



personal  
learningenvironment  
plearn / pl3xn /

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10 May, 2011

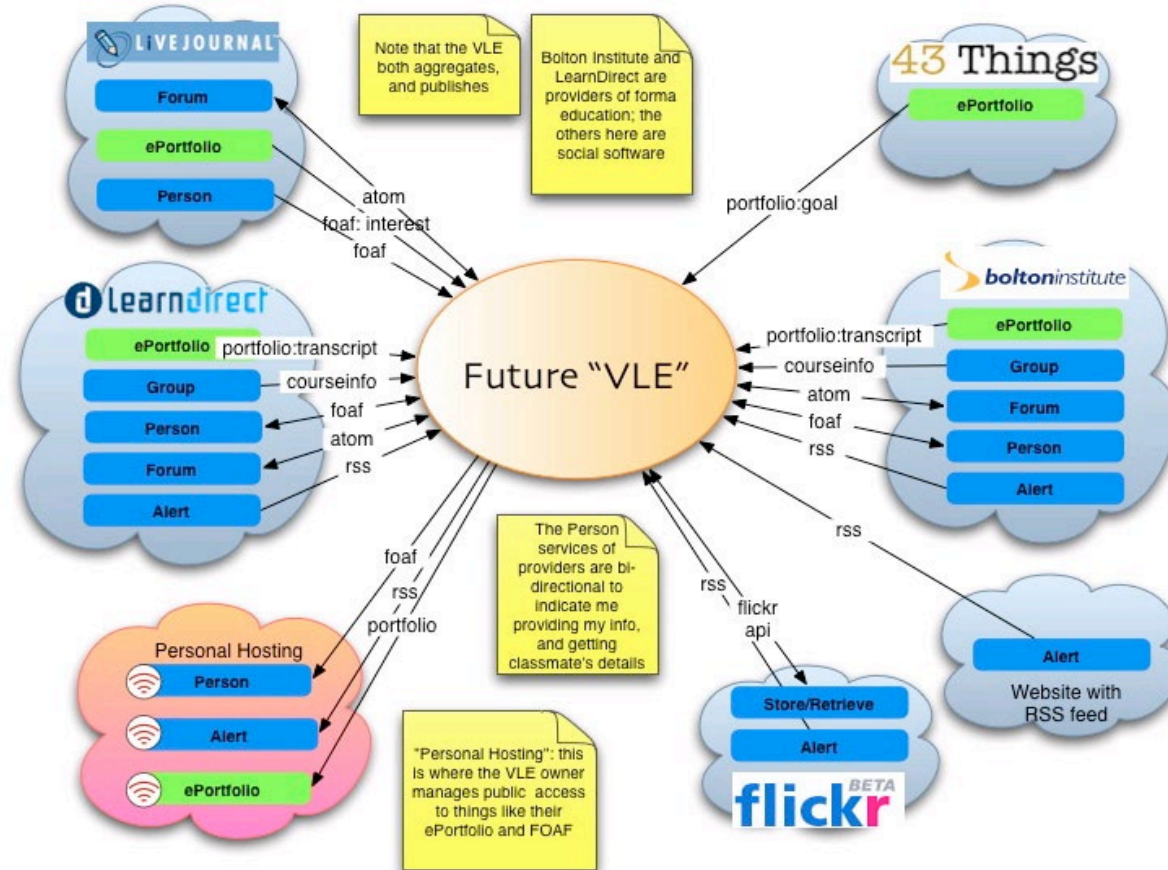


National Research  
Council Canada

