

# **Shared Learning Collaborative (SLC) Webinar for Vendors & Developers**

Stephen Coller, Sharren Bates,  
Henry Hipps and Jason Gruber

March 23, 2012

# Agenda

- Opportunities in the Evolving EdTech Market
  - Origins of the Shared Learning Collaborative
  - Key opportunities for vendors
- Overview of the SLC technology
- How to engage with the SLC

# Opportunities in the Evolving EdTech Market

Stephen Coller

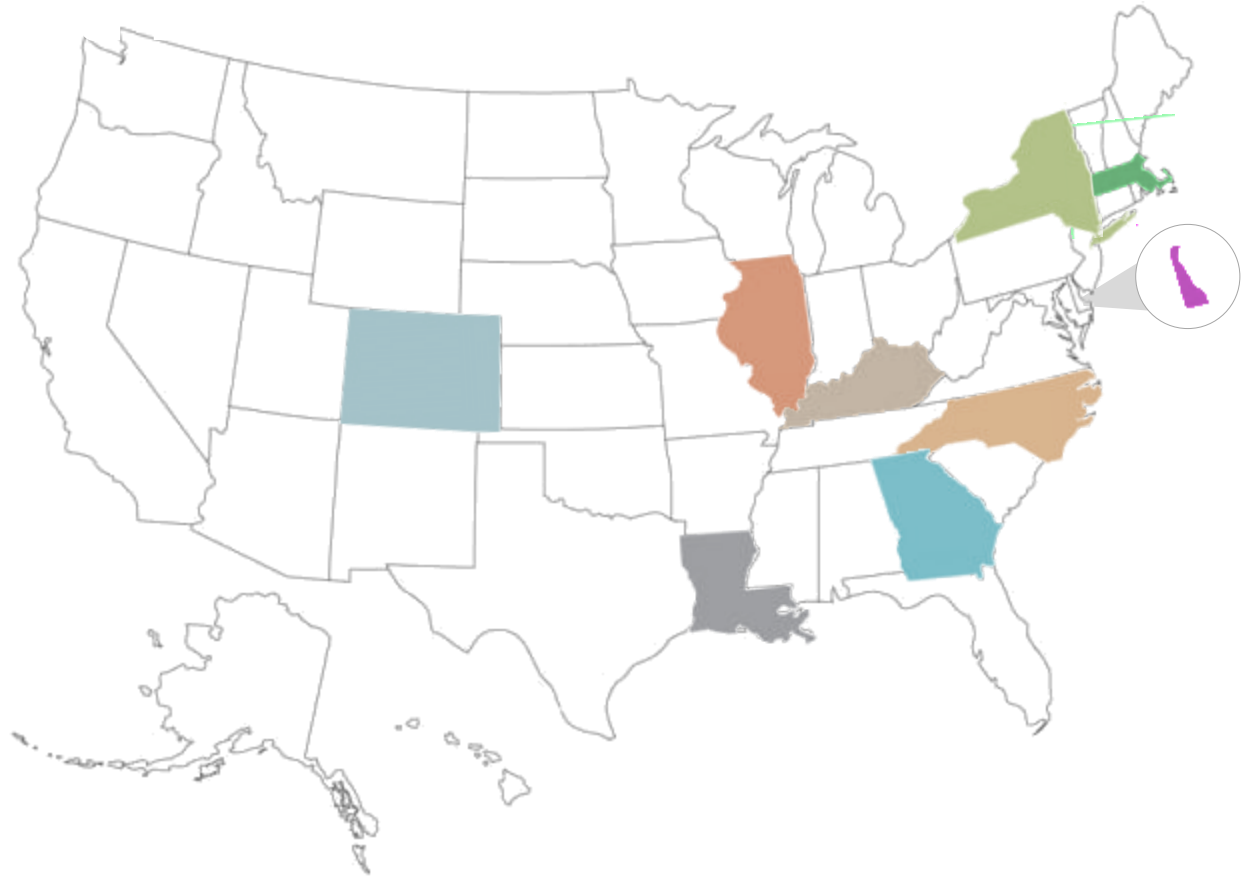
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# The Shared Learning Collaborative

*Our goal is to make personalized learning a reality for every U.S. student by improving the usefulness, variety and affordability of education technology.*



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# Our Vision

- Support students' individual learning needs and align with the Common Core
- Create a shared infrastructure that works with existing technology and saves money
- Foster a broad market with the best technology



# The Opportunity

- Aggregated demand
- Supported by 11 million students
- Reduced barriers to entry
- Accelerated product development



***Pilot states  
represent  
~\$2B of the ~\$9B  
education market***

# Investment Approach

- A “learning GPS”
- Targeted investments
- Open Codebase and a Reference Implementation
- Permissive licensing
- Community contribution and ownership



