



# **NC Education Cloud**

**Summary for GETC**

**March 7, 2012**

**Phil Emer**

# IIS, Shared Learning Collaborative, and Cloud

- **The vision of IIS and of Gates SLI is the same.**
  - Namely - personalized learning
  - More specifically, bringing data and content together to support personalized learning
- **The Gates SLI platform includes:**
  - A data integration service
  - A curriculum mapping service – “learning maps”
  - An application store model (sort of)
- **NC Education Cloud platform addresses data and content integration issues in a more NC-focused way**
- **NC Education Cloud enterprise services address**  
*Readiness*

# Enterprise Services Overview

- **General Service Requirements**
  - Benefit to the community
  - Commercially available service
  - Financial Analysis/ROI
  - Provides features/functionality that are required to effectively use Instructional Content Systems and IIS
  - Complementary to Instructional Content Systems and IIS
- **General Service Types**
  - Consortium Purchase/Convenience Contract
  - Engineering Support and Service Integration
  - Managed Shared Service
- **Financial Considerations – LEA Spending Baselines**
- **Resource Planning**

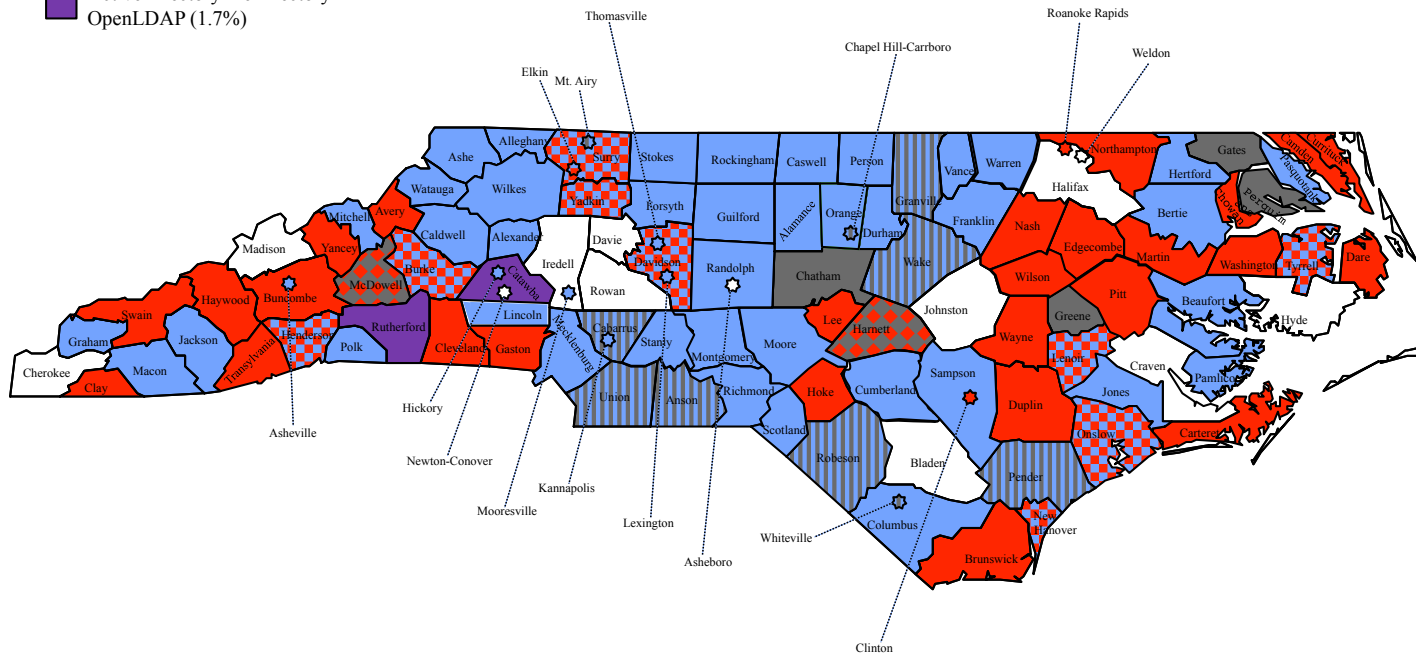
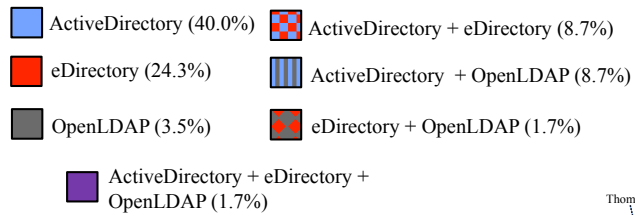
# Shared Infrastructure Services Overview