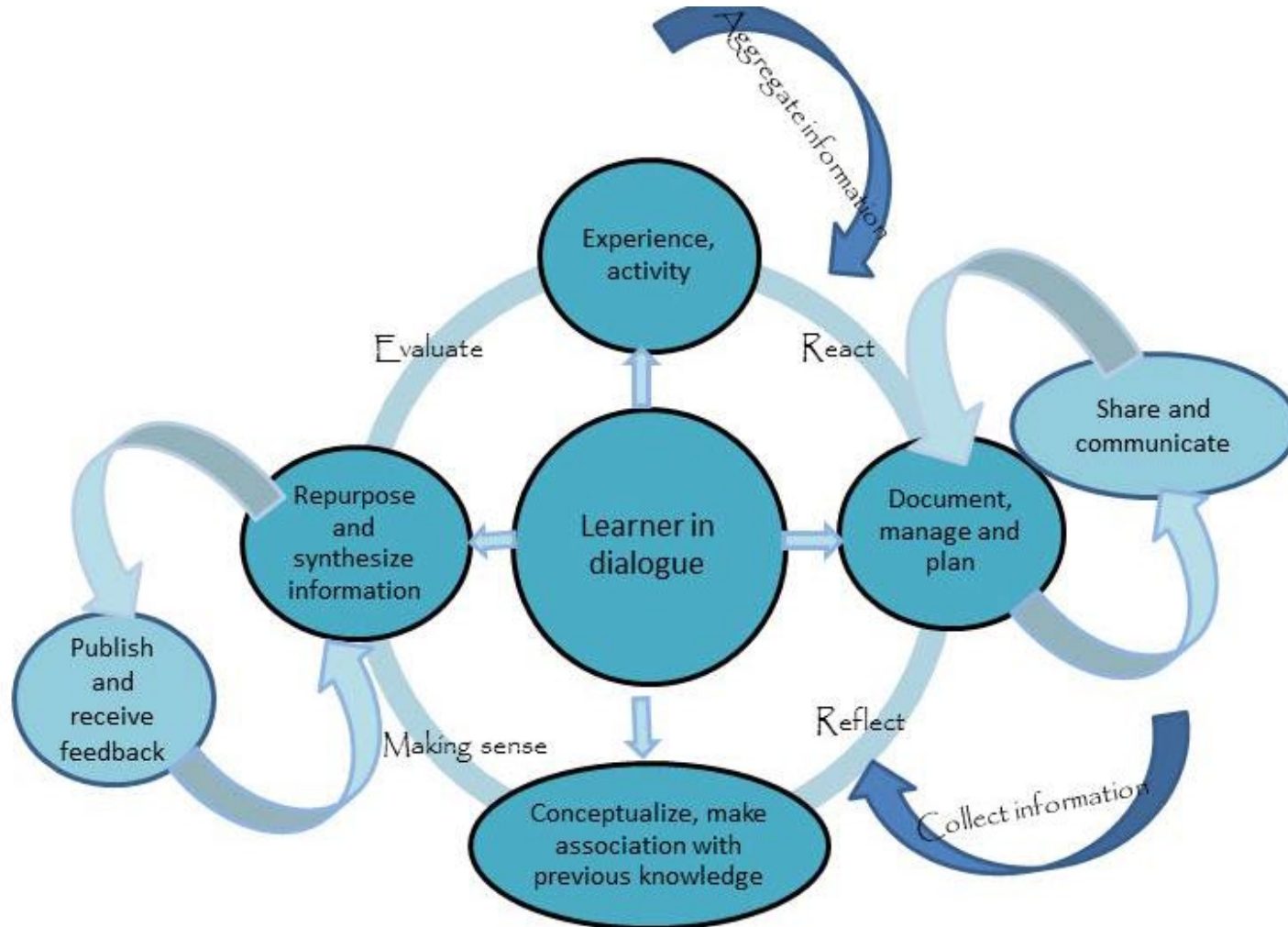
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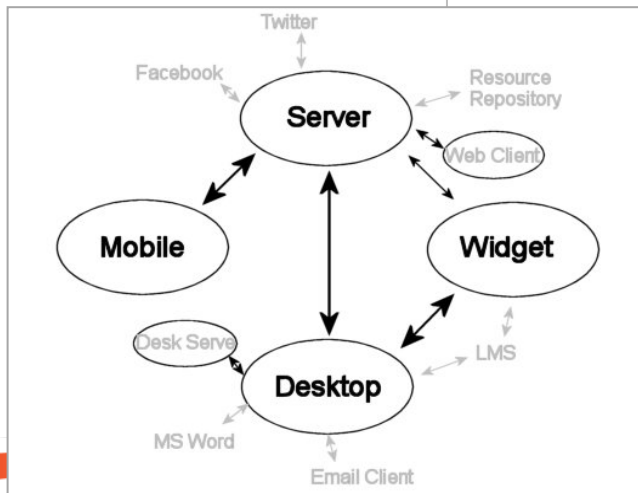
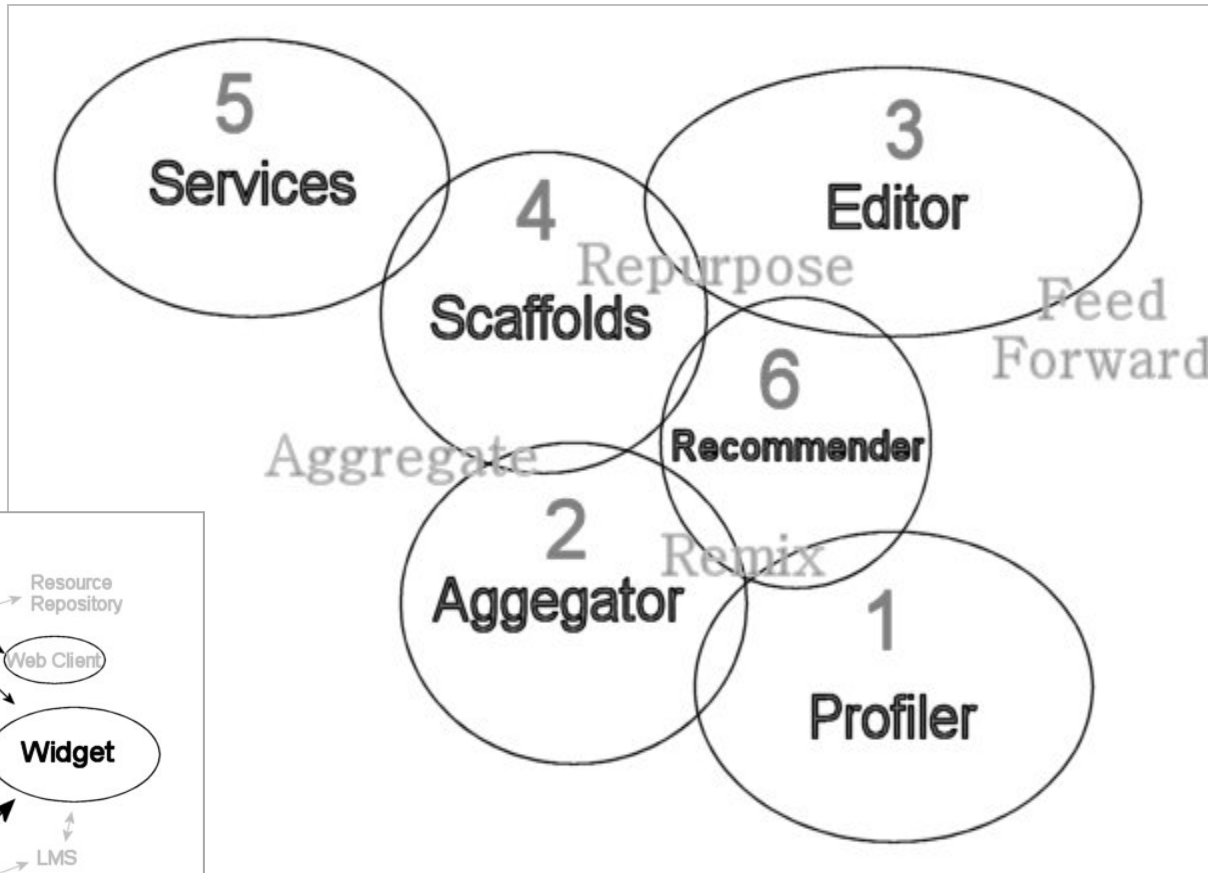
# The Idea of the PLE



