Welcome to the 2017 IMS Europe Conference

THANK YOU 2017 IMS Europe Conference SPONSORS





Platinum Partners



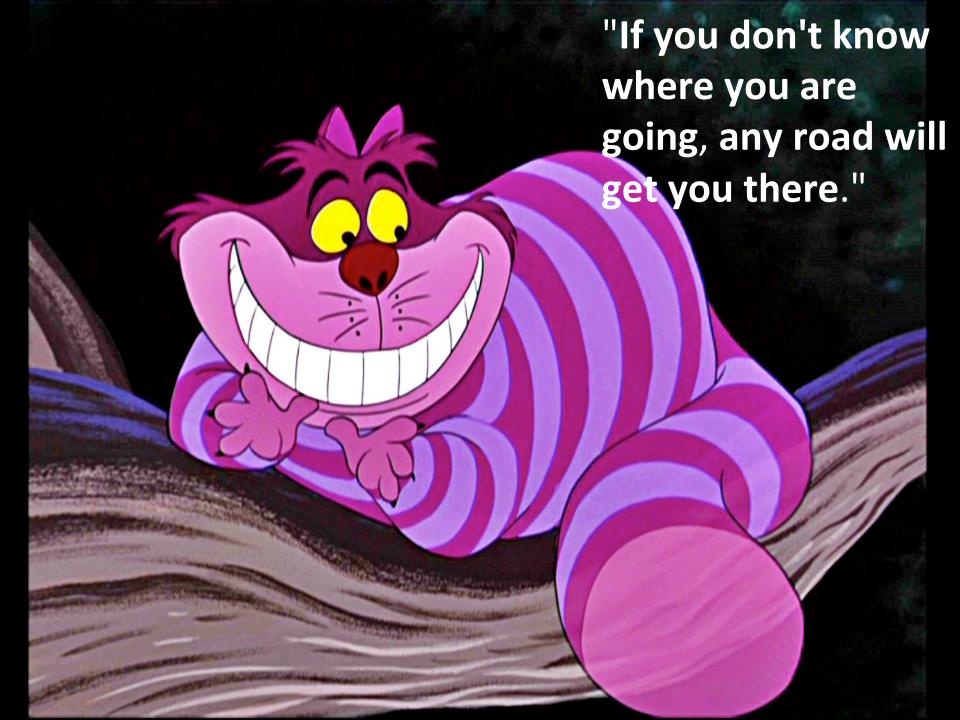
Blackboard



VitalSource



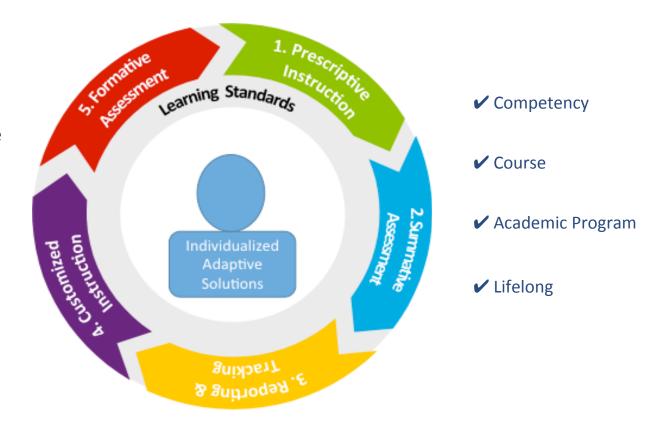
IMS Global Learning Consortium imsglobal.org rabel@imsglobal.org @LearningImpact





Engaging, Data-informed Learning and Instruction

- ✓ Adaptive learning software
- Multiple applications right now
- Multiple applications over time



