



Individuality & Personalisation:  
*How Will Learning Be Individual?*

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JeLSIM

# Outline



- Starting point
- Definitions
- Current Landscape
- Future Options
- Issues
  
- Questions & Discussion



# Startpoint

- My Background

- HE mainly, VLEs, Interactive Content

- My Position

- Sceptic-Proponent

- Recent work

- CETIS PLE, JISC CD-LOR, ex-el.org

# Who is thinking about Personalisation?

- School

- DfES, NESTA FutureLab

- FE and HE

- JISC, HEA

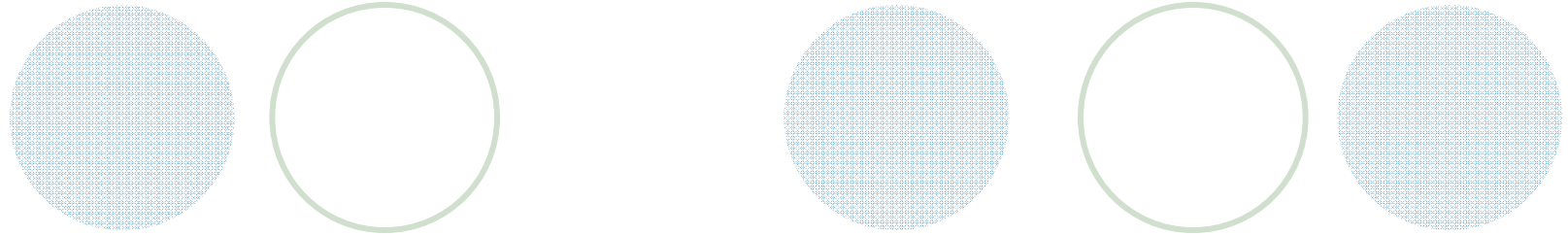
- The Workplace

- Jay Cross, John Seely-Brown, ...



# Question 1

- Are personalisation and individualisation important topics in education ***now***?
- Are the right people thinking about these issues?



Ask Six People What Personalised  
Learning Means and You Will Get Six  
Different Answers.

Nesta FutureLab, 2006



Personalised Learning is ...

... the drive to tailor education to individual need, interest and aptitude, so as to fulfil every young person's potential.

DfES, 2004

# Personalised Learning is ...



## Learner-centred Learning

- Tailored to the needs of the learner
  - Educational and Personal
- Tailored to the wishes of the learner
  - Flexible and customisable

# Changing Times for Education

- Costs of Education
  - Learners as Customers
  - Increase in Part-time Learners
- Increase in Informal Learning
  - Workplace Learning
  - Lifelong and Life-wide Learning
- Recognition of a need for new measures of achievement

# Digital Skills And Digital Ghettos

- Changing attitudes to learning online and now accompanied by skills, desire and opportunity to do so,
- Mobiles and PDAs provide richer technology outside institutions than within – for the first time.

# Richer Tools: Web 2.0



# Web 2.0 Concepts

- Focus on data and information
  - Data is dynamic
- Small pieces loosely joined
  - Components can be remixed
- Value from the individual
  - Value to the individual
- Emphasis on the community
  - Value from sharing
- Emergent Behaviour



# e-Learning is Maturing

- Learning Design and Design for Learning
- Rise and Fall of Learning Objects
- Formative Assessment / Self-Regulated Learners
- Portfolio and Competence-based Assessment
  
- Problems with existing systems
  - Virtual Learning Environments
  - Supporting Rich Interaction

# Where are we now?



- Social Software: Blogs and Wikis
- Accommodating Learning Styles
- Institutional e-Learning Services
- Flexible Learning



