

Building the Learning Analytics Builders Coalition

April 25, 2025



LAB-C Builders Coalition WELGOME



Suzanne Carbonaro 1EdTech



Kevin Corcoran University of Central Florida



Myk Garn Senior Advisor



LAB-C Builders Coalition In the Beginning...



June 3-6 Salt Lake City, Utah -



LAB-C Builders Coalition

All higher education using data about learners and their learning to make student success achievable and sustainable.



Become a Convener of Conveners

Establish a strong network to guide and connect colleges and universities as they design, implement, and share their learning analytics capacity and capabilities.



LAB-C Builder's GOALS Builders Coalition

Awareness Understanding Ability to Build A Sharing Coalition



LAB-C SHOWCASE AGENDA Builders Coalition

Building Awareness: (John Fritz, UMBC)

Building the Data Structures: (Sanjoosh Akkineni, KSU)

Building Understanding: (Ben Hellar, Penn State)

Building Ability: (Suzanne Carbonaro, 1EdTech)

Building a Coalition: (Myk Garn & Kevin Corcoran)

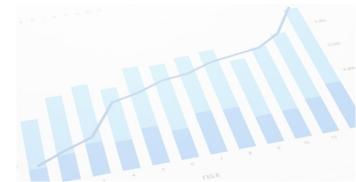


LAB-C Building Awareness



The Importance of Community

John Fritz University of Maryland, Baltimore County





About Our LA CoP

- Started in 2021
- Modeled after Indiana University's <u>CLASS</u>, <u>LA</u> Fellows
- ~60 active participants, mostly faculty
- 20+ <u>LA Fellows</u> to date, awarded \$2k, 1-year, renewable LA <u>mini-grants</u>, to design, assess & report on an LA-based intervention.
- ~25+ LA Community of Practice (CoP) <u>meetings</u>, all with recorded archives & handouts.
- Notably, one LA fellow, Karen Chen (IS), won <u>UMBC's 50th NSF Career Award</u> based, in part, on her <u>project</u>, "Learning Analytics by Students for Students."





TODAY'S LEARNER

Published on Feb 12, 2025

Why and How to Build a Learning Analytics Community of Practice

John Fritz | Associate Vice President of Instructional Technology, University of Maryland, Baltimore County



A learning analytics community of practice can be extremely beneficial to the student learning experience through assessment and actionable intervention.



Why CoPs Matter?

"If you want to change the culture, shine light on success, not failure."

- Freeman A. Hrabowski, III Former President, UMBC





How CoPs Matter: Faculty Evolve (Learn) from Peers

Focus of how faculty beliefs change

- 1. **Egocentrism**: their role as teachers
- 2. **Aliocentrism**: the role of learners
- 3. **Systemocentrism**: shared role of teachers and learners in community.

Robertson, D. L. (1999). Professors' perspectives on their teaching: A new construct and developmental model. *Innovative Higher Education*, *23*(4), 271–294. https://doi.org/10.1023/A:1022982907040

Telltale signs of change:

- They bring the benefits and biases of the previous stage.
- 2. Change only occurs when confronted by "teaching failures" of the prior stage.
- 3. **Desire for certainty** either freezes faculty in status quo or motivates evolution into the next stage to avoid . . .

"a familiar teaching routine that they have deemed inappropriate and with nothing to replace it."



Analytics (aka "Actionable Intelligence")

At its core, learning analytics (LA) is the collection and analysis of usage data associated with student learning. The purpose of LA is to observe and understand learning behaviors *in order to enable appropriate interventions*.

~ Educause Learning Initiative (ELI), 2011

Develop and implement an internal information system and analytics to track and improve student success and establish campus-wide standards/best practices for interventions to support student success throughout students' careers at UMBC.

~UMBC Strategic Plan, 2016, p. 17

Analytics without Action is Just Analysis



Moving the Heart and Head?

Greater attention is needed to the accessibility and presentation of analytics processes and findings so that **learning** analytics discoveries also have the capacity to surprise and compel, and thus motivate behavioural change. (p. 161).

Macfadyen, L. P., & Dawson, S. (2012). Numbers Are Not Enough. Why e-Learning Analytics Failed to Inform an Institutional Strategic Plan. Educational Technology & Society, 15 (3), 149–163.