Tools for Teaching & Learning

The Ed Tech Market Map









WyzAnt

Online to Offline



Curriculum

Production

M Apex Learning

CENGAGE Learning

ACHIEVE3000





沪江网

open english

nored**ink**

CBINSIGHTS

Colingo

51Talk

无忧英语



S GAOSI EDUCATION 高思教育







TutorGroup



The "Tool Theory" of EdTech

- 1) Learning requires individual agency
- 2) The goal of education is to **ignite** learning agency
- 3) Educational technology is a "tool set" for teachers and students to aid #1 and #2
- There will be an ever expanding set of EdTech tools that need to improve over time
- 5) The EdTech community benefits from "an ecosystem" that enables choice, usability, combination, evaluation and analysis of usage and efficacy



Expectations

- ☑ Greater expectations that technology should improve teaching and learning
- ☑ Proliferation of innovative digital learning tools – that need to work together
- ☑ Expectation that the ecosystem of tools and cooperation go beyond any single platform

THE EDTECH ECOSYSTEM IS CONSTANTLY EVOLVING

Key Industry Question Remains, How Does The Ecosystem Shake Out?

BACK OFFICE PLATFORMS

ADMINISTRATIVE & PLATFORMS

SIS/MIS

LMS

FINANCIAL

OTHER

HR/RESOURCE

COMMUNICATION

SECURITY

MDM

DATA ANALYTICS

CLASSROOM FOCUSED PLATFORMS

INSTRUCTIONAL SUPPORT TOOLS

ASSESSMENT

PRODUCTIVITY

CLASSROOM ORCHESTRATION

AUTHORING

COLLABORATION

PRESENTATION TOOLS

LESSON PLANNING

BEHAVIOURAL MANAGEMENT

OTHER

KEY INDUSTRY
QUESTIONS

Platform Interoperability



Data Integration



Who Is The 'Centre Point'?

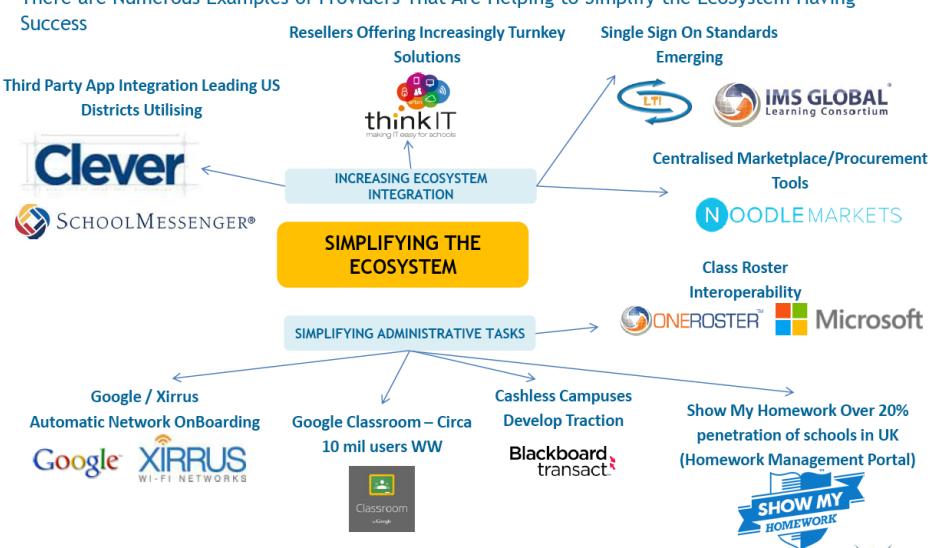


Where Does The Data Reside?



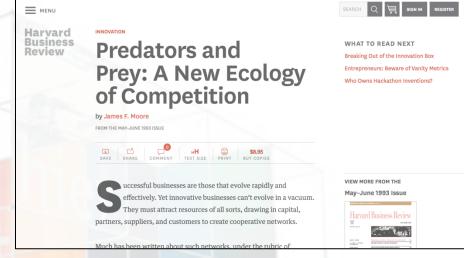
END USERS NEED HELP SIMPLIFYING THE ECOSYSTEM

There are Numerous Examples of Providers That Are Helping to Simplify the EcoSystem Having





Business Ecosystem - Dr. James F Moore



A business ecosystem describes the structure and behaviour of a network of high-tech organisations that share a key technological platform and the ways individual firms can flourish in such an environment.

