## LPSS Learning and Performance Support System

Information & Communications Technologies (ICT) Portfolio

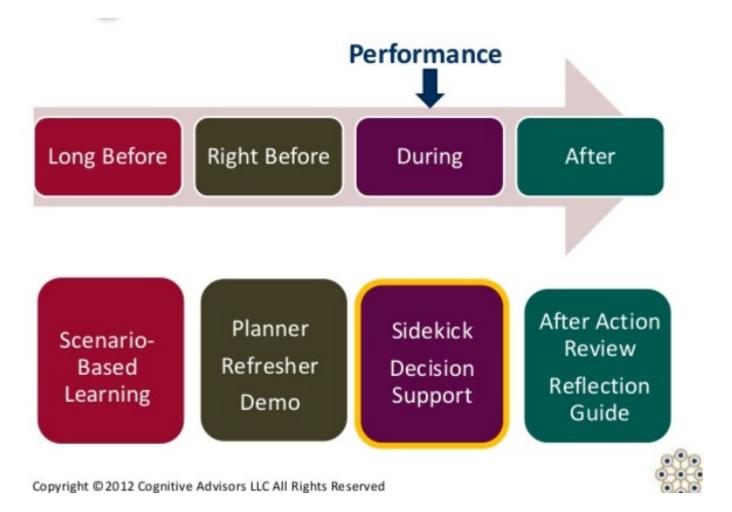
Stephen Downes

LPSS Program Leader

April 28, 2015

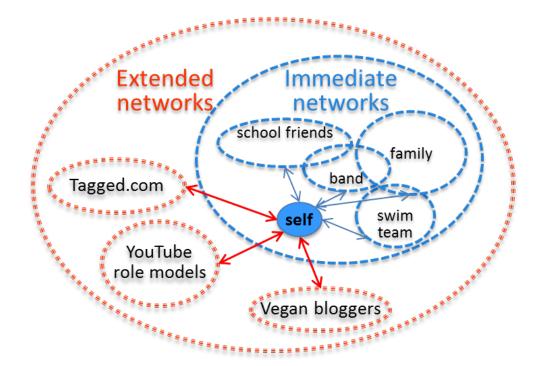
Stephen.Downes@nrc-cnrc.gc.ca

### Performance Support



http://www.cognitiveadvisors.com/resources/mobile-performance-support-designprinciples

### Learning in Context



Informal learning opportunities via extended networks

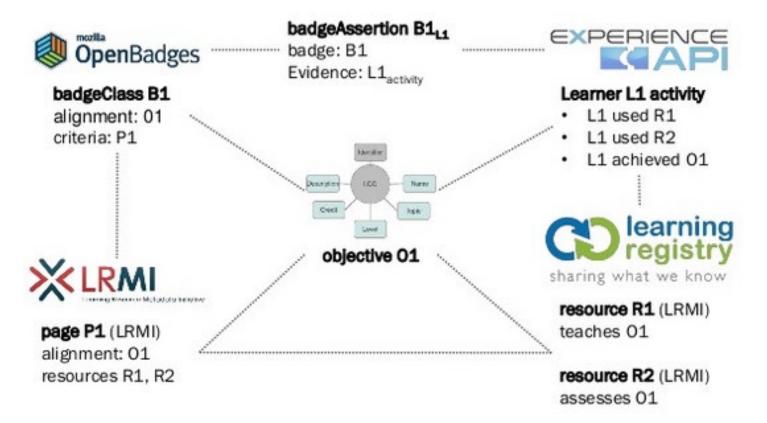
Task-Focused Network-based The Solution: Personal Learning and Performance Support

Single point of access to all skills development and training needs

- Individual learning path
- Context-aware support
- Searchable and verifiable
- Tailored to industry needs
- Always available
- Point of need performance support

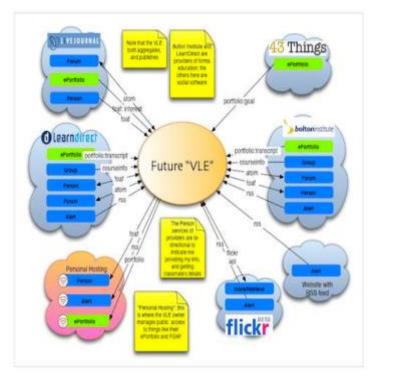


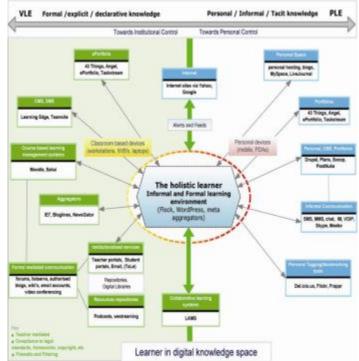
## Personal Assistant for Learning



http://www.adlnet.org/adl-initiative-baa-new-submission-window-open-for-personalassistant-for-learning-pal-proposals-2/index.html http://www.slideshare.net/damonregan/regan-tlainfrastructureforfutureoflearningsintice2013