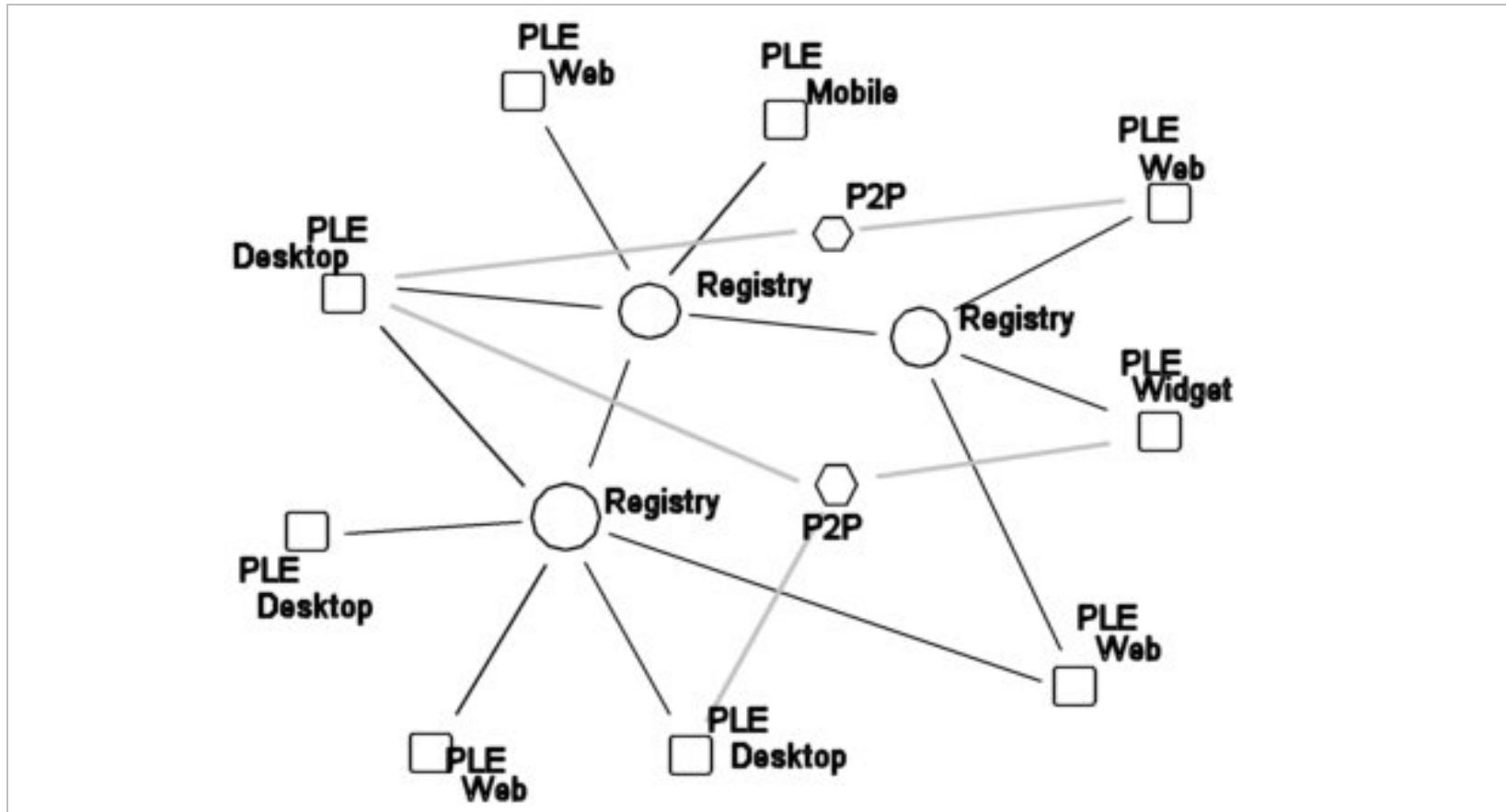
# PLE-based



# PLE Components



# Learning Network



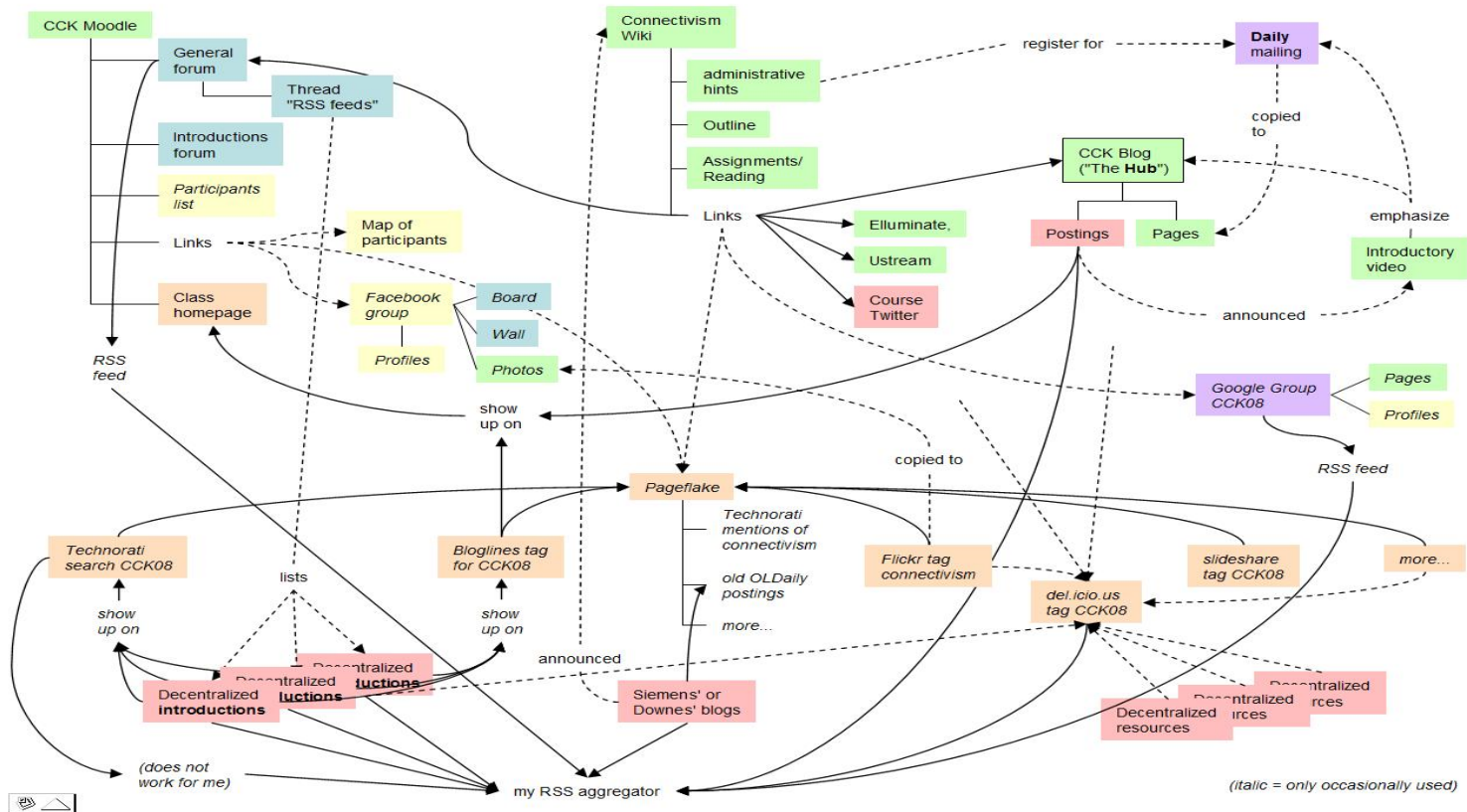
# Design-Based Approach

Design Based Research Approach	Design type	Research methods	Development phase	Evaluation phase	Dissemination phase
<b>Background research</b>	<ul style="list-style-type: none"> <li>Product design</li> <li>Usage centred design</li> <li>Interface design</li> <li>Learner experience design</li> <li>Instructional design</li> </ul>	<ul style="list-style-type: none"> <li>Literature review</li> <li>Super-users surveys</li> <li>Close contact with PLE researchers worldwide</li> </ul>	<ul style="list-style-type: none"> <li>Feed results of literature and surveys into the design</li> </ul>		<ul style="list-style-type: none"> <li>Journal articles, book chapters, conference papers</li> </ul>
<b>Innovation development</b>	<ul style="list-style-type: none"> <li>Product design</li> <li>Usage centred design</li> <li>Learner experience design</li> </ul>	<ul style="list-style-type: none"> <li>Iterative process of design and development</li> <li>Tracking of Intellectual Property</li> </ul>	<ul style="list-style-type: none"> <li>Creation of PLE architecture</li> <li>Design and development of PLE components</li> <li>Development of data model/flow</li> </ul>	<ul style="list-style-type: none"> <li>Evaluation of prototype after each iteration</li> <li>Evaluation of IP of prototype</li> </ul>	<ul style="list-style-type: none"> <li>Commercialization IP and patent development</li> <li>Diffusion and adoption</li> </ul>