Numbers Are Not Enough. Why e-Learning Analytics Failed to Inform an Institutional Strategic Plan

Leah P. Macfadyen1* and Shane Dawson1,2

¹Arts ISIT, Faculty of Arts, The University of British Columbia, Vancouver, BC, Canada // ²Faculty of Education, University of Wollongong, Australia // leah.macfadyen@ubc.ca // sdawson@exchange.ubc.ca *Corresponding author

ABSTRACT

Learning analytics offers higher education valuable insights that can inform strategic decision-making regarding resource allocation for educational excellence. Research demonstrates that learning management systems (LMSs) can increase student sense of community, support learning communities and enhance student engagement and success, and LMSs have therefore become core enterprise component in many universities. We were invited to undertake a current state analysis of enterprise LMS use in a large research-intensive university. to provide data to inform and guide an LMS review and strategic planning process. Using a new e-learning analytics platform, combined with data visualization and participant observation, we prepared a detailed snapshot of current LMS use patterns and trends and their relationship to student learning outcomes. This paper presents selected data from this "current state analysis" and comments on what it reveals about the comparative effectiveness of this institution's LMS integration in the service of learning and teaching. More critically, it discusses the reality that the institutional planning process was nonetheless dominated by technical concerns, and made little use of the intelligence revealed by the analytics process. To explain this phenomenon we consider theories of change management and resistance to innovation, and argue that to have meaningful impact, learning analytics proponents must also delve into the socio-technical sphere to ensure that learning analytics data are presented to those involved in strategic institutional planning in ways that have the power to motivate organizational adoption and cultural change.

Keywords

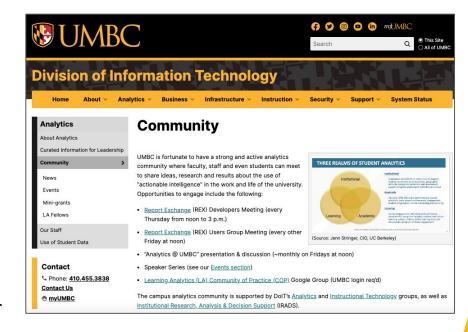
Learning management system (LMS), Virtual learning environment (VLE), Learning analytics, Strategic planning, Student engagement, Change management, Institutional culture

https://www.jstor.org/stable/pdf/jeductechsoci.15.3.149.pdf



Takeaways

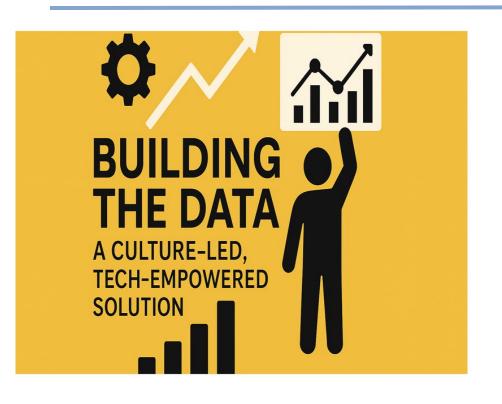
- 1. Be open to the use of students' digital footprints as a proxy of their engagement, especially earlier **within a term**.
- Use big (SIS?) data for a "bird's eye view" to study quantitative trends <u>across terms</u> that warrant a deeper dive for qualitative interviews.
- Look for positive outliers you can study, validate, reverse-engineer, support and promote as effective practices or change over time.



More info: doit.umbc.edu/analytics/community



Building Data





Sanjoosh Akkineni Lead Academic Data Scientist Kennesaw State Univeristy



Centering People, Not Platforms



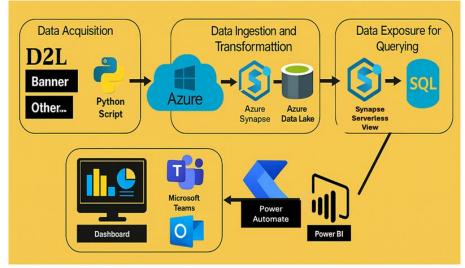
Cloud tools are common

We aligned around people and purpose

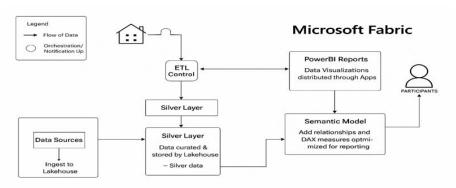
Consultant support, not vendor control

- We began with a question of need, not capability.
- Technology was the enabler, not the driver.
- Trust and purpose shaped the transformation.
- This was a university-led initiative.
- Ownership created impact.











