

#### A Timeline...

Muddog Mud

Stephen's
Guide to the
Logical
Fallacies

1994

1995

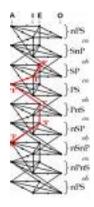
1996

Athabaska BBS

Painted Porch







#### Future of Online Learning

CAE



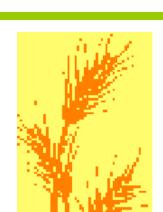
Learning **Objects** 

modules

1997

1998

1999



Online Learning Environment



OLe

The **Brandon Pages** 





Knowledge Learning Community



2000

RSS

2001

2002



MuniMall





# **OLDaily**

The Learning Marketplace



Younk!

Younk!

Younk!

(3) And it creates a SMIL file you can listen to on your computer...

(1) Edu\_RSS harvests
RSS feeds from many providers...

How Ed Radio is Created...

2003

2004

2005

### Edu-RSS



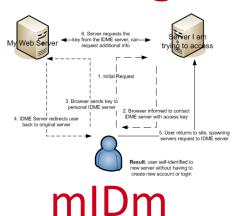


# **Ed Radio**

**Podcasting** 

## E-Learning 2.0





## Learning Networks



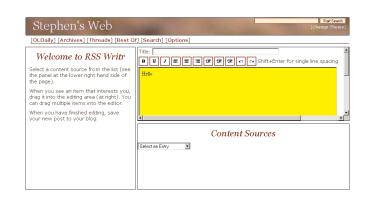
2006



2007

## Educational Blogging





**RSS Writr** 

#### Synergic3









DDRM- Distributed Digital Rights Management

MDX- Automated Metadata Extraction

LD Accelerators- Learning Design (and other) Accelerators

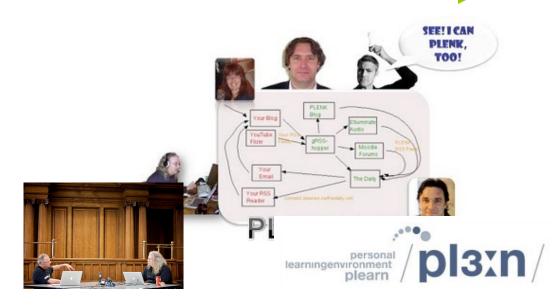
WWF- Weak Workflows

2008 2009

2010



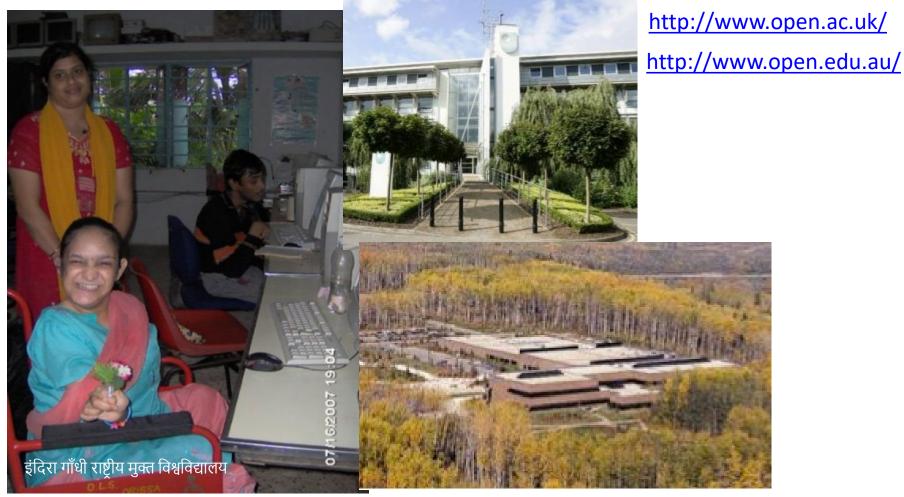
CCK08



## Three Themes

- Open Learning
- Connectivism
- Personal Learning Environment (PLE)