<b>Usability testing</b>	<ul style="list-style-type: none"> <li>Product design</li> <li>Usage centred design</li> <li>Interface design</li> </ul>	<ul style="list-style-type: none"> <li>Feedback on mock-ups of the PLE</li> <li>Testing of the PLE prototype at each stages of development/iteration</li> </ul>	<ul style="list-style-type: none"> <li>Feed the results of tests into design</li> <li>Start process again at next iteration</li> </ul>	<ul style="list-style-type: none"> <li>Test final prototype on quality, interface and usability</li> </ul>	<ul style="list-style-type: none"> <li>Journal articles, book chapters, conference papers</li> </ul>
<b>Educational research</b>	<ul style="list-style-type: none"> <li>Learner experience design</li> <li>Instructional/scaffold design</li> </ul>	<ul style="list-style-type: none"> <li>Piloting testing and comparisons of learning in 3 case studies (with different users in different scenarios)</li> </ul>	<ul style="list-style-type: none"> <li>Case studies in MOOCs</li> <li>Workplace-based</li> <li>Multi-media based</li> <li>without and with Plearn</li> </ul>	<ul style="list-style-type: none"> <li>Evaluation of learner experience</li> <li>Evaluation of instruction/ facilitation/ scaffolding</li> <li>Theory development</li> </ul>	<ul style="list-style-type: none"> <li>Journal articles, book chapters, conference papers</li> </ul>