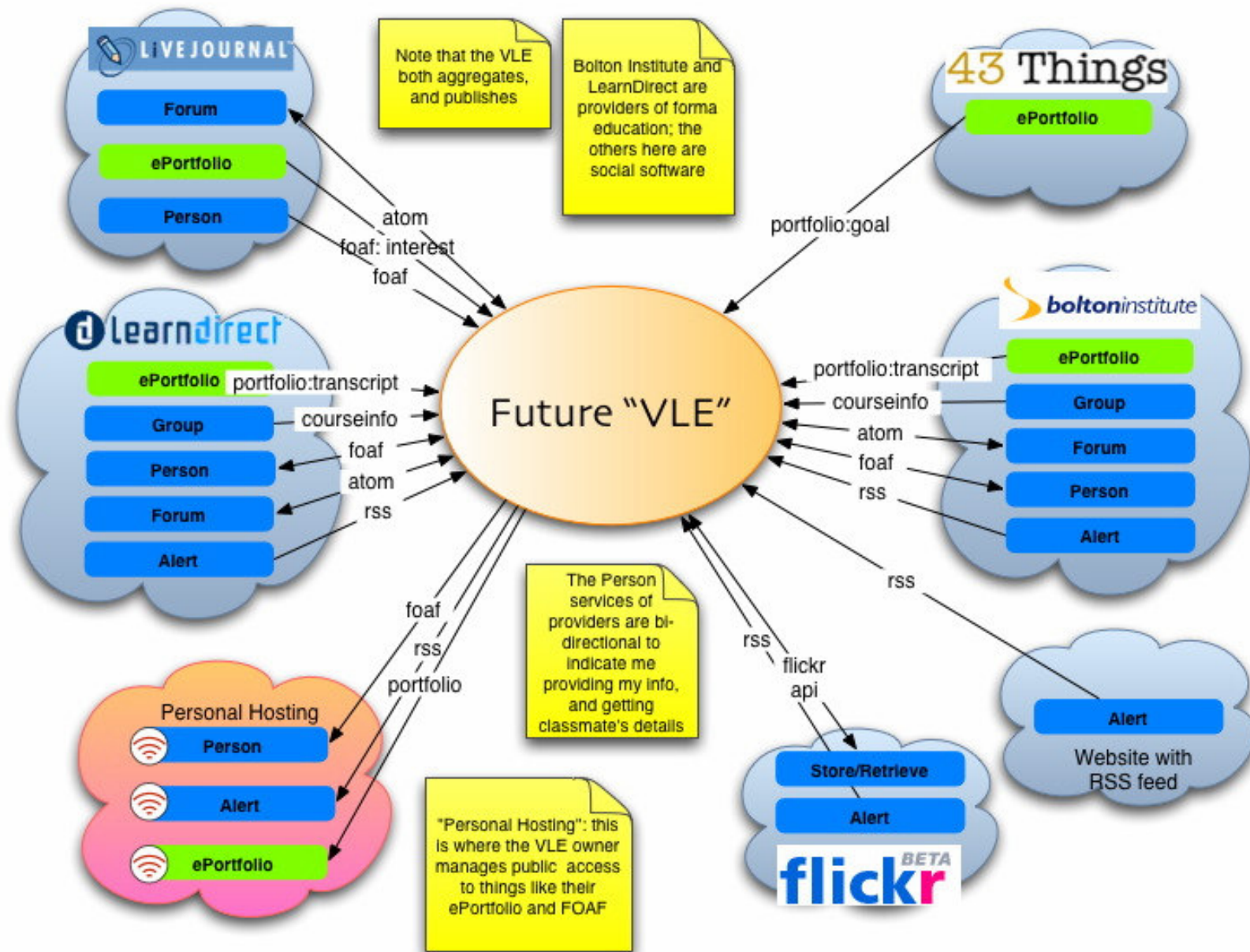
## Question 2

- Do ***current*** systems already support Personalisation and Individualisation?
- Is the need for integration over-stated?
- Do you have a PLE? If so, what is it?

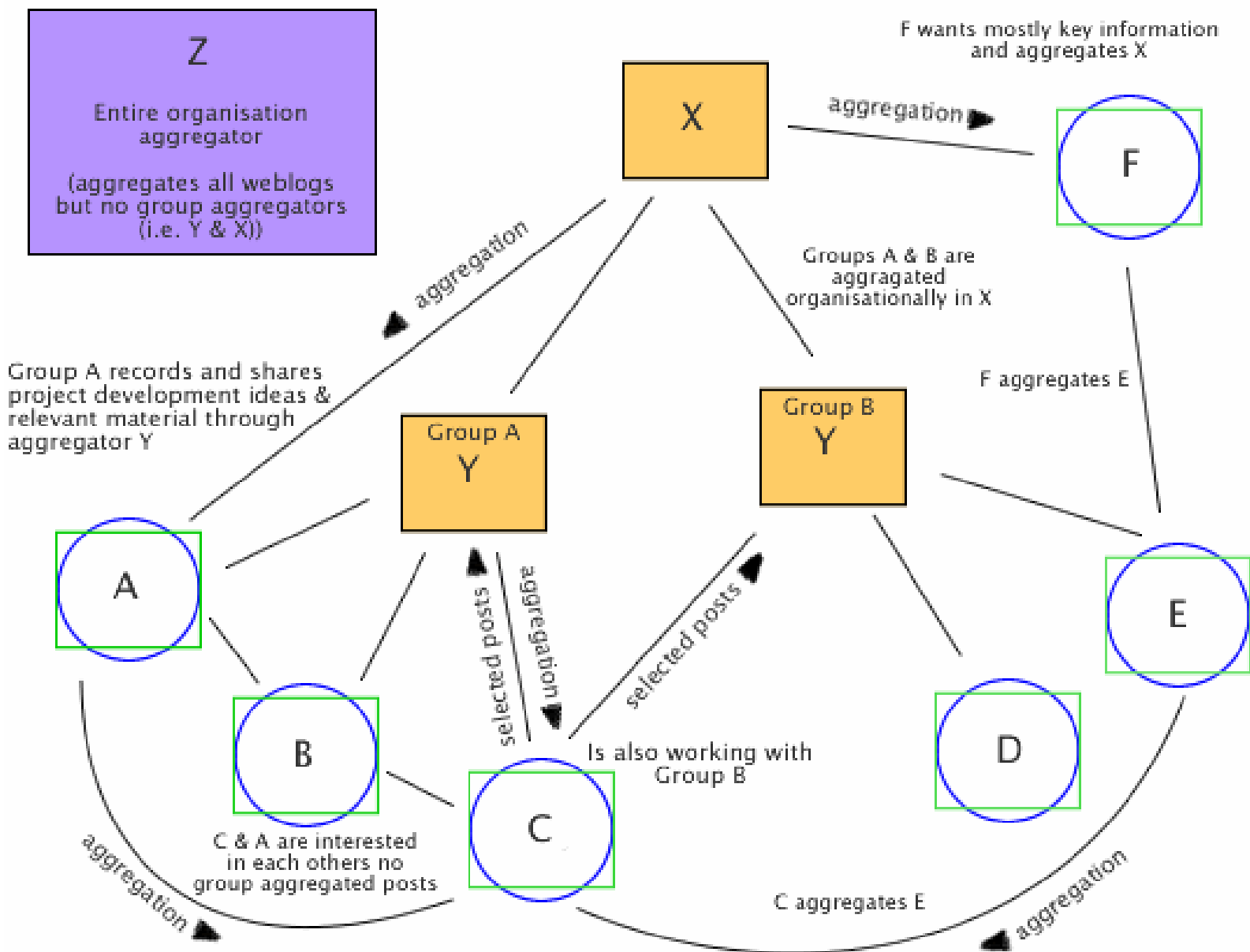
# Where are we going?