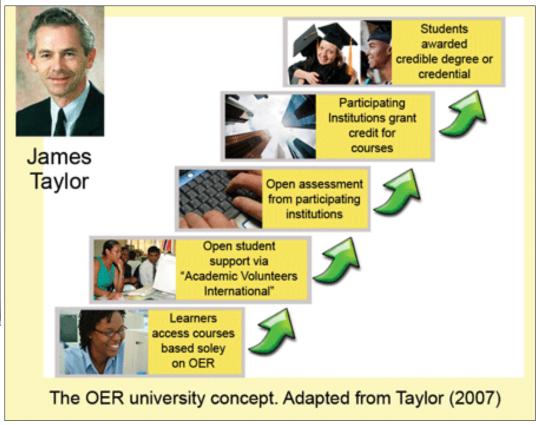
http://www.ignou.ac.in/

http://www.athabascau.ca/

# The Idea of Open Learning...



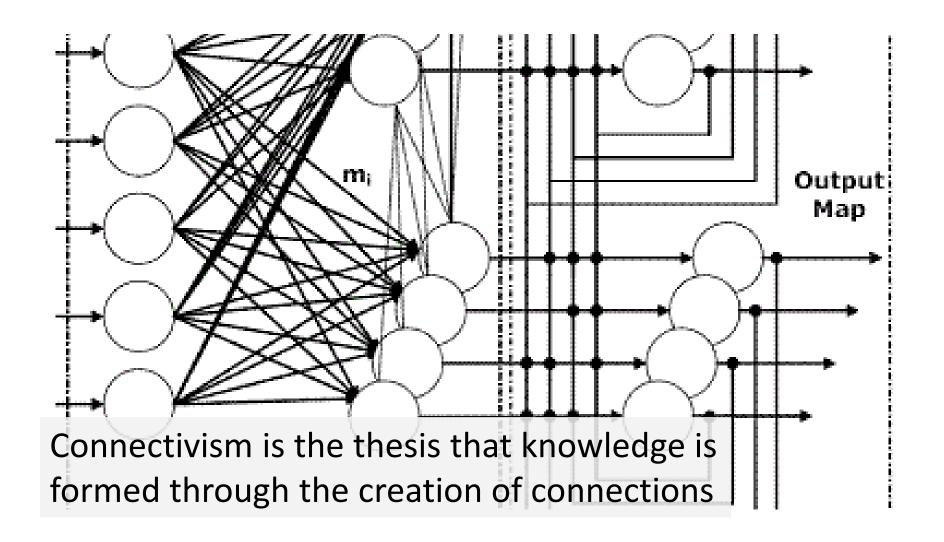
http://www.col.org/blog/Lists/Posts/Post.aspx?ID=134



http://www.col.org/blog/Lists/Posts/Post.aspx?ID=130

## Phases of Openness?

## Connectivism



### Connectivism

There is no curriculum, no theory, no body of knowledge

or, more
 accurately, the
 curriculum is the
 McGuffin





- The product is not the knowledge, it is the learner
- It is not that there is nothing to learn
- It is complex and needs to be navigated...

# Learning as Immersion



Image: http://www.thehindu.com/education/article876093.ece

## Learning as Immersion



Image: <a href="http://one.laptop.org/">http://one.laptop.org/</a>

## Constructionism

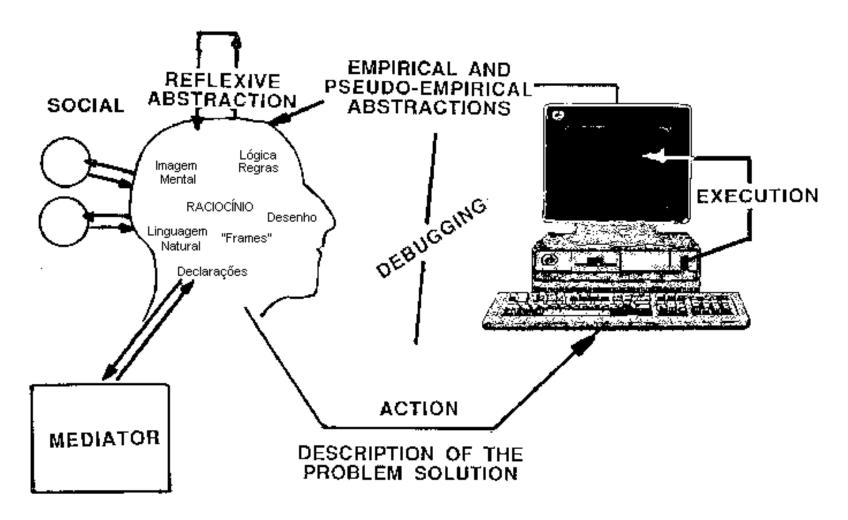


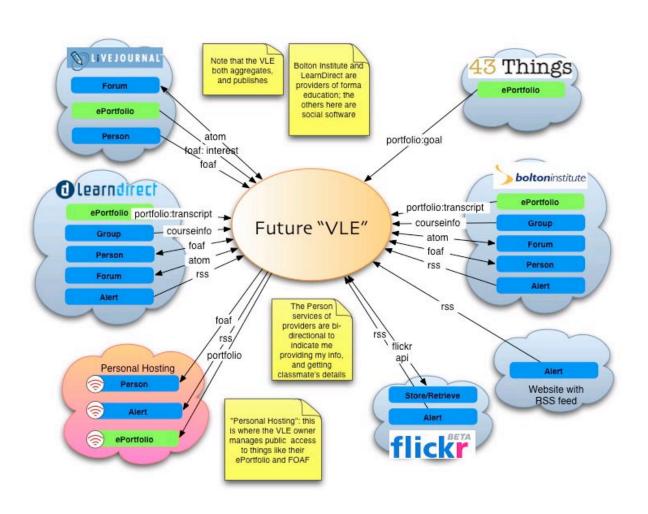
Image: http://eurologo.web.elte.hu/lectures/valente.htm

