way to promote the content."







What opportunities does it offer?

• The following elements are stressed about OCW opportunities that may entail for universities is a reduction in the costs. The OCW is thus a mechanism to cut costs and offer more and better content to students.

"At our university we have a process very different teaching materials because the materials are responsible, they are paid to authors. It's not like in other universities. It affects us more directly [OCW]. In this regard the fact that the University was passed that all materials were teachers with a Creative Commons license, so we can save many costs, in the sense that it can be reused for other classroom materials."

- Thus participants in the discussion group noted that the type of license to be chosen is very important for the future cost structure of universities. The use of more open licenses allows cost savings by reusing materials. This requires a change in the current trend, it was found some consensus on the idea that there is a trend towards the use of more restrictive licenses.
- The OCW offers Spanish universities (and their teachers) an additional opportunity to mark the process of adapting to all studies within grades, according to recent reforms of adaptation to the European Higher Education. In this framework the OCW presents an opportunity to offer subjects that disappear on cessation of the curriculum. This allows materials that have been in use until recently can reuse. This reuse allows teachers, in turn, to have a publication of material that otherwise would have been lost as a result of that adaptation.







Future prospects

• The first line that is being explored is the integration of multiple tools in a single university teaching open platform. This would melt platforms that are now working in different departments and services, each on its side. This will not only allow them to share resources (human and material) but the own synergies and teamwork can make it work best in each particular. Closely related to the above, is being explored to encourage greater increase in OCW content

"In terms of the future, as we are proposing, we'll see if it's short, medium or long term, we do have some from our office [thought] that [OCW] becomes a production environment."

 Another element is generated controversy regarding the exploitation of OCW as certificate courses. In this regard there are conflicting opinions from those who believe it may be a positive move towards that OCW progressively routed to those observed that potential management problems can reach them unmanageable.

"For the future of OCW movement do not see anything clearly. For me to OCW's what has been done at MIT, that is, a portal, static material, which are mainly study materials, any evaluation material. But two years ago there was talk of the movement of open educational resources, the OCW are sites where you can register, pay a fee and can be evaluated and receive a certificate. When I hear this I enter the seven evils. And who is going to manage this? Frankly I see it very complicated. Also see them as different islands."





IV. Results: OCW managers



Problems implementing OCW

• The main problem is that some participants noted the complete absence of any institutional support, which has caused even fall off the platform and can not offer the service. In other cases mentioned some OCW offices receive neither funded nor staffed to meet its objectives. Is detected, then, that for some institutions the OCW was an initiative that was set. It notes, for example, "you can get to convince many teachers" but this has not led to the necessary resources to carry it out. Thus, in certain cases it is observed that there was no real involvement in the initiative by the governing bodies. Two participants noted:

"But over the years my experience has been the opposite, ie, that the institutional level, at least in this house, has taken this initiative as something good, yes, but it is well noted that there has not been any of support."

"The problem of our OpenCourseWare is standing, and operate unmanned request. If we had funding, resources and so on, I will post everything on Creative Commons and why we should not have problems."





IV. Results: OCW managers



Problems implementing OCW

 In many cases there is no incentives within the university to publish in the OCW, or salary or recognition.

At first he was completely lacking in media, so it resorted to force authors to publish through the GIE. This made some materials were not of high quality and there was some discontent and reluctance among certain elements of teacher

"[On the draft publication of complete degrees] when you publish everything you are forcing people to publish. And here is the problem, and there are people convinced the people to strive to publish. And when you tell them to publish the first thing you have sent ... We talked with school heads and were you to post bad we do not publish."

"When published with ISBN teachers were very happy, but now you can not do it that way."

"[What we tell teachers is that] you who you have to think about what you want. You ask me for what you need and we'll see if it is possible ... What we are asking is that teachers require us innovative things."





IV. Results: OCW managers



Problems implementing OCW

- Other problems that are reported:
 - Sometimes managers are not been able to reach the group of teachers to encourage them to participate.

"The problem is that from the point of view of teachers that is very unknown. The teacher misses things we do have, but we have not been able to reach each of the professors of the University."

Diversity in licensing presents problems

"The problem that we're facing is that you choose the more restrictive license ... and then in order to be able to make derivative works is more complicated than if you had chosen a different type of license."