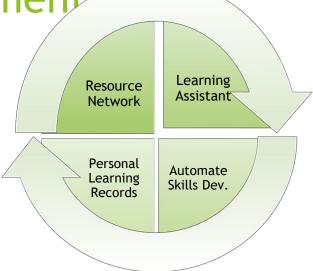
## The design is based on putting the learner at the centre





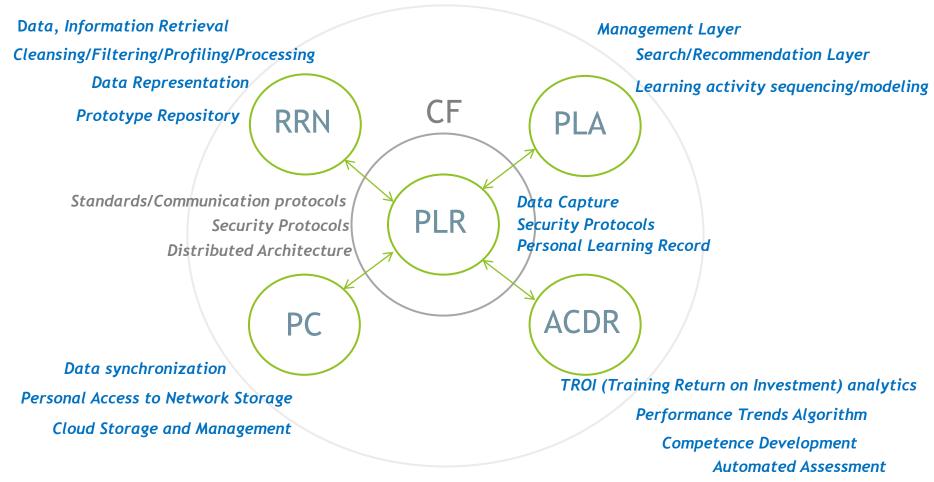
Scott Wilson (left), Tim Hand (right) <u>https://www.google.com/search?q=ple+diagrams</u> <u>http://www.edtechpost.ca/ple\_diagrams/index.php/mind-map-3</u> Learning and Performance Support System: Core Technology Development Projects

- Learning services network and marketplace
- Automated skills development and recognition
- Lifetime management of learning and training records and credentials
- Personal learning assistant to view, update and access training