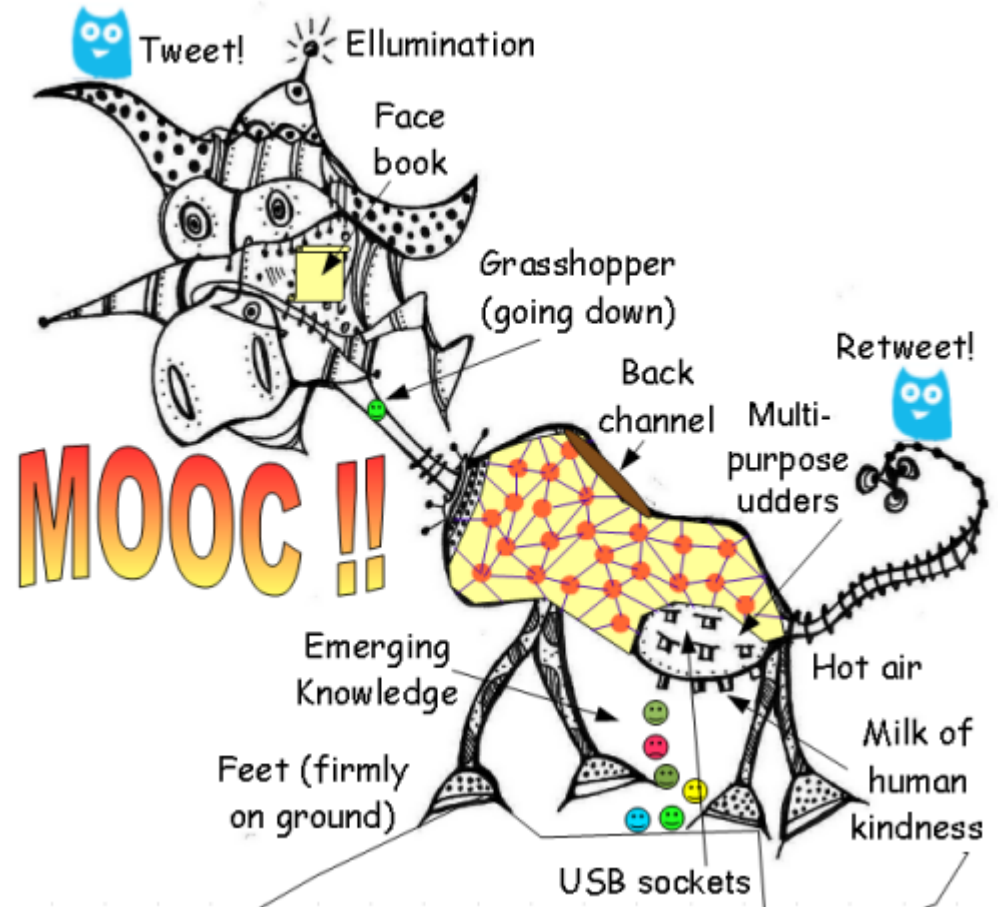
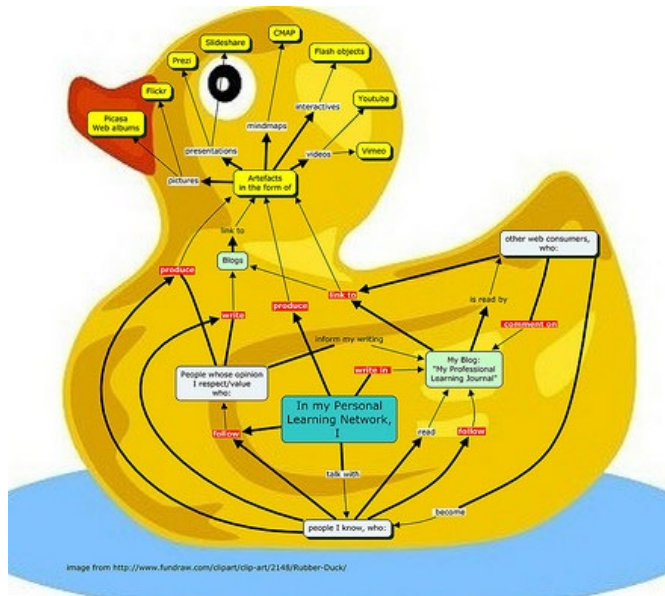




