

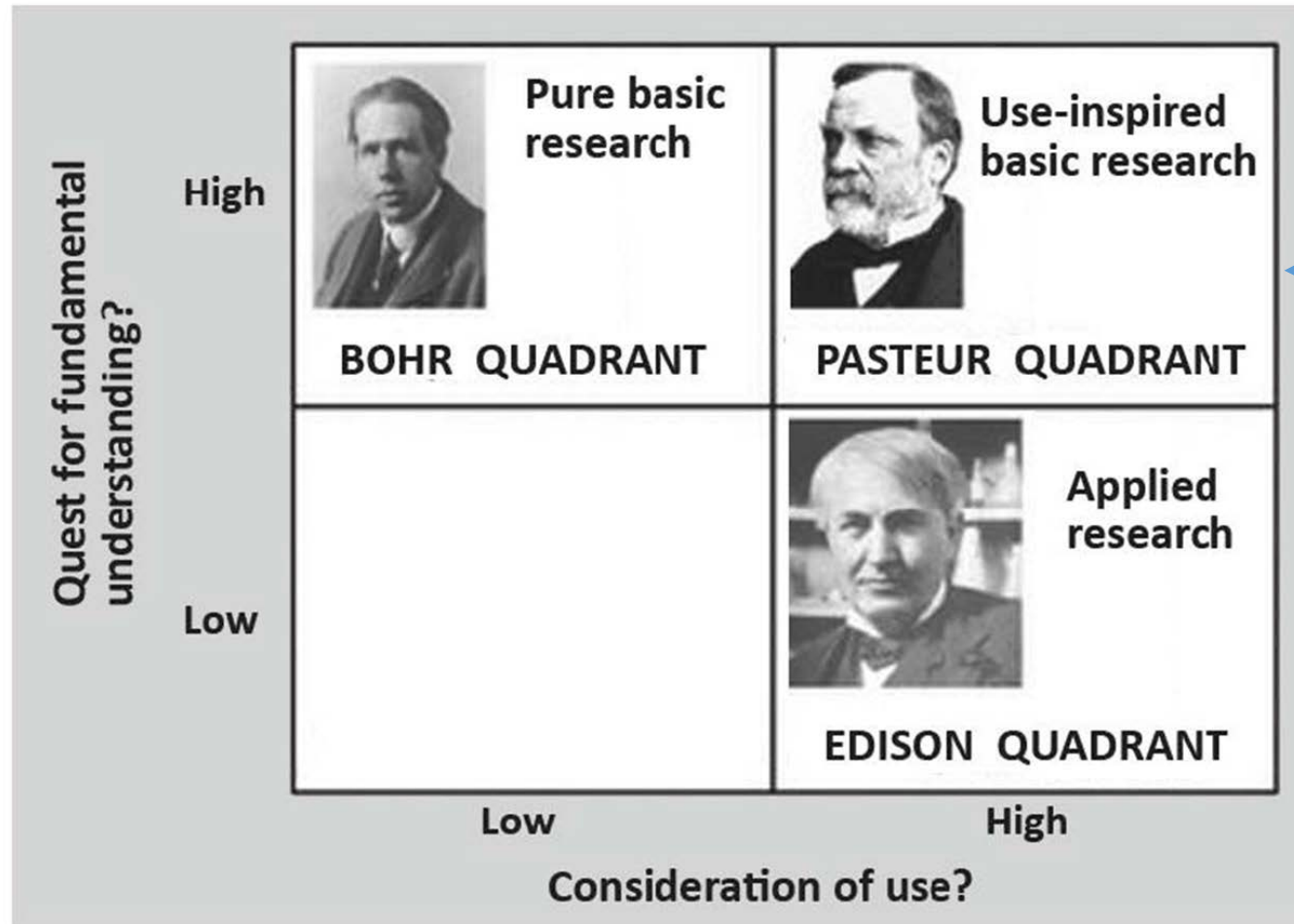
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Learning Analytics: Working in Pasteur's Quadrant



