

**TIES 2012**

III European Conference on Information  
Technology in Education and Society:  
A Critical Insight

Barcelona, February 1<sup>st</sup> – 3<sup>rd</sup>, 2012

# An OER design authoring model *for versioning (RAO)*

Un modelo de creación de contenidos en abierto para el aprendizaje

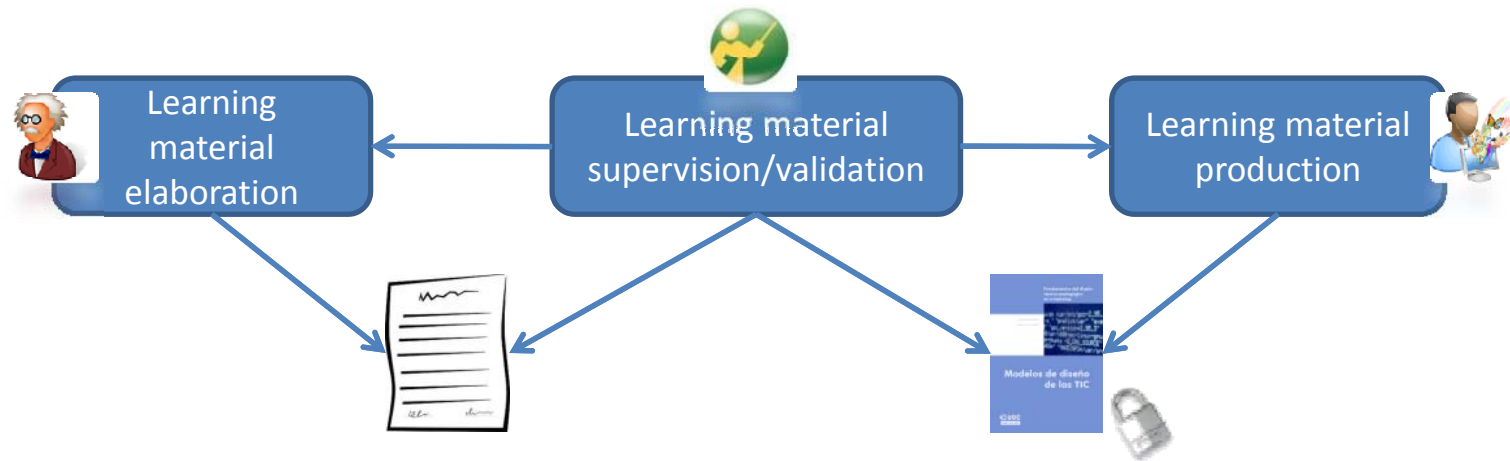
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 **UOC** Universitat Oberta  
de Catalunya  
eLEARN CENTER

