

# Learning and Performance Support Systems

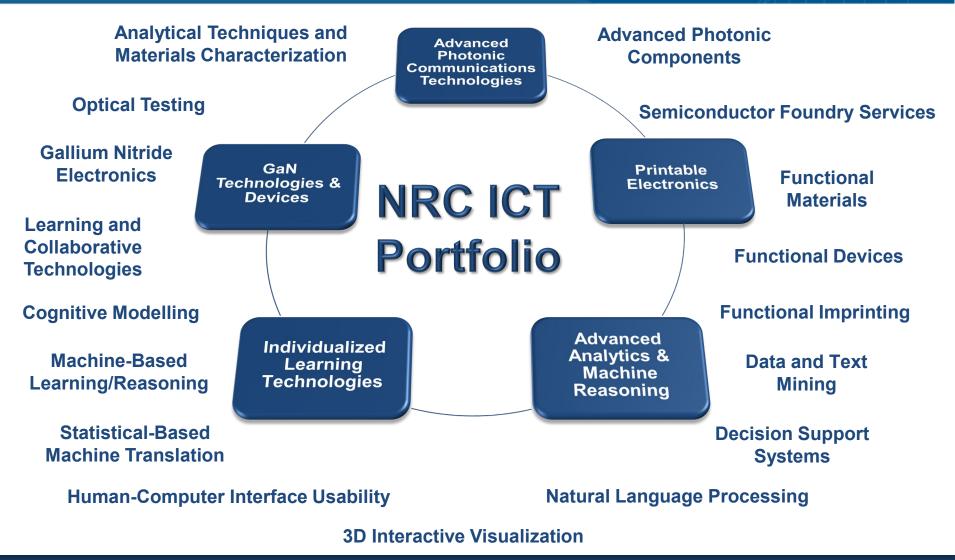
Stephen Downes 27 Feb, 2014



National Research Conseil national de recherches Canada



### **World-Renowned Competencies**



#### NRC·CNRC

## The Skills Shortage in Canada

- The Canadian Oil and Gas (O&G) sector alone loses an estimated \$4 billion per year due to skills shortages.
- 25 job groups show signs of skills shortages. 21% of employment in Canada, these groups have an unemployment rate of less than 1%,
- Training current and prospective employees is time-consuming and expensive.



#### NCCNC

## Why NRC?

- NRC is a globally recognized leader in emerging learning technologies
  - Not core competencies for target clients
  - LPSS benefits from NRC's research in other fields
- NRC is deeply connected to the elearning industry
  - University researchers not driven to spend the time with industry
  - NRC by contrast has collaboration and commercialization experience
  - Neutral broker reduces risk to technology development partners







# LPSS program 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





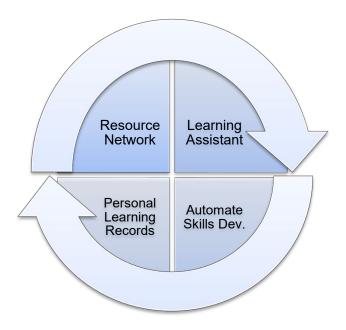
#### **LPSS Program Overview**

- LPSS is a \$19 million program over 5 years, average 30 FTEs per year
- Based on hosted services used to develop and monetize core technologies, which are then transferred to commercial receptors
- Will work with Canadian learning technology providers and target verticals to address critical skills shortages in that industry
- Revenues during program execution, with potential for ongoing licensing revenues



### 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

#### NRC·CNRC

#### The Program Business Model

 Two-phase business model, based first on the development of hosted services, and second on the transfer of technology and client base to strategic partners.

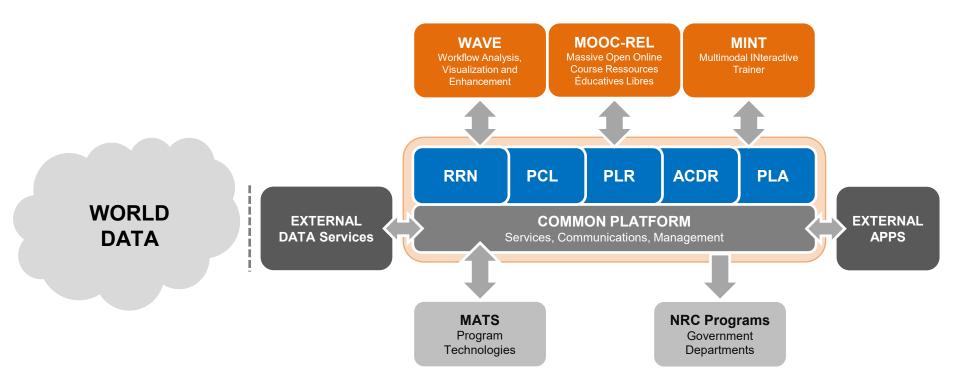
> Capacity development through hosted projects

 Monetization through through development agreements and feefor-service  Transfer of program assets to the commercial sector

 Consolidation of revenue and exit.