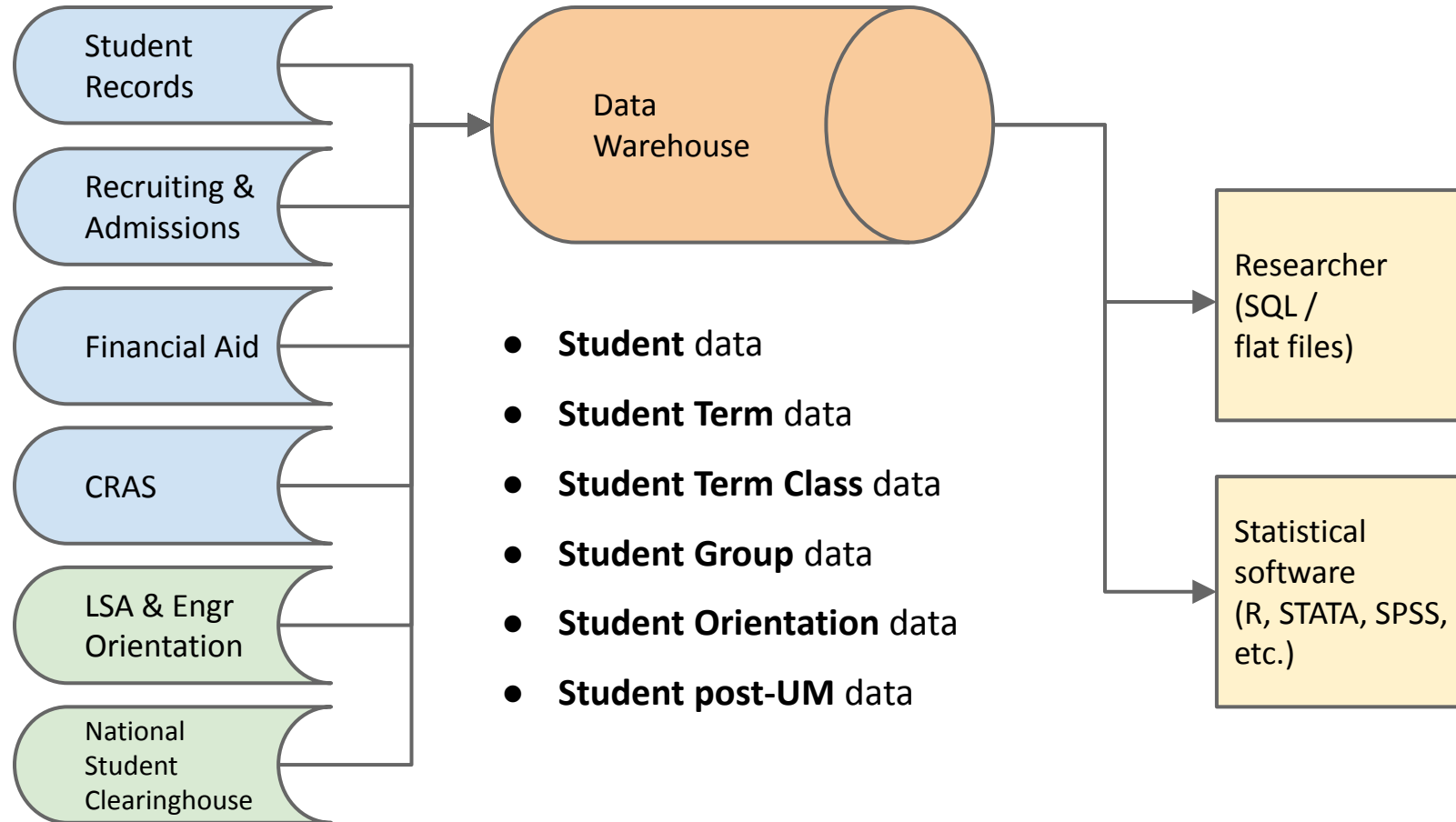
Current UM Datasets & Sources for Learning Analytics (circa 1996-present)

- Student Records
- Recruiting & Admissions
- Financial Aid / Student Financials
- College Resources Analysis System (CRAS):
Collapsed Instructor & Course data
- Human Resources & Payroll
- CTools / Canvas
- Kaltura video content
- Lecture Capture

Data Dictionaries:

<http://www.mais.umich.edu/reporting/studentdatasets.html>

Emerging LA Data Architecture




Data-Driven Academic Pathways to Success

- Harnessing the UM data warehouse for creating *actionable* datasets
 - Building models of student behavior for diagnosing students' academic challenges -> effective interventions before failure
 - Designing personalized learning trajectories that address the diversity of our students & their preparation for learning at a R1 institution
 - Developing new models for effective instruction and fair assessment (one size \neq all)
 - Creating interfaces for advisors, faculty & students to make data visible, understandable, and valuable



 Engage

 Explore

 Encourage