- We started with the end-user in mind not the system.
- The pipeline is elegant, but it's only as good as its trustworthiness.
- We exposed data through layers designed to grow with us.
- Dashboards were built to answer real questions, not to display raw numbers.
- Faculty adoption depends on trust, not tools.
- The shift to Microsoft Fabric reflects our commitment to long-term scale and usability.
- This isn't just infrastructure. It's a people-first data experience.

Building Trust, Not Just Dashboards





Build with users



Ensure transparency



Support and train



6 Celebrate early wins





- We didn't assume we asked.
- · We built uHoo with faculty, not for them.
- Transparency wasn't optional it was constant.
- We made support a relationship, not a onetime training.
- We recognized and amplified early adopters.
- Trust was never an afterthought it was intentional.









Summer 2023

Initial onboarded 25 faculty

Fall 2023 - Spring 2024

Growth Phase Faculty training, recruitment, and communication implemented

Faculty Expansion

497 users engaged (including 441 facuity) Milestone Achievement

500+ users
by February 2025
(including 449 faculty)
Ranked 1st out of
227 reports at
Kennesaw State
University

- We started small and intentionally.
- Piloting built psychological safety.
- This was about relationship-building, not rollouts.
- We used feedback loops to evolve quickly.
- We prioritized quality over quantity.
- Recognition followed relevance.







- Start with a needs assessment, not a feature wish list
- ✓ Bring users into the process early build with them, not for them
- Focus on trust and transparency before diving into analytics
- See data as a service to people rather than a tool to be managed



As I like to say:

Technology can scale, but it's culture that sustains.





Building Understanding

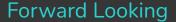


Building Understanding

Ben Hellar Manager, Data Empowered Learning Pennsylvania State University

A framework for building a data environment to drive action

Enrollment Analytics



- Admissions
- Matriculation
- Course Scheduling
- Learning Spaces

Institutional Research

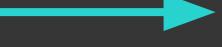
Post-hoc

- Assessment
- Accreditation
- Retention Metrics
- Program Review



A framework for building a data environment to drive action

Enrollment Analytics



Forward Looking

- Admissions
- Matriculation
- Course Scheduling
- Learning Spaces

Learning Analytics



- Student Success
- Intervention Strategies
- Reflective Teaching
- Course Delivery

Institutional Research

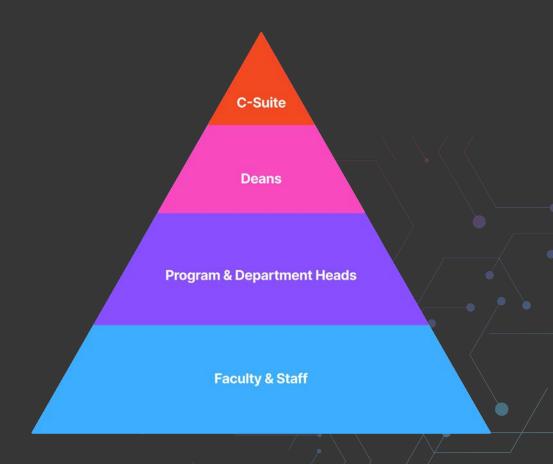


- Assessment
- Accreditation
- Retention Metrics
- Program Review



Traditional Approach

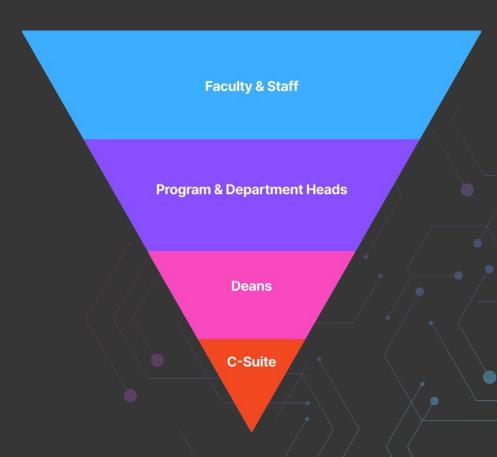
Delivers data to inform high impact and strategic decisions.





Data Empowered Approach

Provides data to those in the institution that make the most volume and frequency of decisions!