## Connectivism

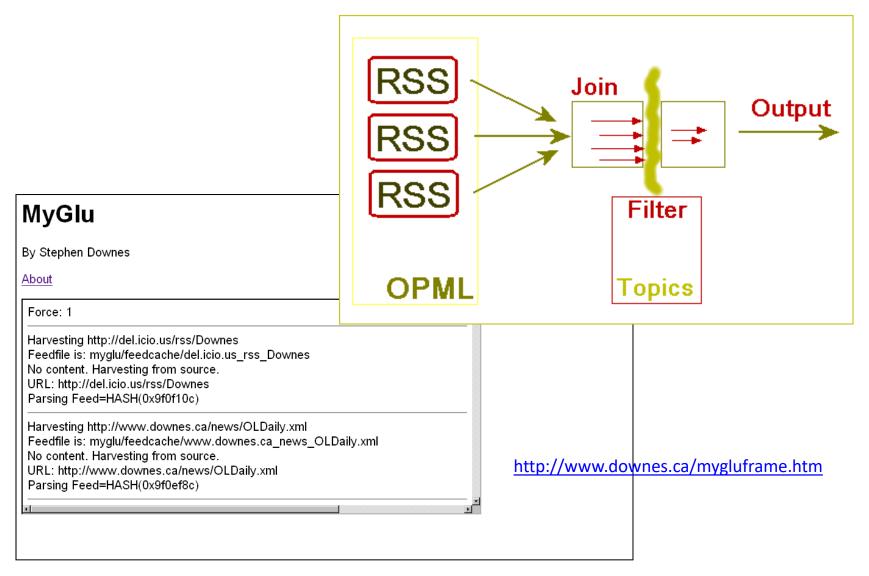


The connectivist method: Aggregate.... Remix... Repurpose.... Feed Forward

## The Idea of the PLE



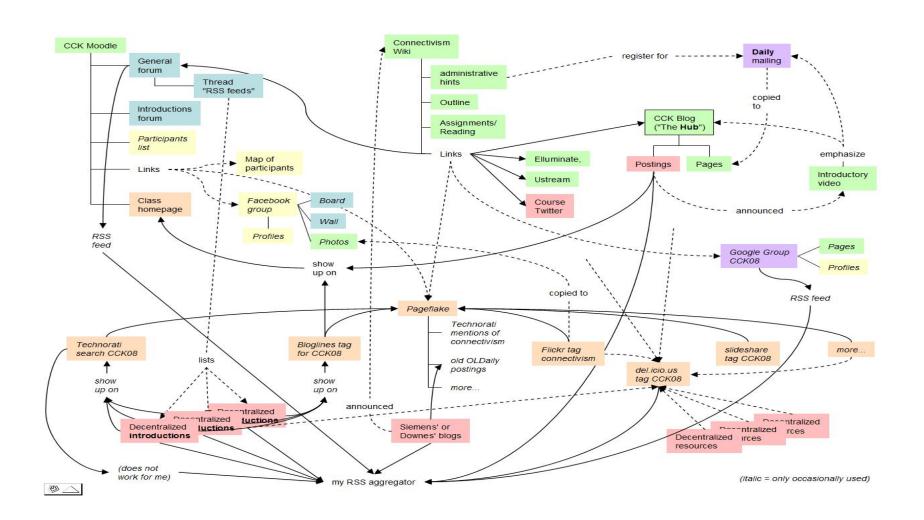
## Aggregation and Remixing



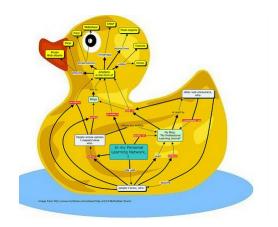
## The Connectivism Courses

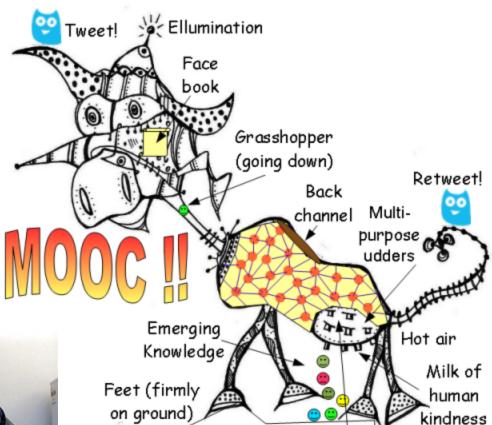


## The Connectivism Courses



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





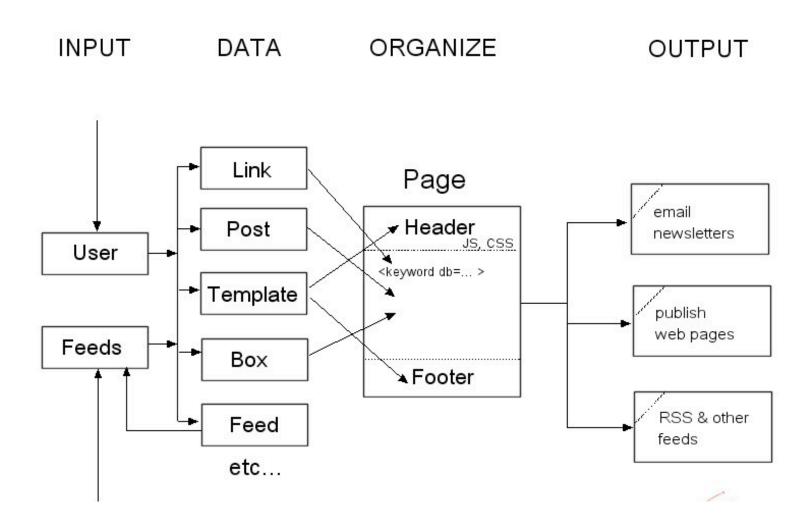


http://suifaijohnmak.wordpress.com/2011/03/ 10/cck11-how-to-explain-connectivism-moocand-plepln/

USB sockets

## The Connectivism Courses

# gRSShopper



## **Feeds**

#### Connectivism and Connective Knowledge 2011

home about contact

#### [Admin]

[New] [List] Author

[New] [List] Box

[New] [List] Event

[New] [List] Feed

[New] [List] File

[New] [List] Journal

[New] [List] Link

[New] [List] Mapping

[New] [List] Optlist

[New] [List] Page

[New] [List] Person

[New] [List] Post

[New] [List] Presentation

[New] [List] Project

[New] [List] Publication

[New] [List] Publisher

[New] [List] Task

[New] [List] Template

[New] [List] Thread

[New] [List] Topic

[New] [List] View

YOU ARE LOGGED IN AS **ADMIN** [OPTIONS] [LOGOUT]