# Overview of the SLC Technology

Sharren Bates

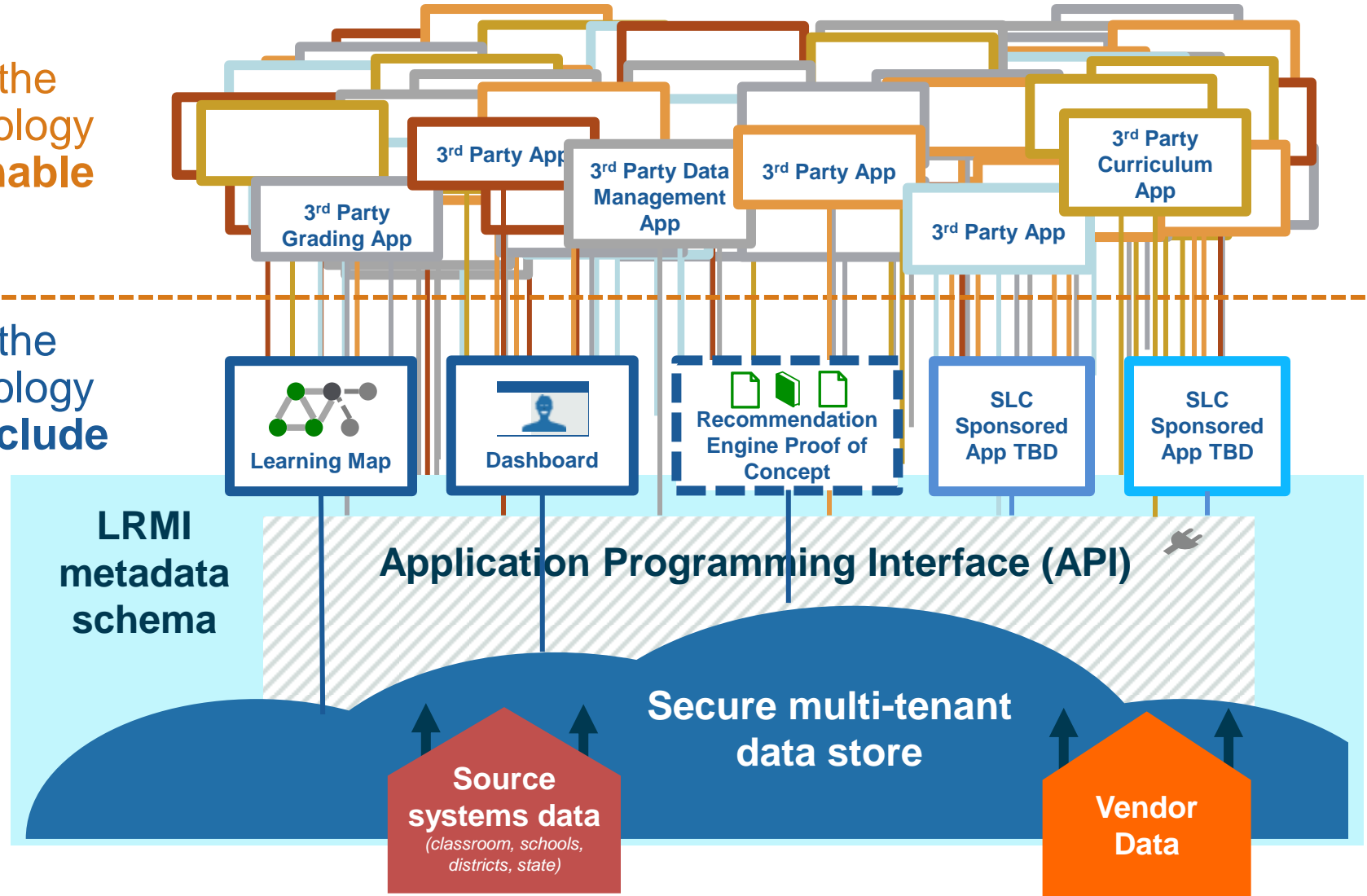
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# The SLC Technology

What the technology will **enable**

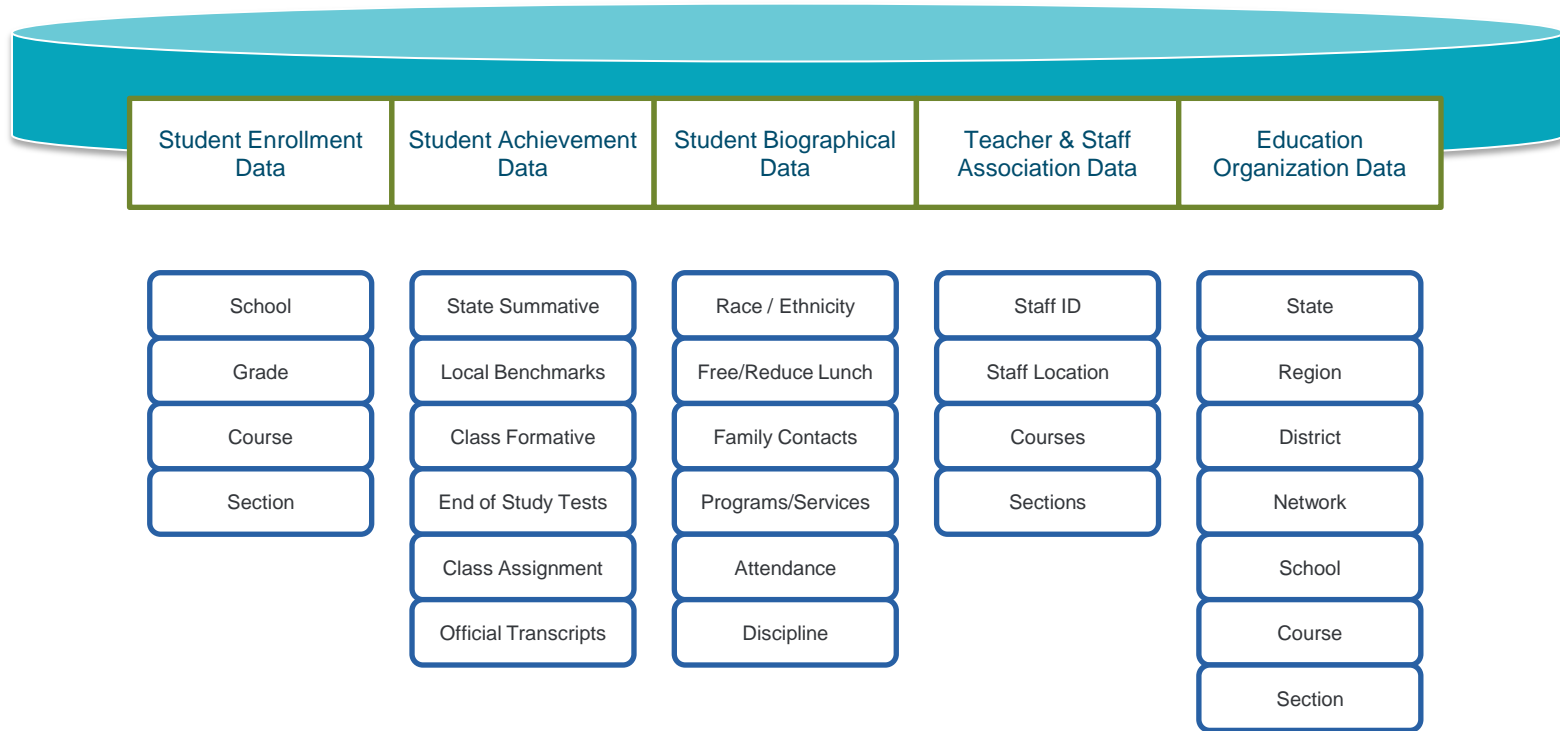
What the technology will **include**



# The SLC Technology Data Store

SLC Technology offers a secure, multi-tenant data store. SLC Technology utilizes an open, XML-based data specification called **Ed-Fi** for its core entity model. The Ed-Fi Data specification adopts the naming of entities and attributes from the Common Education Data Standard (CEDS).

