

**Open metadata  
for open educational resources  
in an open infrastructure**

Erik Duval, Stefaan Ternier, Martin Wolpers, Jehad Najjar, Bram Vandeputte, Katrien Verbert, Joris Klerkx, Michael Meire, Xavier Ochoa

K.U.Leuven & ARIADNE  
<http://www.cs.kuleuven.be/~erikd>

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http://www.slideshare.net/erik.duval



ariadne.cs.kuleuven.be/wordpress/eduval

Belgium
Joined October 2006
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Last login: 4 months ago

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questd..

on Presentatie... [slide 1] 1 week ago
Dear Erik Duval, I'm trying to update the link to my work on PowerPoint. The old PowerPoint thread was: http://www.edwardtufte.com/mboard/q-and-a-fetch-msg?msg\_id=0000Rs&topic\_id=1 The new ..



mprove

on How do you ... [slide 3] 3 weeks ago
Its Alan Kay (not Keye)

Uploaded Slideshows (edit all) (17)



Presentatietechnieken
1 day ago
79 views, 0 comments
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Probleem oplossen en ontwerpen, deel 1..
2 weeks ago
419 views, 0 comments
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Probleem oplossen en ontwerpen les 1
3 weeks ago
974 views, 0 comments
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Favorite Slideshows (1)



SAMgl: Automatic Metadata Generation v.2
3 months ago
303 views, 0 comments

Tags (12)

ariadne chi design keynote learning
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snowflake snowflakeeffect solving

My Contacts

No contacts to display

My Groups

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Latest from Contacts

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open = removing barriers

your barriers?



- legal
  - am not allowed to use or change it
- findability
  - don't know it exists & can't find it (back)
- can't keep up
  - too much hassle, not part of my workflow

legal?



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Simple

Good enough



to Share — to copy, distribut



Good



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Simple



to Share — to copy, distribut

Good enough

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or licensor (but not in a way  
use of the work

Works (in court)

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... the same or similar license to this one.

or should we be more agressive assertive?

findability?

**1484.12.1<sup>TM</sup>**

**IEEE Standard for Learning Object  
Metadata**



ARIADNE Foundation for the  
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WEDNESDAY | June 13 2007

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### ➤ Welcome to the Ariadne Foundation

A European Association open to the World, for Knowledge Sharing and Reuse. The core of the ARIADNE infrastructure is a distributed network of learning repositories.

### ➤ Bienvenus à la Fondation Ariadne

Une association européenne ouverte au monde, pour partager et réutiliser la connaissance. Le coeur de l'infrastructure ARIADNE est constitué d'un réseau distribué de viviers de connaissance.

### ➤ Bienvenidos a la Fundación Ariadne

Una asociación europea abierta al mundo para compartir y reutilizar el conocimiento. El núcleo de la infraestructura ARIADNE es una red diistribuida de repositorios de objetos de aprendizaje.

#### ARIADNE news

ARIADNE has a New Website... Check it out!

READ MORE >>

<http://www.ariadne-eu.org/>





<http://globe-info.org/>

# open metadata & open services

# open metadata & open services

- LOM, DC, MPEG, METS, VCARD, ...: yes, thanks!

# open metadata & open services

- LOM, DC, MPEG, METS, VCARD, ...: yes, thanks!
- and youtube, slideshare, ...