# The Connectivism Courses



# The Connectivism Courses

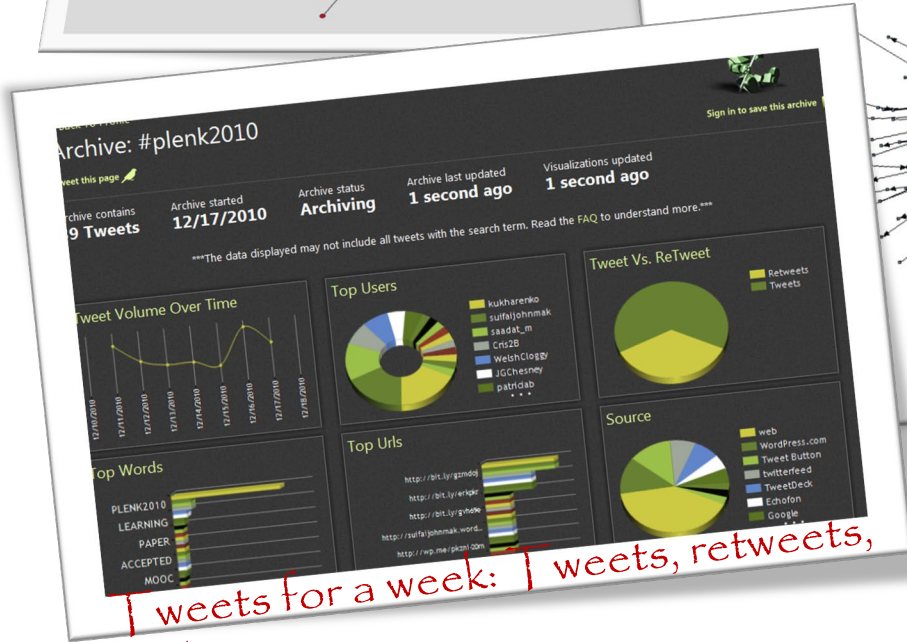
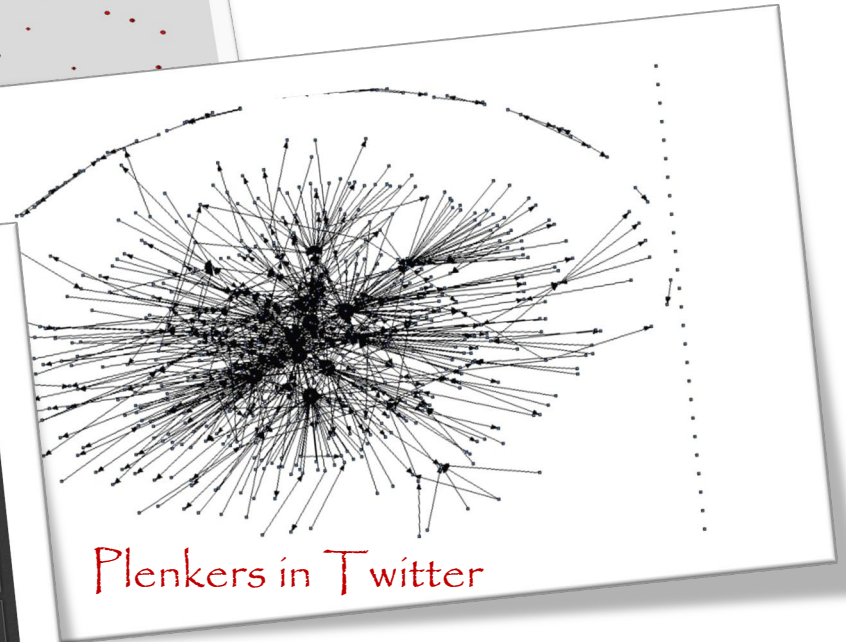
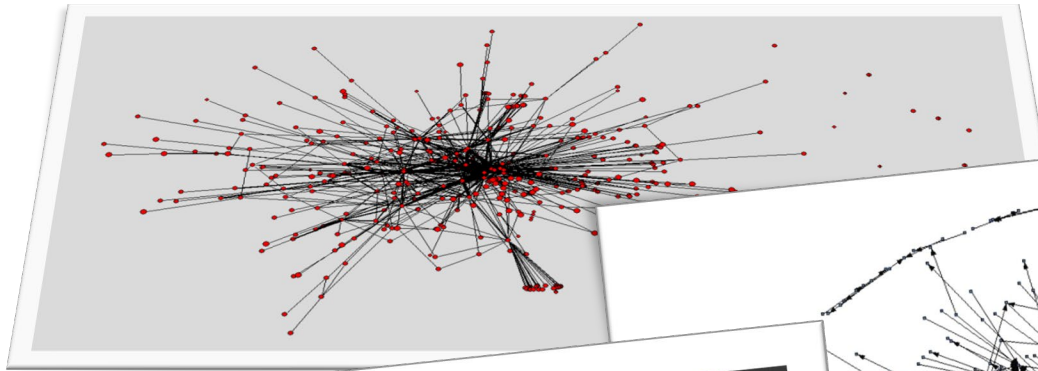