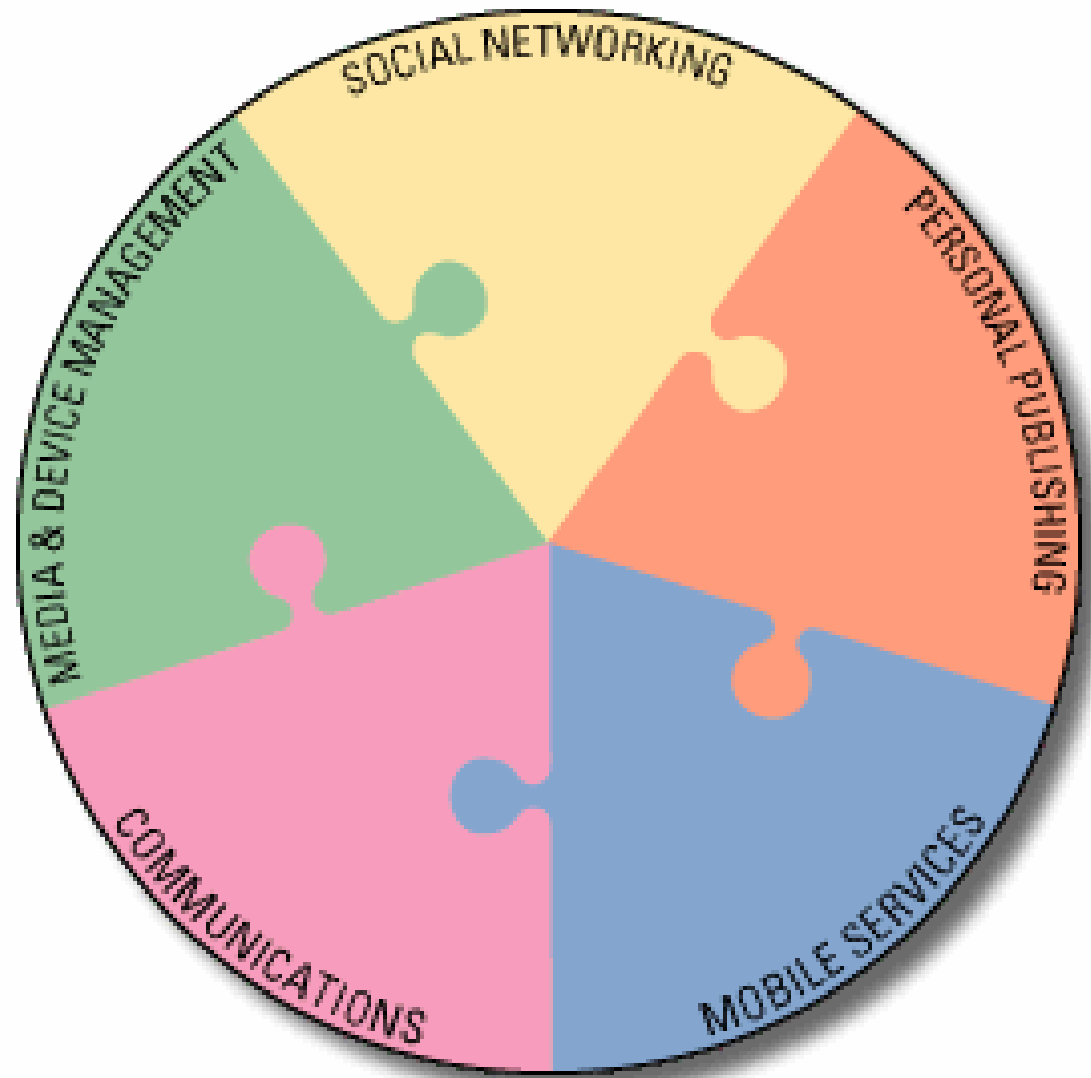
- The Personal Learning Environment
- Personal-personalised
  - Active-passive
  - Not restricted to a single institution