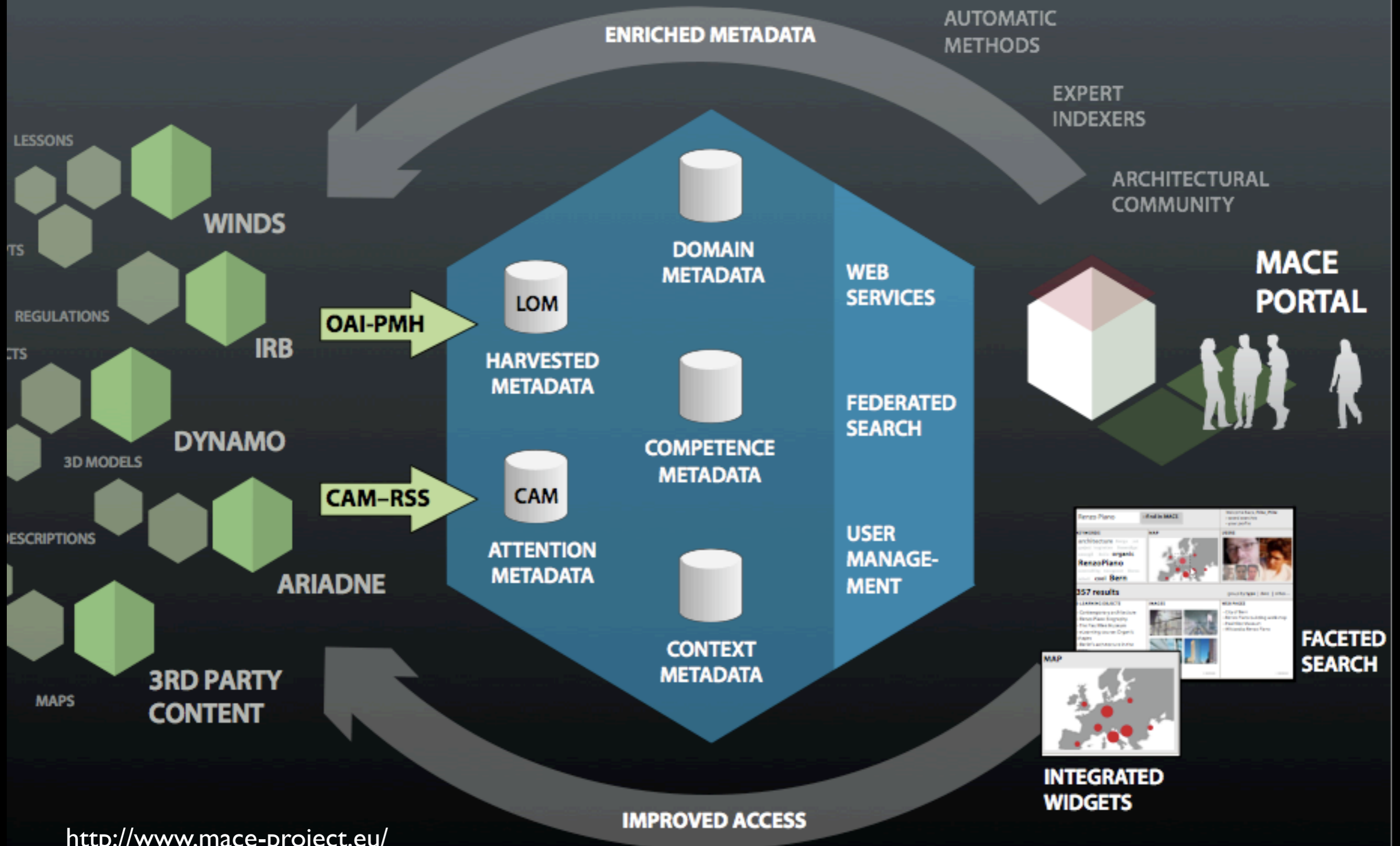
# open metadata & open services

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- and youtube, slideshare, ...
- SQI, SRW, PLQL, CQL, OAI-PMH, ...: yes, thanks!

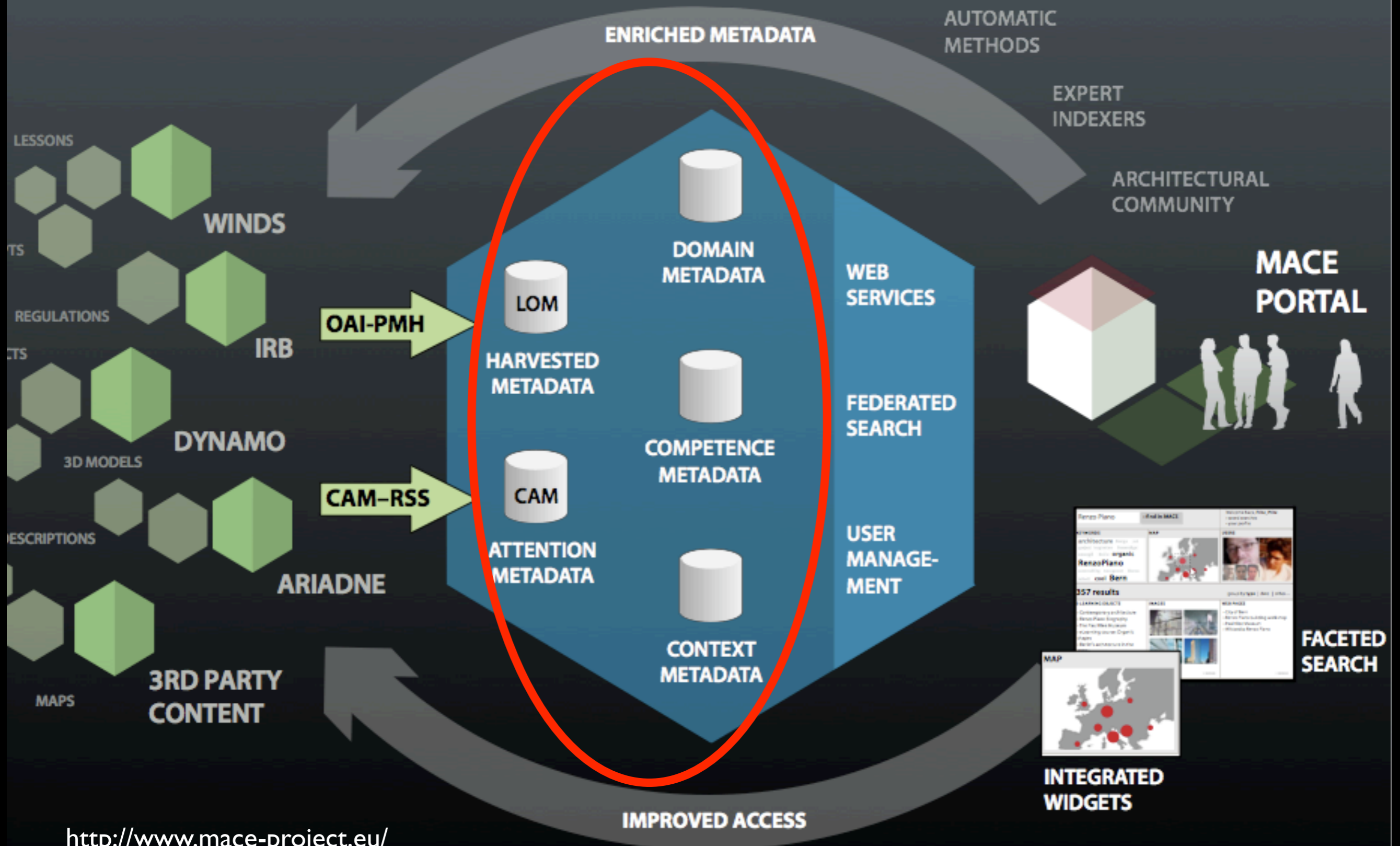
# open metadata & open services

- LOM, DC, MPEG, METS, VCARD, ...: yes, thanks!
  - and youtube, slideshare, ...
- SQI, SRW, PLQL, CQL, OAI-PMH, ...: yes, thanks!
  - and mashups, small pieces loosely joined ...