## SLC Technology Data Store



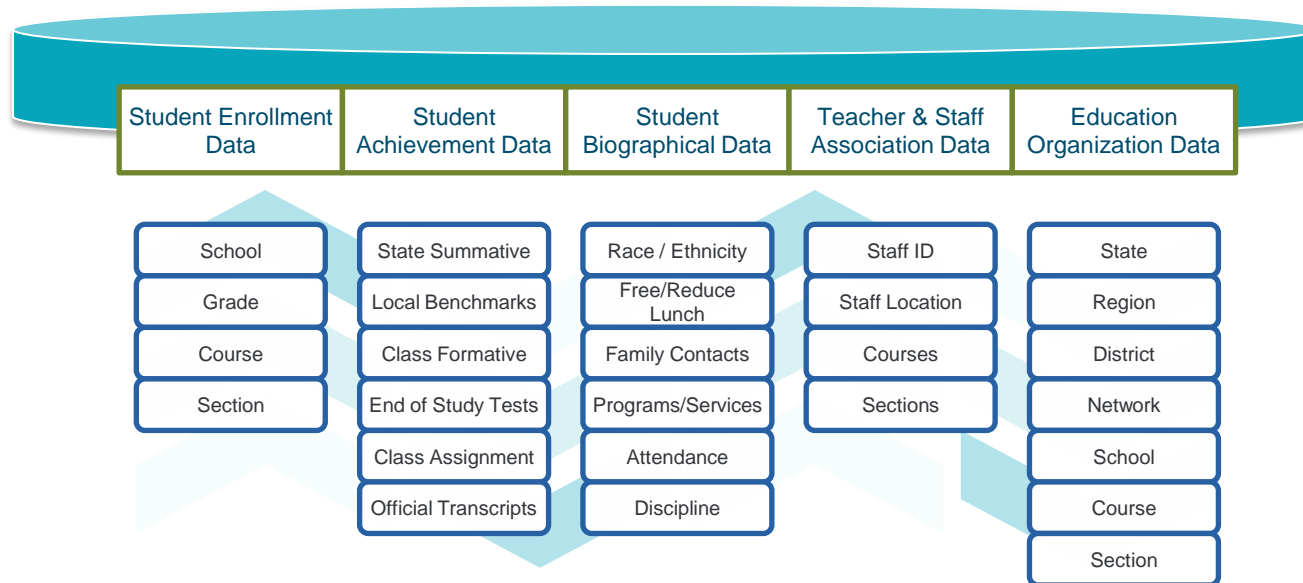
# Integration with Source Systems

The SLC Technology Data Store is being developed with the knowledge that source systems across states, local education agencies, and vendors are a highly diverse landscape.

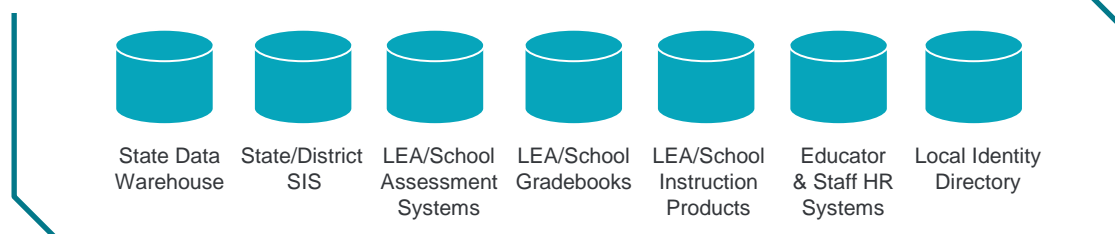
Data ingestion and extraction methods are being developed to address an assortment of needs.

Integration methods will include: XML, CSV, SIF ZIS Adapters, Event-driven API's

## SLC Technology Data Store



## State & Local Data Sources



# Learning Resource Metadata Initiative



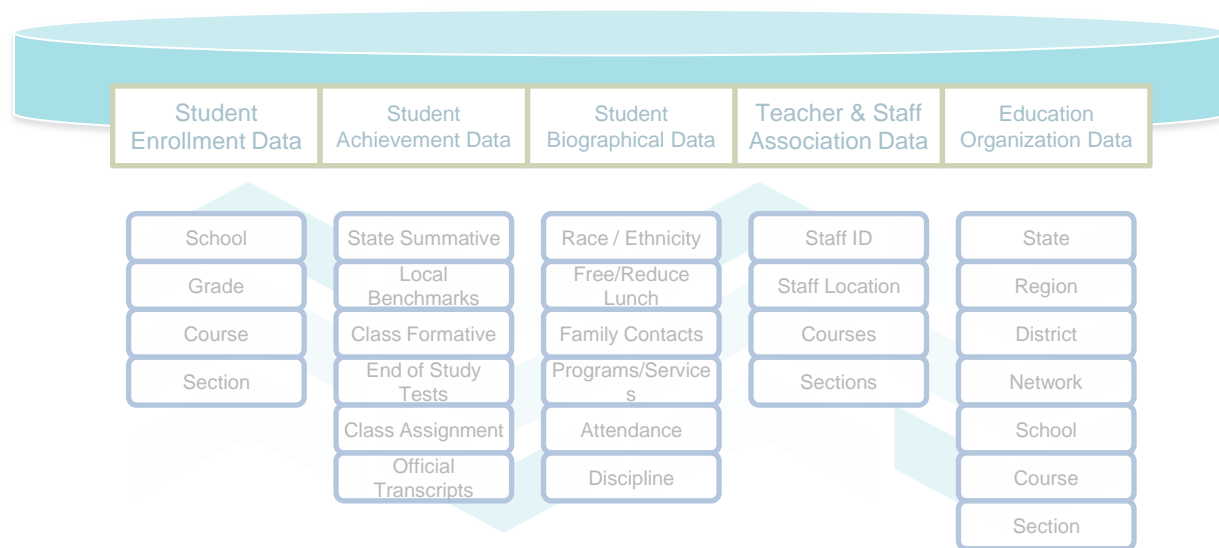
LRMI will create common metadata properties that distinguish content specifically used for learning.

Content in repositories will be tagged with LRMI-defined metatags and aligned to CCSS.