Future VLE: Scott Wilson



**Weblog and Aggregation Organisational Online Communication Model - James Farmer**



**Digital Lifestyle Aggregator - Marc Canter**

# Personal Learning Landscape

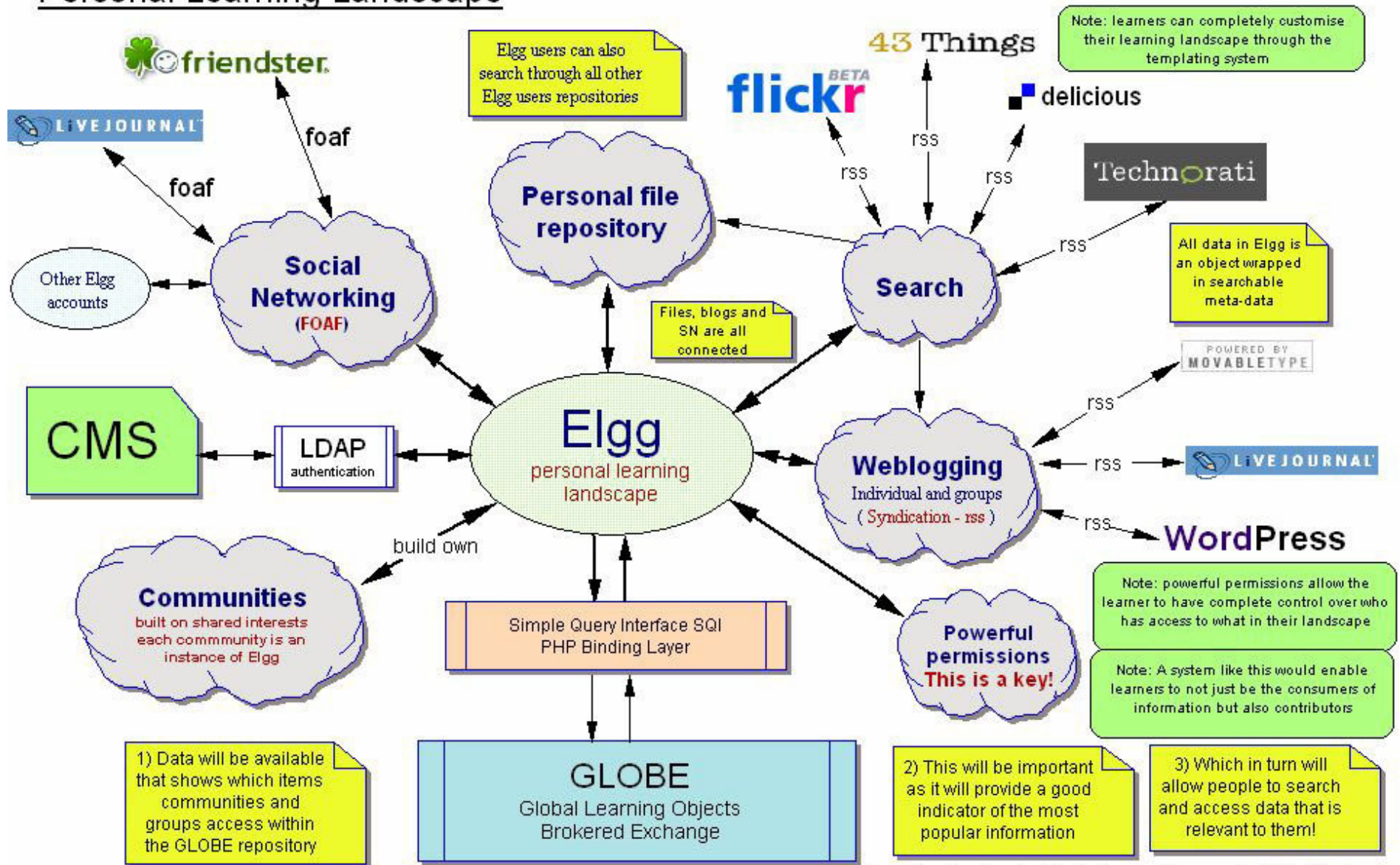


image developed by the Elgg development team - contact [d.tosh@ed.ac.uk](mailto:d.tosh@ed.ac.uk)