 **edul@b**



# Learning materials authoring process

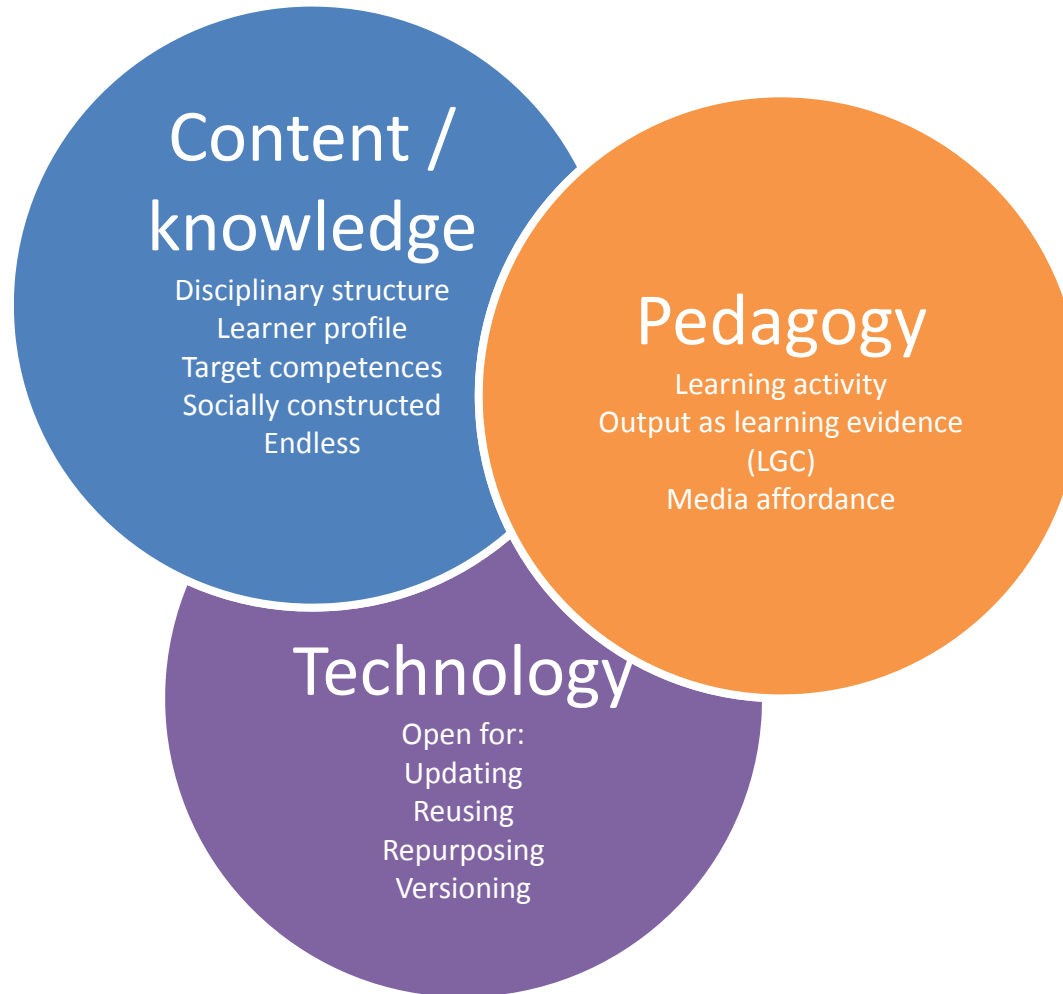


# Objectives

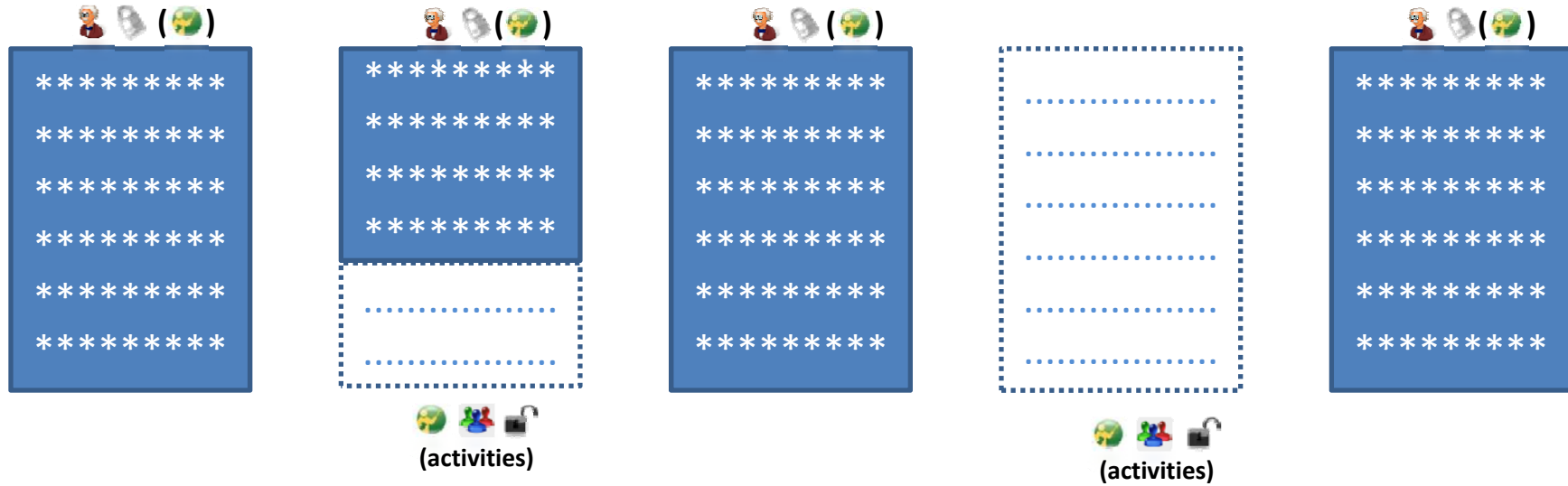


- Develop an authoring model of SME open educational resources for learner versioning (RAO).
- Elaborate a guide for supporting the integration of the RAO model to a learning process within the teaching strategy.
- Provide a list of technical requirements for the RAO implementation that ensures easy upgrade, rework and repurposing.
- Implement an OER for versioning within the course "Fundamentals of techno-pedagogical design" of the METIC.
- Validate the approach of RAO from the student perspective (motivation and support for knowledge building and skills development) within the said course.