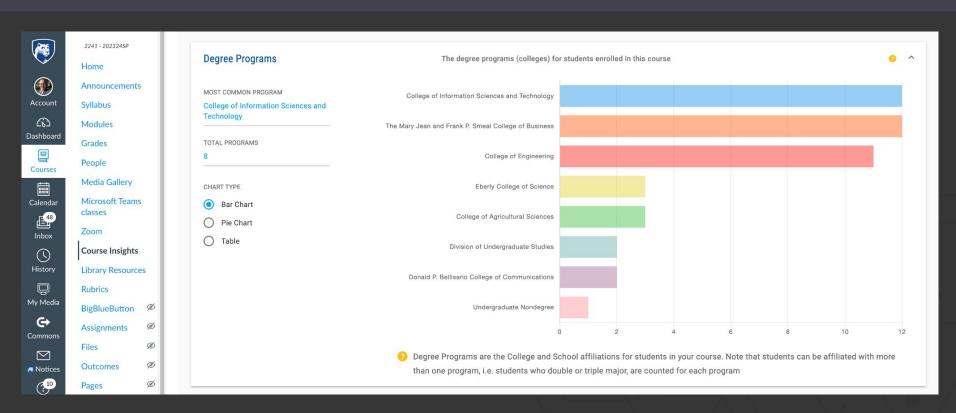


Having data is not enough...

We want to empower non-technical individuals to make decisions with data at a glance and move the institution away from data discovery and towards data empowerment.



Democratizing data for all decision makers





Faculty have access to data, but that data is not always accessible.

Course Insights enables easy access to their course data from inside Canvas!

Using data to drive strategy





By making data accessible, we can use learning analytics to shape the types of decisions faculty can make to support their courses

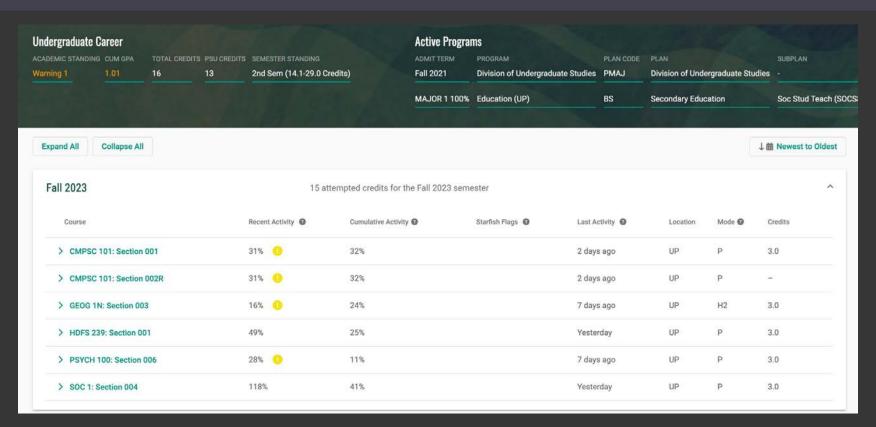
Creating an environment for shared insights





Elevate shows the same activity metrics available in Course Insights enabling advisers to see the same picture of student engagement.

Recognizing differences in decision making





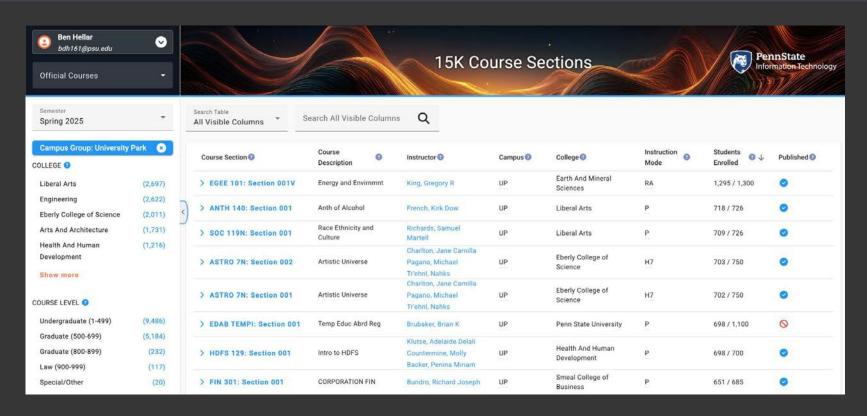
Advisers at PSU have no access to in-progress grades and rely on analytics from a student's entire schedule to provide context.