Opinion on OCW in general

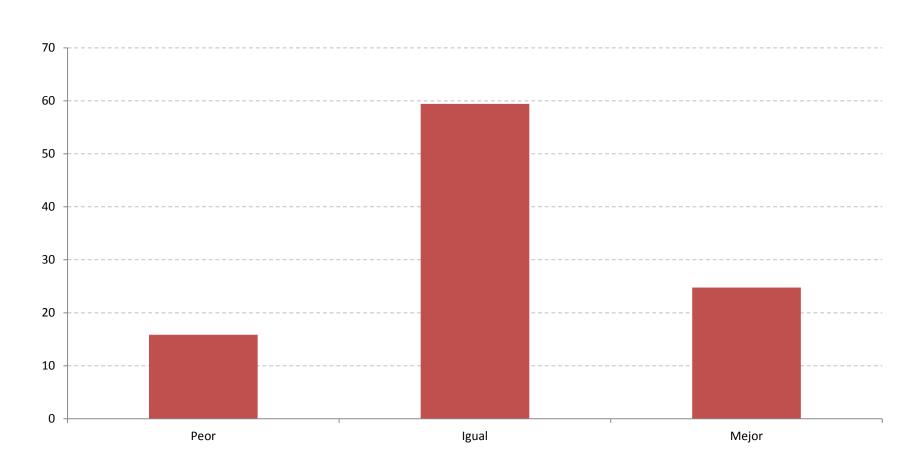
	Valid percentage
OER and OCW do not add any value to Higher Education	1,19
OER and OCW are from the activities a professor should do in Higher Education	4,15
OER and OCW are important tools for teaching in Higher Education	83,98
OER and OCW are the future of teaching in Higher Education	10,68
Total	100,00







Own OCW compared to others

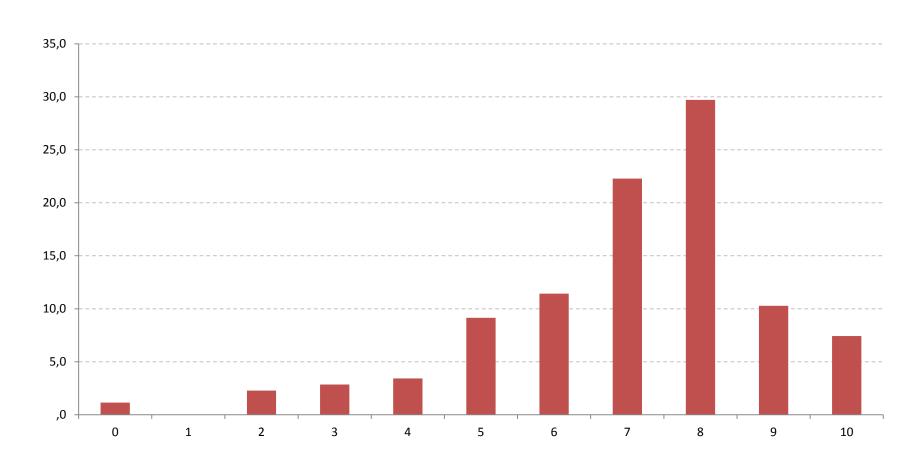








Opinion OCW of own university









Reason for not publishing

	valid percentage
I did not know I could publish in OCW	26,4
Didn't know whom to refer	9,5
Don't know how copyright works	10,1
Efforts are not well compensated	29,7
Tried to publish but it was too complicated	2,7
Not interested in OCW	3,4
Lack of time	7,4
On its way to publish	4,7
Others	6,1
Total	00,0







What is OCW?

• What was meant as OCW raised some controversy. Some participants stressed his character as "a showcase for the university."

"I think it's also a "showcase" for the university. I believe that anything done in college who is worthy and who is well made, is a showcase. Then, we must ensure they have good courses in OpenCourseWare. "

• Others emphasized his *Open* philosophy as its distinctive nature.

"I see the advantage of OCW is having things open to everyone. I don't see as an advantage looking at OCW as "showcase", because, if we think like that, we can forget about it. If I consider that my course is a showcase for the university, I would retire it from OCW, because I am aware of its limitations, which are very large.