#### List feeds

Listing 0 to 1000 of 179 feeds

- [Harvest] [Retire] [Edit] [Delete] Links: #CCK11 OR CCK11 OR Connectivism Twitter Search
   (edubloggers)
- [Approve] [Edit] [Delete] Links: @bigenho Twitter Feed (category)
- [Harvest] [Retire] [Edit] [Delete] Links: A Chronicle of a Learning Journey (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: A Learning Quest (edubloggers)
- [Harvest] [Retire] [Edit] [Delete] Links: A Point of Connect (edubloggers)
- [Approve] [Edit] [Delete] Links: A Small World (category)
- [Harvest] [Retire] [Edit] [Delete] Links: Aboluay's (Anas) Musings (edubloggers)
- [Harvest] [Retire] [Edit] [Delete] Links: Alliant News Network » Page not found (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: alQpr (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: amaniram (edubloggers)
- [Harvest] [Retire] [Edit] [Delete] Links: Aprendizaje en Red (edubloggers)
- [Harvest] [Retire] [Edit] [Delete] Links: Autoria coletiva (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: Özlem Ozan (edubloggers)
- [<u>Harvest</u>][<u>Retire</u>] [<u>Edit</u>] [<u>Delete</u>] Links: <u>barbaramworks</u> (edubloggers)
- [<u>Harvest</u>][<u>Retire</u>] [<u>Edit</u>] [<u>Delete</u>] Links: <u>base camp</u> (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: Before it is too late (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: Best content in CCK2011 | Diigo Groups (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: binzeh (edubloggers)
- [Harvest][Retire] [Edit] [Delete] Links: BLOGGING LISING WER 2.0 AND SOCIAL MEDIA IN XXI CENTURY

## Feed Management

#### Connectivism and Connective Knowledge 2011

home about contact

[Admin] [New] [List] Author [New] [List] Box [New] [List] Event [New] [List] Feed [New] [List] File [New] [List] Journal [New] [List] Link [New] [List] Mapping [New] [List] Optlist [New] [List] Page [New] [List] Person [New] [List] Post [New] [List] Presentation [New] [List] Project [New] [List] Publication [New] [List] Publisher [New] [List] Task [New] [List] Template [New] [List] Thread [New] [List] Topic [New] [List] View

	You are logged in as <b>Downes</b> [Options] [Logout			
Edit Feed				
	[VIEW FEED] [LIST ALL FEEDS] [CREATE NEW FEED			
Title	Gillian's Learning and Qualifications Blog			
Creatorname	Gillian Palmer			
Link	http://learningandqualifications.wordpress.com/feed/			
Html	http://learningandqualifications.wordpress.com			
Туре	RSS 2.0 \$			
Timezone	America/New York			
Country	us			
Category	Education Blogs \$			
Status	Approved \$			
Description				
Lifelong Learning and Qualifications				

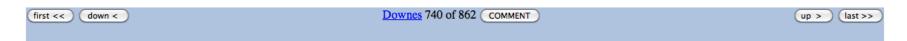
### Harvester

home about contact

#### Connectivism and Connective Knowledge 2011

YOU ARE LOGGED IN AS **DOWNES** [OPTIONS] [LOGOUT] [Admin] Harvester Newsletters Database General Users [New] [List] Author [New] [List] Box Harvester [New] [List] Event On this page you can manage and operate your harvester. To add, manage and delete content sources, [New] [List] Feed create, edit and delete feeds (see the menu at left) or use the OPML options below. [New] [List] File [New] [List] Journal [New] [List] Link Operate Harvester [New] [List] Mapping Harvest Next In Queue [New] [List] Optlist ○ Harvest Feed: Please select a feed from the list.... [New] [List] Page [New] [List] Person Harvest URL: Enter full URL here [New] [List] Post Harvest File: File name, file needs to be in same directory [New] [List] Presentation Harvest All [New] [List] Project [New] [List] Publication Harvest Feed [New] [List] Publisher [New] [List] Task [New] [List] Template View Harvest Results [New] [List] Thread [New] [List] Topic [New] [List] View Viewer

## Viewer



#### Are you MOONing or MOOCing?

Source: Janus, by Susan O'Grady. noreply@blogger.com (Pandora) A cynic is simply a disillusioned idealist

Date: March 20, 2011

#### Description

While belatedly establishing some links in my MOOC <u>Live Binder</u>, I returned once again to the eminently practical, critically thinking, <u>Sean Fitzgerald's Blog</u> where he ruminated on the Semantic challenges of courses, PLEs, PLNs. learning etc.

".....From the beginning of this course I stated (I'm baaaaack! And I'm reviving this blog for the PLENK2010 MOOC) that my intention was to explore how we can use the MOOC model and principles to engender the "large-scale and rapid social transformations I believe we need in this time of change, challenge and crisis. (I'm not so much interested in the content of #PLENK2010 – PLEs & Damp; PLNs – as I am in the process.)..."

#### and

"..... If the goal is to extend the MOOC model beyond a strict learning or education focus then shouldn't we come up with another name for it? Wouldn't calling it a "course" hold it back from its full potential? Suggestion? What about Massive Open Online Network? (MOON) or Massive Online Network (MON), since it's only open in relation to historically closed courses anyway? Or what about Massive Network (MN), since the "online" is a given and therefore superfluous? What about just Network, as they can be small or large, depending on need? Does it really even need a name?......"



