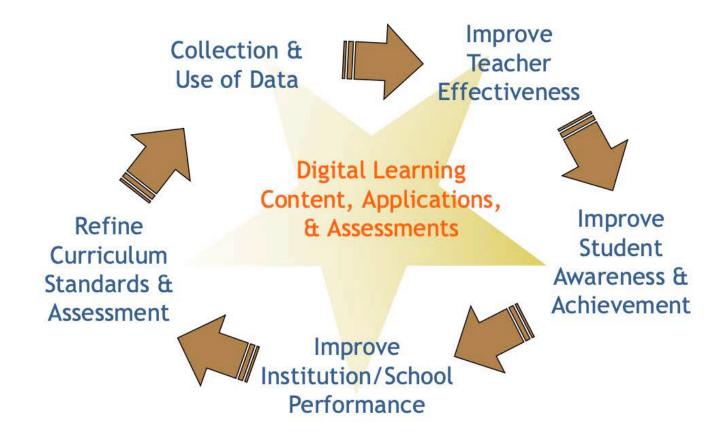


Thank You for an Amazing 2019!



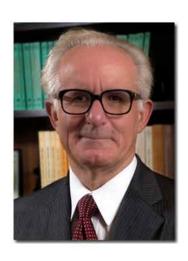


Continuous Improvement - Supported Digitally



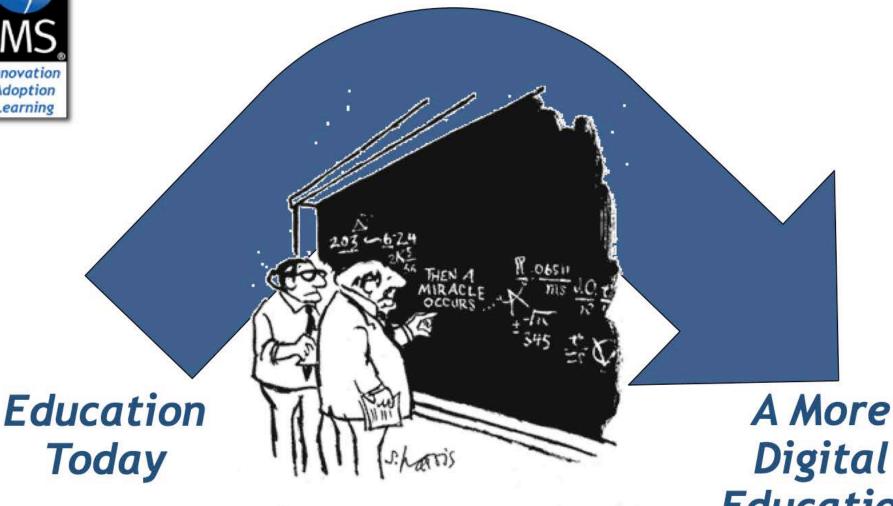


"It is difficult to determine the return on investment in learning technology - not because of the usefulness of the technology but rather because of our lack of understanding of what it means to improve learning."



John V. Lombardi President, Louisiana State University System from IMS Learning Impact '08





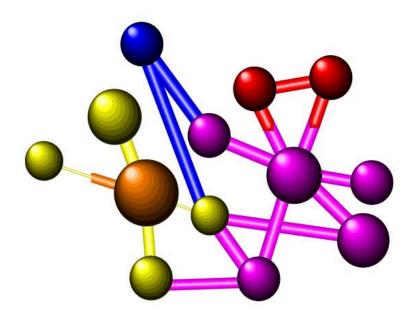
"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO, "

Digital Education



The Role of Interoperability Standards

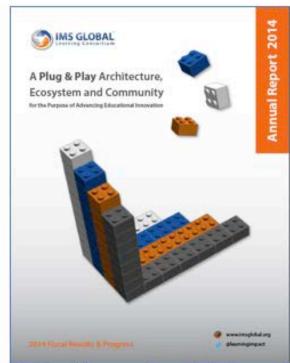
 Enabling flexible construction and evolution of federations of complementary learning tools