<http://www.mooc.ca>  
<http://cck11.mooc.ca>



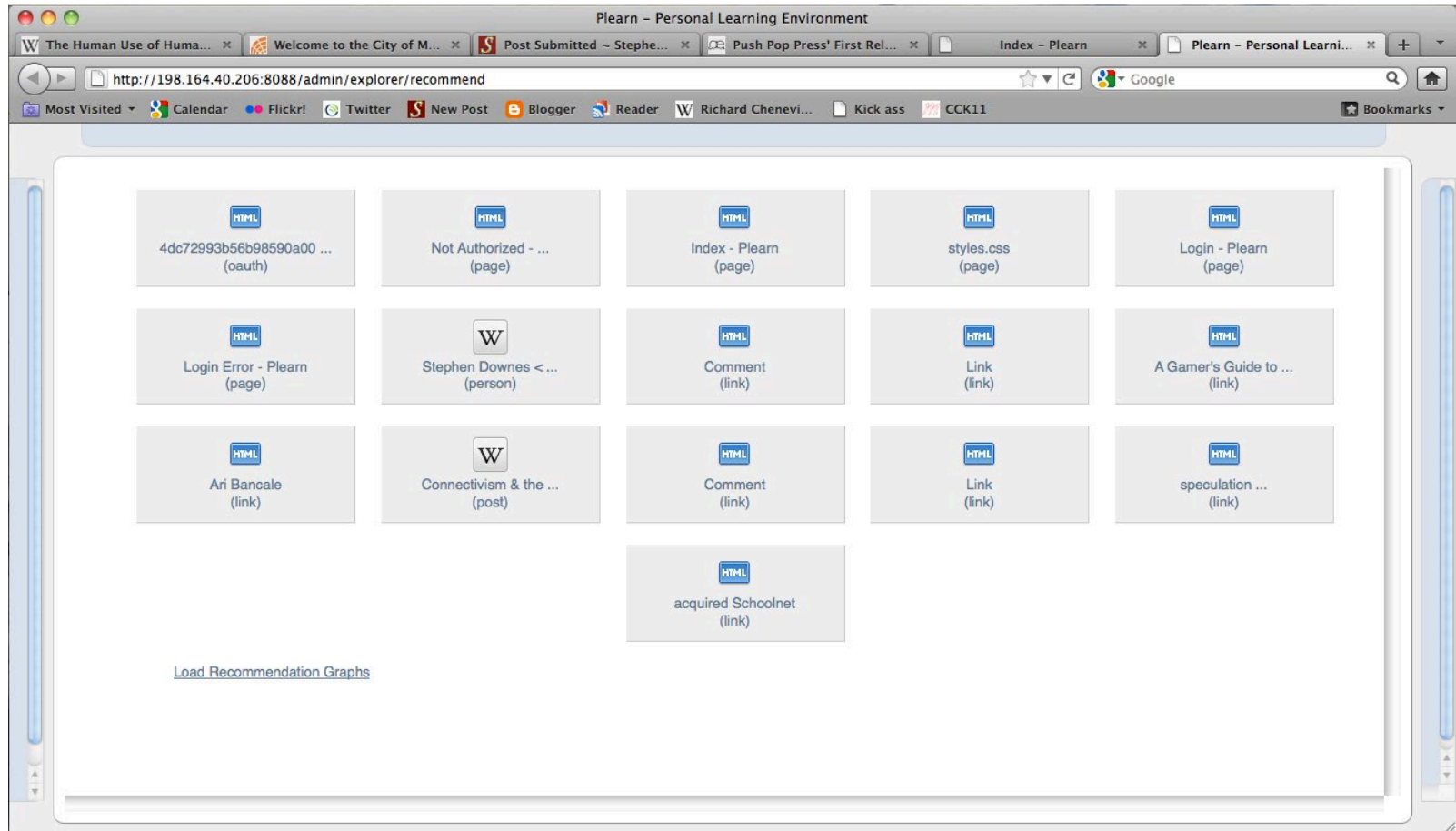


# Learner Interactions



1 tweets for a week: 1 tweets, retweets, replies

# Explorer Interface



# Panel Support

The screenshot shows a web browser window titled "Plearn - Personal Learning Environment". The address bar displays the URL <http://198.164.40.206:8088/admin/explorer/recommend#>. The browser's toolbar includes various icons for social media and utilities.

The main content area features a grid of recommendation panels, each with an "HTML" icon and a title:

- 4dc72993b56b98590a00 ... (oauth)
- Not Authorized - ... (page)
- Index - Plearn (page)
- Login - Plearn (page)
- Login Error - Plearn (page)
- Stephen Downes < ... (person)
- Link (link)
- A Gamer's Guide to ... (link)
- Ari Bancale (link)
- Comment (link)
- Link (link)
- speculation ... (link)

Below the grid is a link labeled "Load Recommendation Graphs".

On the left side, there is a "Search Plearn" panel with a text input field and a "None" button. Below it is a "Recommendation Filters" section with a dropdown menu showing "5 selected". A list of items is visible, including "Stephen's Web ~ OLDaily (feed)", "content-main (view)", "styles.css (page)", "Connectivism & the ... (post)", "4dc72993b56b98590a000021 (oauth)", "Index - Plearn (page)", "header (view)", "footer (view)", "content-navigation (view)", and "content-left (view)". A "Load More..." link is at the bottom of this list.

On the right side, there is a panel with "Unpin" and "Don't Overlap" options, and buttons for "Show Twitter" and "Show CChat". Below these is a text snippet: "Looks to me like it's supposed to keep people In touch - behaves oddly on the iPad thOugh". It is attributed to "Posted by: Kimbowa on Sun, 8 Aug 2010 20:05:02 -0400". There is also a "Search Persons" section with a text input field and a "None" button.