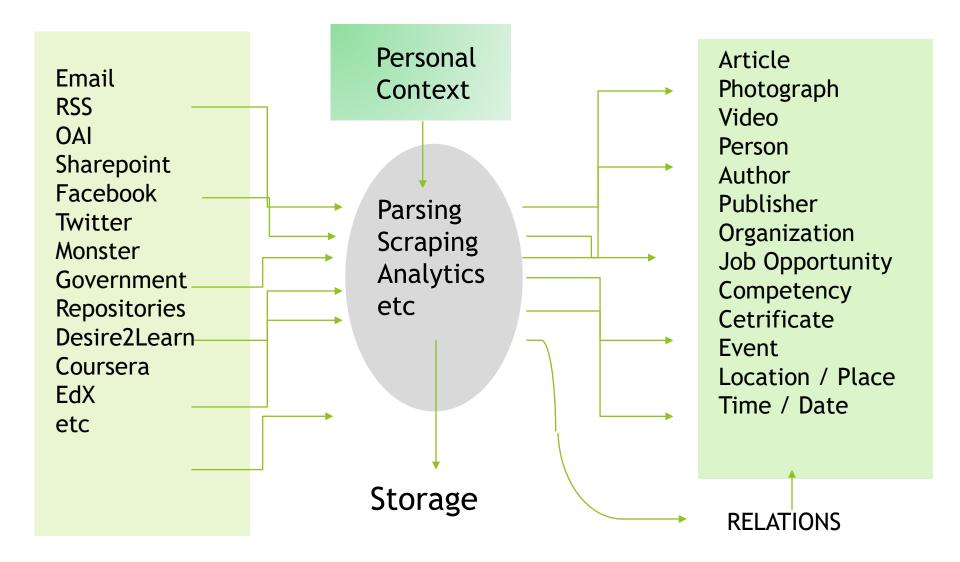


 Learning as a cloud service and deep integration with external systems

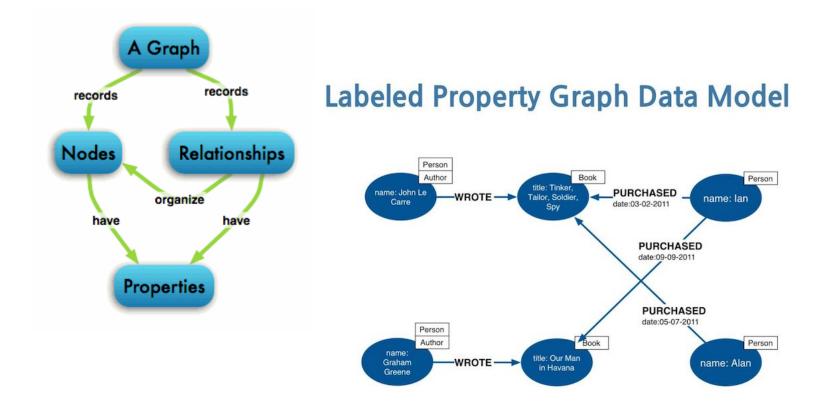
### **Project Details**



### **RRN Aggregation and Storage**



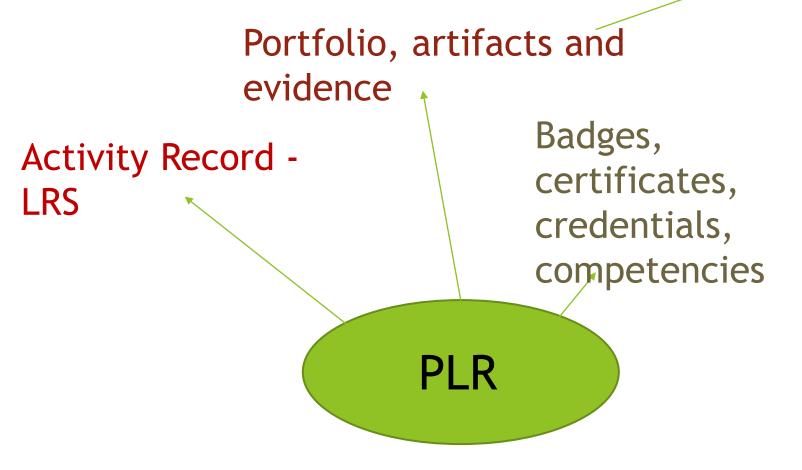
### The Graph Database



http://neo4j.com/developer/graph-database/

### Personal Learning Record

OERs



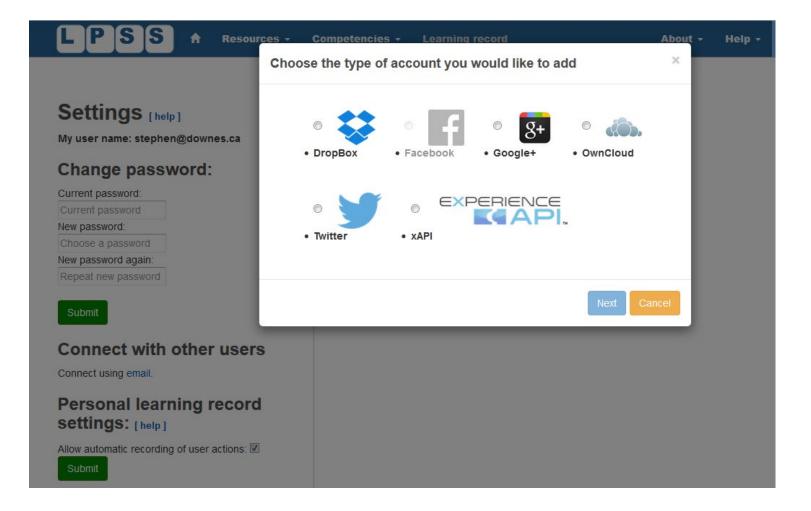
### Why is this Difficult?