# INFRASTRUCTURE

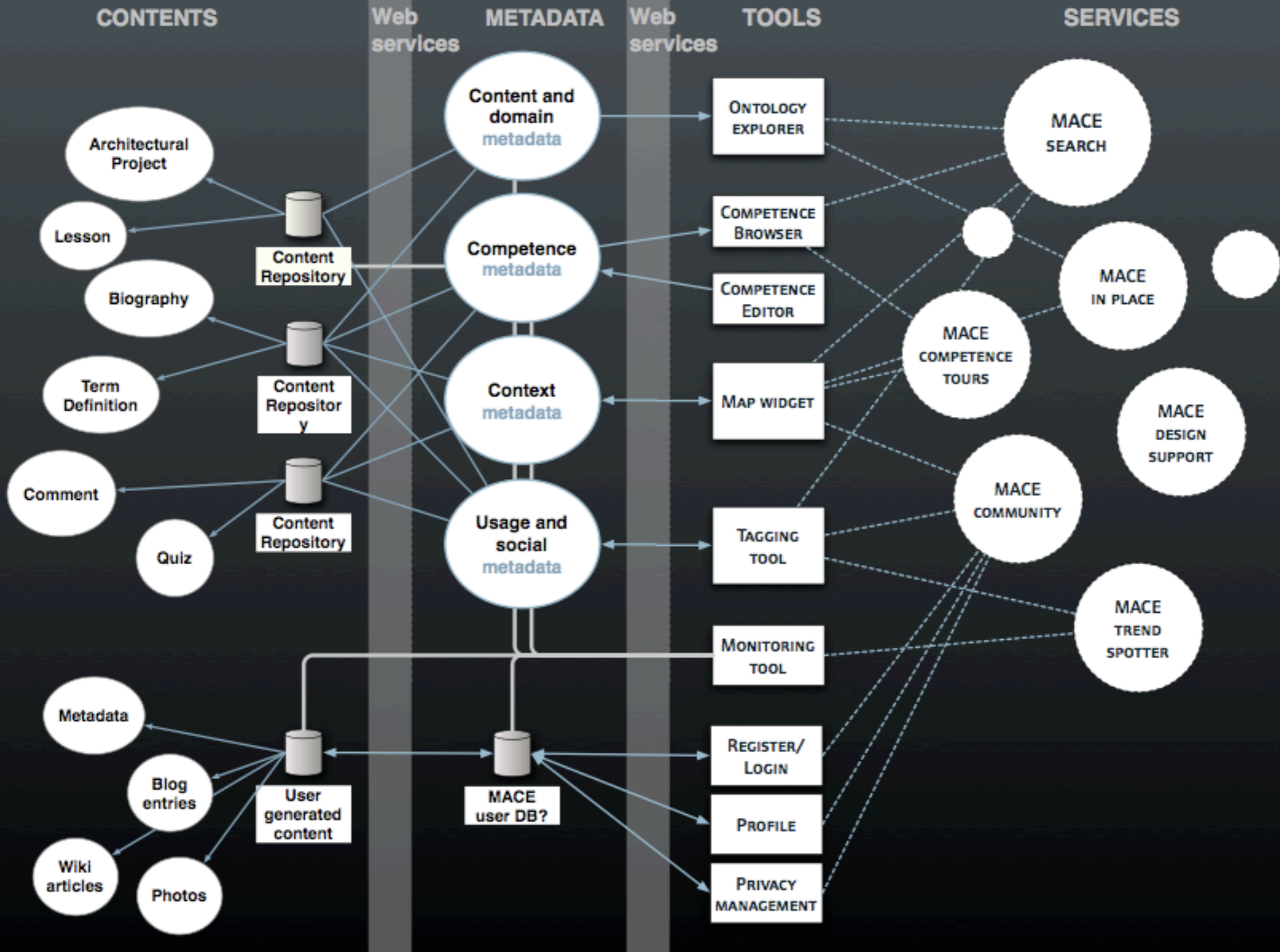



# INFRASTRUCTURE





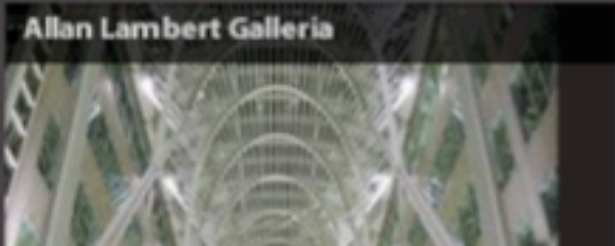



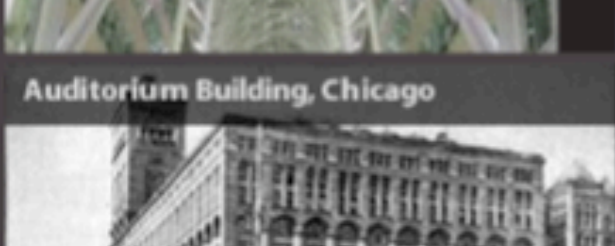
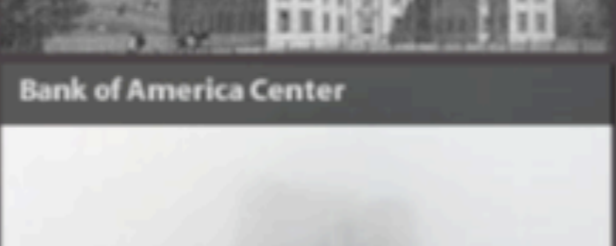
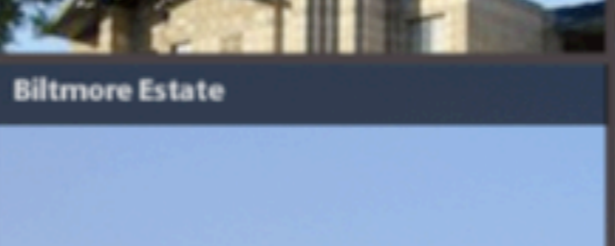
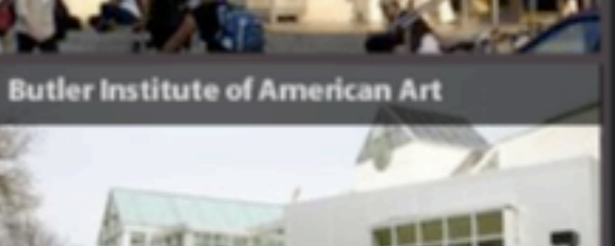




# Functional Layers



STYLE	BUILDINGTYPE	ARCHITECT	MAP
<ul style="list-style-type: none"> <li>Modern architecture 79</li> <li>Beaux-Arts architecture 21</li> <li>Organic architecture 20</li> <li>International style 17</li> <li>Mid-century modern 16</li> <li>Postmodernism 13</li> <li>Deconstructivism 12</li> <li>Contemporary architecture 9</li> <li>Bauhaus 7</li> <li>Futurism 6</li> <li>Google architecture 2</li> </ul>	<ul style="list-style-type: none"> <li>Building 84</li> <li>Skyscraper 26</li> <li>House 17</li> <li>Location 5</li> <li>Museum 4</li> <li>Film location 3</li> <li>Institution 2</li> <li>Listed Site 2</li> <li>Protected Site 2</li> <li>Bridge 2</li> </ul>	<ul style="list-style-type: none"> <li>Frank Lloyd Wright 16</li> <li>Philip Johnson 15</li> <li>Frank Gehry 12</li> <li>Santiago Calatrava 9</li> <li>Cass Gilbert 8</li> <li>Le Corbusier 7</li> <li>Pietro Belluschi 6</li> </ul>	

<p><b>190 South LaSalle Street</b></p> 	<p><b>191 Peachtree Tower</b></p> 	<p><b>90 West Street, New York City</b></p> 	<p><b>Alexander Hamilton U.S. Custom House</b></p> 
<p><b>Allan Lambert Galleria</b></p> 	<p><b>Althorp</b></p> 	<p><b>Arizona Biltmore Hotel</b></p> 	<p><b>Art Gallery of Ontario</b></p> 
<p><b>Auditorium Building, Chicago</b></p> 	<p><b>Bank of America Center</b></p> 	<p><b>Biltmore Estate</b></p> 	<p><b>Butler Institute of American Art</b></p> 



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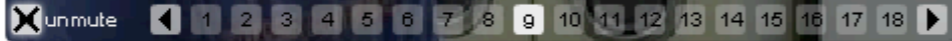
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Featured Shows



**Chasing Windmills**

This may be the future of filmmaking — a daily updated serialized film noir.

**pkjproductions**

Nottingham's own Paul Knight produces homemade content that's always new and different.