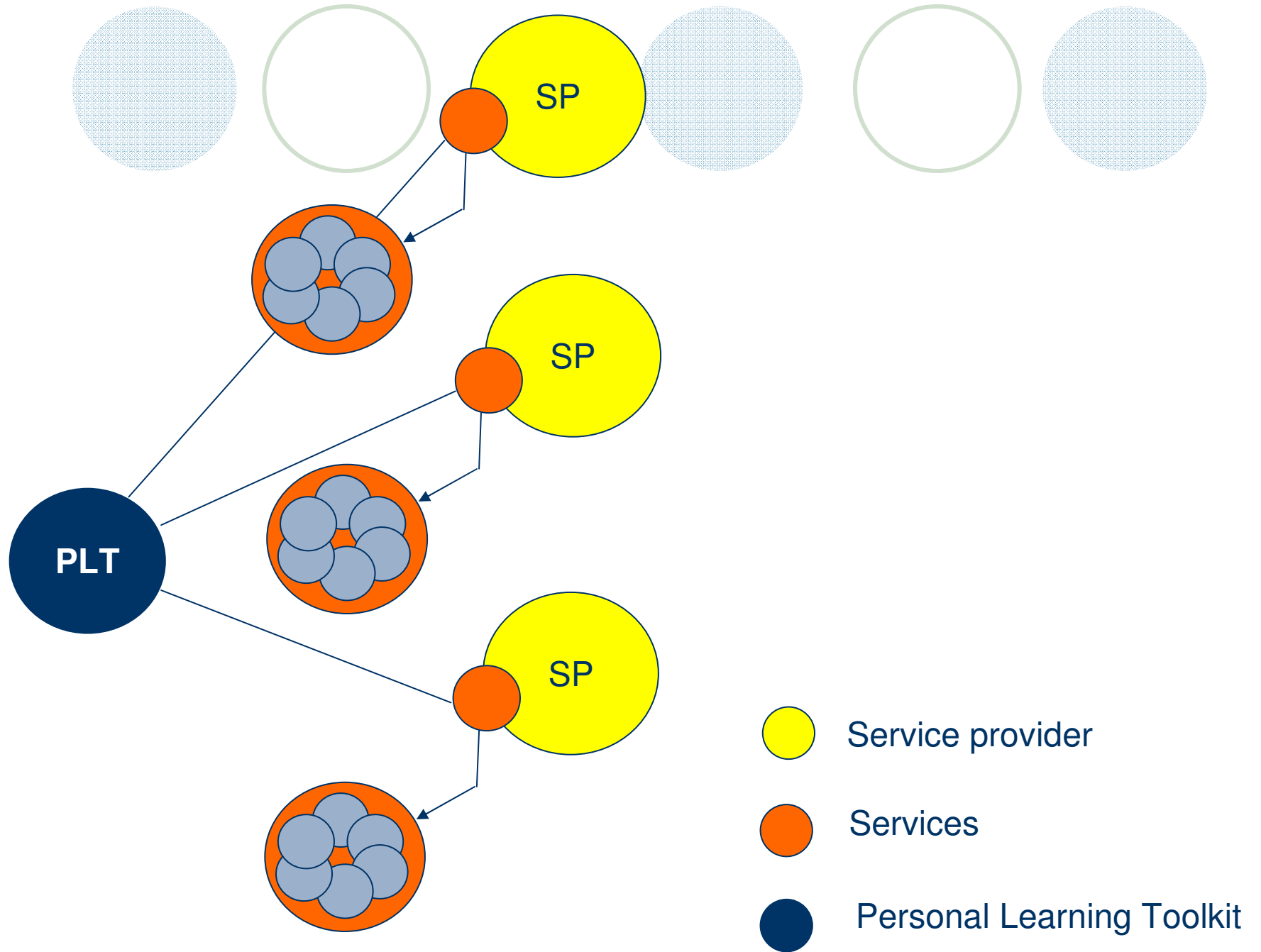
## Personal Learning Landscape: Dave Tosh