#### which directed me to:

Cris Crissman's comment on Sean's blog directed me to Ulises Mejias blog. He suggests:

The lack of a critical approach to understanding digital networks is partly due to the fact that most analyses have theorized the digital network only from within (what I call a 'nodocentric' approach), while I am also interested in looking at the social, political and economic impact of the digital network as it looks from the outside (except that in networks, the outside is everywhere)

### Commenter

#### Connectivism and Connective Knowledge 2011

home about contact

#### Contents

#### This Course

Home Page

**About This Course** 

Course Outline

How It Works

Course Facilitators

Your Privacy
Contact Us

#### Your Account

Register

Login

Manage Account

About OpenID

#### **Participating**

Join a Backchannel Chat Read Discussion Threads Read Daily Newsletter Newsletter Archives Browse Blog Posts Add a New Blog Feed View List of Blogs

	You are logged in as <b>Downes</b>	s [OPTIONS] [	LOGOUT]		
Edit Post	:				
Full text of the link you are commenting on is located below the form					
Title	#CCK11: Earning a Place in the Network				
Link	http://idst-2215.blogspot.com/2011/03/cck11-earning-place-in-ne				
Journal	1154 - Communications & Society				
Author	keith.hamon				
Description					
Enter yo	our comment here				

## Newsletter

about contact

#### Connectivism and Connective Knowledge 2011

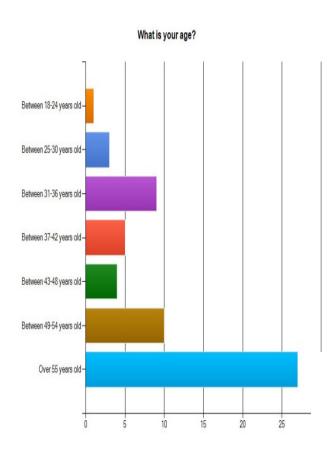
home YOU ARE LOGGED IN AS **DOWNES [OPTIONS] [LOGOUT]** [Admin] Edit Page [New] [List] Author [New] [List] Box [VIEW PAGE] [LIST ALL PAGES] [CREATE NEW PAGE] [List Pages] [New] [List] Event [View Generated Version of Page] [New] [List] Feed [Publish Page] [New] [List] File [View Published Page] [New] [List] Journal [New] [List] Link CCK11 Daily Newsletter Title [New] [List] Mapping [New] [List] Optlist Location newsletter.htm [New] [List] Page [New] [List] Person email header email footer Header Footer [New] [List] Post [New] [List] Presentation Feed http://cck11.mooc.ca/newsletter.xml [New] [List] Project [New] [List] Publication yes Autopub yes Archive [New] [List] Publisher [New] [List] Task Sub yes [New] [List] Template Monday, Tuesday, Wednesday, Thursday, Friday Days [New] [List] Thread [New] [List] Topic Type email \$ [New] [List] View O Publish to Twitter O Publish RSS Update Record

<div style="margin:15px:">

Code

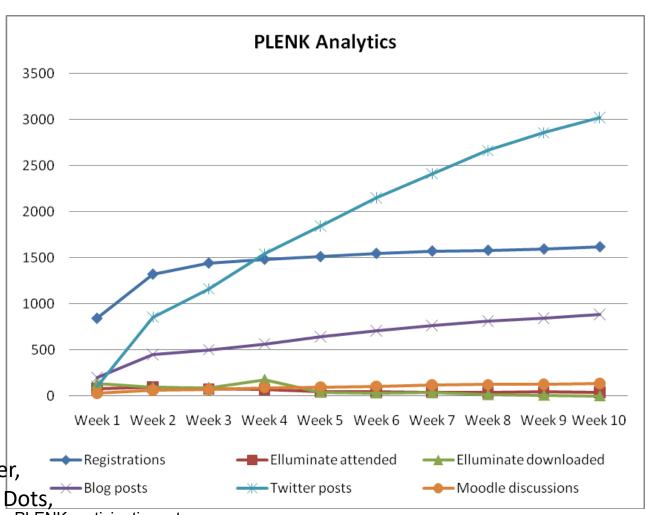
## Page Design Code

 Publish to Twitter
 Publish RSS
 Update Record Code ab=post;number=30;type=iink;source=aamin;tormat=iink\_email;expires=40; all;sort=crdate DESC> <h2>Participants' Blog Posts</h2> This is a list of the blog posts mentioning the CCK11 keyword or tag harvested from the list of blogs submitted by participants. <br/> <br/> />[<a href="http://cck11.mooc.ca/cgi-bin/page.cgi?action=viewer">Browse all Blog Posts</a>| <keyword db=link;title,description,category,content~cck11;expires=40;truncate=500;all; type~html;format=email;sort=crdate DESC>



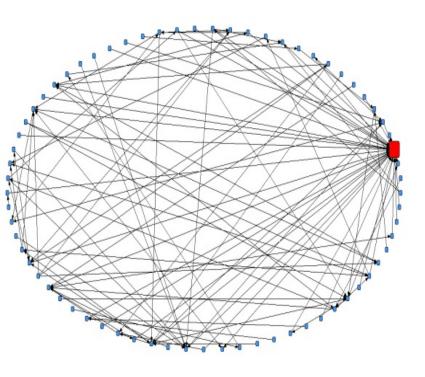
Kop and Fournier, Connecting the Dots, CIDER, 2011





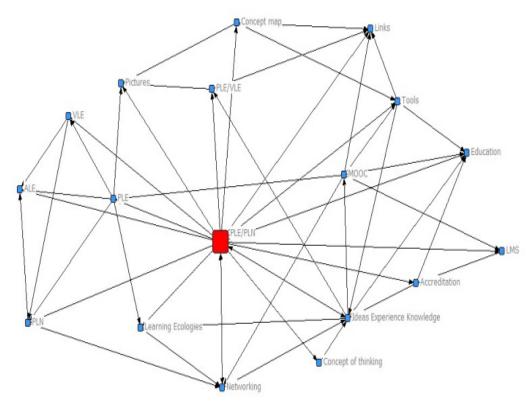
Kop and Fournier,
Connecting the Dots,
CIDER, 2011