**Women of Warcraft**

A (mostly) daily show about the fun, adventures, and insight of a woman in the World of Warcraft.

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**Blip.tv wins People's Voice and Webby Awards**

The Webby Awards, the leading international honor for the Web, named blip.tv the Best Broadband Website of 2007. [Terra](#) and [Jetset](#) also received awards.

Click [here](#) for more info.

**Walt Mossberg Likes blip.tv**

In a recent Wall Street Journal column about online video sites, Walt Mossberg declares, "My favorite is blip.tv." He says [Goodnight Burbank](#) is "one of my favorite shows" and discusses watching [Alive in Baghdad](#), [Cube News 1](#), [HotRoast](#), [The Ministry of Unknown Science](#) and [Josh Leo](#).

Read the full column [here](#).

**Blip.tv is one of "25 startups to watch"**

Business 2.0 Magazine says "It's getting crowded on the Web 2.0 frontier, but there are still some startups that truly stand out." They included blip.tv among the companies they think are "positioned to succeed in the class of 2007."

You can find our profile and read the full article [here](#).

Hot Episodes

**Paris Hilton Prison Diaries: Day 5 - A Graceful Exit**  
snideTV  
This is episode 5 of the popular web series Paris Hilton Prison Diaries, in which Paris does anything she can to

**Soft Drink Censorship Gets A Tongue Lashing From Prematurely Aging Comedians Banned From Sketch.com**  
betterbadnews

**Revenge of the Semiconductors**  
Wallstrip  
(6-26-07) The Nerds know something that you don't: semiconductors are back like Ray-Bans...well, some of

**Political Lunch 06-25-07**  
Political Lunch  
Rob and Will play catch-up on today's edition of The Lunch with headlines from the weekend's political news. Edwards decides he doesn't like

**Lazy Leopard**  
Wildcast  
Khayeni had no reason to do anything last night and so did just that sleeping the night away. It was only just before dawn she climbed the

Don't Miss

**One week until GOODBYE**  
Since October 4, we've shared good times and bad times. Take a stroll with us down memory lane.