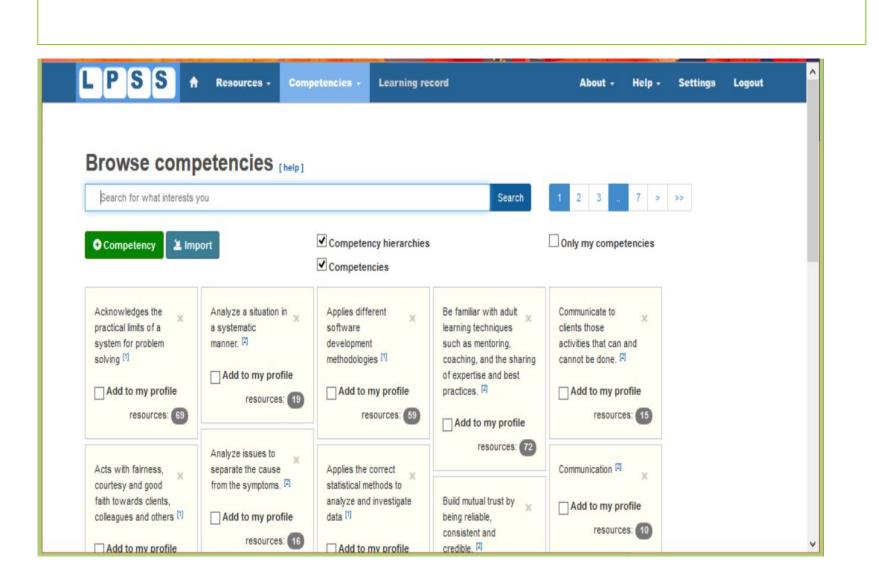
- It's not one big thing...
- ... but a set of many small things
- Tasks that are simple in an enterprise system...
  - Like data storage
  - Like content distribution
  - Like authentication
  - Like analytics
  - ... become that much more difficult

### Website - LPSS.me

PSS A	Resources - Competencies -	Learning record	About - Help -	Settings Log
Browse resourd	CES [help]	Search	1 2 3	267 >
🖉 Courses 🖉 Event 🖉 Fe	eed Entry 🖉 Tweets 👿 Website			
	Resource text		Competencies	Created
Url	Launching New Ventures /	April 02, 2015 08:4		
https://www.coursera.org /course/venture	Entreprise Develop your promising idea into a s and launch it! Gain practical experie			
Source	creation process, including marketin entrepreneurial			
Coursera	entrepreneunal			
Url	Developing Scalable Apps	n Python [ Raw data ]	Develops software and scripts in a variety of environments and languages	a April 02, 2015 08:01
https://www.udacity.com/course /ud858?utm_medium	with Google App Engine			
Source			Works with LANs and WANs	
Udacity			Applies different software development methodologies	
			Works within the different software development lifecycle stages	
			Demonstrates an understanding of	