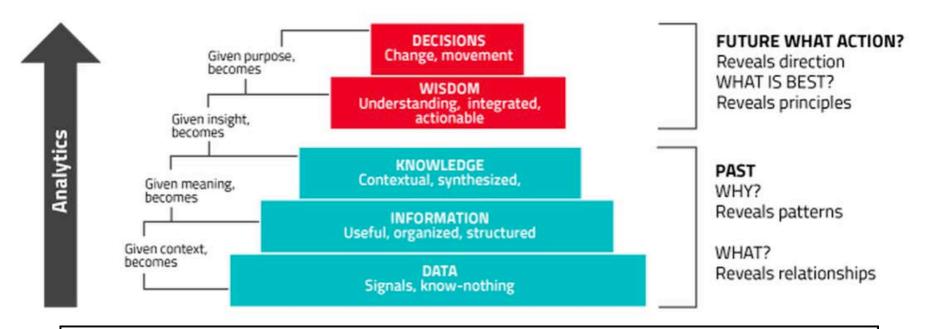


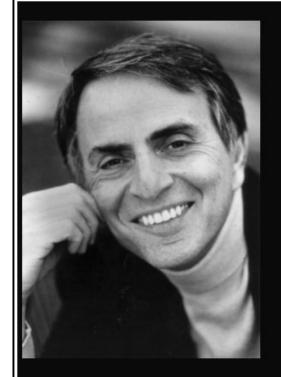
Caliper Learning Analytics: No Hype – Just Data

Rob Abel
Chief Executive
IMS Global Learning Consortium
rabel@imsglobal.org
@LearningImpact



http://www.imsglobal.org/



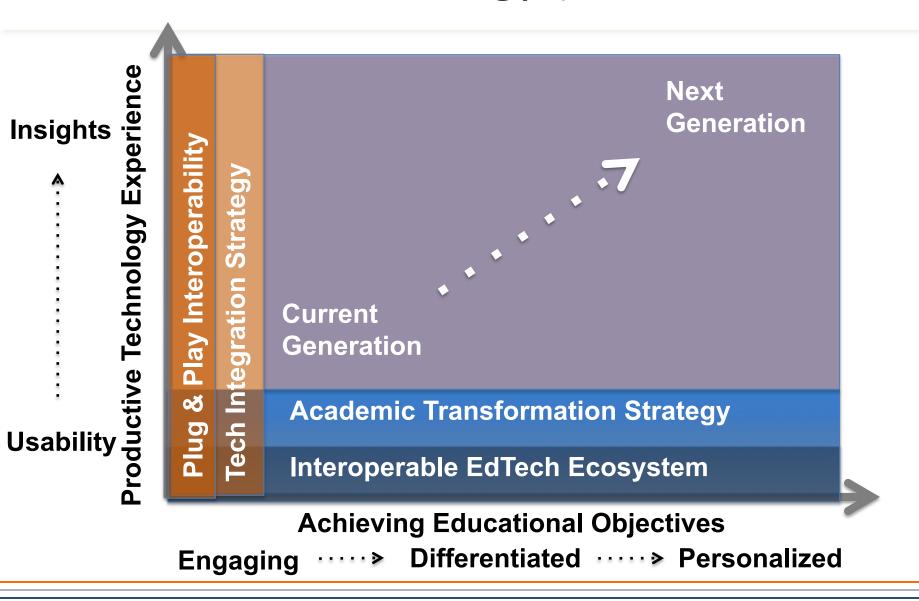


With insufficient data it is easy to go wrong.

(Carl Sagan)

izquotes.com

Transformation Strategy (IT and Academic)



Published: October 10, 2012













Milestones in Medical Technology

From eyeglasses to the stethoscope to imaging the brain at work, a long list of inventions and innovations have changed medicine.

4 Previous

Next >

1250

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Stethoscope

René Laënnec, a French physician, invented the stethoscope, a trumpet-shaped wooden tube, to examine a very fat woman whose heart he could not hear by pressing his ear to her cheef.



Getty Images

Anesthesia

Dr. Crawford W. Long performed the first operation using diethyl ether as an anesthetic. He pressed an ether-soaked towel against the patient's face to put him to sleep, then removed one of two tumors from his neck. He billed the patient \$2, itemizing the cost of the ether as well as the operation.



NYPI /Science Source

Electrocardiogram

Dr. Willem Einthoven of the Netherlands invented the first practical electrocardiogram. The original weighed 600 pounds, had a water cooling system for its gigantic electromagnets and needed five operators. In 1924 he received the Nobel Prize in Physiology or Medicine for his invention.



Getty Images

Pacemaker

Dr. Seymour Furman, a cardiologist at Montefiore Hospital in the Bronx, succeeded in extending a patient's life by more than two months using a cardiac pacemaker, a large machine to which the patient was attached by a 50-foot extension cord. By the next year, portable versions of the machine were in use.