**Sunflower Seeds Forever**  
Cooking Up A Story  
A field of shimmering sunflowers; a flock of hungry birds feeding, and a farmer who shares some of his stories about his sunflower fields.

**Best Damn Tech Show, Period 06.26.07**  
bestdamntech  
The Guys take it easy during the summer, this week's episode proves it. The crew enjoys a traditional American barbeque and manage to

**Beard Science**  
the wheezy waiter  
I hope you're sitting down. Critics are calling this one "the most shocking wheezy waiter to date"-atlanta quarterly. I don't want

**Weekly Celebrity News | 06.25.07**  
Holy Candy TV | Weekly Celebrity News  
A weekly video blog skewering the latest in celebrity and

# Episodes

# Shows

Displaying episodes matching the search "lillehammer" [\[Start Over\]](#)

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Lillehammer by night

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norway

ridavio

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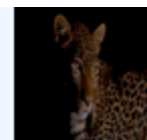
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crowded on the Web 2.0 frontier, but there are still some startups that truly stand out.\* They included blip.tv among the companies they think are "positioned to succeed in the class of 2007."

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Lazy Leopard Wildcast

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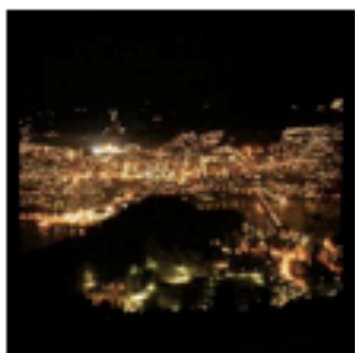
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lillehammer

Search



Lillehammer by night

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 These are the slides used in the lesson on Friday, 29. September before lunch.


  **Less 29.9.2006 nami smil**      
 [KULeuven v 3.1 nr 244](#)  
 These are the slides used in the afternoon session on Friday, 29. September. They describe the necessary building blocks of SMIL to fulfill the first assignment.

  **Les 2: tekst en beeld**      
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 Lever hier je oplossing voor project 1 in.  
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 Het hoorcollege van vrijdagmorgen 13 oktober wordt vervangen door zelfstudie van het aangehecht artikel. Op vrijdagmiddag zullen we dit paper onder andere bespreken...

  **Less 13.10.2006 nami ommma-l**

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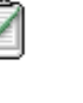


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	2 <b>Less 29.9.2006 nami smil</b> <a href="#">KULeuven v 3.1 nr 244</a> These are the slides used in the afternoon session on Friday, 29. September. They describe the necessary building blocks of SMIL to fulfill the first assignment.	Modify	Manage	Copy	Remove
	3 <b>Les 2: tekst en beeld</b> <a href="#">pdf</a> (2.93 Mb)	Modify	Manage	Copy	Remove
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	5 <b>Project 1: SMIL</b> Lever hier je oplossing voor project 1 in. >> <a href="#">View/Complete Assignment: Project 1: SMIL</a>	Modify	Manage	Remove	
	6 <b>Zelfstudie-opdracht: UML en multimedia</b> <a href="#">umlmume.pdf</a> (181.504 Kb) Het hoorcollege van vrijdagmorgen 13 oktober wordt vervangen door zelfstudie van het aangehecht artikel. Op vrijdagmiddag zullen we dit paper onder andere bespreken...	Modify	Manage	Copy	Remove
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2	<b>Less 29.9.2006 nami smil</b>	Modify	Manage	Copy	Remove
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4	<b>Mashups</b>	Modify	Manage	Copy	Remove
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6	<b>Zelfstudie-opdracht: UML en multimedia</b>	Modify	Manage	Copy	Remove
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other teachers like you...

new since last year

you used last year

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this  
context

other  
teachers  
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3	Les 2: tekst en beeld	Modify	Manage	Copy	Remove
	<a href="#">pdf</a> (2.93 Mb)				
4	Mashups	Modify	Manage	Copy	Remove
	Meer informatie over mash-ups vind je hier...				
5	Project 1: SMIL	Modify	Manage	Remove	
	Lever hier je oplossing voor project 1 in. >> <a href="#">View/Complete Assignment: Project 1: SMIL</a>				
6	Zelfstudie-opdracht: UML en multimedia	Modify	Manage	Copy	Remove
	<a href="#">umlmume.pdf</a> (181.504 Kb) Het hoorcollege van vrijdagmorgen 13 oktober wordt vervangen door zelfstudie van het aangehecht artikel. Op vrijdagmiddag zullen we dit paper onder andere bespreken...				
7	Less 13.10.2006 nami ommma-l	Modify	Manage	Copy	Remove



# teachers

also used  
by...

used in  
this  
context

other  
teachers  
like you...