By thinking differently about our usage of the real-time learning data, we are able to create a culture of proactive student support and intervention, one that also enables the differentiated care of our students.



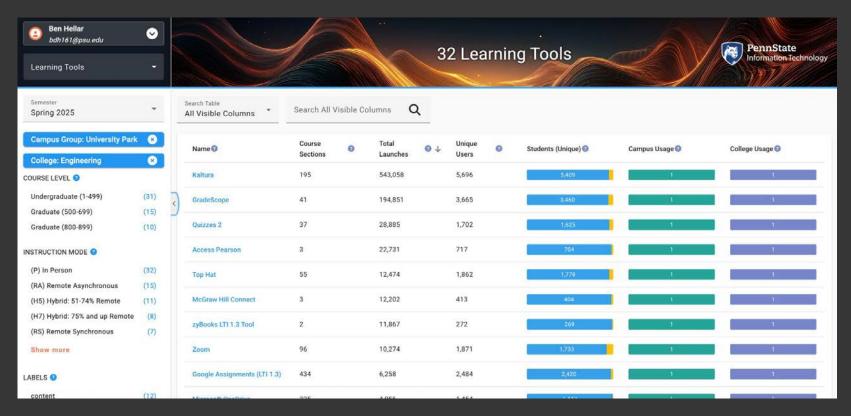
Providing ground truth at an institutional scale





Instructional Designers and course administrators need an understanding of course delivery beyond what can be found in the SIS alone!

Breaking down silos and creating transparency



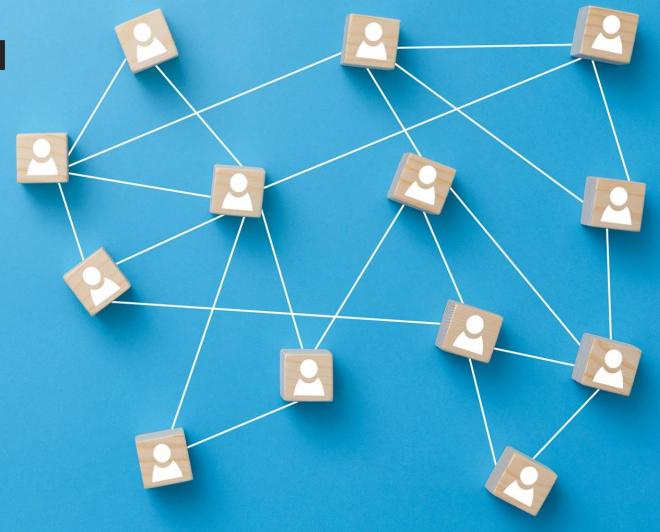


Common Data Standards from 1EDTECH such as LTI and Caliper enable institutions to break down vendor based barriers to access their own data

Data Empowered Institution

...Understands that data can drive strategy, that common insights can be shared to decision makers at any level of the institution.