# RAO principles



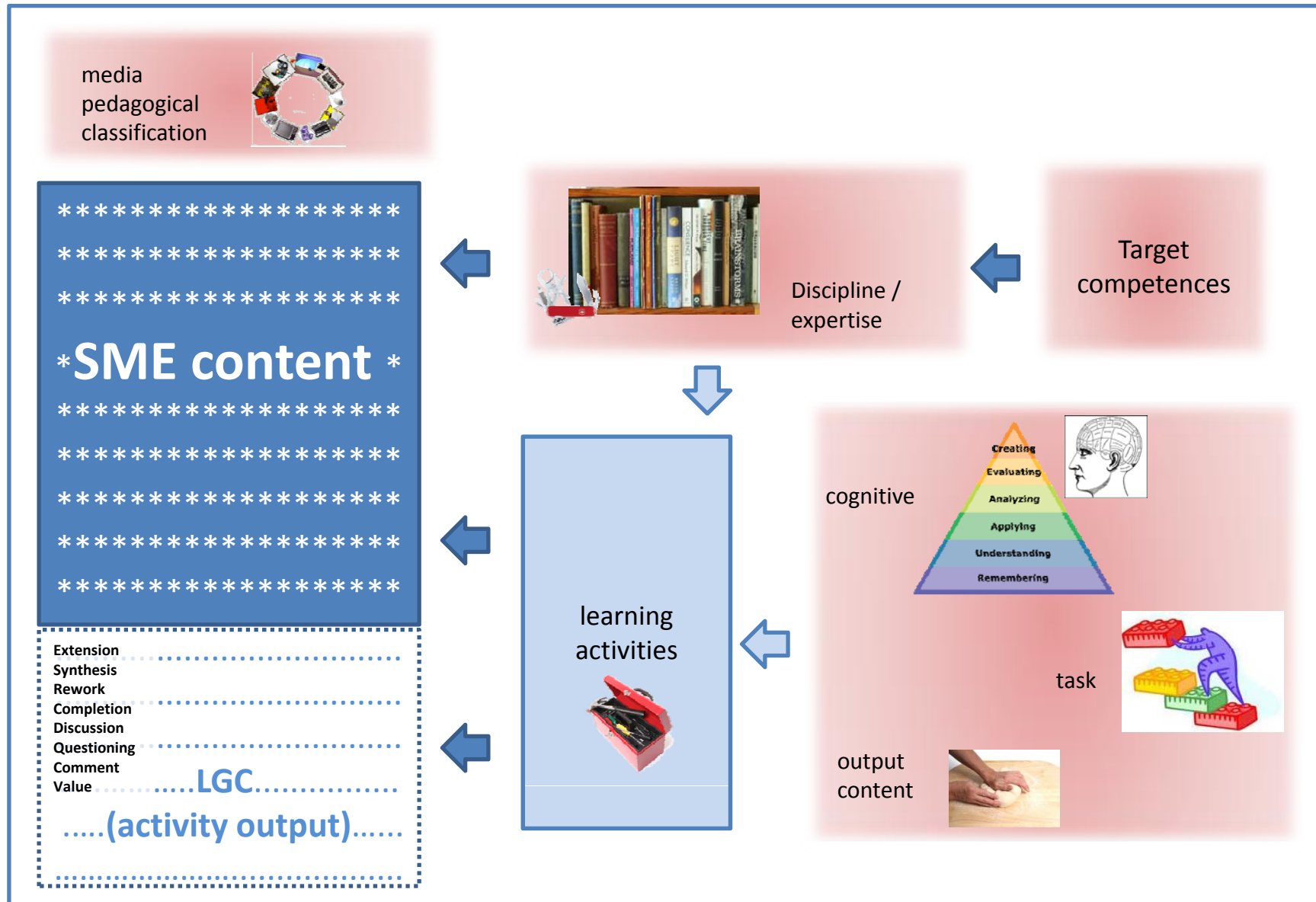
# Roles and editing rights



Session

***Version***

# RAO underpinnings



# LGC: output content level taxonomy

- **Extending:** adding more information, examples, testimonies, cases on a given specific subject.
- **Synthesizing:** adding a synthesis of a given chunk of content.
- **Reworking:** rephrasing, restructuring, reusing, mashing up or remixing content according to different perspectives or purposes (repurposing).
- **Completing:** developing new knowledge based on content omissions, new available knowledge or new generated knowledge.
- **Questioning:** introducing open questions and arguments that may contradict or make evident content flaws, inconsistencies or biases.
- **Discussing:** exchanging ideas around a subject, defending and taking positions on controversial aspects of the subject.