new since  
last year

you used  
last year

KATHOLIEKE UNIVERSITEIT  
**LEUVEN**

Home Help Logout

My Toledo Admin Help

COURSES > | G0Q55A | MULTIMEDIA: MODELLEREN EN PROGRAMMEREN > CONTROL PANEL > DOCUMENTEN

### Documenten

Item Folder External Link Course Link Test Select: Learning Unit Go

1	Less 29.9.2006 vomo intro	Modify	Manage	Copy	Remove
	<a href="#">KULeuven v 3.1 nr 243</a> These are the slides used in the lesson on Friday, 29. September before lunch.				
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teachers

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7	Less 13.10.2006 nami ommma-l	Modify	Manage	Copy	Remove

your peers have done this

teachers

learners

also used by...

used in this context

other teachers like you...

new since last year

you used last year

The screenshot shows the 'Documenten' (Documents) page of a course management system. At the top, it displays the logo for 'KATHOLIEKE UNIVERSITEIT LEUVEN' and navigation links for 'Home', 'Help', and 'Logout'. Below the logo, there are tabs for 'My Toledo', 'Admin', and 'Help'. The main content area shows a breadcrumb trail: 'COURSES > | G0Q55A | MULTIMEDIA: MODELLEREN EN PROGRAMMEREN > CONTROL PANEL > DOCUMENTEN'. The 'Documenten' section includes a toolbar with options like 'Item', 'Folder', 'External Link', 'Course Link', 'Test', and a 'Select' dropdown menu set to 'Learning Unit'. A list of documents follows, each with a number in a dropdown menu, a title, a description, and action buttons (Modify, Manage, Copy, Remove). The documents listed are:
 

- 1: Less 29.9.2006 vomo intro (KULEuven v 3.1 nr 243) - Description: 'These are the slides used in the lesson on Friday, 29. September before lunch.'
- 2: Less 29.9.2006 nami smil (KULEuven v 3.1 nr 244) - Description: 'These are the slides used in the afternoon session on Friday, 29. September. They describe the necessary building blocks of SMIL to fulfill the first assignment.'
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- 6: Zelfstudie-opdracht: UML en multimedia (umlmume.pdf (181.504 Kb)) - Description: 'Het hoorcollege van vrijdagmorgen 13 oktober wordt vervangen door zelfstudie van het aangehecht artikel. Op vrijdagmiddag zullen we dit paper onder andere bespreken...'
- 7: Less 13.10.2006 nami omma-l

they asked ...

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KATHOLIEKE UNIVERSITEIT  
**LEUVEN**

Home Help Logout

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KULeuven v 3.1 nr 243 These are the slides used in the lesson on Friday, 29. September before lunch.					
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who is doing this now?

they asked ...

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learn  
together?

who is  
doing this  
now?

they  
asked ...

your peers  
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this

# teachers

# learners

also used by...

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other teachers like you...

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The screenshot shows the 'Documenten' (Documents) section of a course control panel for 'KATHOLIEKE UNIVERSITEIT LEUVEN'. The page has a blue header with the university logo and navigation links (Home, Help, Logout). Below the header, there are tabs for 'My Toledo', 'Admin', and 'Help'. The main content area displays a list of documents with the following details:

- Item 1:** Less 29.9.2006 vomo intro. Description: KULEuven v 3.1 nr 243. These are the slides used in the lesson on Friday, 29. September before lunch. Actions: Modify, Manage, Copy, Remove.
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- Item 7:** Less 13.10.2006 nami omma-l. Actions: Modify, Manage, Copy, Remove.

thumbs up/down?

learn together?

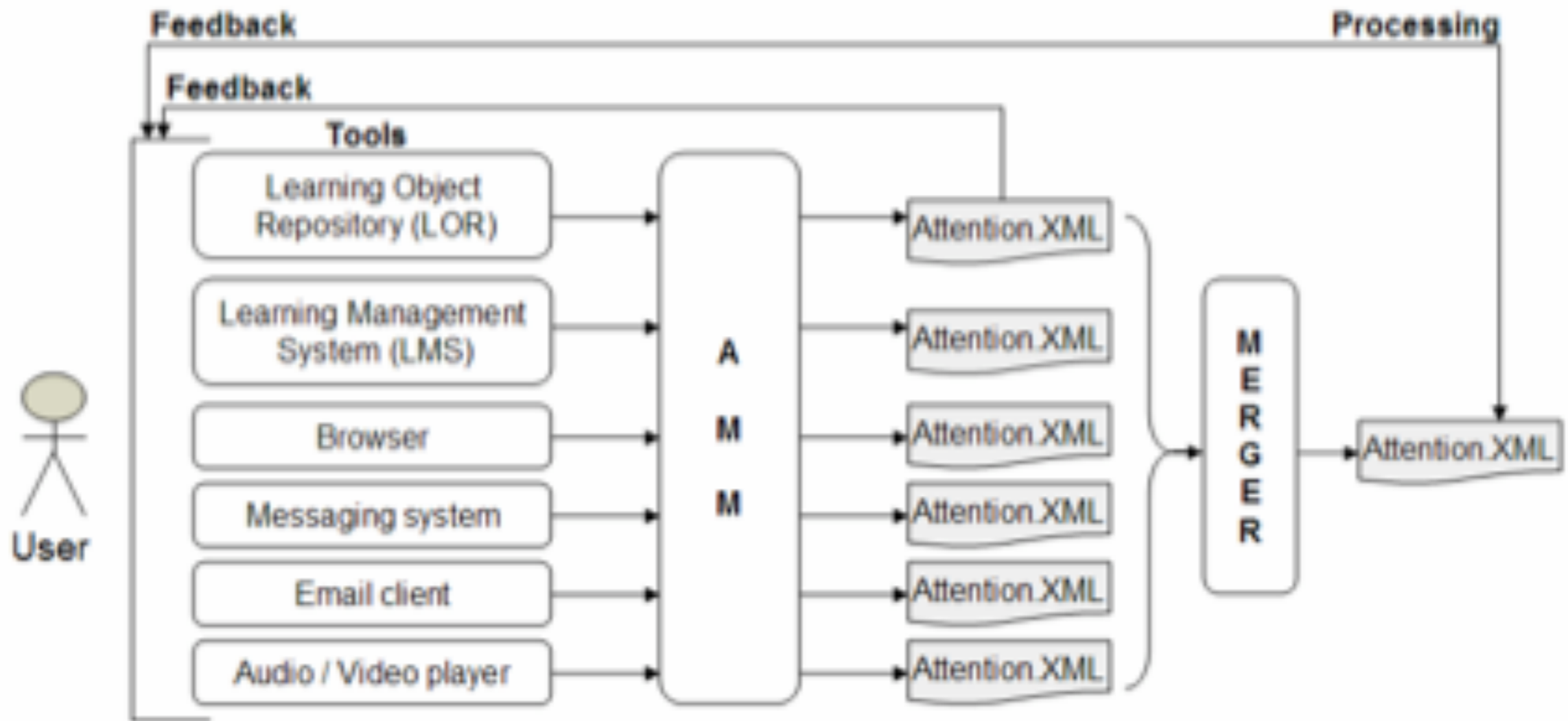
who is doing this now?