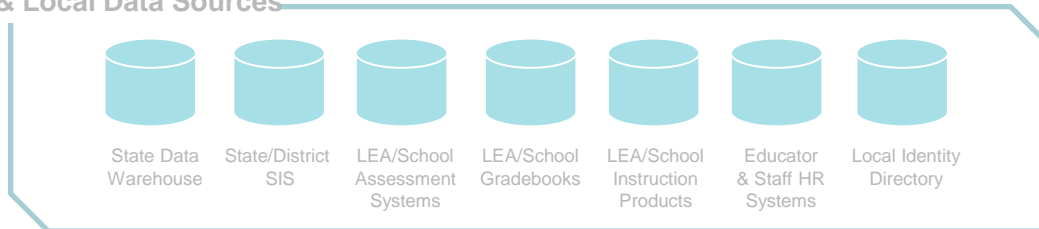
This content will announce and describes itself to the Learning Registry network.

# Learning Resource Metadata Initiative

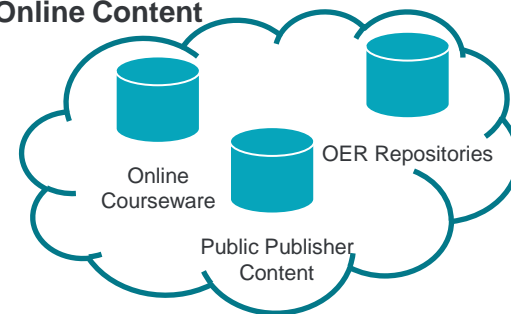
## SLC Technology Data Store



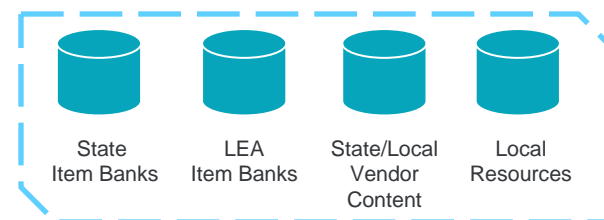
## State & Local Data Sources



## Online Content



## SEA/LEA Content



# The Learning Registry

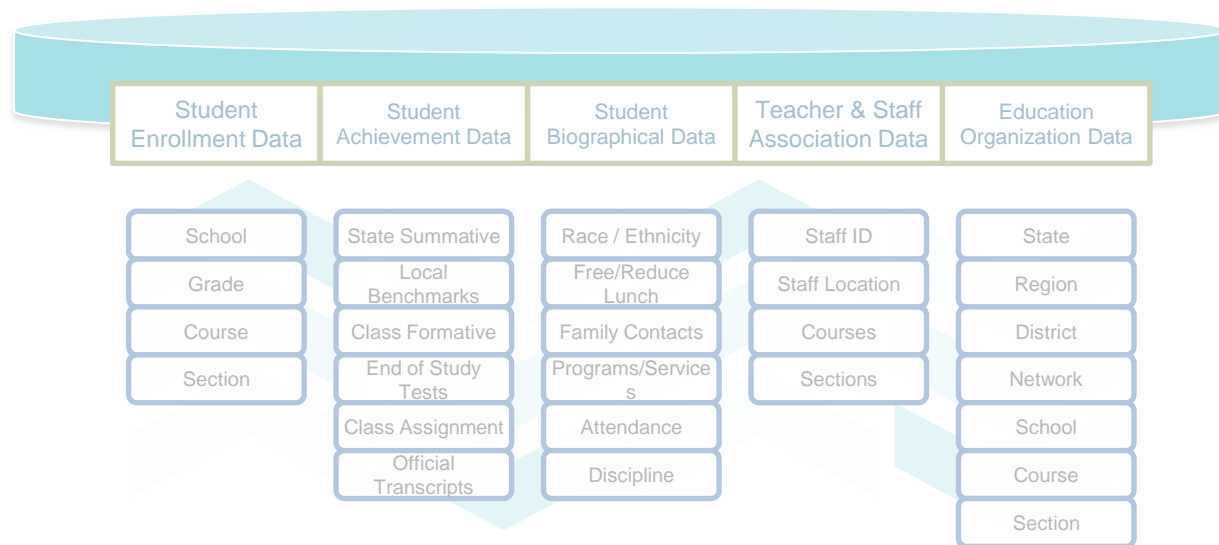
A network of learning registries will record messages about learning resources.

Information in the registry will include resource location, tags and activity.

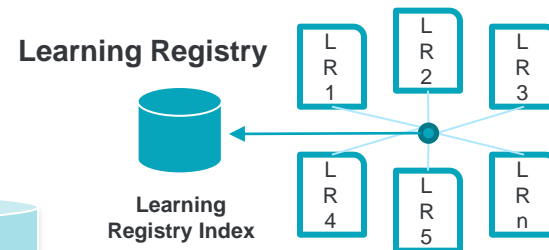
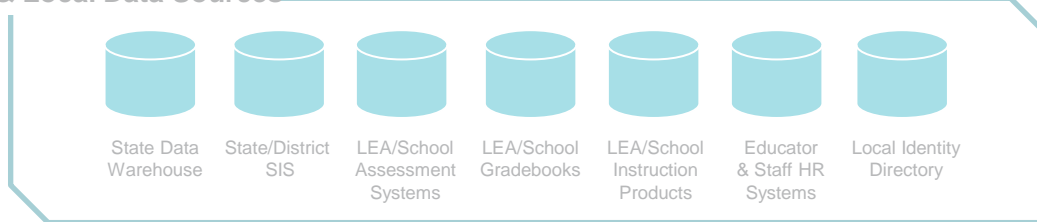
The SLC will build a Learning Registry Index aligned with the Common Core so applications and search engines can discover aligned content from across the internet.

# The Learning Registry

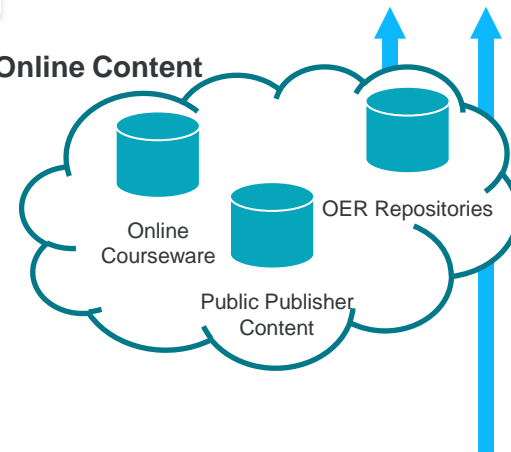
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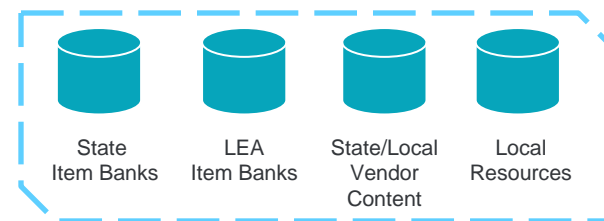
## State & Local Data Sources