Fetal Ultrasound

Dr. Edward Hon of Yale reported using a Doppler monitor on a woman's abdomen to detect fetal heartbeat. Ultrasound's principles had been known for more than a century (a Swedish physicist, Christian Andreas Doppler, gave his name to the phenomenon in 1842), but this was its first use in prenatal care.



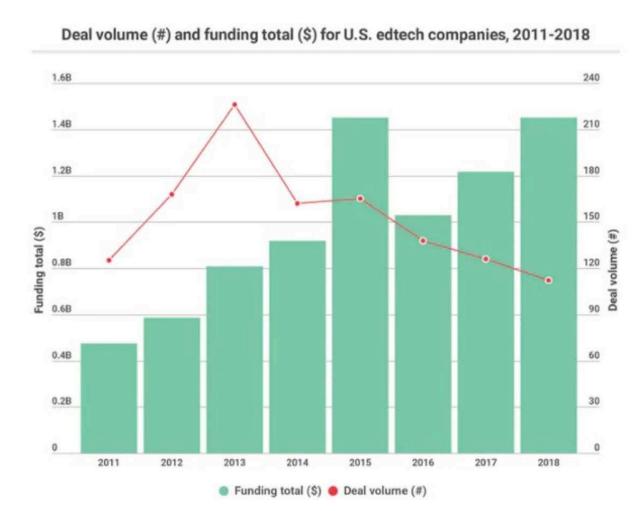
Todd Heisler/The New York Times

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US Edtech
Investments Peak
Again With \$1.45
Billion Raised in
2018 (Jan 2019)

US Edtech Funding Already Nears \$1 Billion in First Half of 2019 (Aug 2019)

Source: EdSurge

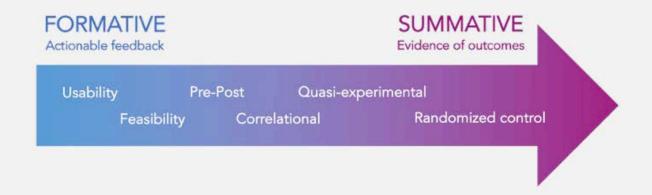




Every ed tech entrepreneur wants to develop an amazing tool that may one day become a household name. At NewSchools, we invest in ventures that also care deeply about impact. Through our ed tech accelerator NewSchools Ignite, we help entrepreneurs use research to generate data that can inform their product and business strategies.

https://www.newschools.org/edtechresearch/

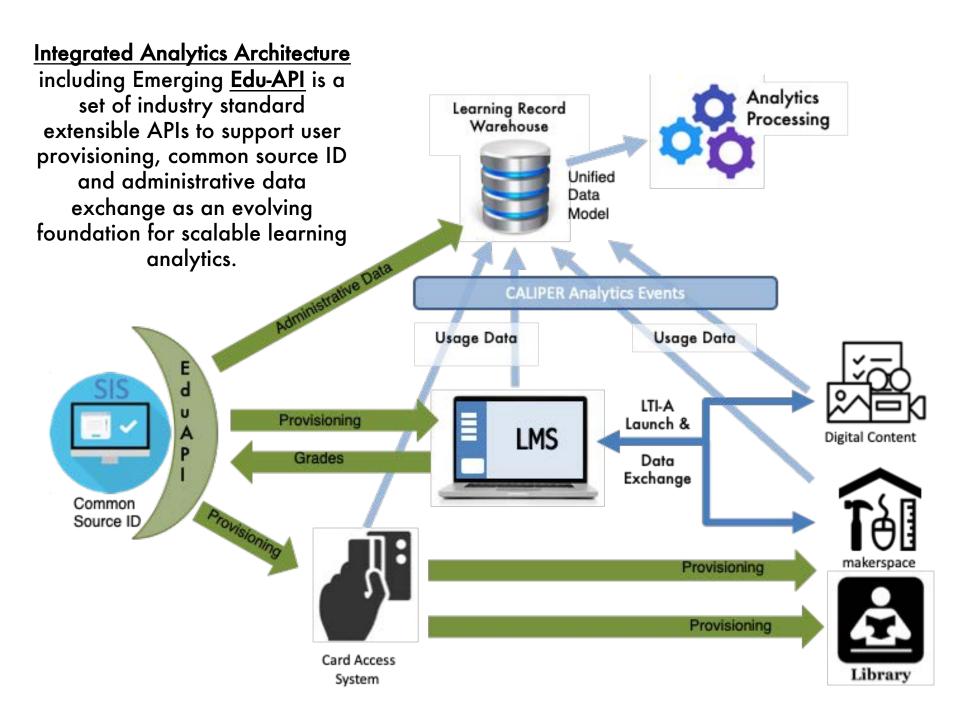
Research Continuum



As rigor increases, so generally does the cost of research. While investment in ed tech continues to grow, there will likely be additional resources available for research, but entrepreneurs need to be able to make the case that research is aligned with product and business goals.