they asked ...

your peers have done this

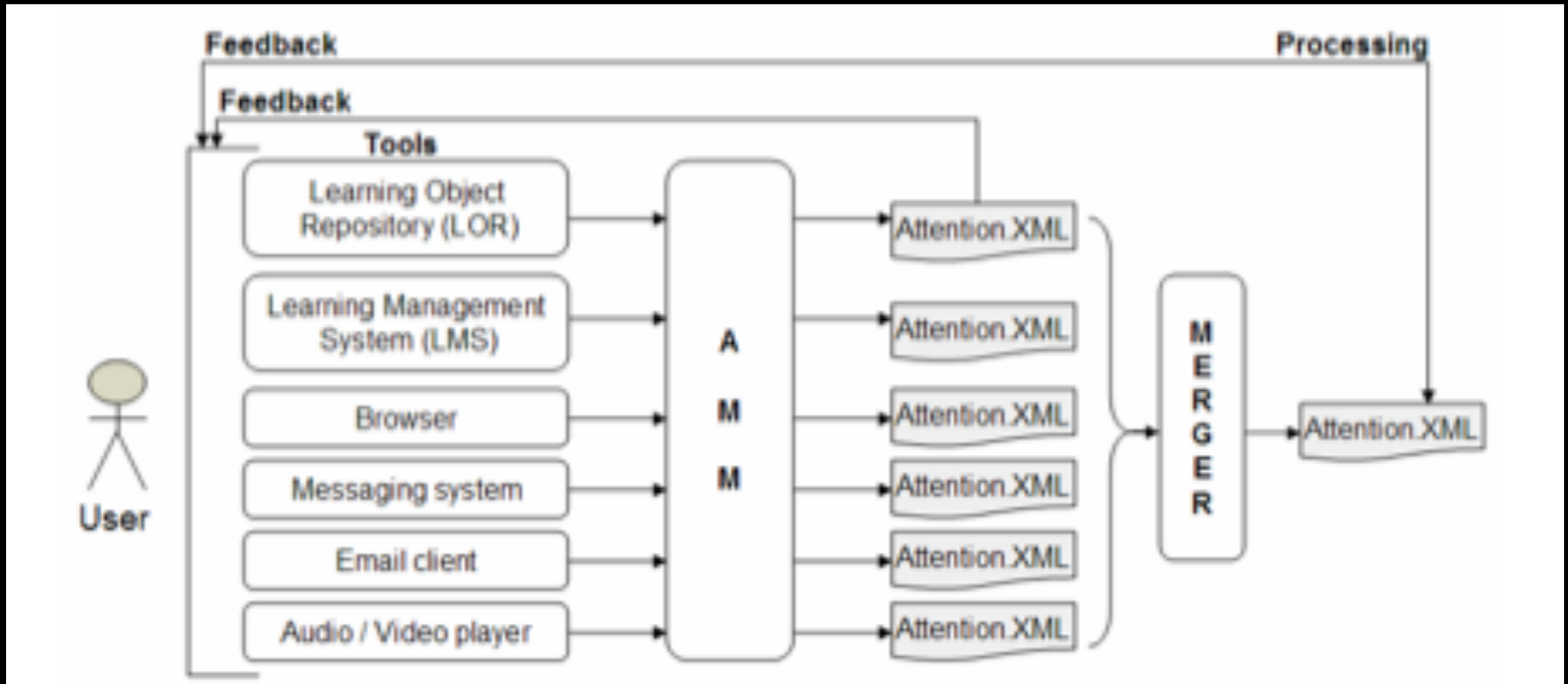
snowflake learning  
requires  
open learning infrastructure  
for scale

# Open feedback





# Open feedback



# Attention metadata

<http://ariadne.cs.kuleuven.be/empirical/>

# Open feedback

Sunnyvale, CA: Data Mining Researcher at Yahoo

Did you know ...

Yahoo! collects **over 10 terabytes** of clickstream behavioral data each day, the equivalent of all the information within the Library of Congress.