"The fundamental problem, it seems to me, is that I do not know if we believe in the Open philosophy [...] If you do not believe in the Open philosophy, the OpenCourseWare makes no sense."







What is OCW?

Some professors conceived it as a teaching tool

"I think this is a teaching tool. We can not forget that, because if we forget this, everything else is meaningless "

Other saw it as a publication...

"I do not think the OCW is intended as an interactive tool or anything like that. It's just the same as if you place in your ... I do not know...that domain nomenclature, but in his twitter or anything like that."

"This is a photo of the moment. To me [OCW is a] photo of the moment in which you can not adapt the course and improve the course, but you have to publish another course."







Problems with OCW platforms

Lack of resources

"When you get a ridiculously small help for an English course, they help you publish in the OCW. So what goes in the OCW in English? A ridiculously small course"

Lack of recognition of merit...

"Another drawback added is the too little recognition that it has, for those who works seriously on this and take time and the rest. Nor financially nor of any kind"

"You have to focus and you have to focus on what you need to focus. And time is the time, and you have to post articles. And the people in the end seek for the place that has more recognition."







Problems with OCW platforms

Static nature

"From an educational point of view, it is too static. It's too rigid."

"You can not adapt the course and improve the course, but you have to publish another course (the course of 2005, the course of 2006). To me, that's the big brake for publishing in OCW."

Multiplication of teaching platforms

"I miss a tool to manage your course and that from that tool your subject goes to all media, and [things] not to be so difficult to publish and [be forced to] do things in eighty sites. You have to do all eighty times. That is appalling. You should have a unique tool and put everything out there. "

Lack of quality assessment

""I force other professors to put things in the OCW, but the last time I went in the site, around three years ago, it was disappointing for me, because there are no courses there. What I see in most cases is a collection of slides."



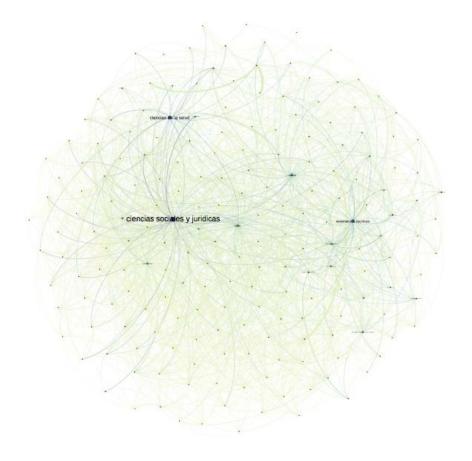


IV. Results: social network analysis



Labels clouds

Relationship among labels in Spanish courses



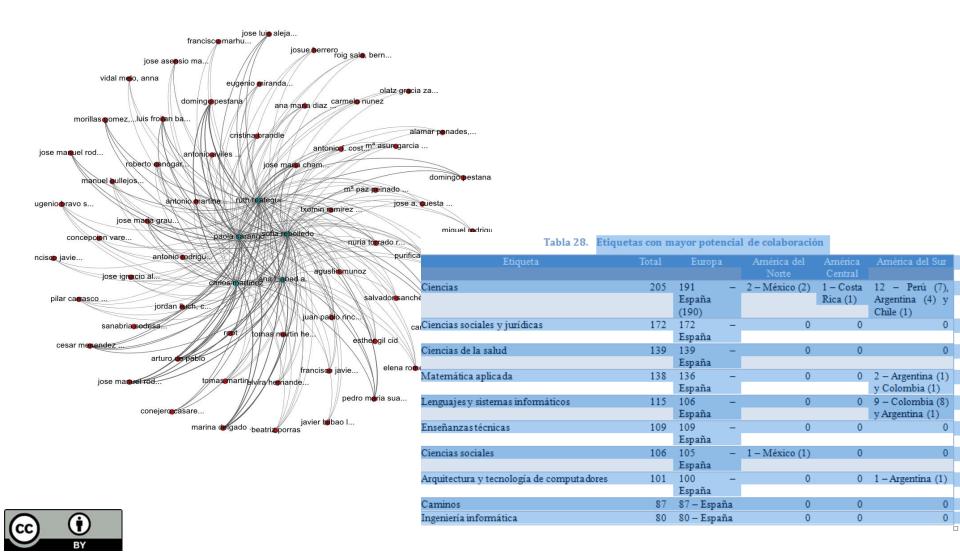




IV. Results: social network analysis



Labels clouds







Conclusions of the project

- Deep implementation of the initiative in Spain
- Still weak in Latin American countries
- Development of the OCW in Latin America and Spain mostly in Spanish
- Minor development in English
- Few countries have joined or their data are not accessible in a simple way