- **Commenting:** giving personal opinions about a given subject
- **Valuing (rating):** expressing a quantifiable / measurable judgment on a subject

# RAO conceptual authoring model

Authoring for  
openness

Authoring for  
learning

Authoring for  
participation and  
versioning

Laurillard's media classification

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
**\*SME content\***  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

Extending .....  
Synthesizing .....  
Reworking .....  
Completing .....  
Questioning .....  
Discussing .....  
Commenting .....  
Valuing .....

**LGC**  
**(activity output)**

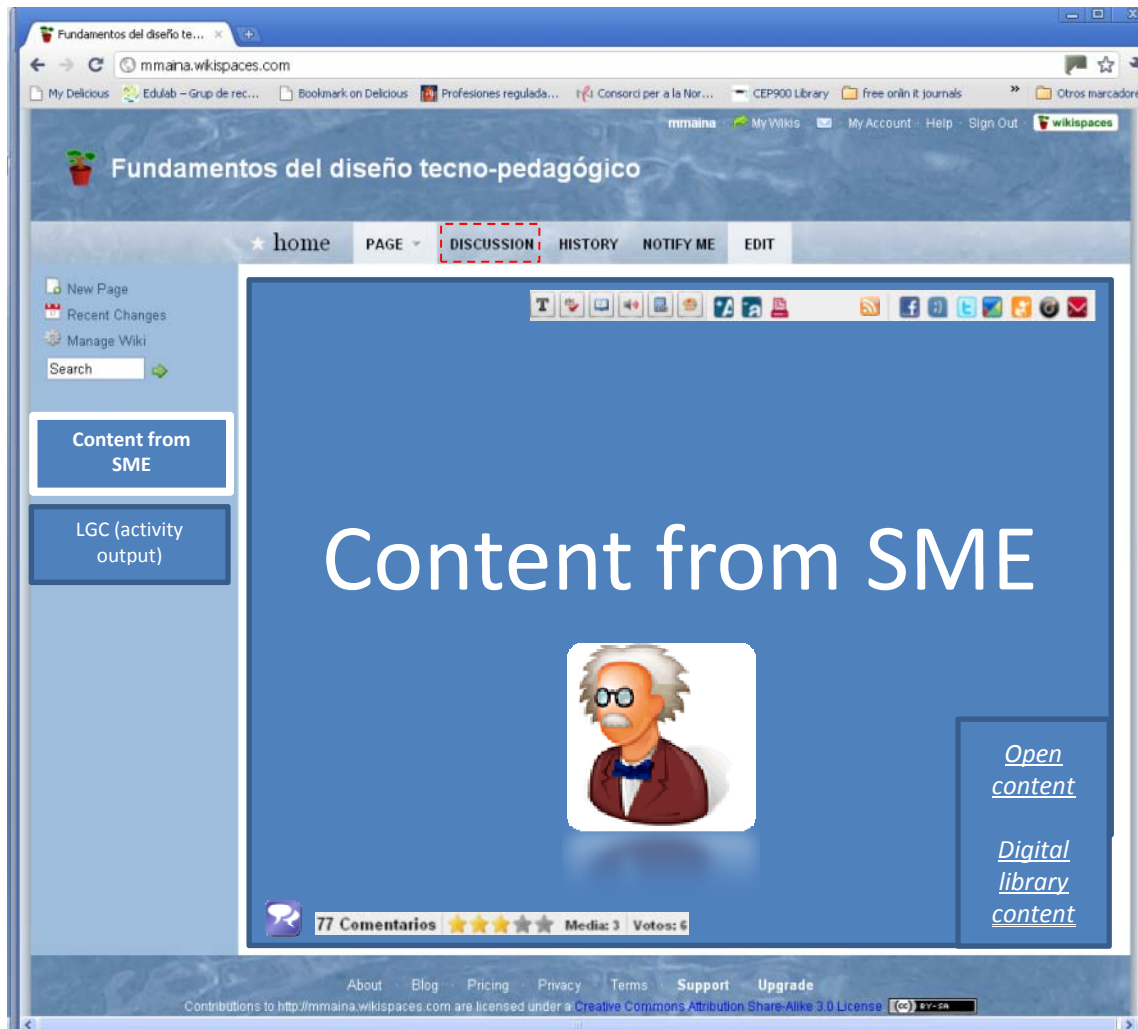
Discipline/field knowledge  
+  
Author expertise  
+  
Course target competences