- **Identity and access management**
  - Automatically create user accounts
  - Provide mechanisms for those accounts to be used to login to many services (including IIS and SBAC assessments)
  - Require all future providers to adhere to identity standards
  - Data integration to automate ingestion of student, staff, parent data
- **Instructional content services**
  - Learning object repository (LOR)
  - Digital card catalog to search, contribute, and manage content
  - Learning management system (LMS) – an LEA chosen platform for interacting with content
- **Business systems optimization**
  - iSeries centralization
  - HR and finance system modernization

## A Bit on the Survey and Interview Results

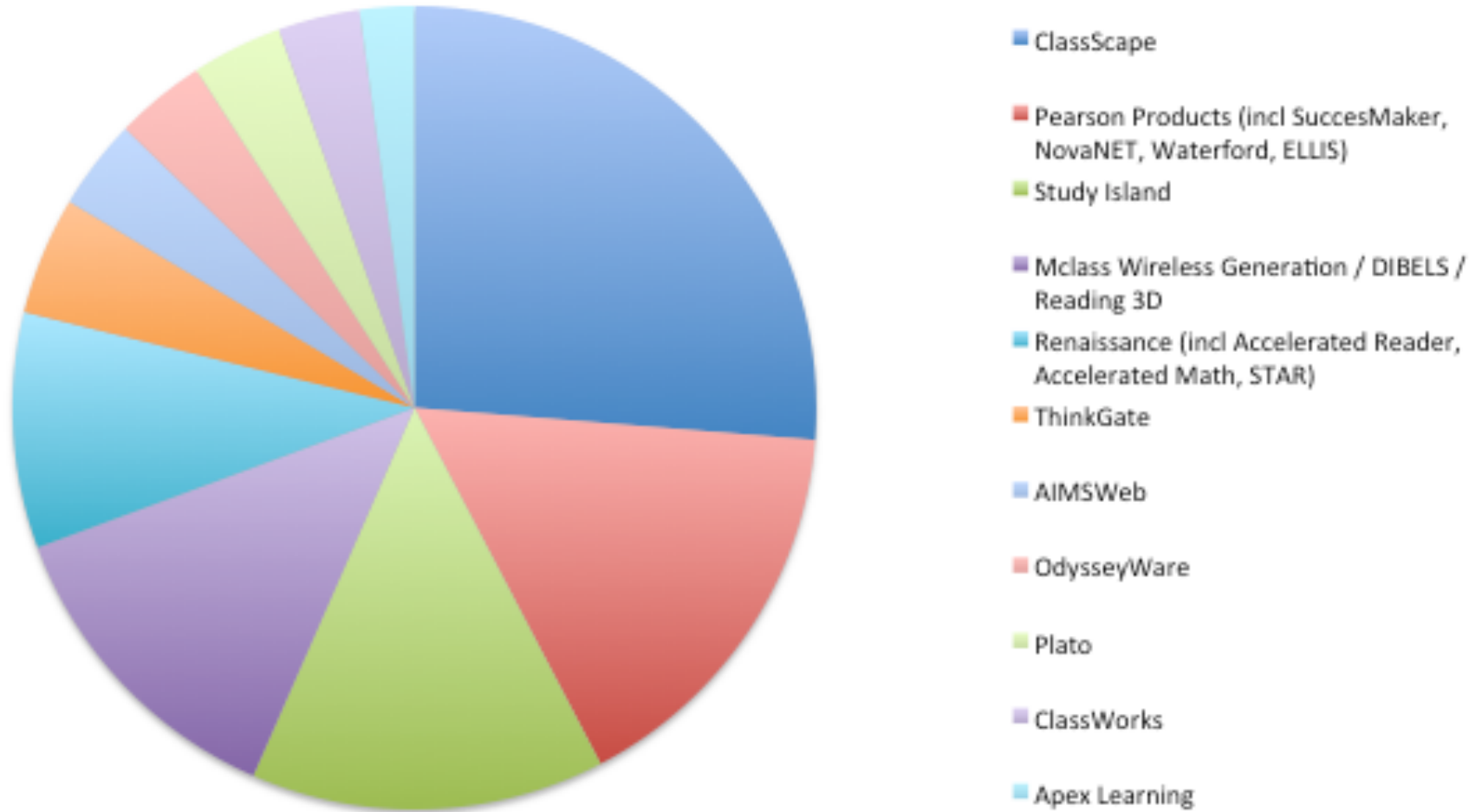
- **Findings report**
- **Raw data**
- **Extracts and reports**
- <http://cloud.fi.ncsu.edu/status/>