Conclusions of the project

Plus

- General positive attitude towards the OCW, both at the office manager level and the content producers
- Feeling that OCW contributes positively to society
- Development due to key leaders, involved without incentives

Minus

- Feeling of lack of support at the high decision level
- Lack of incentives for professors to produce contents
 - No recognition as a publication
 - No retribution
- Stagnation of some initiatives
- Absence of guidelines and a "quality culture"







Conclusions of the project

- Absence of consolidated structures of managing in many OCW initiatives
- OCW depending more on individuals
- But there are some stories of success







SWOT Analysis

F

Welcome to the Open philosopy
Users' perception of Quality of some

Infrastructures operatives (many)
Receptivity and wish of improvement

courses

D

Unknowledge of the Open Philosophy
Low Quality Materials
Dificulty to publish and update
Lack of information

Spanish Language

Early arrival to the community

OCW as teh future
OCW Consortium
Explosion of social networks

Disappointing of the good authors becasue the quality

Global competence

Unknowledge by teachers and students

Recognition policies may not depend on univeersities

Economical situation

A

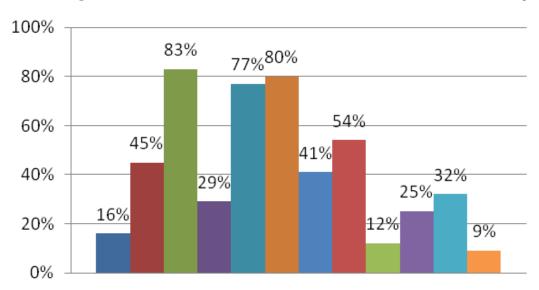
Unknowledge by the Society







Survey Results EU OCW Project





■ Improving the learning experiences of the students

■ Encouraging the use of OER in your institution/in general

Contributing to the business objectives of your institution

Facilitating the creation of OER

Facilitating the sharing of OER

- Developing new partnerships/collaboration
- Introducing Open Educational Practices
- Proposing new Business Model for OER
- ■Investigating attitudes/beliefs towards OER

Improving Skills and Knowledge for the reuse of OER

Other



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The use of OCW/OER in Teaching and Learning

Target group

	Frecuency	%
Learners	25	80%
Faculty members	14	45%
Organizational Leaders	26	83%
Profesionals	9	29%
Other	24	77%

_	_	
	Frecuency	%
To achieve professional	7	22%
qualifications		
To obtain official degrees	4	12%
To support teaching	25	80%
To increase physical mobility	2	6%
To increase virtual mobility	6	19%
To simply provide open materials	24	75%
Other	7	22%

Characteristics of published OCW/OER

	Frecuency	%
Texts	31	100%
Slides	24	77%
Audio materials	18	58%
Video materials	26	83%
Exercises	22	70%
Rubrics	4	12%
Other	11	35%

Means of evaluating or certifying learning processes via OCW/OER

	Frecuency	%
Degrees	8	25%
Diplomas	3	9%
Certificates	6	19%
Test	7	22%
Exams	10	32%
Other	6	19%



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Factors

Factors enabling OCW/OER initiatives

Institutional support

An institution supports open sharing in education through:

- -Actively encouraging participation in the production and sharing of OCW/OER amongst faculty members
- -Implementing open content or open access policies
- -Providing resources (financial and staff) to assist faculty members in the production of OCW/OER
- -Providing incentives to faculty members to engage in the production and sharing of OCW/OER
- Positive attitudes from faculty members

Factors inhibiting OCW/OER Initiatives

- Lack of institutional support
- Negative attitudes from faculty
- Copyright-related challenges
- Lack of information about institutional benefits related to OCW/OER projects
- Difficulties with finding appropriate and quality OCW/OER (when attempting to reuse materials produced elsewhere)



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Thanks!

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• See the full report (only in Spanish) in

http://ocw.upm.es/documentacion-de-interes