Conole & Fill's task taxonomy  
+  
Anderson & David's cognitive processes  
taxonomy  
+  
Maina & Guàrdia's output content  
taxonomy

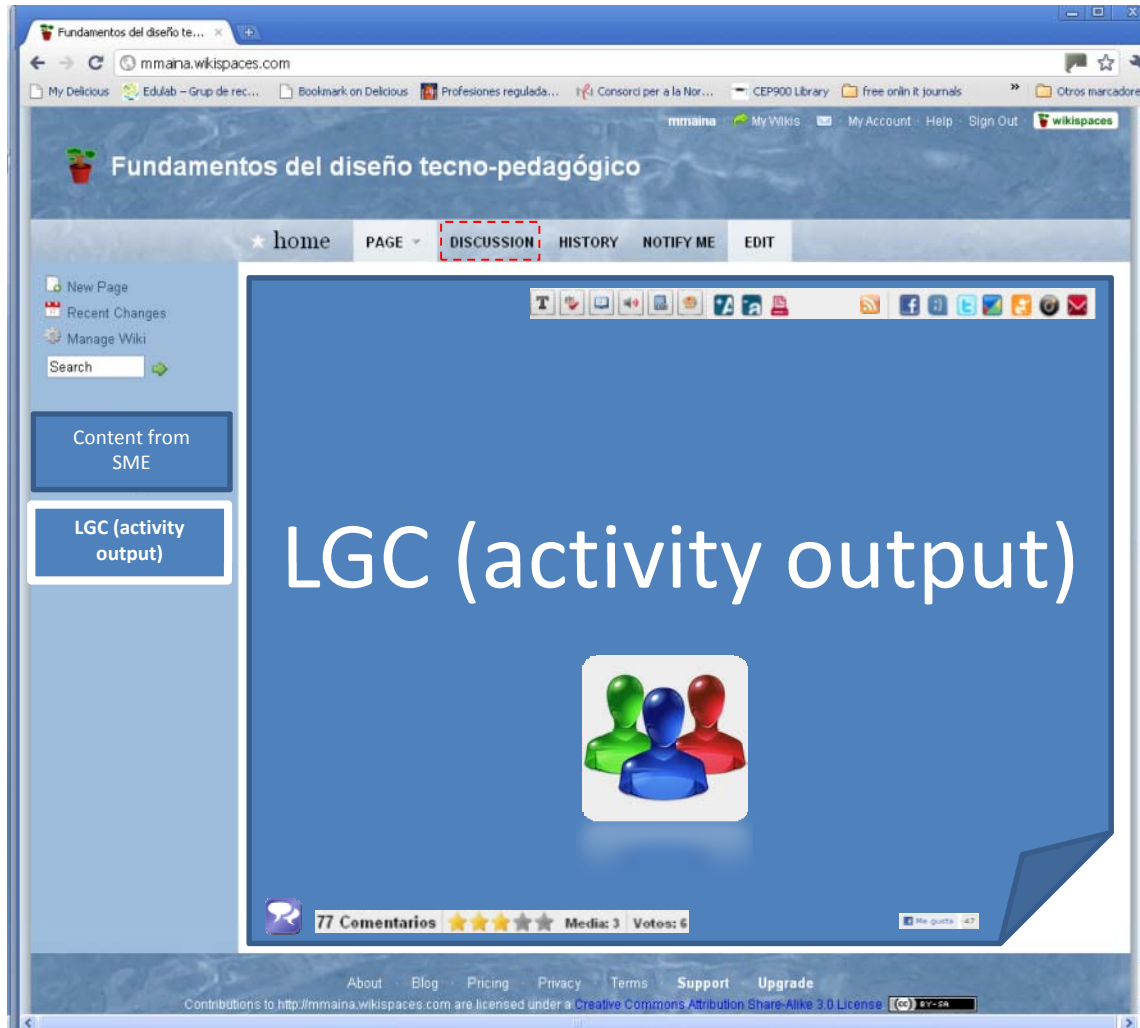
learning  
activities



# RAO mock-up



# RAO mock-up



Menu

- SME 1.
- SME 1.1
- LGC 1.X
- SME 2
- SME 2.1
- LGC 2.X
- SME X.