## Online Content

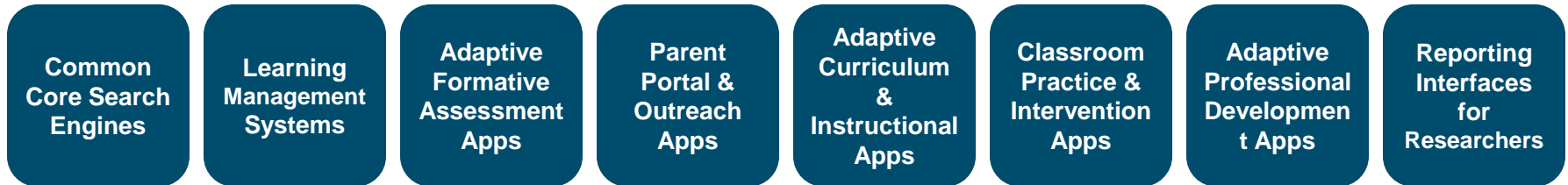


## SEA/LEA Content



# SLC Technology Enables Applications

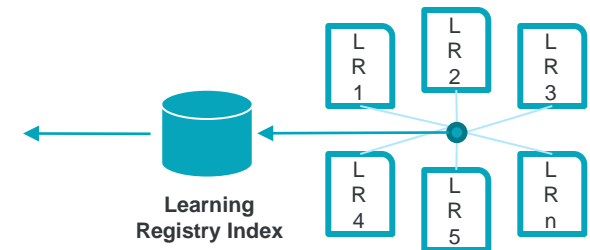
SLC Technology will launch a robust ecosystem of application suppliers by decreasing the barriers to entry and innovation. SLC Technology will lead the vendor market to better align with the needs of students, teachers and schools.



## SLC Technology Capabilities



## SLC Technology Data Store



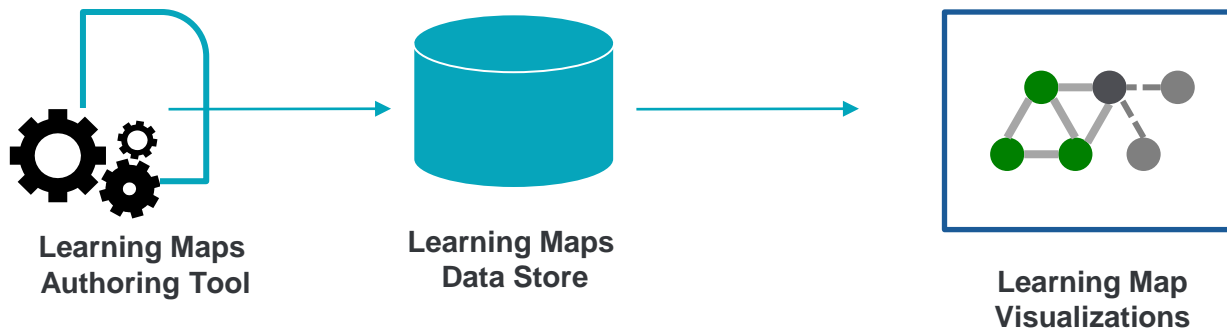


# Learning Maps

Learning Maps offer easy to use content standards browsing and provide baseline functionality to kickstart innovation in data reporting interfaces and recommendation engines.

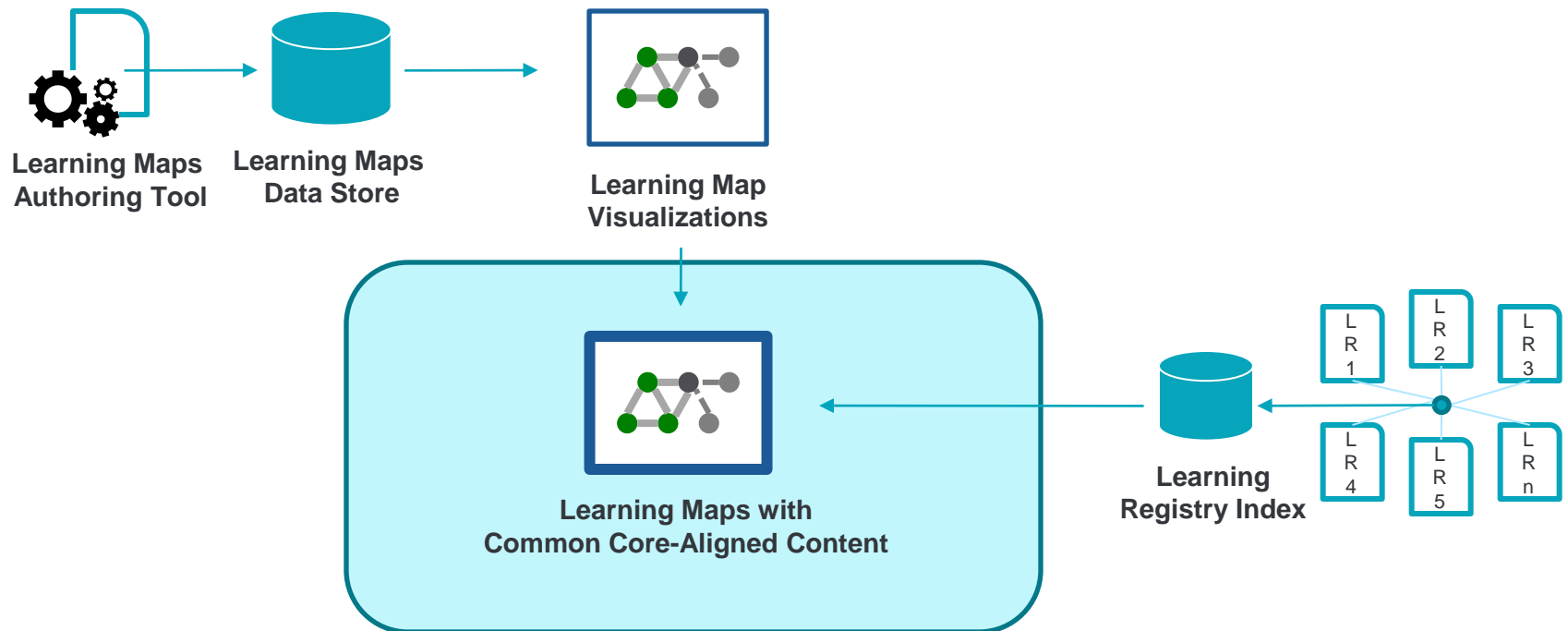
SLC will provide a Learning Map authoring tool for users to customize and publish their own path through the Common Core or to build new taxonomies for additional subjects.