Yahoo!'s user data warehouse is in the order of 'petabytes' - the largest in the world.

Yahoo! serves nearly half a billion unique users.

## Attention metadata

<http://ariadne.cs.kuleuven.be/empirical/>

# Open feedback

Google

Search History

Search the Web

Your web history is limited to searches. [Expand your web history.](#)

## Web History for erik.duval@gmail.com

### All History

- [Web](#)
- [Images](#)
- [News](#)
- [Products](#)
- [Sponsored Links](#)
- [Video](#)
- [Maps](#)
- [Pause](#)
- [Remove items](#)

### Trends

### Interesting Items

### Bookmarks

### Dec 7, 2005 (cont.)

12:52am Searched for [x prize](#) - [Viewed 1 result](#)

[http://www.xprize.org/](#)

12:42am Searched for [apollo jfk speech](#)

### Dec 6, 2005

9:51pm Searched for [attention metadata](#) - [Viewed 4 results](#)

[Research | AttentionTrust.org](#) - [attentiontrust.org](#) - Viewed 4 times

[Ed/ITLib DL → Attention Metadata Management: Tracking...](#) - [editlib.org](#)

[» Waiting for Attention... or something like it | Steve...](#) - [zdnnet.com](#)

[http://www.attensa.com/news\\_inc.php?story=062105](#)

### Dec 5, 2005

10:13pm Searched for [eastern 2006](#)

9:02pm Searched for [tom tom wireless gps ipaq bluetooth](#) - [Viewed 1 result](#)

[http://www.tomtom.com/products/features.php?ID=103&Langua...](#)

8:48pm Searched for [Van der Valk hotel Vianen](#)

8:41pm Searched for [eduexchange](#) - [Viewed 1 result](#)

[EduExchange](#) - [kennisnet.nl](#) - Viewed 3 times

8:41pm Searched for [eduxchange](#)

4:04pm Searched for [driver f5d6020 belkin](#) - [Viewed 2 results](#)

[Belkin Downloads](#) - [belkin.com](#)

[Belkin Components .35921 driver - Belkin Components Network ...](#) - [network-drivers.com](#)

### Dec 3, 2005

8:55pm Searched for [Universal Learning Format](#) - [Viewed 1 result](#)

[Cover Pages: Universal Learning Format Technical Specification](#) - [coverpages.org](#)

### Web Activity

Dec 2005 [Jan »](#)

S	M	T	W	T	F	S
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Today, May 9

1 - 5	6 - 10	11 - 20	21+
-------	--------	---------	-----

Total Google searches: 3134



AttentionTrust.org

A non-profit organization dedicated to promoting the basic rights of attention owners

1. Property
2. Mobility
3. Economy
4. Transparency



# AttentionTrust.org

A non-profit organization dedicated to promoting the basic rights of attention owners

*Yo, Google, I live in this*

**house**  **hotel**  **street**

---

*and I ask you to*

**NOINDEX, NOARCHIVE, NOFOLLOW**





AttentionTrust.org

A non-profit organization dedicated to...

## OpenLearn and OpenSocial

October 31st, 2007

While at the OpenLearn2007 conference I have just found out that the rumoured release of a new set of tools from Google to support social spaces is true, with an expected launch on the 1st November. What is interesting in relation of this conference is that we are talking very much about the potential to link up the social aspect with free learning and the use of Open Educational Resources. Both John Seely Brown and Cathy Casserly referred to the impact of Google on our thinking and their potential as a partner. So I am sure I won't be the only one thinking whether OpenSocial has a synergy with OpenLearn – not least because of the name!

 Posted by Patrick  Filed in OpenLearn2007

How about *you*?

# How about *you*?

- many facets to open



# How about *you*?

- many facets to open
- “snowflake effect”

# How about *you*?

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- fight not invented here

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- many facets to open
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- interconnect for scale

# How about *you*?

- many facets to open
- “snowflake effect”
- fight not invented here
- interconnect for scale
- join ARIADNE & Globe !

# Questions?

Erik Duval's Weblog

Learning Objects, Metadata, Interoperability and ... me!

I need help...

Search

<http://ariadne.cs.kuleuven.ac.be/wordpress/eduval/>

indeed, I need help, and I think you may need it too...

If you're reading research on Technology Enhanced Learning, then do you know <http://www.cs.kuleuven.be/~erikd>

- » which of your papers has been cited most often?
- » who has cited you most often?
- » which papers cited a particular publication of yours?
- » whether more and more or less and less people are citing you over the years?
- » whose citing behavior is close to yours?
- » which conference or journal contains the most citations of your papers?
- » which conference or journal contains you cite most often?
- » etc.

If google can do a PageRank of every page on the web, why can't we have a CiteRank of every paper in the world? How about making that rank higher for every citation, and more so if the citing paper was itself often cited?

From my research unit  
Michael Meire's Blog  
Stefaan Ternier's Weblog  
Katrien Verbert Weblog  
Jehad Najjar Weblog  
Kris(C)  
Joris Klerkx' Weblog

Elsewhere  
Pro Learn TV  
Mitch Kapor's Weblog  
The Chandler Project Blog  
Lorcan Dempsey's weblog  
iterating toward openness  
ind.org  
well...  
Edusite - vertnieuws  
stability.org (RSS 0.91)  
Books and Arrows  
Katrien's Blog  
CEIS  
e-Clippings (blogoehlert)  
The International Review of Research  
in Open and Distance Learning  
Jeffrey Zeldman

# Thanks!