Summary of research studies focused on measuring student outcomes

Study Type & Cost Range*	Prerequisites	Potential returns on investment	Potential funding sources

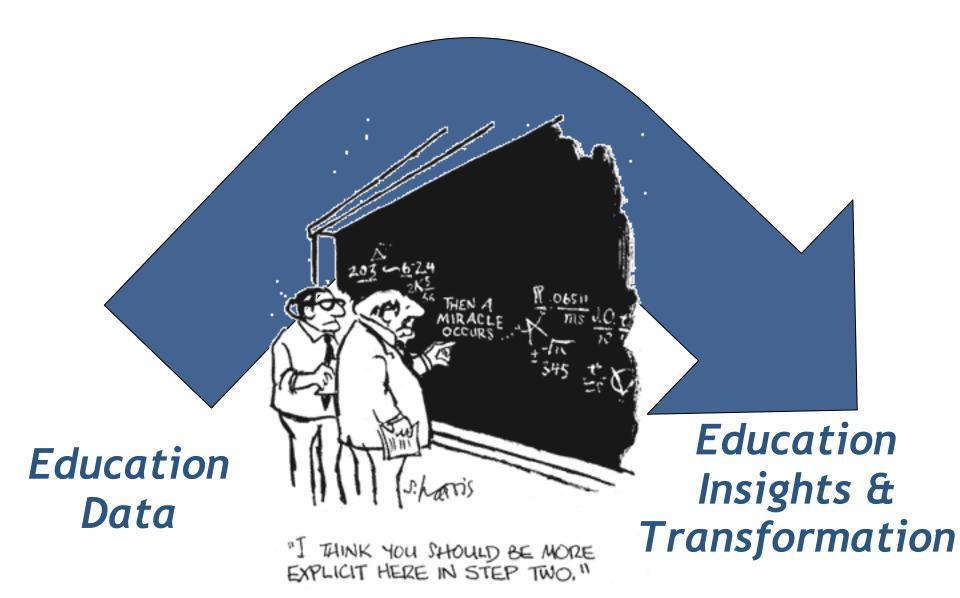


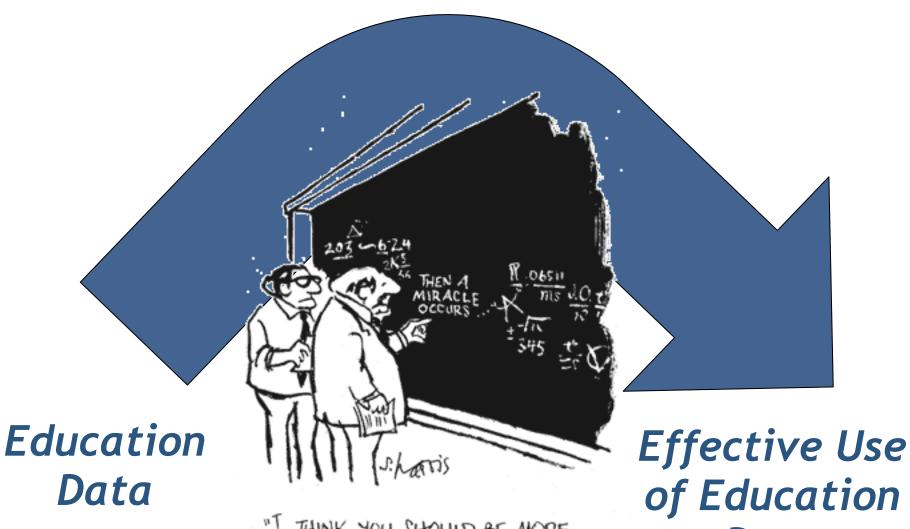
Program and Curriculum Management

Student Records and Micro-Enrollment Credentials and 2-Way Flow of Data & Interventions Classroom **Student Support Services** Management Learning **Personal Needs** Resources & Preferences **Learning Hub Learning Tools Integrated Progress & Assessment Messaging Dashboard Applications**