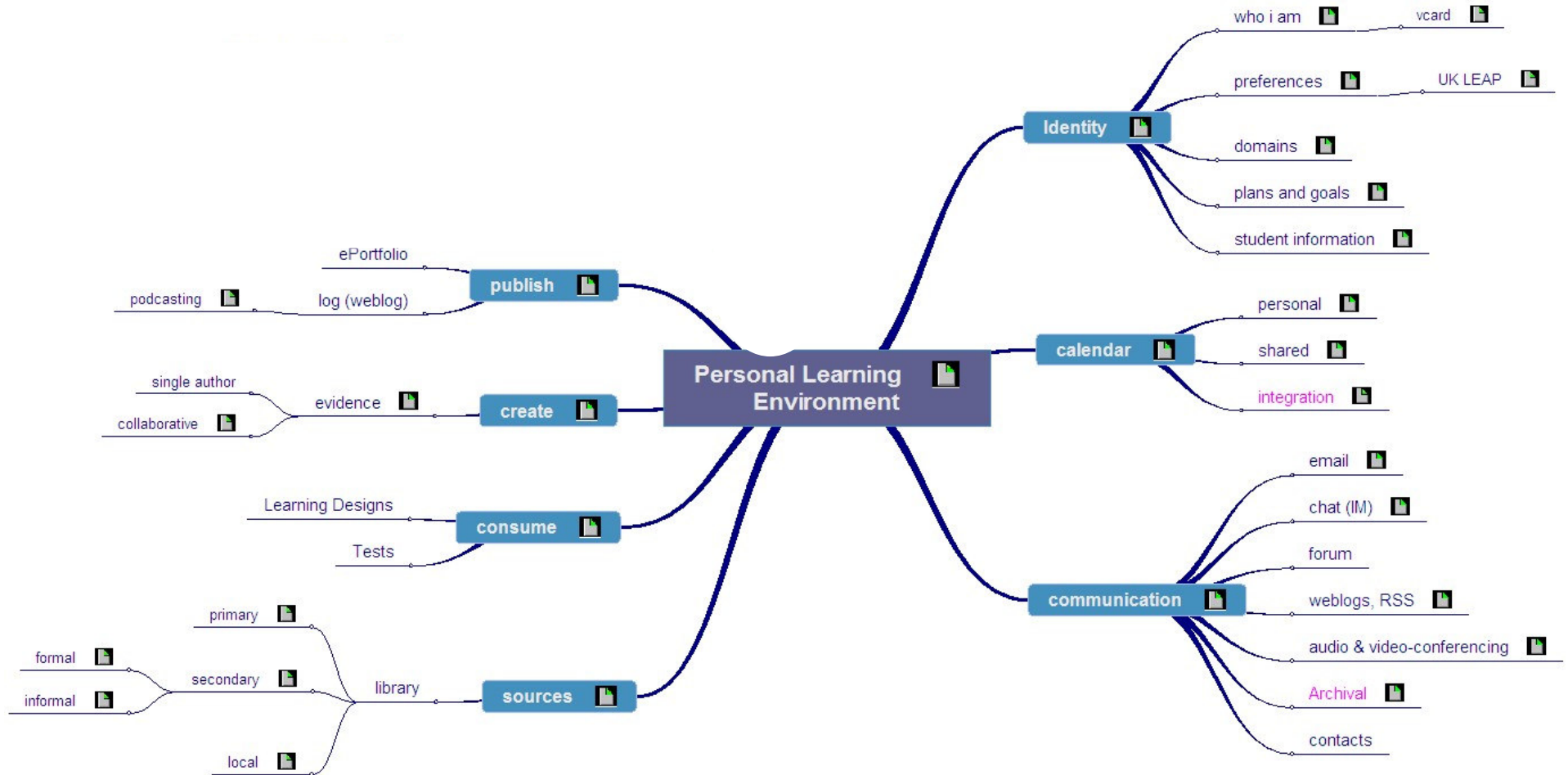
# Common Features



- Feeds for collecting resources and other data
- Conduits for sharing and publishing
- Services for interacting with organisations
- Personal information management
- Ambiguity of teacher - learner role



# My PLE!





# Scenarios

- Liam: Future Undergraduate learner, where the emphasis is on learner-centred learning, collaborative working and utilising an e-Portfolio.

### Main Menu

Shoutbox

send

12:22 UTC, Tue 28 of Feb, 2006: mick

10:02 UTC, Tue 28 of Feb, 2006: asdf asd

6:53 UTC, Mon 27 of Feb, 2006: i can't see these templates

11:55 UTC, Mon 27 of Feb, 2006: alright ad, thats it loaded, cya man

11:41 UTC, Mon 27 of Feb, 2006: every thing is fixed now

Read More...

## Available Root File

### Personal Disk Quota Usage




4.31Mb of 200Mb quota used

### File Gallery Tree

- Root
  - Home [1]
- Show me main branches

- that I own
- that students own
- shared with the `2005\_06\_IDP\_01` group
- shared with the `2005\_06\_IDP\_02` group
- shared with the `2005\_06\_IDP\_03` group
- shared with the `2005\_06\_IDP\_04` group
- shared with the `2005\_06\_IDP\_05` group
- shared with the `2005\_06\_IDP\_06` group
- shared with the `2005\_06\_IDP\_07` group
- shared with the `2005\_06\_IDP\_08` group
- shared with the `2005\_06\_IDP\_09` group
- shared with the `2005\_06\_IDP\_10` group
- shared with the `2005\_06\_IDP\_11` group
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- shared with the `2005\_06\_IDP\_20` group
- shared with the `2005\_06\_IDP\_21` group
- shared with the `2005\_06\_IDP\_22` group
- shared with the `2005\_06\_IDP\_Staff` group
- shared with the `2005\_06\_PDP2\_A` group
- shared with the `2005\_06\_PDP2\_B` group
- shared with the `2005\_06\_PDP2\_C` group
- shared with the `2005\_06\_PDP2\_D` group
- shared with the `2005\_06\_PDP2\_E` group
- that I own

### Root

Name	Description	User	Files	Hits	Actions
Home	Home		1	8	  





# Scenarios

- Carla: Researcher/Lifelong Learner, who has no formal courses or group membership, but who still benefits from a Personal Learning (or Research) Environment.