# Use of LEA Survey Data – Identity management



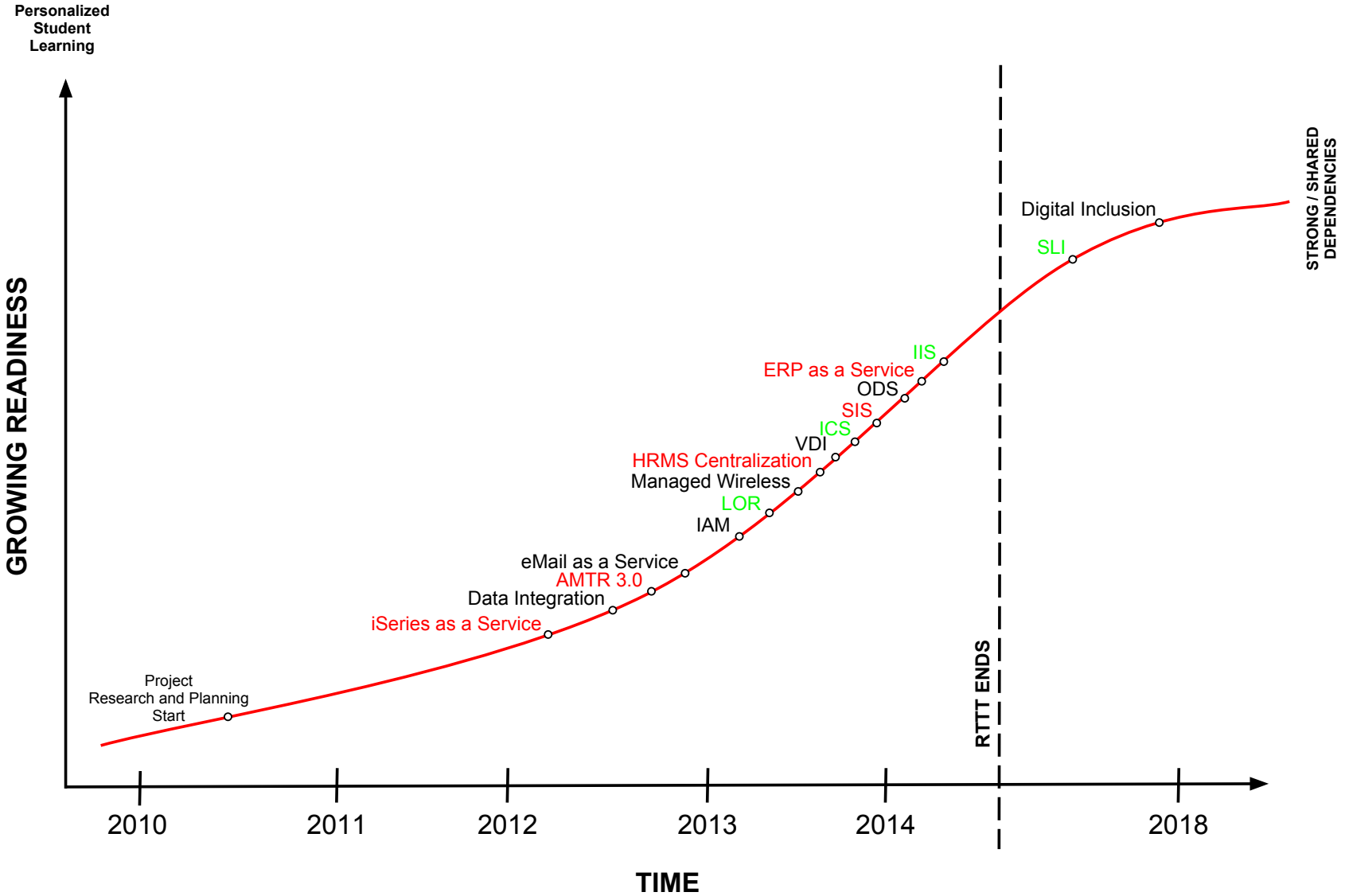
From page 58 of the IAM Plan

# Use of LEA Survey Data – Assessment in LEAs



From page 6 of the Findings from NC Education Cloud Interview and Survey Process report

# NC RttT Project Deployment Roadmap



BLACK - Cloud/Enterprise

RED - Other RttT / Instructional

GREEN - Business Operations



# Enterprise Services Project Summary – Q1/Q2 2012

Project	Lead	Deliverable	Completion Date
<b>Student access to end-user devices</b>			
BYOD Strategies	Frank Jou	Recommended Practices	April 13, 2012
Desktop Virtualization – remote hosted desktops and remote virtual applications	Frank Jou	Feasibility Study	April 20, 2012
Mobile device management (MDM)	Consultant	Market Study	April 13, 2012
Desktop malware protection	Dave Furiness	Request for Proposal	April 27, 2012
<b>Sustainable infrastructure</b>			
Wireless services and management	Dave Furiness	Feasibility Study	April 27, 2012
Hosted IP Telephony	Don Smith	Market Study	April 13, 2012
Server virtualization/IaaS	Dave Furiness	Feasibility Study	June 30, 2012
<b>Enterprise applications</b>			
Email/Collaboration	John Warf	Google Apps Migration Support	On-going
Email/Collaboration	John Warf	Google Apps Administrator Training Course	April 20, 2012
<b>Performance monitoring/management</b>			
Performance monitoring/management – end user application performance management, and network monitoring and analytics	Frank Jou	Service Architecture	June 15, 2012

# Shared infrastructure Project Summary – Q1/Q2 2012

Project	Lead	Deliverable	Completion Date
<b>Identity and Access Management</b>			
Identity and Access management plan	Sammie Carter	Draft 5 (Final) Plan	March 2, 2012
Identity and access management platform	Sammie Carter	Request for Proposal on the street	April 1, 2012
Identity and access management service management	Sammie Carter	Scope of Work	April 13, 2012
Data integration	Sammie Carter	Request for Proposal	April 1, 2012
<b>Instructional Content Services</b>			
Learning object repository platform	James Robinson	Joint procurement with NCCCS	April 1, 2012
Learning object repository integration and hosting	James Robinson	Request for proposal	May 1, 2012
Learning management system	James Robinson	Procurement aligned with IIS	August 2012
<b>Business System Optimization</b>			
iSeries service deployment	Vendor	Vendor work begins	Mar. 19, 2012
Business process review	ITng Lab	Finance and HR system report	June 1, 2012