#### NRC·CNRC

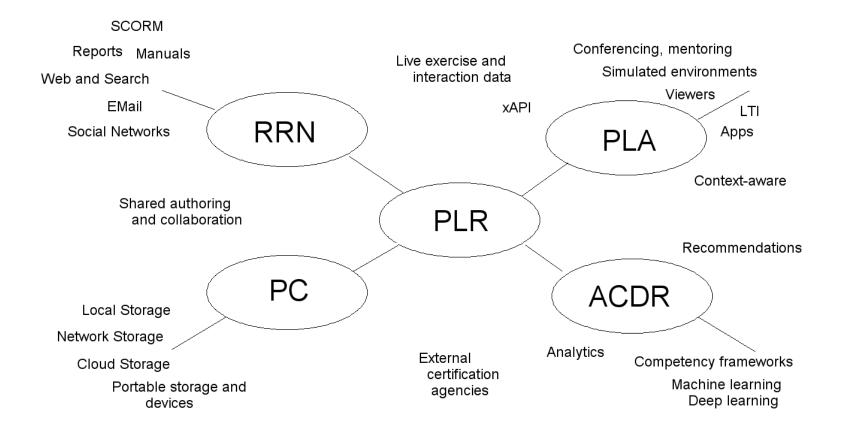
#### What is LPSS?



- It's a network of personal learning environments...
- ... connected to a large array of learning services



### **Core Projects, Implementation Projects**



#### **NRC** CNRC

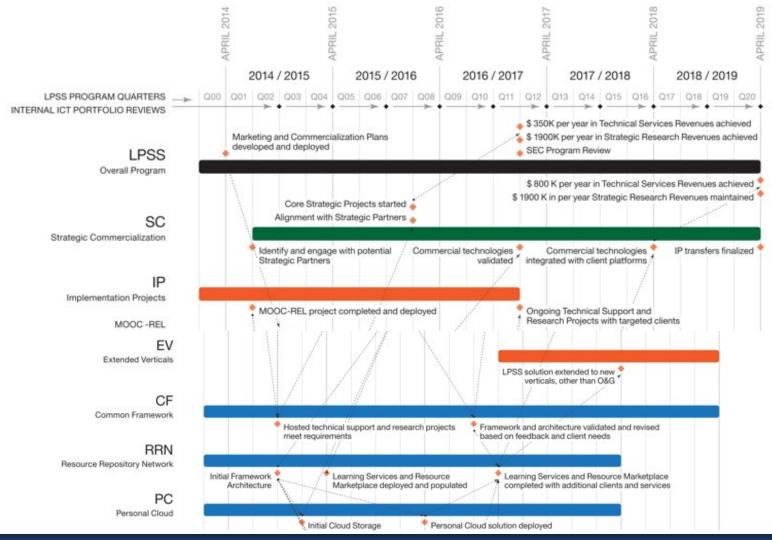
### Why Is This Difficult?

- 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



#### What is the LPSS Program?



#### NRC CNRC

# **Highlights**

# Value Proposition:

- Problem: skills shortage in Canadian professions and industry
- Solution: personal skills development infrastructure
- Market Pull:
- Ongoing negotiations with Ed Tech and Insuctry Clients
- Projects with universities, government departments, international bodies
- Program Design Based on Engagement:
- Product and service development with end-user clients
- Transfer and commercialization to Ed Tech partners





Stephen Downes Stephen.Downes@nrc-cnrc.gc.ca

> Rodrigue.Savoie Rodrigue.Savoie@nrc-cnrc.gc.ca

http://nrc-cnrc.gc.ca/eng/solutions/collaborative/lpss.html

http://nrc-cnrc.gc.ca/fra/solutions/collaborative/saar.html