The authoring tool will allow users to store paths and generate new visualizations.



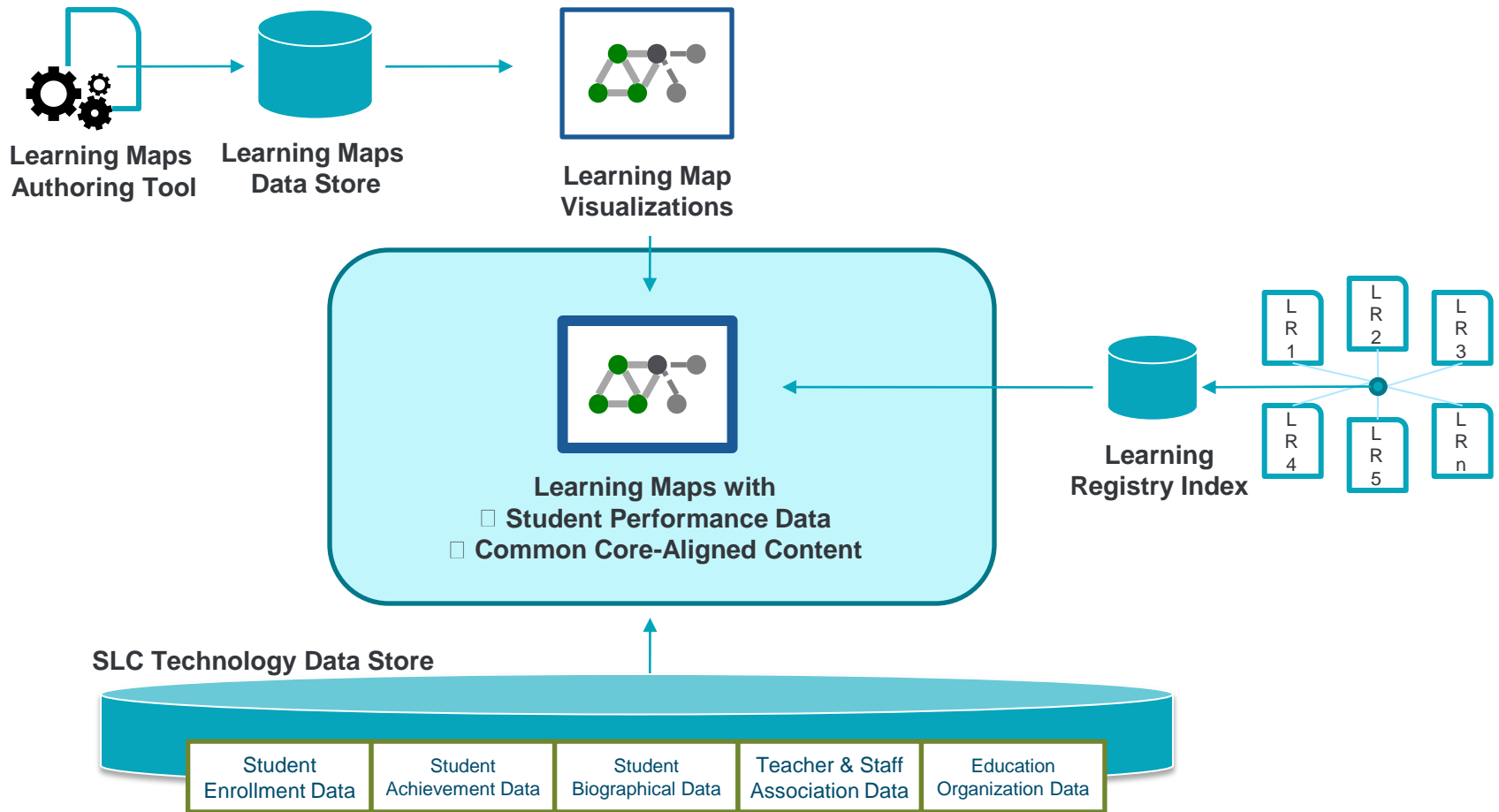
# Using Learning Maps

SLC Learning maps will connect to online content that is aligned to the same LRMI / CCSS tags as the Learning maps. States and districts can create additional applications to customize visualizations and add additional functionality.



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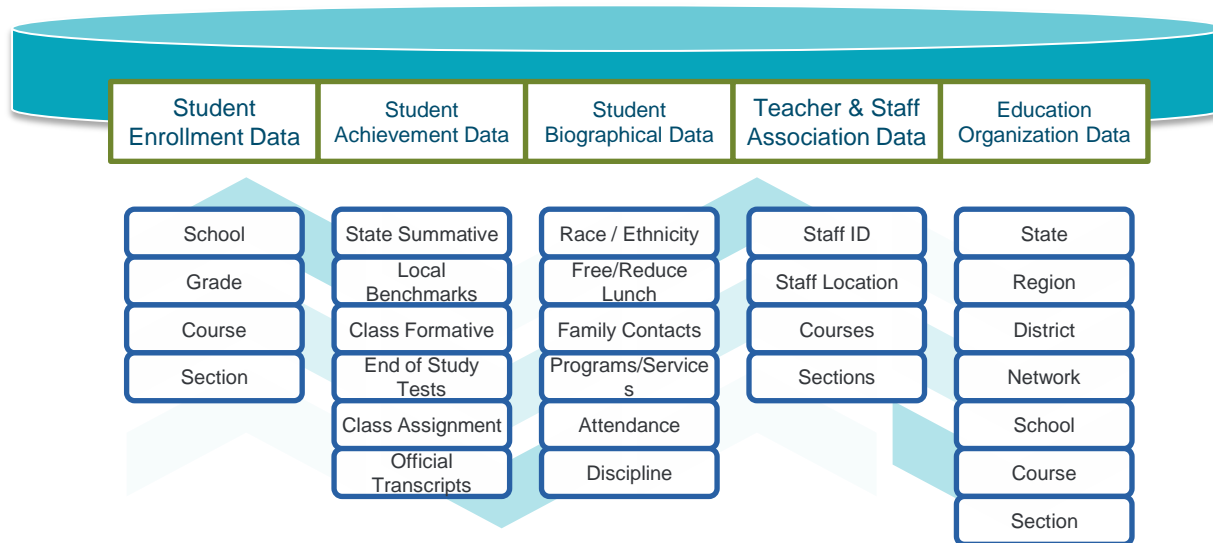
# Complete Overview

