
CSU Learning Platform Services Webinar

Managing the LMS as a Hub Amidst a Highly Federated Spectrum of Learning Apps/Platforms

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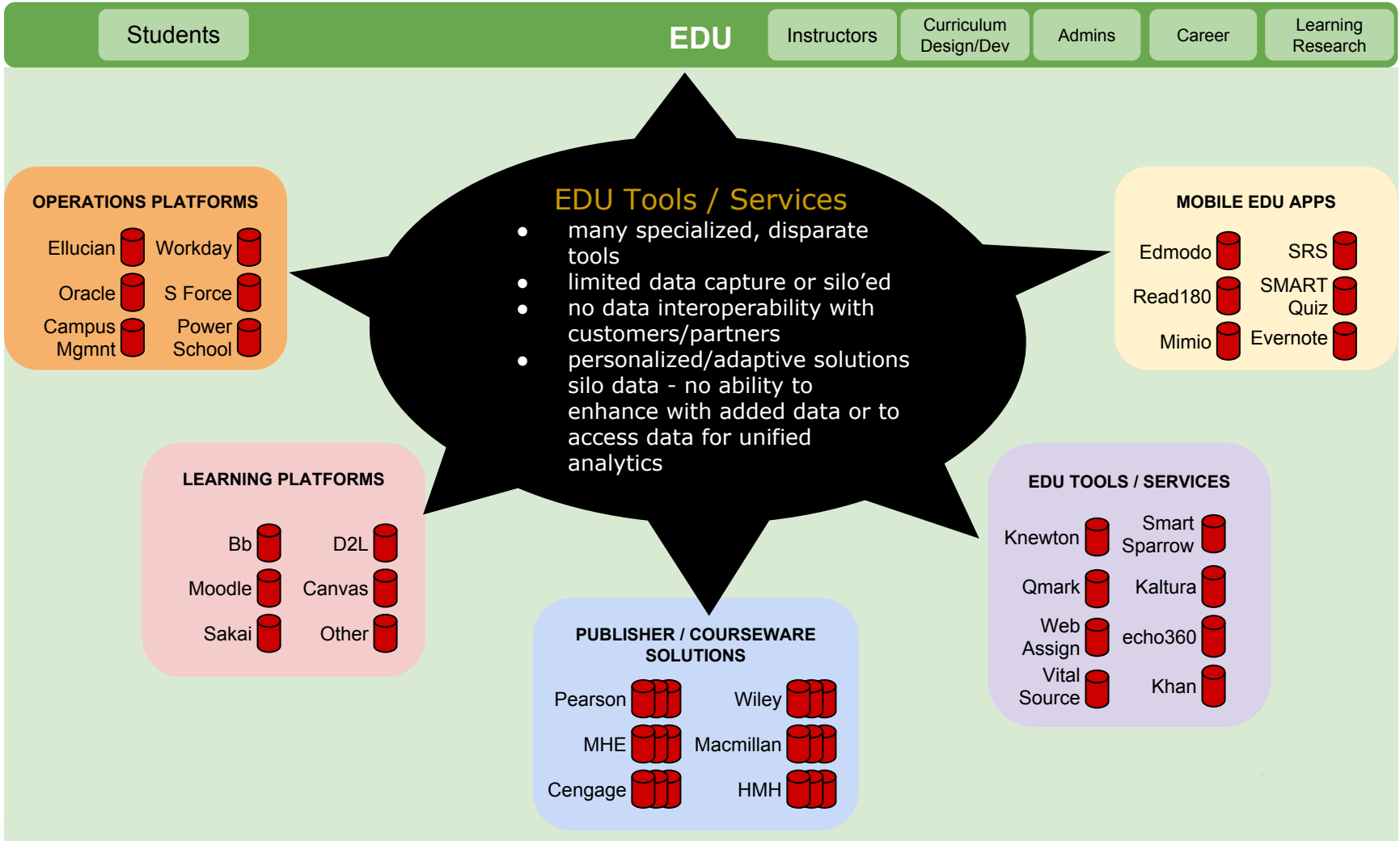
Background