### **External Services**

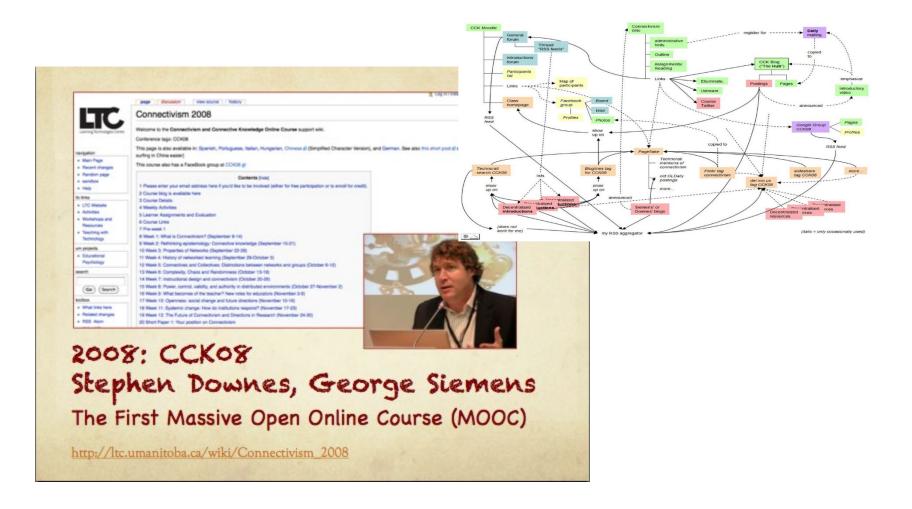




### LPSS: Some Case Studies

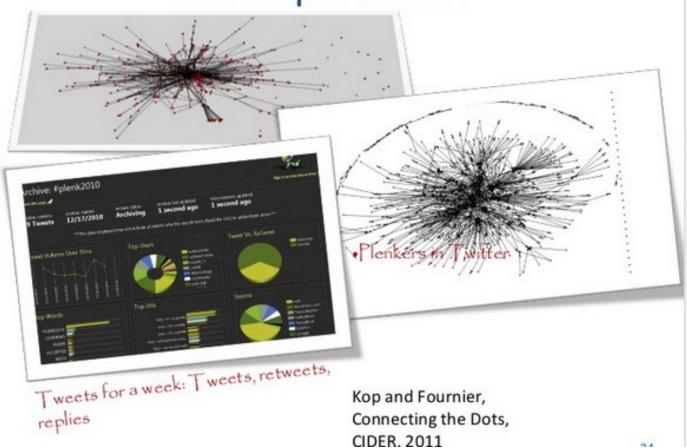


### **MOOC - CCK08**



https://sites.google.com/site/themoocguide/3-cck08---the-distributedcourse

# Plearn - Importance of the Graph



http://www.slideshare.net/Downes/after-moodle

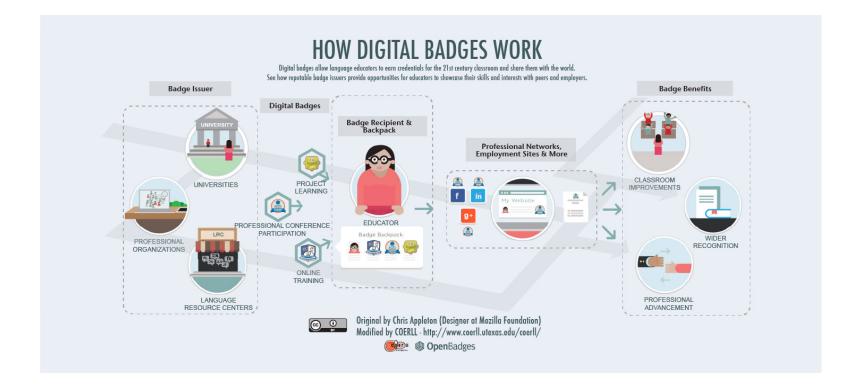
http://www.slideshare.net/Ritakop/kopfourniercanadianinstitutedistanceeducationresear chple

### OIF - MOOC-REL

REL 2014 - Pour une éducation libre								
ACCUEIL	VOTRE COMPTE 🗸	COMPTES RENDUS 🗸	PARTICIPER 🗸	SYNDICATION RSS 🗸	ARCHIVES 🗸			
Vous n´êtes pas connecté(e). [Connexion] - [Inscription]								
Réutiliser, retravailler, redistribuer         Réutiliser, Retravailler, Recombiner, Redistribuer         A des REL pour une Éducation libre         Bienvenue à votre Cours en Ligne Quvert et Massif (CLOM) de l'Organisation internationale de l'Aracophonie portant sur les ressources éducatives libres (REL).         Le cours débute le 3 mars 2014 et dure neuf semaines consécutives. Si vous n'êtes pas déjà insertiets-le tout de suite pour recevoir le Bulletin de nouvelles quotidiennes et bénéficier du droit commentaires/discussion dans le site.					onale de la déjà inscrit(e),			
1. DU CLOM CONNECTIVIS FONCTIONNE	STE ET EMENT DE CE	troduction au CLC						