The combined overview provides teams with an outline of SLC Technology components and a method to visualize potential application and usage scenarios

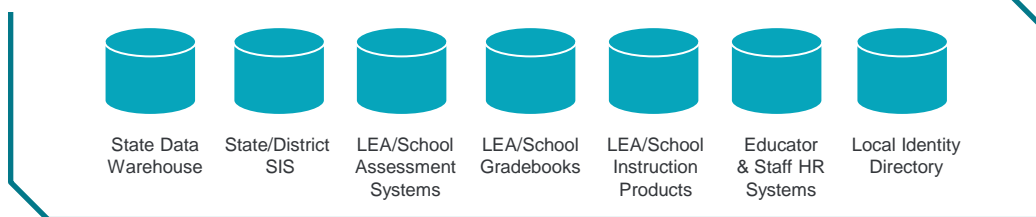
## SLC Technology Capabilities



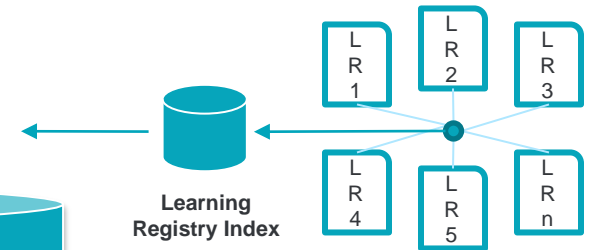
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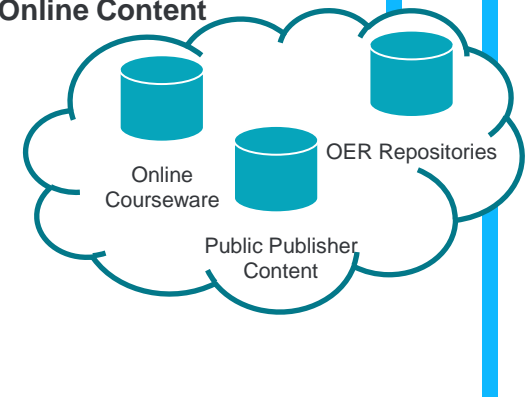
## State & Local Data Sources



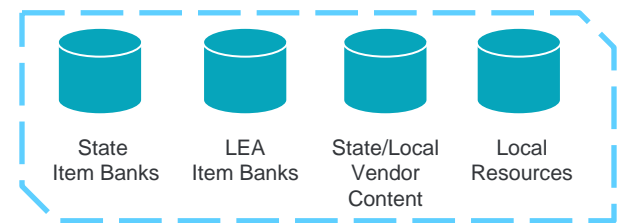
## Learning Registry



## Online Content



## SEA/LEA Content



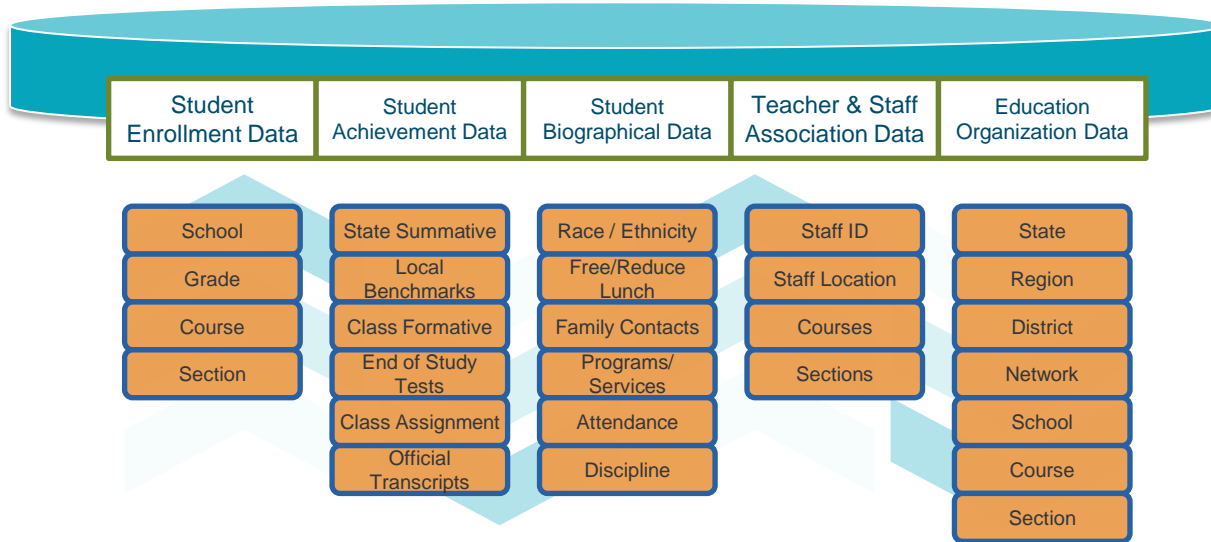
# App Example: Teaching & Learning Portal

A custom portal for educators could support a wide array of needs including: lesson planning, best practice collaboration, generating reports, and providing recommendations for educational content