Some Key Considerations as a Premise

- A primary LMS “hub” is one option BUT likely multiple LMSs or other learning apps/platforms that have some overlapping LMS capabilities
 - One size does not necessarily fit all - recognize and evaluate the specialized online learning requirements both unique and in common across the spectrum of programs/curriculums.
 - Constructing a Learning Platform Services (LPS) service framework should not imply ground up build out -- it should include a mix of partner/provider solutions, open standards frameworks, and internal “gap” build / integrate.
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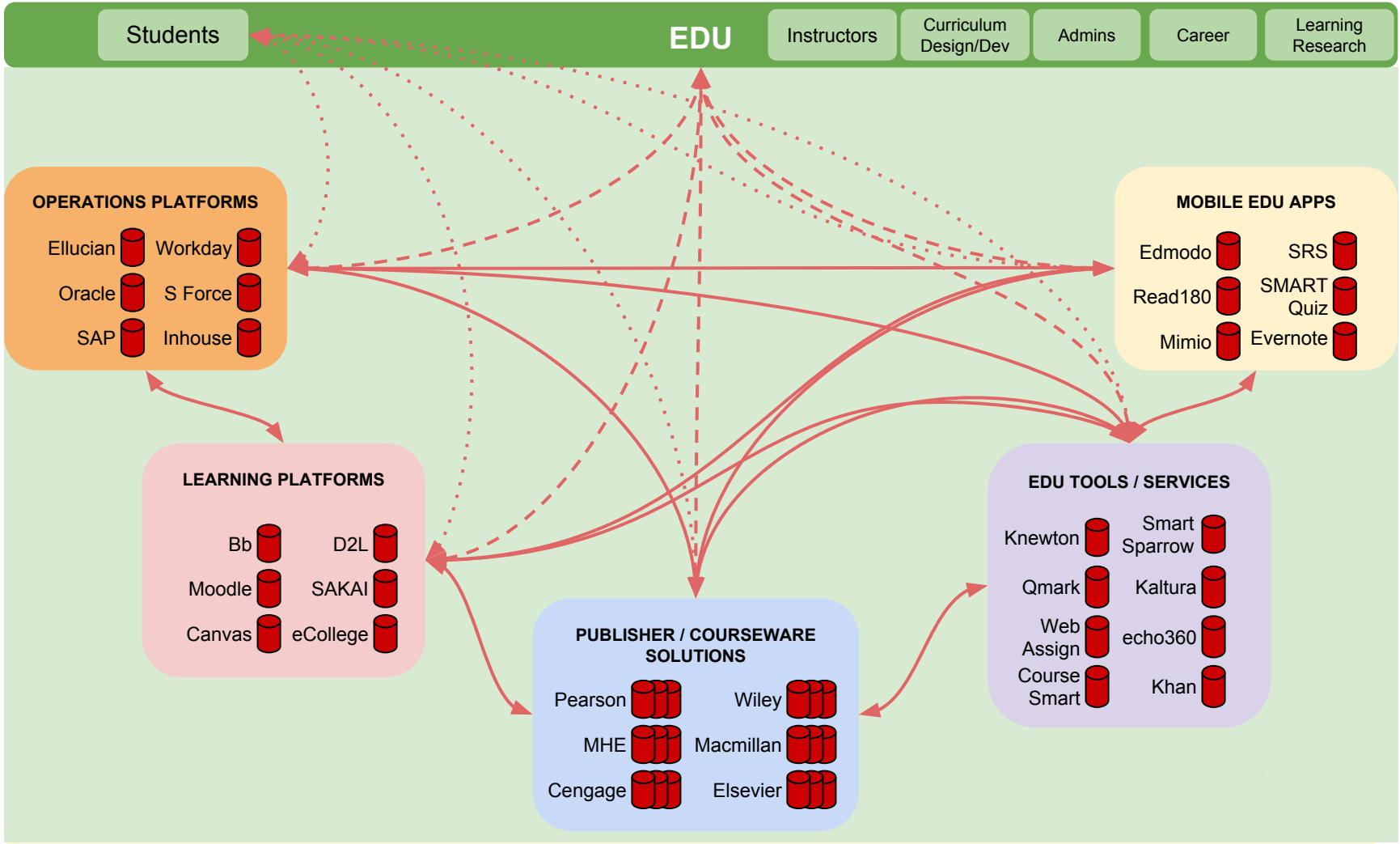
Background