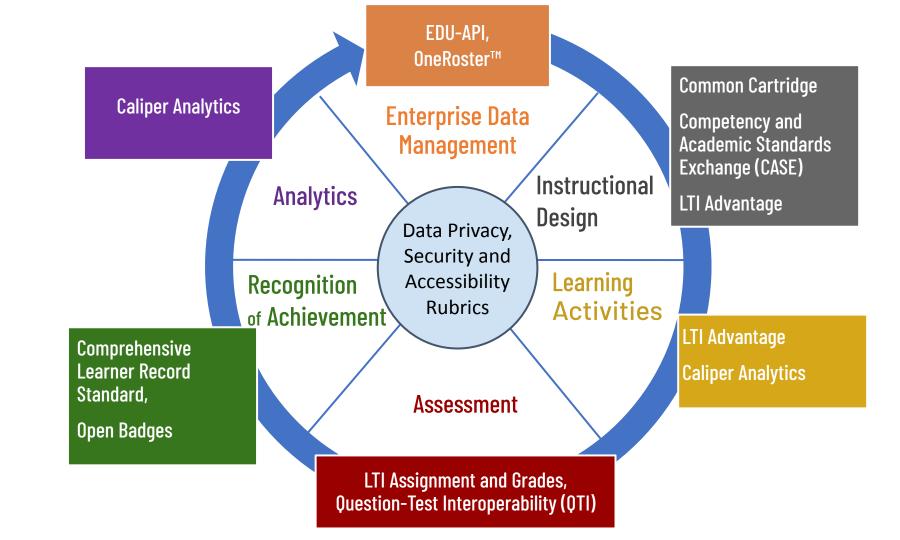
Building Ability



Suzanne Carbonaro 1EdTech

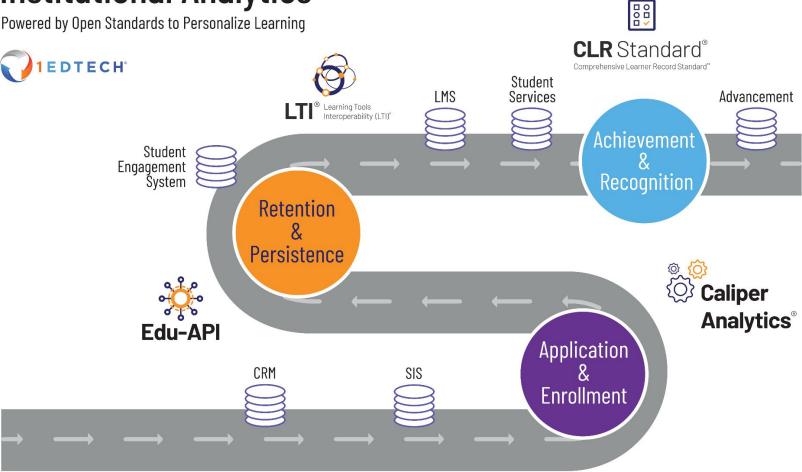
Vice President, Postsecondary Education & Workforce Programs



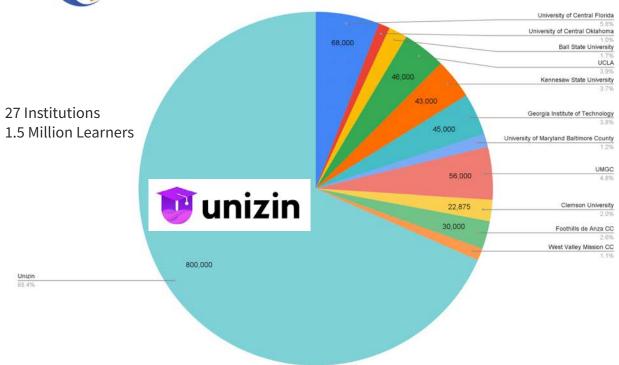


Institutional Analytics

Powered by Open Standards to Personalize Learning







American Association of Public Land Grant Universities: 247 Member Institutions (across US, Canada & Mexico)

UPCEA: The Online and Professional Education Association: Community of 14,000 educators





Building Ability

Say Goodbye to Complicated Integrations and Hello to Data Innovation

Webinar panel led by early adopters of Edu-API, May 7, 2025 12 PM

- With more student data available than ever before, the opportunity to drive transformational insights is within reach—but many institutions are held back by the complexity of their data ecosystems.
- Designed to streamline secure and flexible data exchange, Edu-API is rapidly becoming the go-to solution for institutions serious about modernizing their data strategies.



https://led.tech/edu-apipanel





Building Ability

Learning Impact CONFERENCE 2025

—— June 2-5 Indianapolis, IN ——



LAB-C Session on June 3rd right after lunch!

Learn More: https://led.tech/LearningImpact

LAB-C participants who are not members is **Lab420712LI25**, and it should be applied on the Order Summary page during registration.

If you experience any issues with the code, please have them contact us at events@1edtech.org.



LAB-C Building Ability Builders Coalition

Join our community! And Build with us!



https://community.1edtech.org



LAB-C Building a Coalition



Kevin Corcoran University of Central Florida



Myk Garn Senior Advisor



LAB-C POTENTIAL IMPACT Builders Coalition

"Universities in particular can benefit from [an] integrated data approach to enhance student recruitment, improve educational outcomes, and maintain stronger alumni connections."