Irrespective of an organisation's individual strength, all actors in a business ecosystem are connected and share the success or failure of the network as a whole.



The Role of **Technical Standards**:

(a) Seamless Integration to enable Choice, **Agility, Usability**

(b) **Data Definitions** to enable Personalization, Insights, Adaptation

(c) at Internet Scale and Real-Time

IMS Has Had Equal Governance From Leading States, Institutions and Suppliers Around the World Since Its Inception

Over 115 leading HED institutions, 50 school districts, and more than 285 edtech suppliers worldwide, are working together to enable academic transformation by creating an expansive set of interoperable products to support next generation learning.





IMS Missic

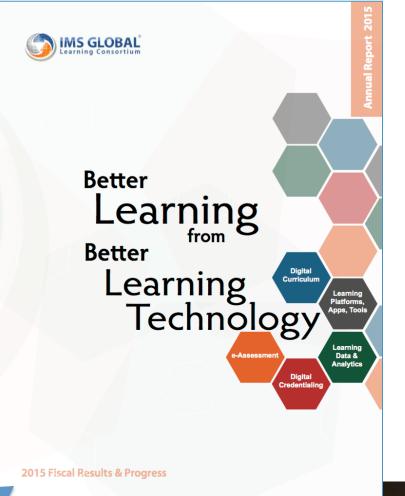
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IMS Global Lea

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Better Learning From Better Learning Technology™

Watch 3-Minute Overview

IMS Annual Report

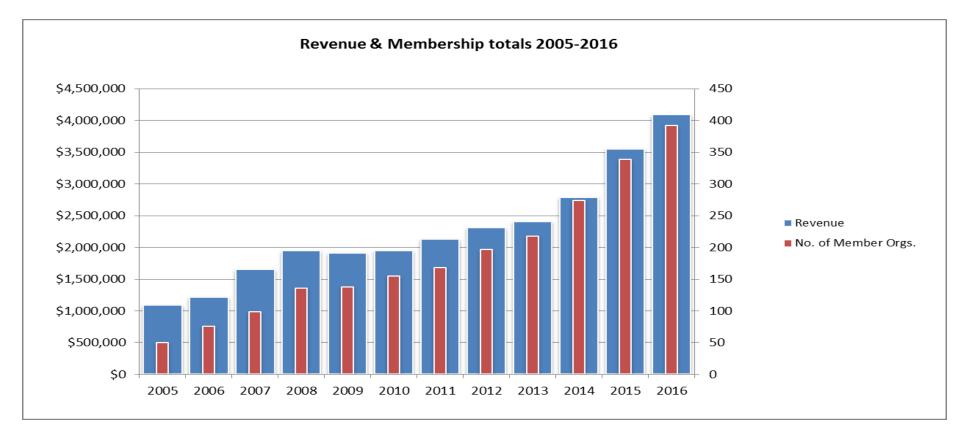
Learning Impact Research Report

Learning Impact Awards

Learning Impact Leadership Institute



400+ Members and Growing



Accelerating Mainstream Adoption

of Innovative Technologies for **20+ Years**

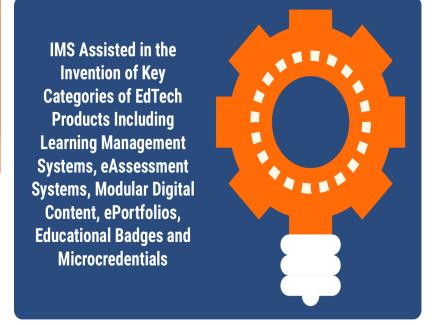
Conducts and
Publishes an
Annual Report on
Advancements in
"Learning Impact"
in Conjunction
with an Annual
Conference and
Awards Program







Since its inception in 1995, IMS has generally been 3–5 years ahead of identifying education technology trends and accelerating mainstream adoption of innovative solutions thereby offering inspiration and direction for future digital technology planning.