Highly Federated Collection of Platforms and Applications



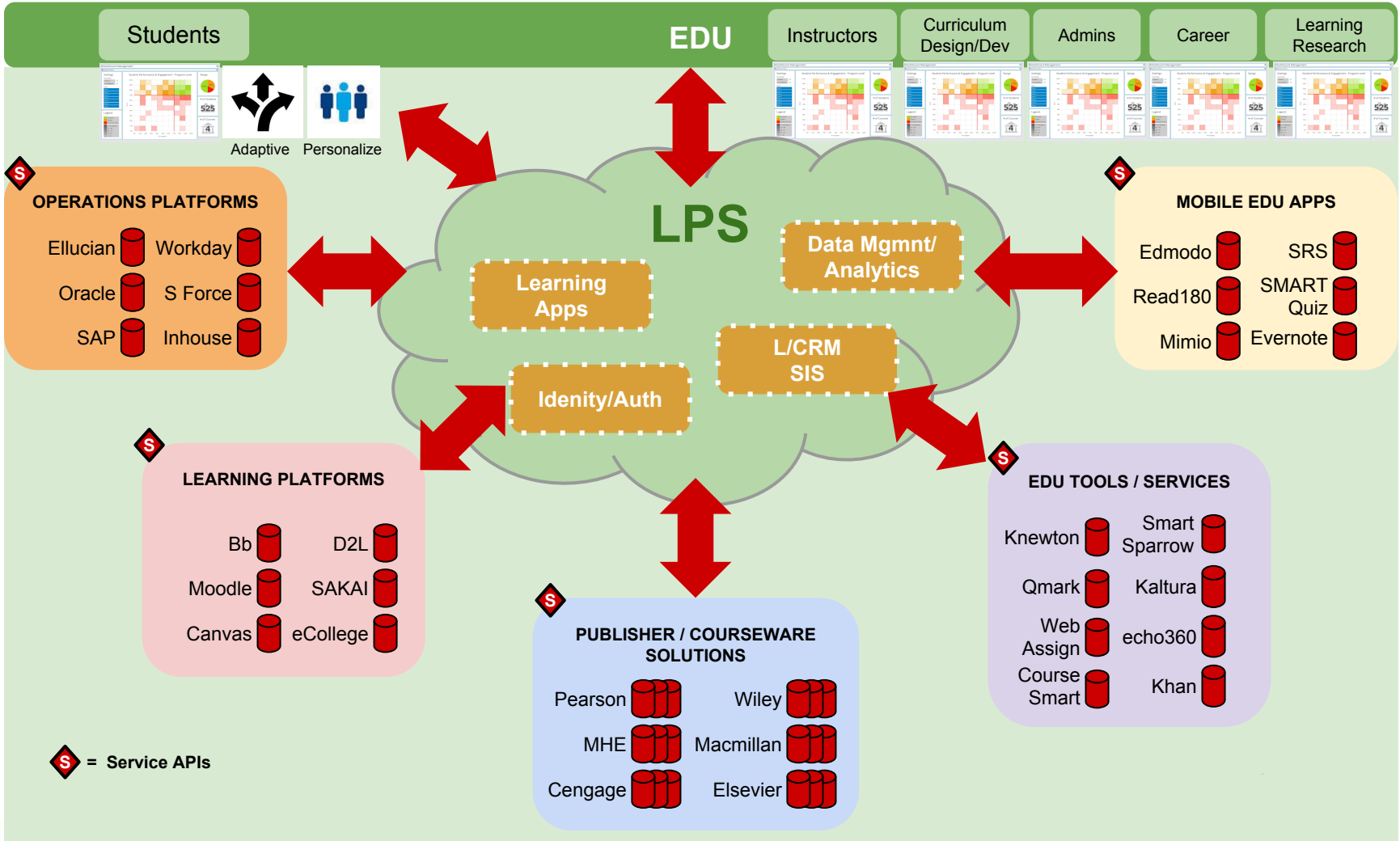
Background

Challenged/Impossible Integration Across the Federated Ecosystem



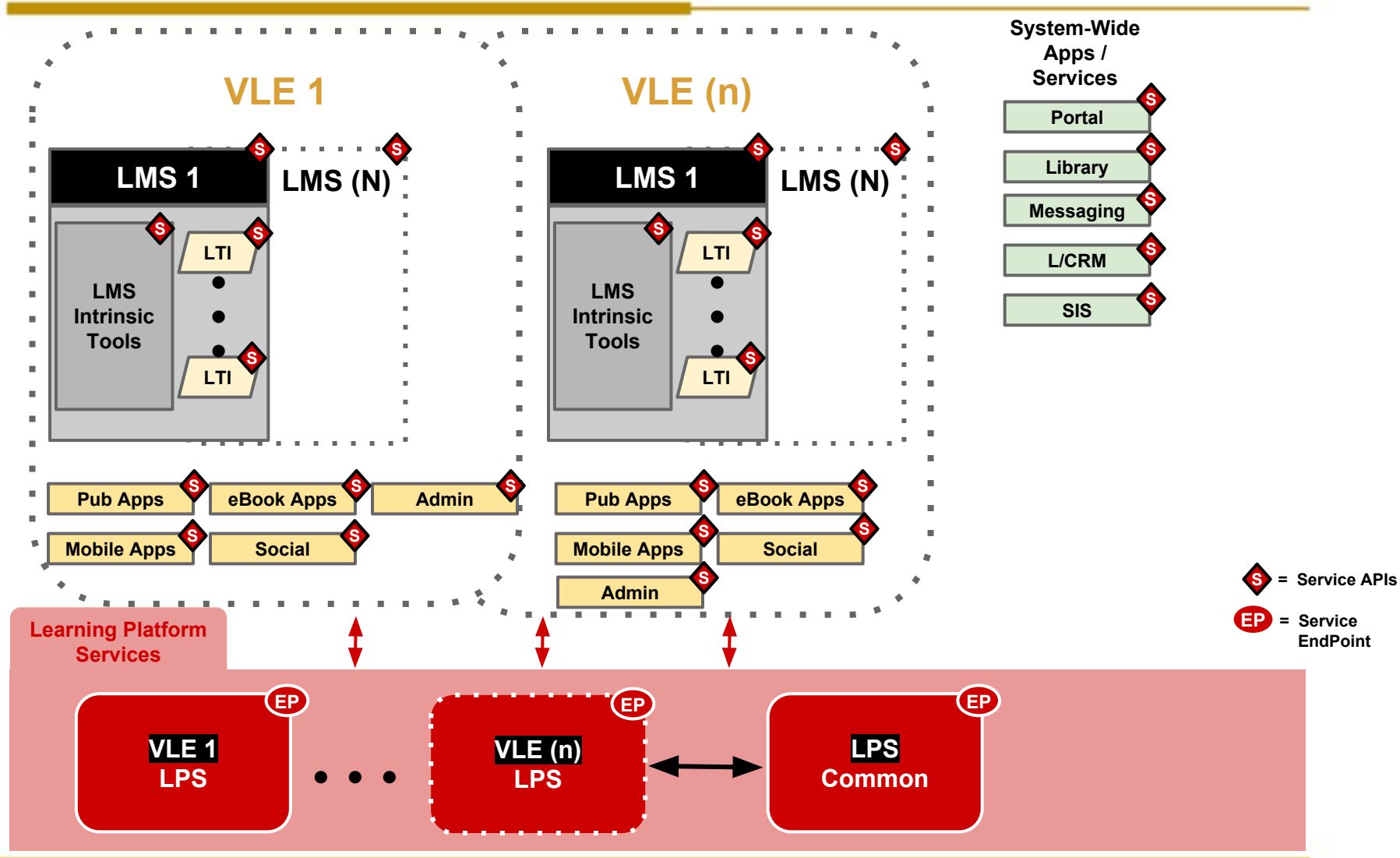
Background

Enabling Ecosystem Wide Foundational Services for Interop / Unity



The .EDU Online Learning Enterprise

Services “Bind” the Required Federated Environment



The Role of the LMS(s)

Orchestrate an Online Learning Experience

- Online learner/instructor on-ramp to and container for program/course curriculum imprints
 - Workflows for curriculum consumption and instruction
 - Interoperable with multiple learning activity based content and functionality based applications
 - Some intrinsic tools / capabilities in common across all programs (e.g. Messaging, Discussion, Assignments, Grading etc)
 - Potentially multiple LMS / LMS-like delivery platforms required to optimize for specific program/curriculum requirements (e.g. CBE, Adaptive, Instructor vs Independent Led, Training etc)
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The Role of the Learning Applications

Specialized Apps Meet Program/Curriculum Requirements

- Introduce specialized, feature rich content and / or functionality delivery
 - Different discipline curriculums require different Learning Apps
 - Standalone and Learning Sequence or equivalent “container” or workflow integrated modality required
 - Untethered mobile modality needs to be integrated or at least associated with the learning context / workflow