http://rel2014.mooc.ca/

### **PCO Badges for Learning**



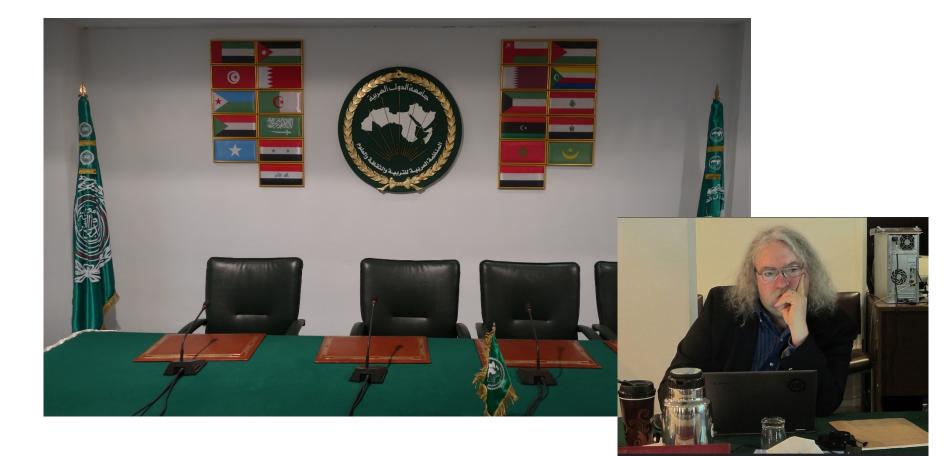
### http://www.downes.ca/post/63738

### **ONGARDE**



http://www.journal.forces.gc.ca/vol14/no2/page70-eng.asp

### **ALECSO - Capacity Building**



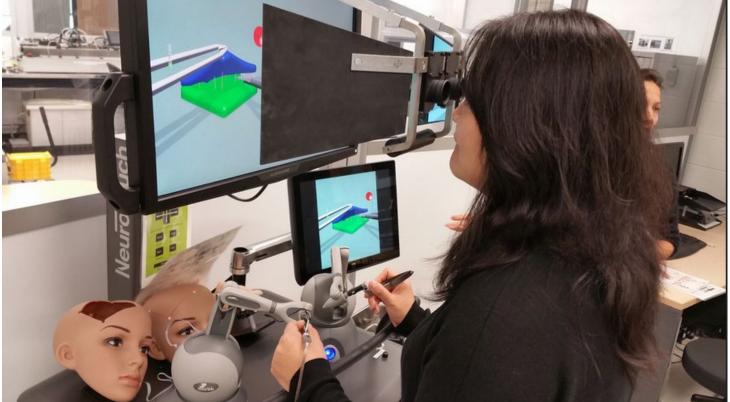
### http://www.downes.ca/presentation/337

### **MINT - Mobile INteractive**



http://www.downes.ca/post/59876

### Collecting xAPI from Med Sims



https://www.flickr.com/photos/stephen\_downes/15710336207/ http://www.nrc-cnrc.gc.ca/eng/rd/medical/

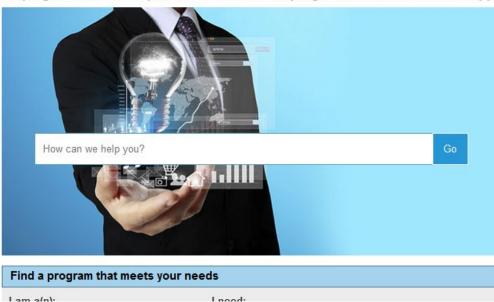
## Concierge OMS



Home → Your guide to innovation

#### Your guide to innovation

Helping Canadian enterprises find and access programs and services that support business innovation.



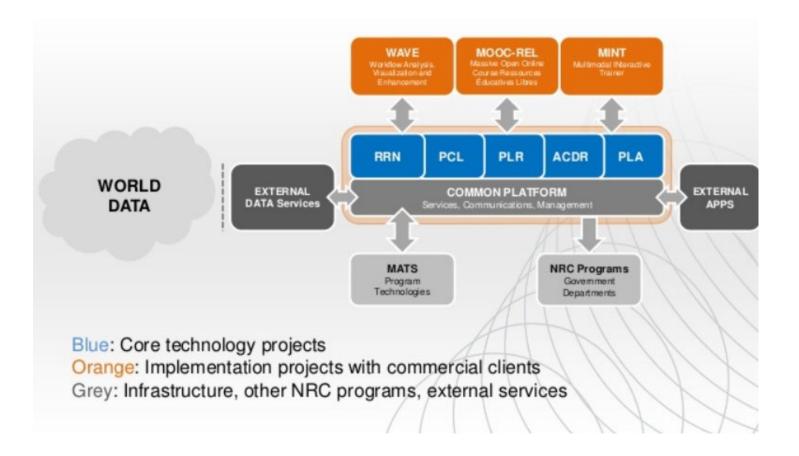


Create an account to get the benefits to support you & your business!



#### https://concierge.portal.gc.ca/

### How to Engage



http://www.nrccnrc.gc.ca/eng/solutions/collaborative/lpss.html

- Stephen Downes
- LPSS program Leader
- +1 (506) 861-0955
- Stephen.Downes@nrc-cnrc.gc.ca
- http://www.nrc-cnrc.gc.ca