IMS Europe!







mozilla





Google





















www.uoc.edu





























@LearningImpact









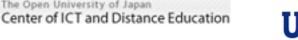
























Universiteit van Amsterdam

The Open University of Japan

































UNIVERSITY OF

TORONTO























UNIVERSITY OF **CALIFORNIA**

















Arizona State UNIVERSITY









University of Michigan





COMMONCARTRIDGE®

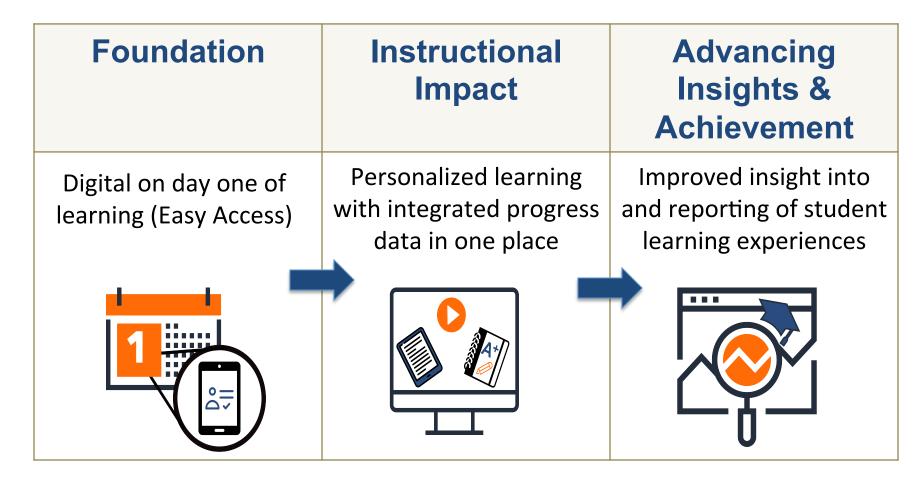
Essential Areas of Impact for EdTech & **Standards:** K-12, HED, Career



STANDARDS EXCHANGETM



Digital Learning rEvolution Program



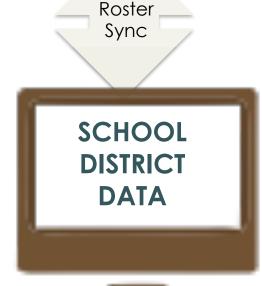
Example: Houston ISD Ecosystem



IMS Open Standards: LTI® Thin Common Cartridge®

Launch,
Search,
Authorize,
Results

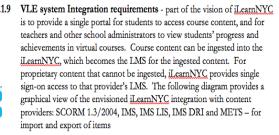




OneRoster™

We've Gone From This (confusion):





- Z39.50 for federated searching including the ability to transform and import records
- ECL, SRW, DSM, LORN, and Google for federated searching
- OAI-PMH and LORAX for harvesting
- LDAP, CAS and External Authentication (Shibboleth and Microsoft ISA) – for authentication
- SOAP and WSDL for web services
- RSS and Atom for publishing

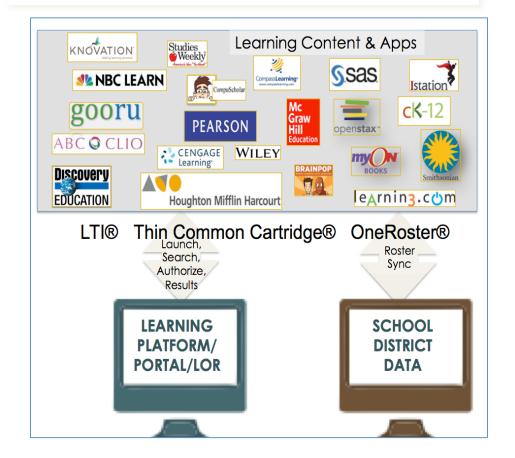
Department of

26 standards

Education

- ODRL for storage of Digital Rights
- MADS, MARC 21, MARCXML and MODS for library system interfaces