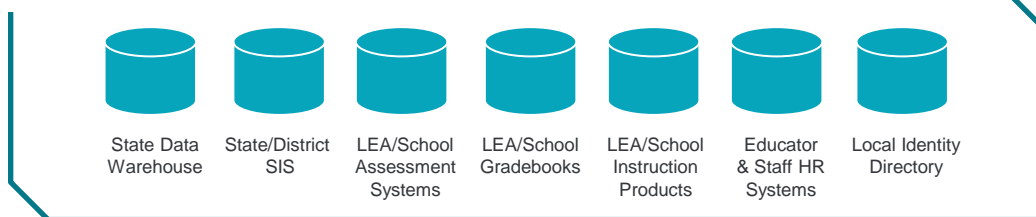
## SLC Technology Capabilities



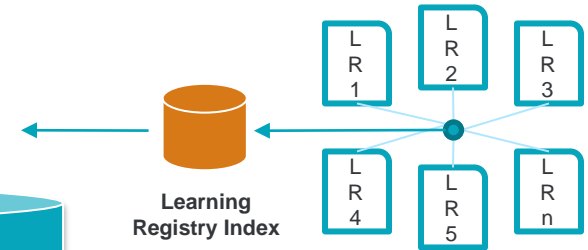
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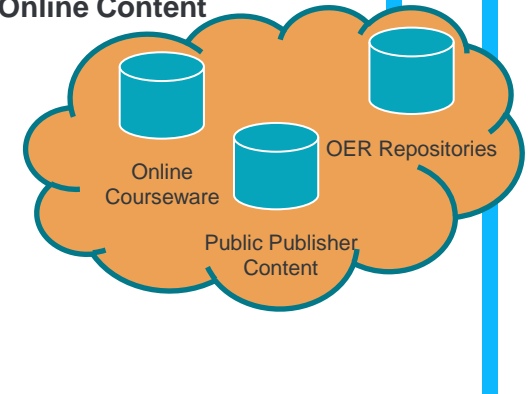
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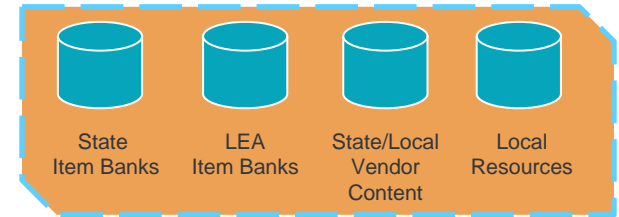
## Learning Registry



## Online Content



## SEA/LEA Content



# Example Scenario

# Adaptive Assessment

## Current pain points

- Time-consuming and costly data & system integration
- Limited available data
- Inconsistent identity management
- Expensive range of semantics and associated schemas
- Opaque resources
- Limited discoverability

## Services from the SLC

- Richest possible instructional data with built in extensibility
- RESTful Data API to minimize systems integration cost
- Federated authentication and identity service
- CCSS Learning Map as canonical reference for Standards and Microstandards
- LRMI to improve indexing & search
- Learning Registry discoverability and tracking

# Many Providers Stand to Benefit



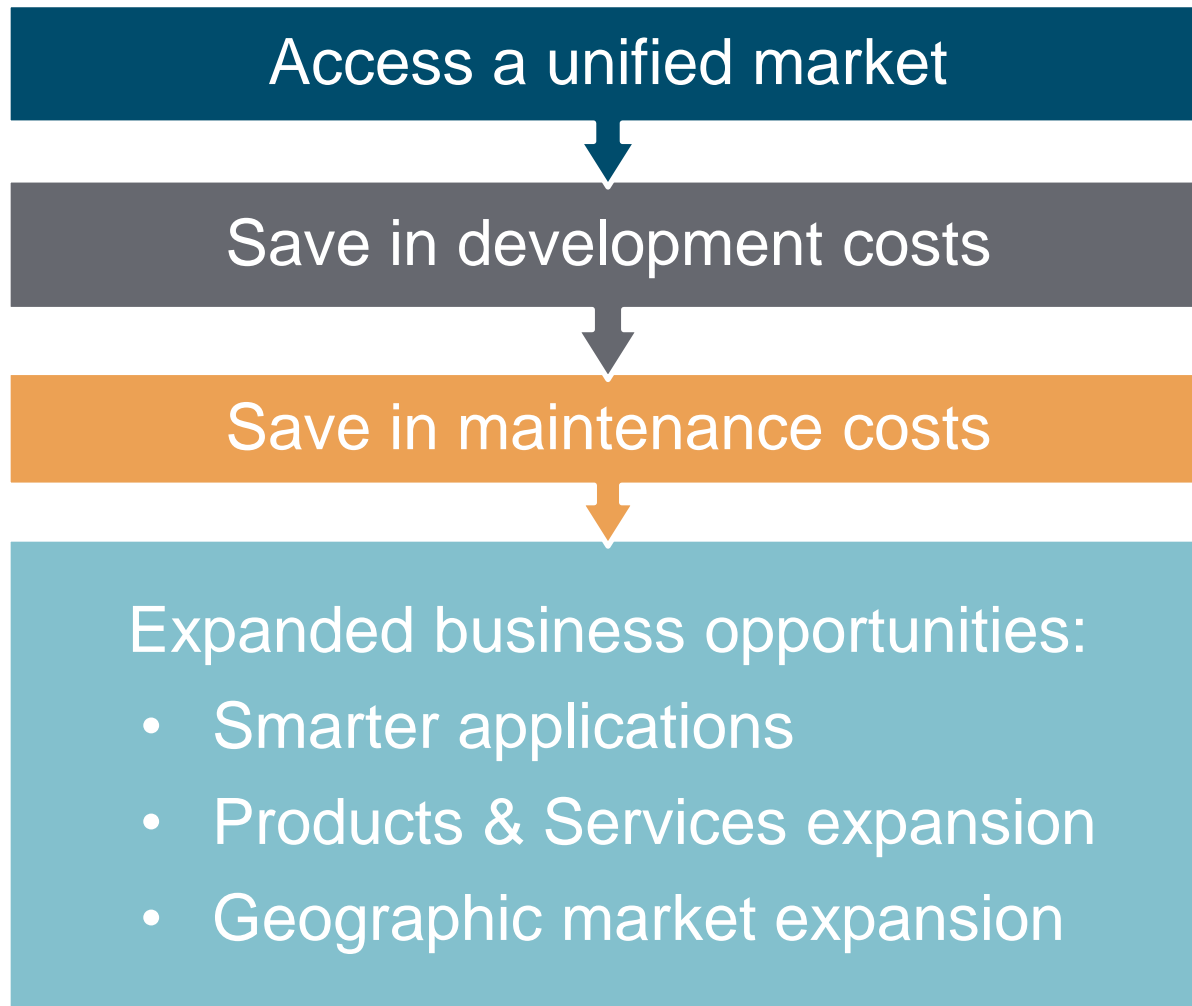


# How to Engage with the SLC

Stephen Coller

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# Key Benefits



# Key Milestones

- April: Final API Specs
- June: Alpha release
- August: Early app prototypes available
- December: v1.0



# How to Engage

- ❑ Subscribe for updates at [slcedu.org](http://slcedu.org) and [@slcedu](https://twitter.com/slcedu)
- ❑ Explore our website & download tech docs
- ❑ Meet with us:
  - SIIA, ISTE, OSCON, iNACOL or EduCause
- ❑ Register for Codeathons beginning in July 2012
- ❑ Partner with the SLC on a public launch
- ❑ Contact Jason Gruber at [jgruber@slcedu.org](mailto:jgruber@slcedu.org)

*SEA/LEA existing providers will be contacted directly regarding launch preparations*

# Questions & Answers