PLENK participation rates



The complex network a facilitator's post generated

Kop and Fournier, Connecting the Dots, CIDER, 2011

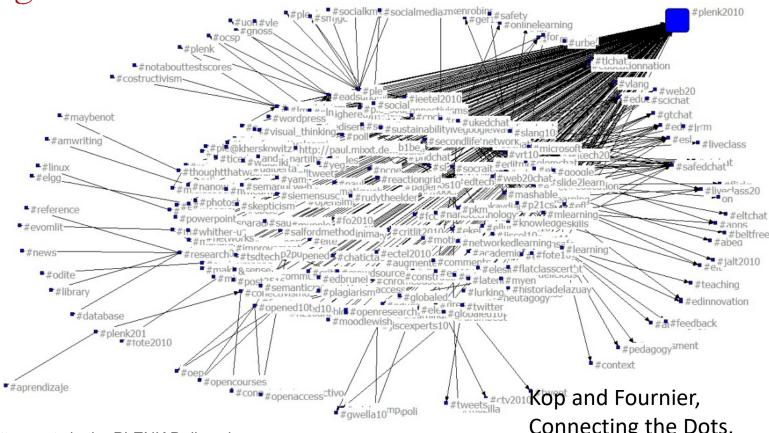


Relationships between topics in a discussion in week 1



Kop and Fournier, Connecting the Dots, CIDER, 2011

Twitter PLENK connections to hash-tag networks



#tags related to Twitter posts in the PLENK Daily - six weeks duration

Connecting the Dots, CIDER, 2011

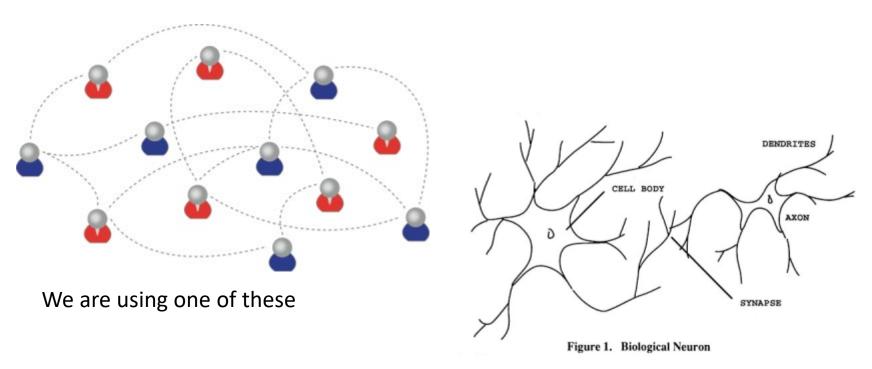
## Assessment and Analytics

It makes no sense to rely on quizzes and tests



- Big Data, Web of Data, Semantic Web, RSS, Geo, FOAF...
- Mash-ups, APIs, the Cloud, Social Network

## **Learning Outcomes**



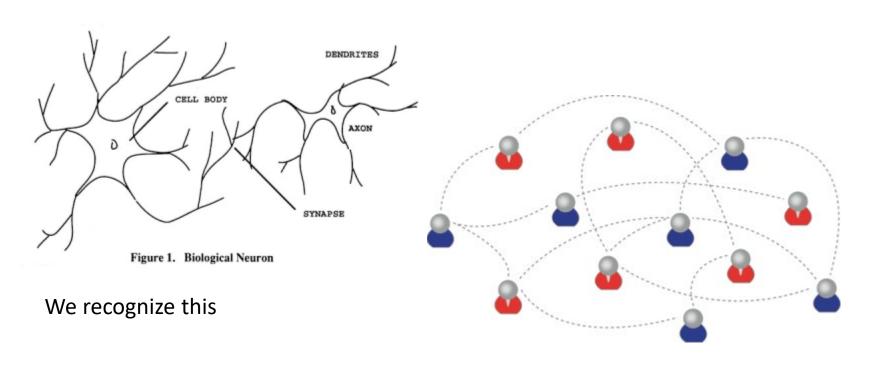
To create one of these

Personal knowledge consists of *neural* connections, not facts and data

### **Learning Outcomes**

- Learning a discipline is a total state and not a collection of specific states
- It is obtained through immersion in an environment rather than acquisition of particular entities
- It is expressed functionally (can you perform 'as a geographer'?) rather than cognitively (can you state 'geography facts' or do 'geography tasks'?)

## **Learning Outcomes**



By perfomance in this

There are not specific bits of knowledge or competencies, but rather, personal capacities (more on this later)

#### The PLE

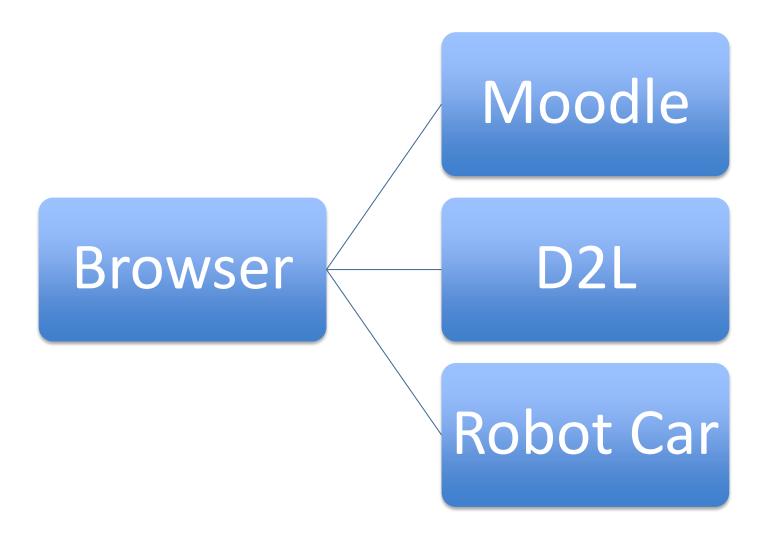
Martin: The PLE is just the device I am using...