2-Way Flow of Data & Interventions

Analytics Data and Services





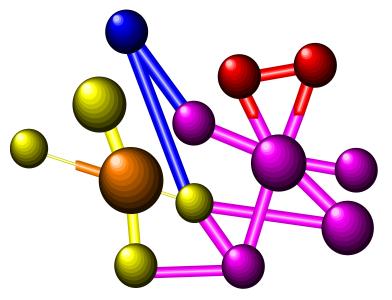
"I THINK YOU SHOULD BE MORE EXPLICIT HERE IN STEP TWO, "

of Education Data



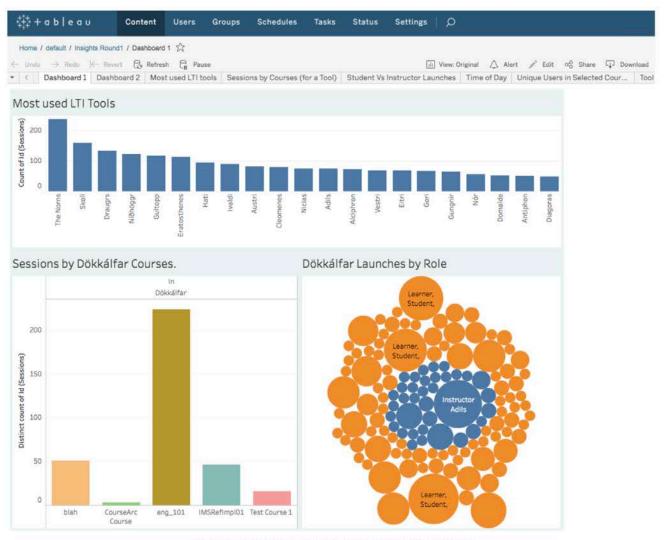
The Role of Interoperability Standards to Enable Effective Data

Enabling flexible collection, processing and connection of data, information and analytics results to the right system at the right time to improve student success





LTI Insights leverages the Caliper Analytics® standard for collecting learning data and combines it with the secure connectivity of Learning Tools Interoperability® (LTI®) to pull together powerful insights into how, when, where, and by whom learning tools are utilized in your online teaching and learning environment.



LTI INSIGHTS PROOF OF CONCEPT: DASHBOARD VIEW

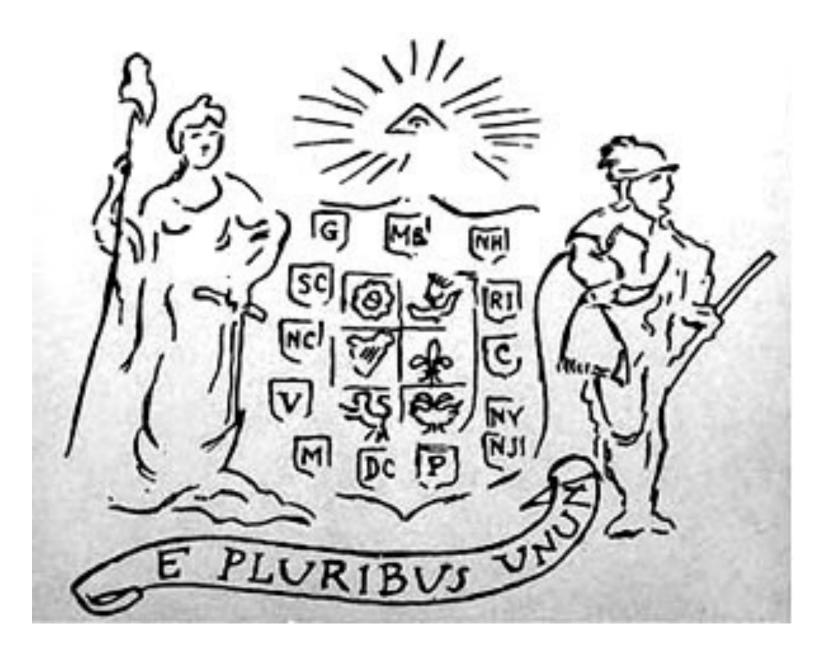
If everything seems under control, you're just not going fast enough."

— Mario Andretti



If you want to go fast, go alone. If you want to go far, go together."

— African Proverb



Thanks!

Rob Abel Ed.D.

Chief Executive Officer

IMS Global Learning Consortium imsglobal.org

rabel@imsglobal.org

Save the Date



LEARNING IMPACT LEADERSHIP INSTITUTE

18-21 MAY 2020 | DENVER, COLORADO

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- Twelve program tracks, over 120 breakouts, bootcamps, hackathons and much more to help organizations adopt and leverage IMS <u>edtech</u> innovation ecosystem
- Call for presentations to open in early October
- Details will be available at <u>www.imsglobal.org/lili2020</u>