★ ★ ★ ★ ★ 1 Votar

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\* **Learner generated content** \*\*\*\*\*

\*\*\*\*\*



\*\*\*\*\*

Commets

Aaaaaaaaaa aaaaaaaaaaaaaaaaaa aaaaaaaaa aa aaaaaaaaaaaaaa aaaaa

Bbbbbbbb bbbbbbbbbbbbbbb bbbbbbbbbbbbbbb

"Title" by XX, under



# Editing mode (prototype)

UOC  
Universitat Oberta de Catalunya  
www.uoc.edu

navegació

- Pàgina principal
- Portal comunitari
- Actualitat
- Canvis recents
- Pàgina a l'atzar
- Ajuda

cerca

eines

- Què hi enllaça
- Seguiment d'enllaços
- Carrega
- Pàgines especials

Mmaina discussió preferències llista de seguiment contribucions finalitza la sessió

pàgina discussió modifica historial elimina reanomena protecció vigila unpostcomment unreaderfeedback grups

## S'està editant Pàgina principal

[Disable rich editor]

Formato Normal B I U ABC x<sub>2</sub> x<sup>2</sup> Titulos Recursos centrales Recursos laterales Fuente Listas Tablas Pie de página

El programari del MediaWiki s'ha instal·lat correctament.  
Consulteu la [Guia d'Usuari](#) per a més informació sobre com utilitzar-lo.

### Per a començar

- [Llista de característiques configurables](#)
- [PMF del MediaWiki](#)
- [Llista de correu \(listserv\) per a anuncis del MediaWiki](#)

Widget Properties

Edit

- f
- dipity
- t
- Google Docs
- RSS
- PDF

feedurl:

length:

OK Cancelar

# Viewing mode (prototype)

The screenshot displays a web browser window with the URL `cv.uoc.edu/app/mediawiki40/wiki/Pàgina_principal`. The page title is "Pàgina principal". The main content area features a large orange banner with the UOC logo and the text "COMMONWEALTH of LEARNING Commonwealth Educational Media Centre for Asia" and "E-Learning A Guidebook of Principles, Procedures and Practices".

The left sidebar contains a "navegació" section with links to "Pàgina principal", "Portal comunitari", "Actualitat", "Canvis recents", "Pàgina a fer", and "Ajuda". Below it is a "cerca" (search) box with "Vés-hi" and "Cerca" buttons, and an "eines" (tools) section with links for "Què hi enllaça", "Seguiment d'enllaços", "Carrega", "Pàgines especials", "Versió per a impressora", "Enllaç permanent", "Generar PDF", and "Valoració de la pàgina".

The top navigation bar includes links for "pàgina", "discussió", "modifica", "historial", "elimina", "reanomena", "protecció", "vigila", "unpostcomment", "unreadfeedback", and "grups".

The right sidebar features a "Grups" section with "Grup: Grup 1 /" and "Grup: Grup 2 (no)". Below it is a "Design rationale" section with a "twitter" link and "Join the conversation". At the bottom of the sidebar is a "Facebook" section for "Elearning! Magazine on Facebook" with a "Like" button and a "452 people like Elearning! Magazine." notification.

At the bottom of the main content area, there is an "RSS" section with the text "Aprendizaje 2.0" and a list of items, including "Llamado a preinscripción: Maestría en Educación mención Informática y Diseño Instruccional" with dates "2012-01-29 17:58:00-04:30" and "Del 06 de febrero al 30 de marzo se estarán efectuando las preinscripciones para cursar estudios en la Maestría en Educación mención Informática y Diseño Instruccional de la Universidad de Los Andes (MEIDI-ULA). La Maestría experimentará por primera vez con la".

Gracias. Merci. Obrigado. Thank you.

Questions?

Comments?

Contact: [mmaina@uoc.edu](mailto:mmaina@uoc.edu) – [lguardia@uoc.edu](mailto:lguardia@uoc.edu)