Winston Chang

Global Public Sector CTO, Snowflake, January 2025



LAB-C POTENTIAL IMPACT Builders Coalition

ON LEARNING

- Personalized Learning Experiences
- Early Identification of At-Risk Students
- Informed and Enhanced Teaching Strategies
- Enhanced Student Engagement
- Increased Student Retention and Graduation Rates
- Preparation for Future Careers

ON OPERATIONS

- Improved Resource Allocation
- Data-Informed Decision Making
- Continuous Improvement
- Transparency and Accountability
- Increased Student Retention and Graduation Rates



LAB-C Griticality Builders Coalition

Excelling at these goals is essential to staying relevant and competitive in a rapidly transforming and digitizing academic marketplace.



DATA RICH....

"It's estimated that universities and colleges can produce several terabytes of data each day...totaling billions of data points annually."



...and Knowledge Poor

"It is common to find 35, 50 or 100 data systems in play - each growing their own data - and "trapping" it there."



Building a Coalition



Solutions are not being shared

Only 30% overall said they have access to communities of practice.



LAB-C Builders Coalition HOW Might We...

Expand the number of colleges and universities engaged in significant learning analytics efforts that increase college completion outcomes while improving success for students and value for institutions?



LAB-C SOLUTION Builders Coalition

Establish and grow LAB-C as an impactful and trusted cross-silo coalition catalyzing adoption and use of learner and learning analytics across the education sector.



Building a Coalition















November, 2024 - Charleston, SC





BILL & MELINDA
GATES foundation







Building Conversations



EDUCAUSE





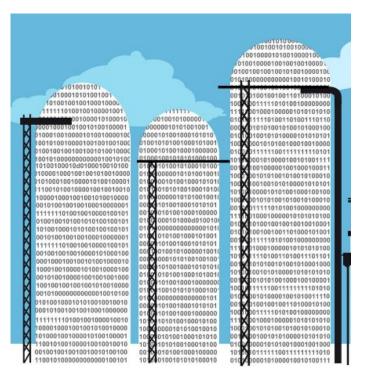








INSIGHT

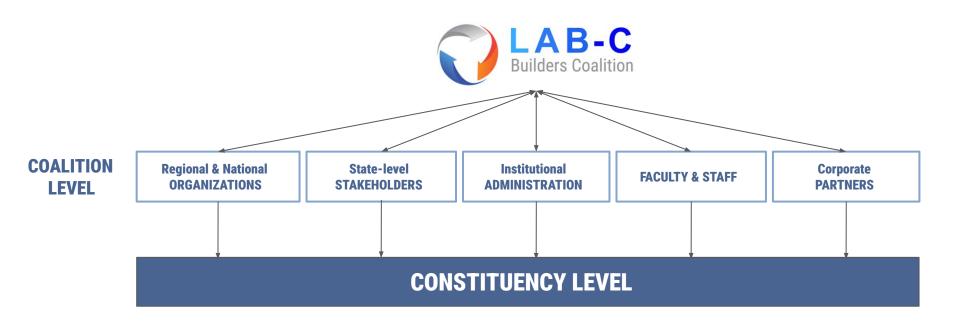


If information doesn't get distributed... it doesn't become knowledge.



LAB-C A Convener of Conveners

(AKA FORCE Multiplier)





LAB-C Join the Coalition Builders Coalition

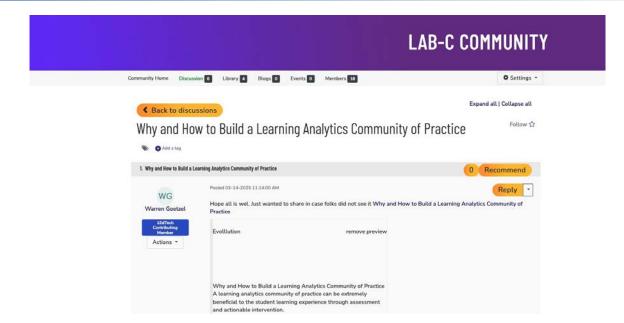
Get Involved!

Ways to contribute:

- Attend Learning Impact 2025
- Advocate for your associations to join the coalition
- Share institutional resources for the benefit of all
- Contribute to LAB-C meetings and working groups
- Provide direction and feedback for LAB-C efforts
- Disseminate LAB-C findings and efforts with others



LAB-C Join the Coalition Builders Coalition





Suzanne Carbonaro scarbonaro@1edtech.org

1EdTech Community:

https://community.1edtech.org/home/memberhome



LAB-C Builders Coalition LAB-C Builders Coalition

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