

INBLOOM

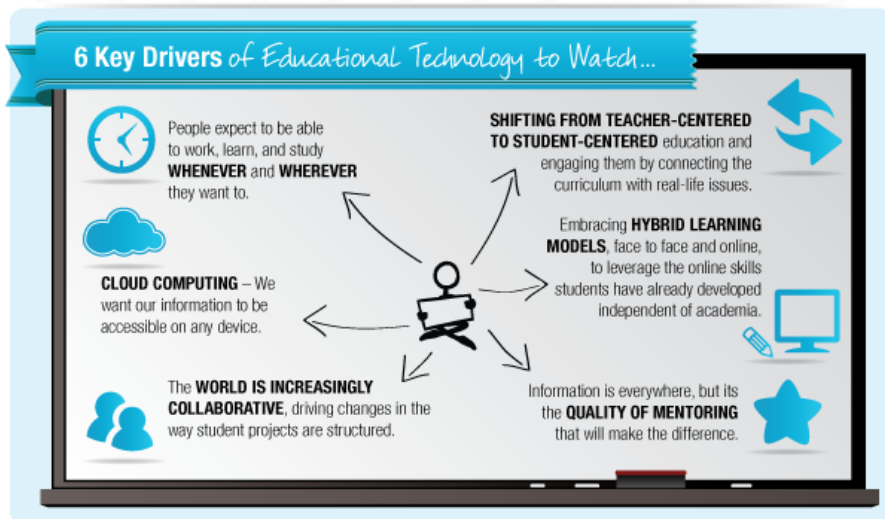
inBloom, formerly the Shared Learning Collaborative, is the first wide-scale, coordinated effort to make technology the disruptive, revolutionary force in education that it has been in almost all other industries. It was started by a consortium of nine states and organized by Council of Chief State School Officers (CCSSO). It is funded by the Gates Foundation and Carnegie Corporation.

inBloom is the ISLE foundation. It will offer Illinois a set of technology services that will allow districts to safely and securely provide teachers with instructional data and tools they need to help make personalized learning a reality for all students.

Illinois is an inBloom pilot site using Bloomington School District 87. The following inBloom technology key components will be included in the pilot.

- **Data Store:** Secure data management service that allows states and districts to bring together and manage student and school data and connect it to learning tools used in classrooms.
- **APIs:** Provide authorized applications and school data systems with access to the Data Store.
- **inBloom Index:** Provides valuable data about learning resources and learning objectives to inBloom-compatible applications.

ADVANCES IN TECHNOLOGY INFRASTRUCTURE FOR ACADEMIC EDUCATION TO CREATE PERSONALIZED LEARNING EXPERIENCES



Technologies to Watch: 3 Adoption Horizons

- Near-Term Horizon** (within 12 months) — Mobile Apps & Tablet Computing
- Mid-Term Horizon** (2-3 yrs) — Game-Based Learning & Learning Analytics
- Far-Term Horizon** (4-5 yrs) — Gesture-Based Computing & The Internet of Things



Challenges for Educators



The demand for personalized learning is not adequately supported by current technology or practices.

Clearly, one-size-fits-all teaching methods are neither effective nor acceptable for today's diverse students. Demand is growing for technology that supports customized education and provides individual choices about access to materials and expertise, amount and type of educational content, and methods of teaching.



Simply staying organized and current presents a challenge in a world where information, software tools and devices proliferate at a rapid rate.

User-created content is exploding, giving rise to information, ideas, and opinions on all sorts of interesting topics. Sifting through a mountain of information on a regular basis requires a need for effective tools and filters for finding, interpreting, and retrieving data.

Teachers' Top Challenges
When Using the Internet to Support Their Teaching



New LR and inBloom Technologies are Helping to Meet These Challenges.

LR and inBloom provide effective shared technology tools and filters for finding, interpreting, organizing, and retrieving the data that is important to educators, students, and parents.



LR and inBloom Technologies on the Near-Term Horizon

Technology Timeframe Benefits

Technology	Timeframe	Benefits
LR Technology	Currently available	<ul style="list-style-type: none"> Collaborate across schools, districts, and state lines by sharing, tagging, rating, and commenting on Open Educational Resources (OER). Minimize time to find and contribute educational resources aligned to Common Core State Standards, and other standards using Achievement Standards Network. Engage students with educational resources that connect curricula to real-life issues, work-based, or problem-based learning. Use open source technology to create and integrate web applications.
inBloom use of LR Technology	Pilot for 5 states (beginning June 2012)	<ul style="list-style-type: none"> Integration of the LR to tag resources with intended audience, applicability, and alignment to learning standards. Content search application to find and share resources through a LR index search Create and save custom pathways as learning maps that interface learning standard aligned content through a LR index search. Begin developing learning maps to connect standards, resources, and assessments to support shifting to student-centered education.

inBloom Technologies on the Mid-Term *Horizon*

Technology	Benefits	Description
inBloom Technology Application Programming Interface (API)s	Teacher interface for using learning analytics	Applications and tools that give educators access to the information and data that can help them analyze student performance, adjust instructional strategies, and better determine what's working and what isn't working in order to improve student outcomes.
inBloom Technology multi-tenant Data Store	Secure storage of learning analytics	Hosts a core set of classroom-level education data elements that are commonly used in the K-12 education information domain, as well as custom data for state and local education agencies.
inBloom Technology extensible system for third-party applications	inBloom Technology bulk data ingestion and validation of learning analytics	High-volume data loading tools that facilitate data exchange between inBloom Technology and student data systems, such as state and local education agencies, and vendor data source systems.

Sources:

- Achievement Standards Network (ASN)** - <http://asn.jesandco.org/>
- Effective Access Teachers' Use of Digital Resources in STEM Teaching** - Gender, Diversities, and Technology Institute, Education Development Center, Inc., 2005 (Table 11) - http://www2.edc.org/gdl/publications_sr/effectveaccessreport.pdf
- Learning Registry** - <http://www.learningregistry.org/>
- The End of Teaching As We Know It** - <http://edudemic.com/2012/03/the-end-of-teaching-as-we-know-it/>
- NMC Horizon Report: 2012 Higher Education Edition** - New Media Consortium (NMC) - <http://www.nmc.org/>
- NMC Horizon Report: 2012 K-12 Edition** - New Media Consortium (NMC) - <http://k12.wiki.nmc.org/>
- Shared Learning Collaborative (SLC) Pilot Phase Project Documentation** - SLI Data Ingestion Specification, May 4, 2012 (Page 9) - <http://slcedu.org/technology/technical-specifications>

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