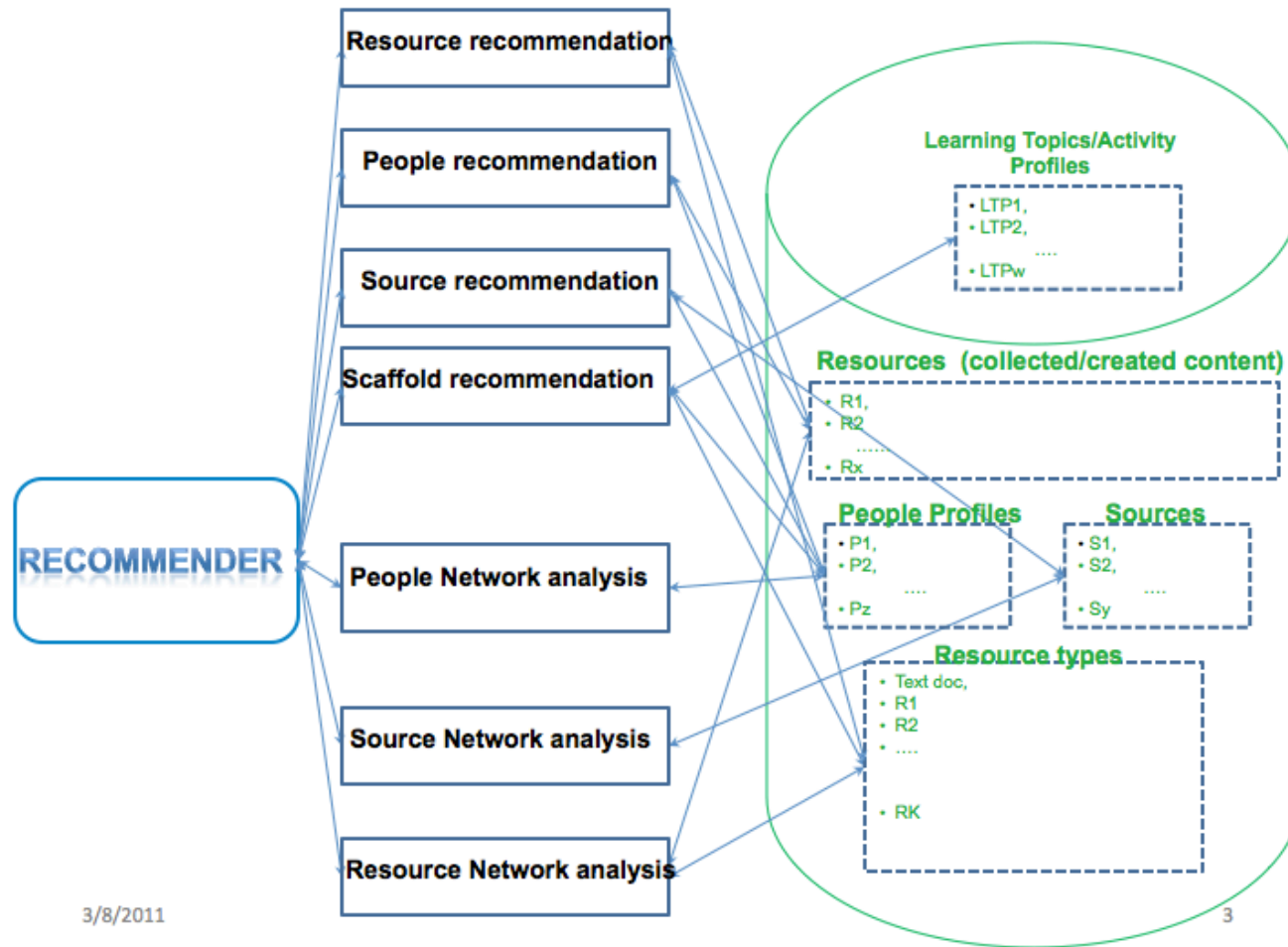
# Scaffolds

The screenshot displays the Plearn - Personal Learning Environment interface. The browser window shows the URL `http://198.164.40.206:8088/admin/explorer/relationship?type=post&id=4db97dadb56b984d2e000044#`. The main content area features a network graph with nodes and edges. The central node is labeled "15 Fantastic Ways to Use Flipboard". Other nodes include "2 Vicki A. Davis Teacher Blog", "3 Contentful Link", "4 Klout", "5 educators group", "6 Link", "7 Comment", "8 Stephen's Web ~ OLDaily", "9 4db97d9b56b984ceb000001", "10 4db97da7b56b984d2e000004", "11 Debate Wrap-Up", "12 Scientific Realism", "13 Not With A Bang: The First Wave of Science 2.0 Slowly Whimpers to an End", "14 Open Data", "15 Farewell, Kindle. Buh-bye, iPad.", "17 Connectivism and the Relationship", and "18 Stephen Downes <stephen@downes.ca>".

The left sidebar contains a search bar with the text "relationship". Below it, there are several recommendation filters, including "15 Fantastic Ways to Use Flipboard" and "5 selected" algorithms. The right sidebar also contains a search bar and a "Show CChat" button.

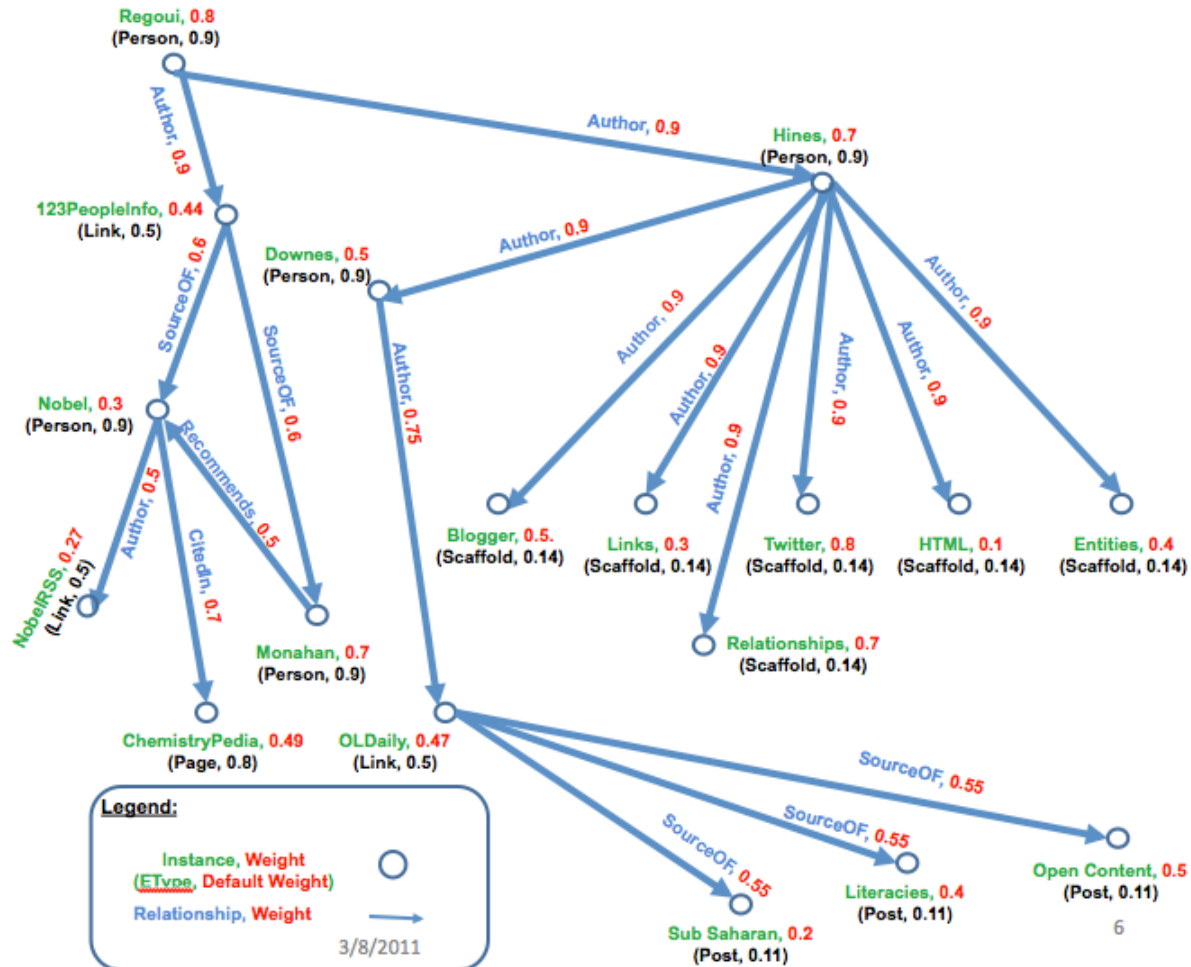


# Recommender: Data Usage



3/8/2011

# Recommender: Test Data





## More Information

We know how to design knowledge, research and learning networks across distributed communities of clients and practitioners.

[Stephen.Downes@nrc-cnrc.gc.ca](mailto:Stephen.Downes@nrc-cnrc.gc.ca)