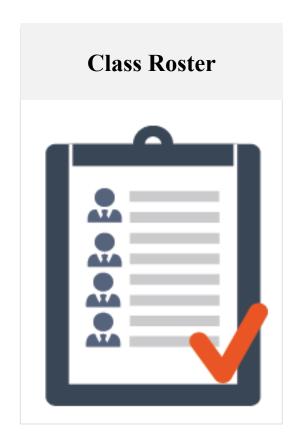


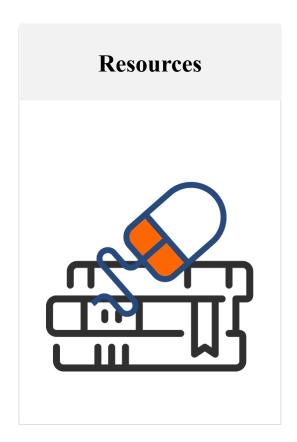
What is OneRoster?

The standard for securely sharing *class rosters* and related data between a student information system (SIS) and any other system, typically a content application or learning management system (LMS)



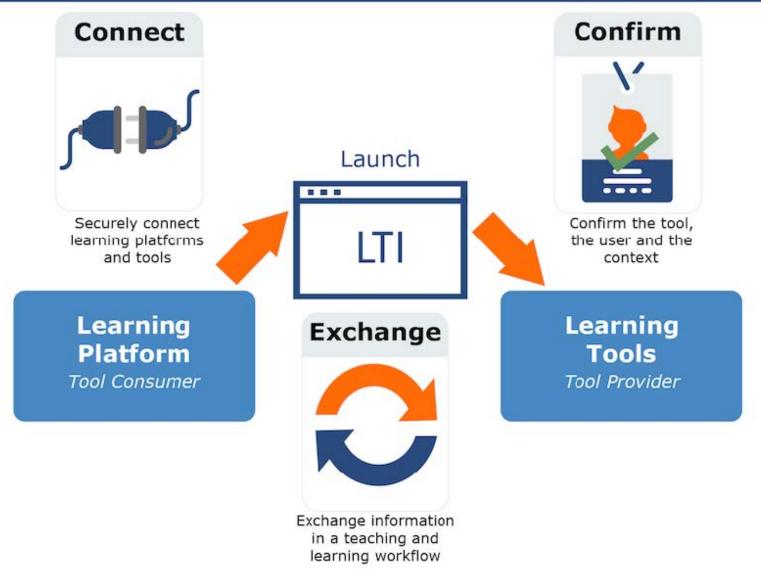
OneRoster 1.1 Services







Essential Features of Learning Tools Interoperability® (LTI®)