 - Common app framework interoperability (via LTI) to support “plug-in” use of apps in context
 - Apps required to be learning data interoperable, not just standalone silo’ed analytics
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The Role of the Learning Data/Analytics

Data Services “Bind”, Measure and Data Driven Action

- Federated platform/app data collection via minimally-invasive, light-weight, learning data collection
 - Underlying learning data management / analytics services stack acting as the primary collection service endpoint
 - Data Management/Analytics services stack requires:
 - a highly scalable event store (a.k.a. LES/LRS),
 - data access APIs
 - visualization/dashboarding support
 - notification/alerting
 - and intrinsic support for computational/algorithmic service extensions to drive “intelligence” based capabilities.
 - Enable unified data driven capabilities such as dashboard role based analytics insights, predictive / at risk detection, curriculum/content efficacy, personalization, adaptivity etc.
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The Role of Standards...

Key Foundational Services MUST Be Flexible and Interop

Service Level:

- Learning App Framework: IMS LTI
- Learning Data/Analytics: IMS Caliper, xAPI
- Identity/Auth: CAS, Shibboleth, OAuth (SAML)
- Learning Context: IMS LIS, One/OpenRoster

“Below the Service” Level:

- Content Interop: IMS CC, LTI, QTI/APIP, etc
 - Curriculum: BLOOMs, SOLO, etc
 - Many More...
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Discussion