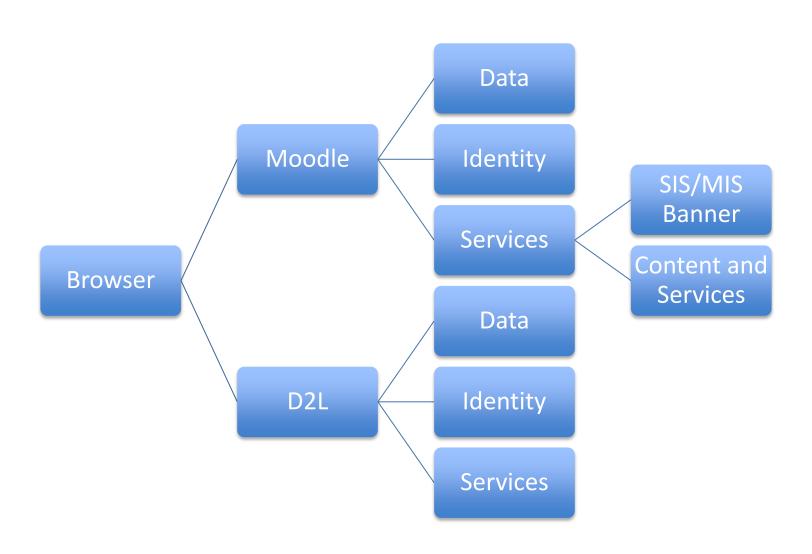
## The Challenge

- How can an educational application support, integrate within, and measure the total state?
- How can the learner maintain his/her identity and integrity from environment to environment?