NetVibes: Colin (7) - Mozilla Firefox

File Edit View History Bookmarks Tools Help del.icio.us

http://www.netvibes.com/

NetVibes: Colin (7) | cdmilligan's bookmarks on del.icio.us | Microsoft Outlook Web Access

colin.milligan@gma... | Settings | Sign Out

me | Feeds | Photo | CD-LOR | PLE | tea | exel.org | New Tab

**PmWiki | Main / RecentChanges**

- ▶ Main / HomePage
- ▶ Main / SideBar
- ▶ Main / WriteBoard
- ▶ Main / TenCompetence
- ▶ Main / WikiSandbox
- ▶ Main / MyPLE
- ▶ Main / AppendixPapers

**PLE links and Info**

<http://wiki.cetis.ac.uk/PLE>

Events

e-Society, Dublin 13-16 July 2006  
<http://www.iadis.org/es2006/>  
 Paper accepted, Johnson et al:  
<http://www.box.net/public/04o3hl81tx>

ECTEL, Heraklion, Crete: 1-4 Oct 2006 [www.ectel06.org](http://www.ectel06.org)  
 Papers notified 1 June, final paper by 30 June.  
<http://www.ectel06.org/program-details-print.html>  
 3rd talk in a 2-330 session on 3rd October

ALT-C Edinburgh 5-7 September 2006  
 Register by June 30: <http://www.alt.ac.uk/altc2006/>  
 Research Paper (Johnson et al):  
<http://www.box.net/public/aelyne9kfb> (v2)  
 Workshop (Currier et al):  
<http://www.box.net/public/vlvhyf4puu> (v1)

Scenarios Section:  
<http://www.writely.com/Doc.aspx?id=bdqvt2wfr9m25>  
 Defining PLEs:  
<http://www.writely.com/Doc.aspx?id=bdgwxp3dpzqw>

**Box.net web storage**

My BOX > ple

- [...]
- 060606\_milligan.doc
- 060606\_milligan.pdf
- 070606DEF\_PLE.ppt
- 210306\_mwj\_cdm\_v01.ppt
- ec-tel.doc
- ec-tel\_cdm.doc
- ec-tel\_cdm.pdf
- Johnson\_e\_society.doc
- milligan\_ectel.pdf

Add a folder | Add a file

Upgrade to 5Gb for only \$4.99/m Powered by Box.net

**PopMail : Strathclyde**

No awaiting messages

**CiteULike**

- ▶ Adopt and Adapt  
Motivation and ability: which students use online learning and what influence does it have on their achievement?
- ▶ Addressing Student Needs: Teaching on the Internet
- ▶ Validity, Reliability, and all that Jazz

**del.icio.us/for/cdmilligan**

[from Mike\_Malloch] John Seely Brown MIT World Video: Relearning Learning-Appling the Long Tail to Learning | 1:42:04 real video of much-quoted talk given Dec 1, 2006.. we must transcend models of learning that prescribe "pouring knowledge into somebody's head"

**Colin Milligan**

1 Agenda 7 Week 31 Month

<< February 2007 >>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	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	1	2	3

## Welcome to Postgenomic

Postgenomic collects data from hundreds of science blogs and then does useful and interesting things with it.


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- See the buzz surrounding [different websites](#)
- Browse different subject areas - [chemistry](#), [bioinformatics](#), [neuroscience](#), the [life sciences](#)... see the 'Explore' options on the top right hand side of the page for more.

## Stephen Pinker on The Colbert Report

 [linked to by 2](#) added on Tue 13th Feb 07



 [posted to Mind Hacks](#) on Tue 13th Feb 07

Cognitive scientist Steven Pinker was a guest on the comedy show The Colbert Report where he talks about the brain, language and having bad hair days. Pure Pedantry has embedded video of the interview if you want to catch the quickfire questions and cognitive...

Read more about this at:

[Mind Hacks](#)

[Pure Pedantry](#)

[See all posts about this story...](#)



search -- all -- Go [Browse] [Tag cloud]

Who's interested in e-learning?

Grid of user profile cards for André Krüger, Julia Trachsel, Peter Bolger, Francisco Xavier de Oliveira Martins Coelho, Johan Jongstra, and Karla Lopez.

You



Colin Milligan RSS | Tags | Resources

Promoting user centred eLearning.

Recent Activity

View your activity

Your Friends

Dave Tosh

[View all Friends]

Advertising

Ads by Goooooogle

E-Learning System Team-based content creation.

What are people saying?



Laat maar zitten, het werkt al!

Feb 15 2007 | Read More...

Vanmorgen plaatste ik de oproep "Wie helpt mee met dit idee?" Natuurlijk wilde ik jullie ruim de gelegenheid geven om te reageren, maar vandaag liet het idee me niet ...



Ich logge mich hier ja nicht so oft ein

Feb 15 2007 | Read More...

Aber irrendwie sieht elgg jedesmal anders aus. Die Communities haben nun also Foren statt Bloogs.

- New Book
- Add Blank Page
- Add Sheet Page
- Add Writer Page
- more...
- Aa Add Text
- Add Image
- Add Audio
- Add Video
- Add HTML
- Add URL
- Add RSS
- Add File
- Add Sheet
- Add Writer
- more...

