Learning Analytics: A Grassroots Approach to Breaking Knowledge Silos

Center for Education Innovation
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Audrey Rorrer
Current CEI Projects

- CISE REU Evaluation Toolkit
- STARS Scaling
- Pathways for Women
- Flipped Classroom
- CCI Assessment
“The measurement, collection, analysis and reporting of data about learners and their contexts, for purposes of understanding and optimizing learning and the environments in which it occurs”

- Society for Learning Analytics Research, SoLAR, 2011, p. 4

“Is the use of data, statistical analysis, and explanatory and predictive models to gain insights and act on complex issues”

- Bichsel, 2012, p. 6
LA is Proactive

Immediate Interventions
Student Empowerment

Academic Predictors
Academic Behaviors & Attitudes
Academic Behaviors (e.g. online courses)

Hypothesis Driven
Model Driven
Student Awareness
Faculty Intervene

Student Behavior Change
Benefits and Challenges

• Exciting promise
• **Immediate** utility
  • Students, faculty, administrators/policy makers
• Terms and tools are evolving

• Judgment & Action Required
  • Data ≠ Knowledge
  • Awareness ≠ Application
• Best practices for faculty applications
• Complex issues of data ownership, privacy & ethics
Creating & Scaling LA

- Help frame the issues
  - Support articulation of project dynamics, context

- Identify relevant observations & interpretations
  - Make visible, systematic

- Disseminate & illustrate the innovation narrative
  - Flexible accountability, the project trajectory
References