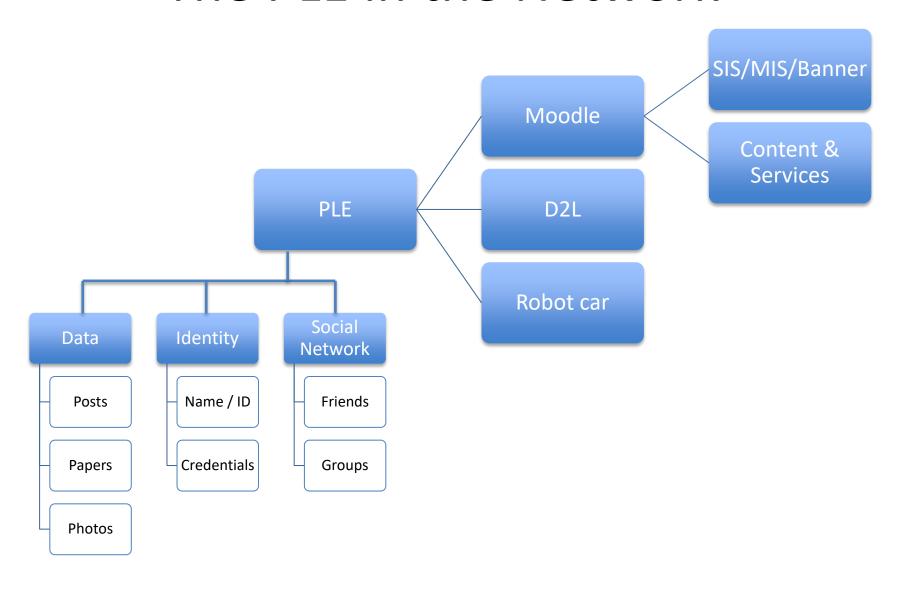
#### The Network in the LMS



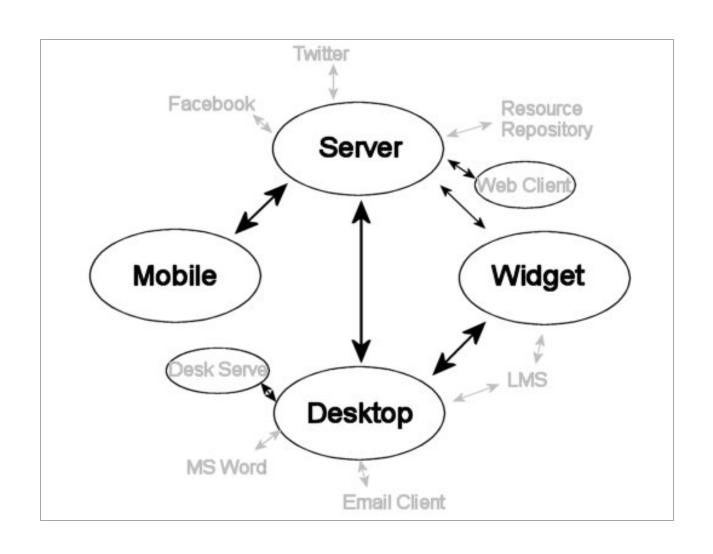
#### The Network in the LMS



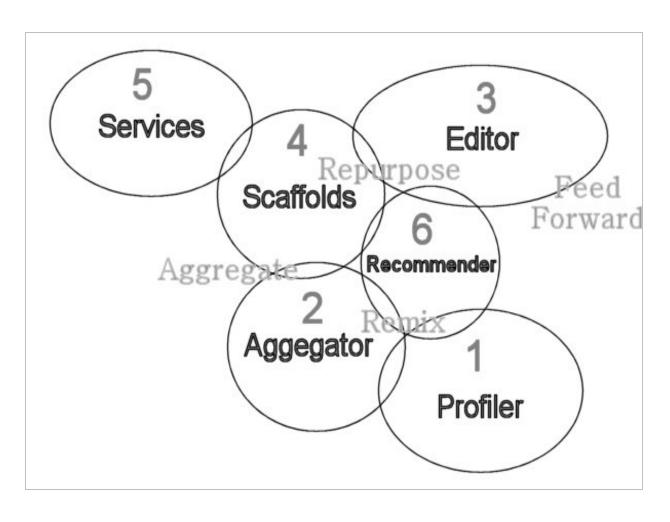
#### The PLE in the Network



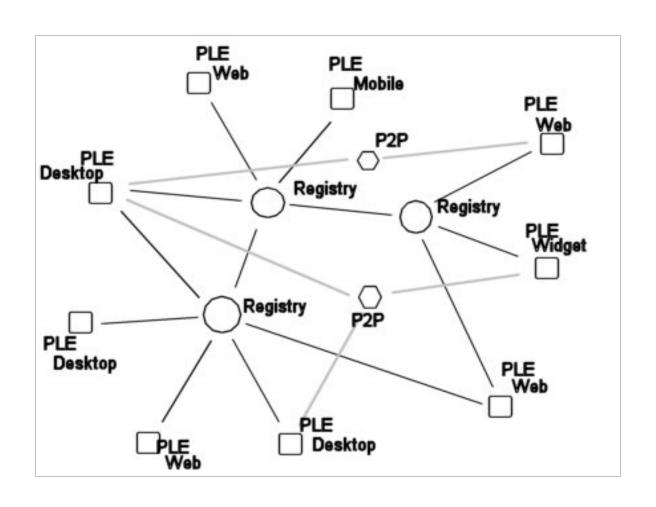
### Plearn Components



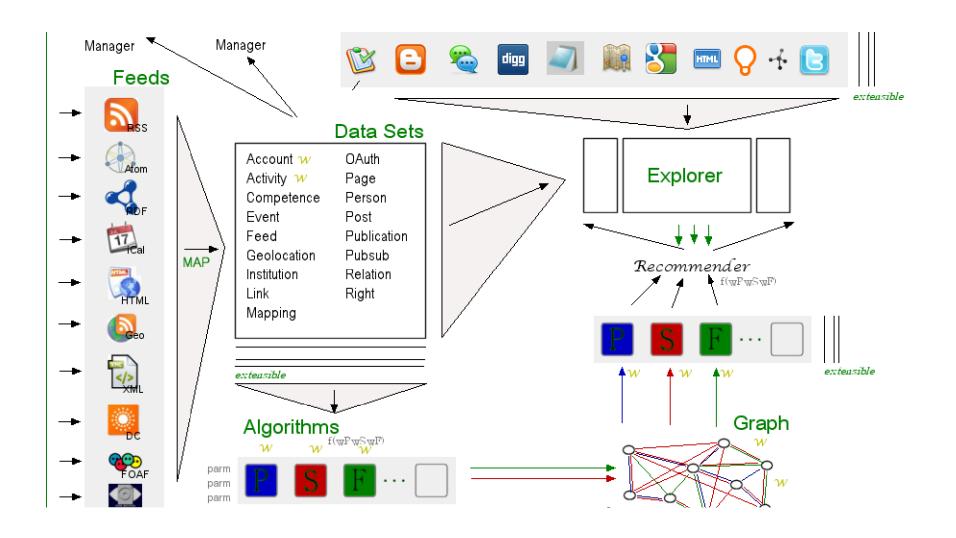
## Plearn Functionality



#### Plearn Network



## Plearn Rollup



#### Plearn Panes



#### **Success Factors**

 What sort of decentralized network will best support learning-as-growth?

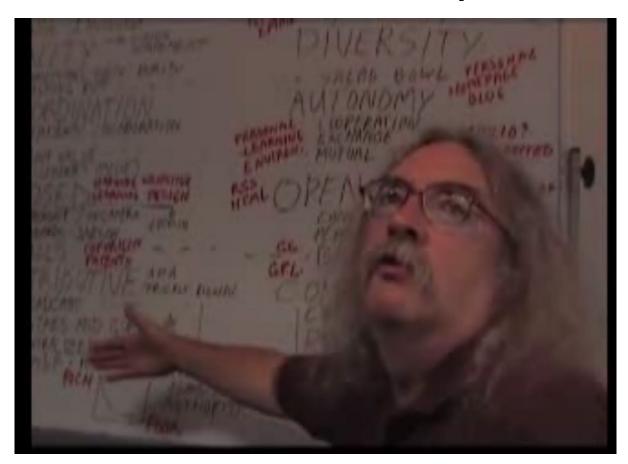


# **Network Democracy**



Image: http://www.iiav.nl/ezines/web/WomenLearningPartnership/2007/No17/learningpartnership/programfocus-print=1.htm

# **Network Democracy**



## Diversity

 You need a mixture of materials – you cannot grow organically from carbon alone, or water

alone



### **Openness**

- Closed systems become stagnant
- Raw materials are depleted
- The system becomes clogged with the 'creative product' of its members



### Autonomy

- The simple cloning of entities does not allow for progress or development
- Each individual entity must manage its own grown in its own way



## Interactivity

- A system cannot grow unless its parts interact
  - flowers need bees, cows need grain, beavers need trees
- Growth is created not by accumulation but by flow, by constant activation and interaction



http://www.youtube.com/watch?v=X0iI0pgTUx0

- http://www.downes.ca
- Free Learning

### Stephen Downes