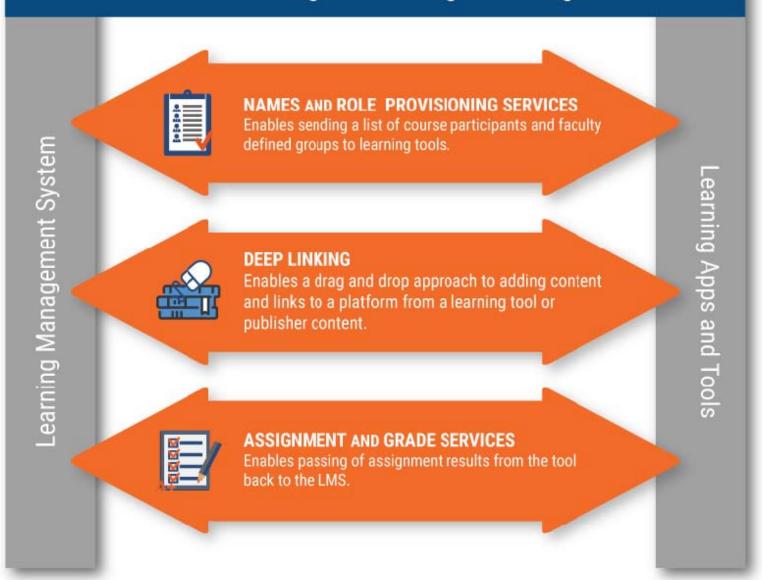
The Impact of LTI

- Has reduced integration time and cost by a factor of 100-1000x
- ☑ Ubiquitous across learning platforms of all types (HED, K12, Competency-based, MOOCs, discipline specific, etc.)
- ✓ Several hundred certified LTI apps of all types, including digital resources
- ☑ Foundation for interoperable edtech data ecosystem (owned by education sector)

LTI Advantage Builds on LTI

for the Trusted Exchange of Teaching & Learning Activities

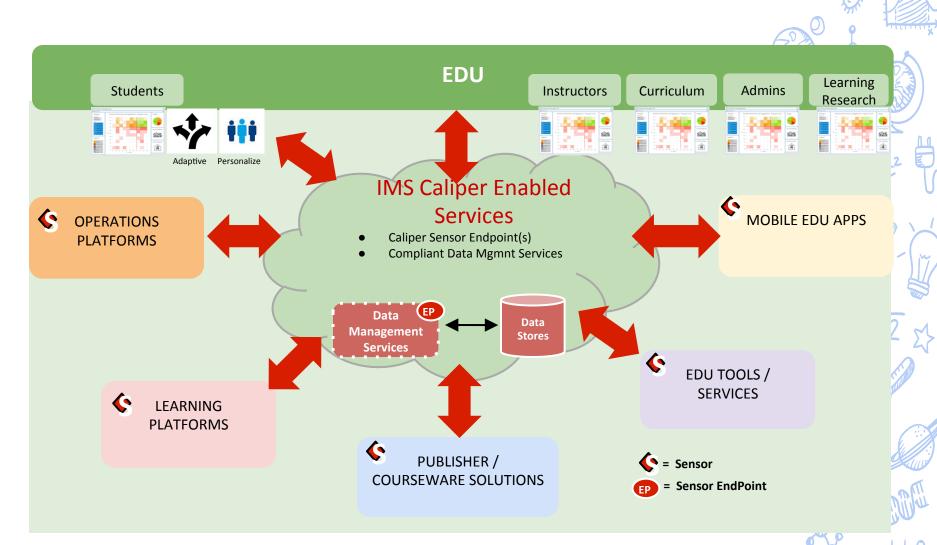
The
Next
Wave
of
LTI
Adoption
is
Coming!