- My Books
- Shared
- Sample
- Raju
- Sharing
- Aggregation
- Video
- DEMO Book
- Raju

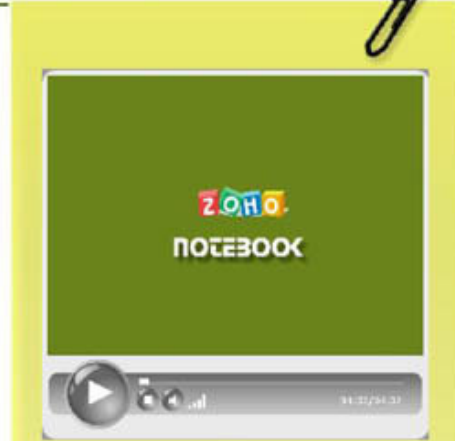
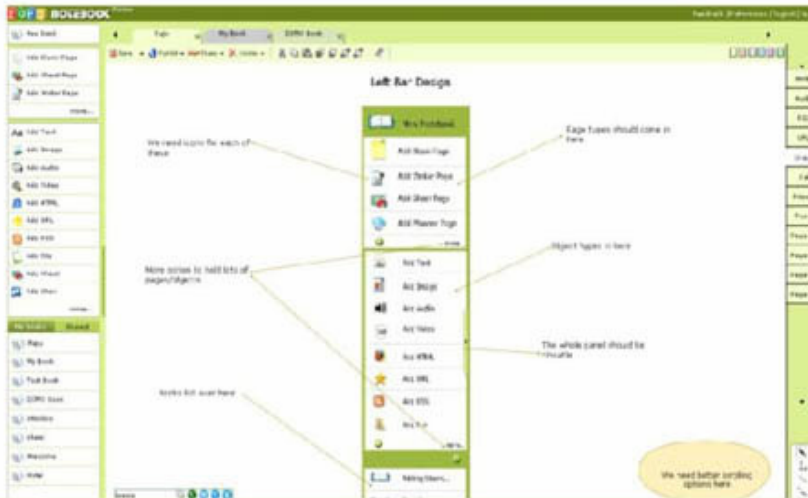
Sample x DEMO Book x

Save Publish Share Delete



## Create, Aggregate & Collaborate

Introducing Zoho Notebook - the online application for gathering and creating multiple types of content that can easily be shared with others. Designed with a simple user interface, Zoho Notebook solves the problem of managing multiple sources of information and content that is typically spread all over the place: your desktop, e-mail, websites, etc. With Notebook, you now have a single place to access and share the information that matters to you.



### Content Creation:

Inspired by the traditional spiral-bound notebook, Zoho Notebook was designed for creativity with its easy user interface and powerful multi-media capabilities. Notebooklets you combine text, images, audio, video and much more.

### Content Aggregation:

Zoho Notebook makes it easy to add and combine content from multiple applications and sources such as: text and images; from web pages, RSS feeds, email, etc.

- Intro
- Data
- Photo P.
- Whitebo.
- Press
- Cal
- RSS
- Plugin
- skype
- Collab



In a PLE



- The learner is in control
- The learner is an active participant and
  - can create learning opportunities
  - can drive their learning
  - can demonstrate their knowledge and skills



## Question 3

- Is this vision of a Personal Learning Environment ***practical*** in a formal educational environment?
- Or is it only practical for non-formal education?
- Can we have personalisation without chaos?

# In Formal Education



- Different subjects have different needs
- Different educational levels have different needs
- Assessment continues to pose problems
- Technology: Lowest Common Denominator
- Quality of Service: coping with variety



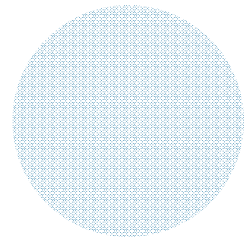
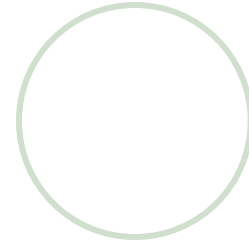
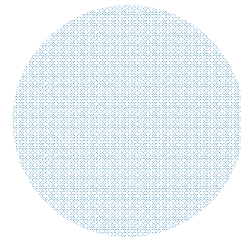
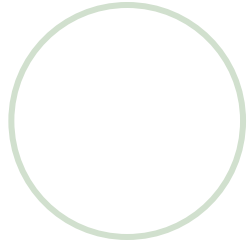
## Question 4

- Can education ***systems*** evolve to truly make education Personal and Individual?
- Or is there never going to be enough impetus to change from the current systems? (mass education)

# Is there an Appetite for Change?

- Is it 'broken'?
- Are the pressures strong enough?
- Will new pressures emerge?

Content



PLEs:

- emphasise creating, and remixing content,
- Assume promiscuous sharing
- Require efficient tools for Discovery

# A Personal Repository for a Personal Learning Environment



- Integration

- With tools for creation, annotation, collaboration.

- Sharing

- groups, global. Notification, Secondary info.

- Multi-layered discovery

- local, group, global

- Transparent management of resources

- Resource management, permissions



# Thank you

- Colin Milligan: [colin.milligan@gmail.com](mailto:colin.milligan@gmail.com)
- <http://wiki.cetis.ac.uk/Ple>
- <http://www.box.net/public/nuc1azcray>
- <http://www.box.net/public/v9ejtk5hvc>
- <http://www.jelsim.org/>
- <http://www.academy.gcal.ac.uk/cd-lor/>