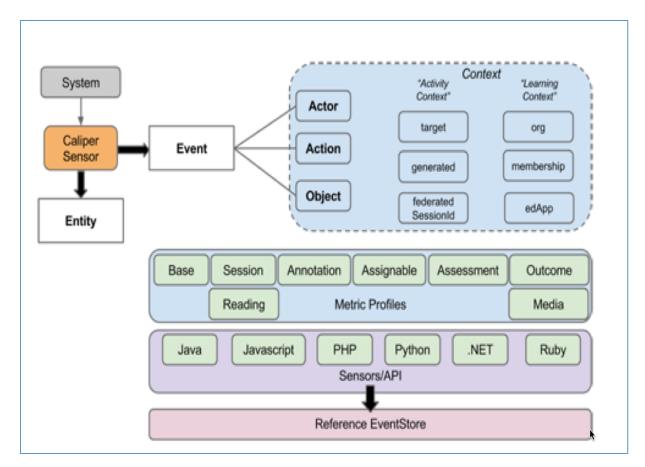


Caliper = Learning Analytics Ecosystem





Caliper: Semantic, Context-Rich Data for Learning Analytics





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University of Phoenix®

















Blackboard







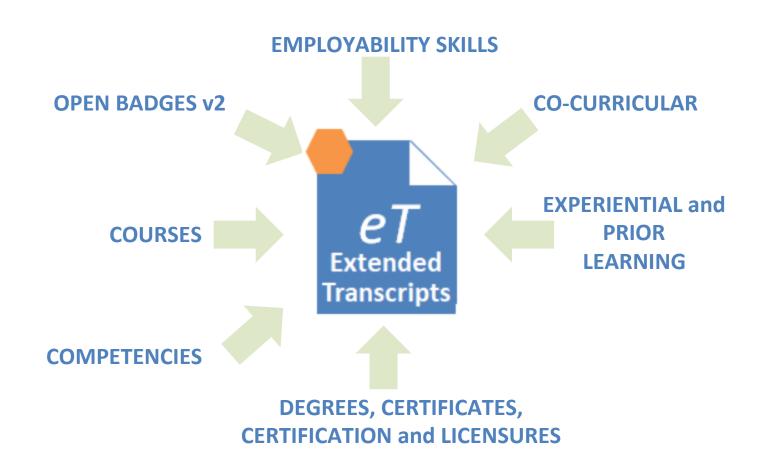








Extended Transcripts





Scope of the eT Standard Formal, informal and employer-centered learning



Search by Supplier

Enter product name

Search by Registration Number

IMS Ecosystem:

Items Per Page



□ Compare Against Baseline ?

Refine by





eSync Training Product:

Adobe Connect LMS LTI By ESyncTraining V1.7.6 LTI V1.0 Certified



Agilix Labs, Inc.

Product: Agilix Learning Services 2010.3 LTI V1.0 Certified CC V1.0 Certified



Agilix Labs, Inc.

Product: **Agilix Learning** Services 2012.1 LTI V1.1 Certified



Product: **AIH Learning Portal** V1.1 LTI V1.0 Certified



American University in the Emirates

Product:

Akademia V1.1 LTI V1.0 Certified LTI V1.1 Certified

ALEKS®

McGraw-Hill Education

Product:

ALEKS 2012.3.26

LTI V1.1 Certified

McGraw-Hill Education



Product:

ALEKS 2012.2.7 LTI V1.0 Certified



Blackboard, Inc.

Product: ANGEL V8.0 SP8 CC V1.2 Certified



Apex Learning

Product:

Apex Learning LTI

LTI V1.0 Certified

PREVIOUS 123456789

NEXT >

Higher Education (HED) Playbook: Resources to Help Institutions Transition to a Fully Integrated Digital Ecosystem to Support Next Generation Learning

The HED Playbook is an easy-to-use reference and resource center for academic and IT leaders who are implementing a digital transformation strategy to support personalized learning to improve outcomes. Created by IMS Global member institutions, these resources are designed to help institutions of all sizes shorten the learning curve around the adoption of IMS interoperability standards to create a plug and play integrated teaching and learning ecosystem.









https://www.imsglobal.org/HED



Final Thoughts

- The growth of the educational technology sector worldwide is dependent on an efficient ecosystem that enables innovation
- That ecosystem is **not likely to come** from one vendor or a small number of vendors
- IMS Global has achieved critical mass in North America K-12 and HED as a framework for connecting edtech and publisher digital products
- Will IMS standards achieve critical mass in other parts of the world? Yes, with the right partnerships.



Upcoming IMS Meetings & Deadlines

- IMS Europe Conference, 29 30 Nov 2017, London, England
- Open Badges Summit, 1 Dec 2017, London, England
- February Meeting and Digital Credentials Summit, 26 Feb to 1 Mar 2018,
 Scottsdale, Arizona
- Learning Impact Leadership Institute, 21-24 May 2018, Baltimore, Maryland
 - Call for Presentations closes November 17 www.imsglobal.org/lili-2018-call-proposals
- 2018 Learning Impact Awards Nominations, 3 Jan 2018 to 28 Feb 2018
- View all IMS events at <u>www.imsglobal.org/events</u>



Thank You

Q&A

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