DXTERA

Enabling Digital eXchange

Presentation to
grantmakers for education
October 22 – 23, 2015

Dale Allen, Ph.D. – QCC
Jeff Merriman – MIT
Brandon Muramatsu – MIT
Domy Raymond – USA Funds
Mike Reilly – ACCRAO

Survey: bit.ly/dx-gfe

- What areas are you interested in data integration and/or tools and application development?
  - Academic and/or career planning
  - Program development
  - Program assessment
  - Student tracking
  - Other?

- If you are a funder, what investments have you made for educational data integration? Have you funded the development of any tools or applications? If yes, what tools? How many schools, states or systems does your investment support?

- If you are a practitioner, what data are you trying to integrate, and why?

2014 HIGHER EDUCATION TECHNOLOGY LANDSCAPE

A STUDENT LIFECYCLE FRAMEWORK AND CATEGORIZATION OF TECHNOLOGY PROVIDERS

EDUVENTURES
Evidence. Expertise. Impact.

http://www.eduventures.com/2014/09/higher-education-landscape/#

...Picasso Sculpts Van Gogh… by flickr/darrentunnicliff, CC-By-NC-ND 2.0

TRANSFORMATION AGENDA

SCALING INNOVATIONS FOR STUDENT SUCCESS

MASSACHUSETTS COMMUNITY COLLEGES

mccwdta
Massachusetts Community Colleges & Workforce Development Transformation Agenda

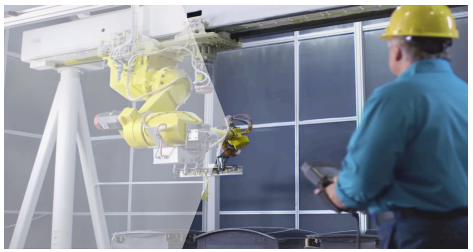
KEY PARTNERS

+ Massachusetts Executive Office of Labor & Workforce Development
+ Massachusetts Executive Office of Housing & Economic Development
+ Massachusetts Department of Career Services
+ Massachusetts Department of Elementary & Secondary Education
+ Massachusetts Department of Higher Education
+ One-Stop Career Centers
+ Massachusetts Workforce Investment Board Association
+ Industry Representatives

Transformation Agenda Mission

STUDENT SUCCESS THROUGH

INNOVATIVE STUDENT SUPPORTS



NEW PROGRAM DESIGN & ACCELERATED CAREER PATHWAYS

LEVERAGE TECHNOLOGY

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The Challenge

DATA SILOS IN MASSACHUSETTS

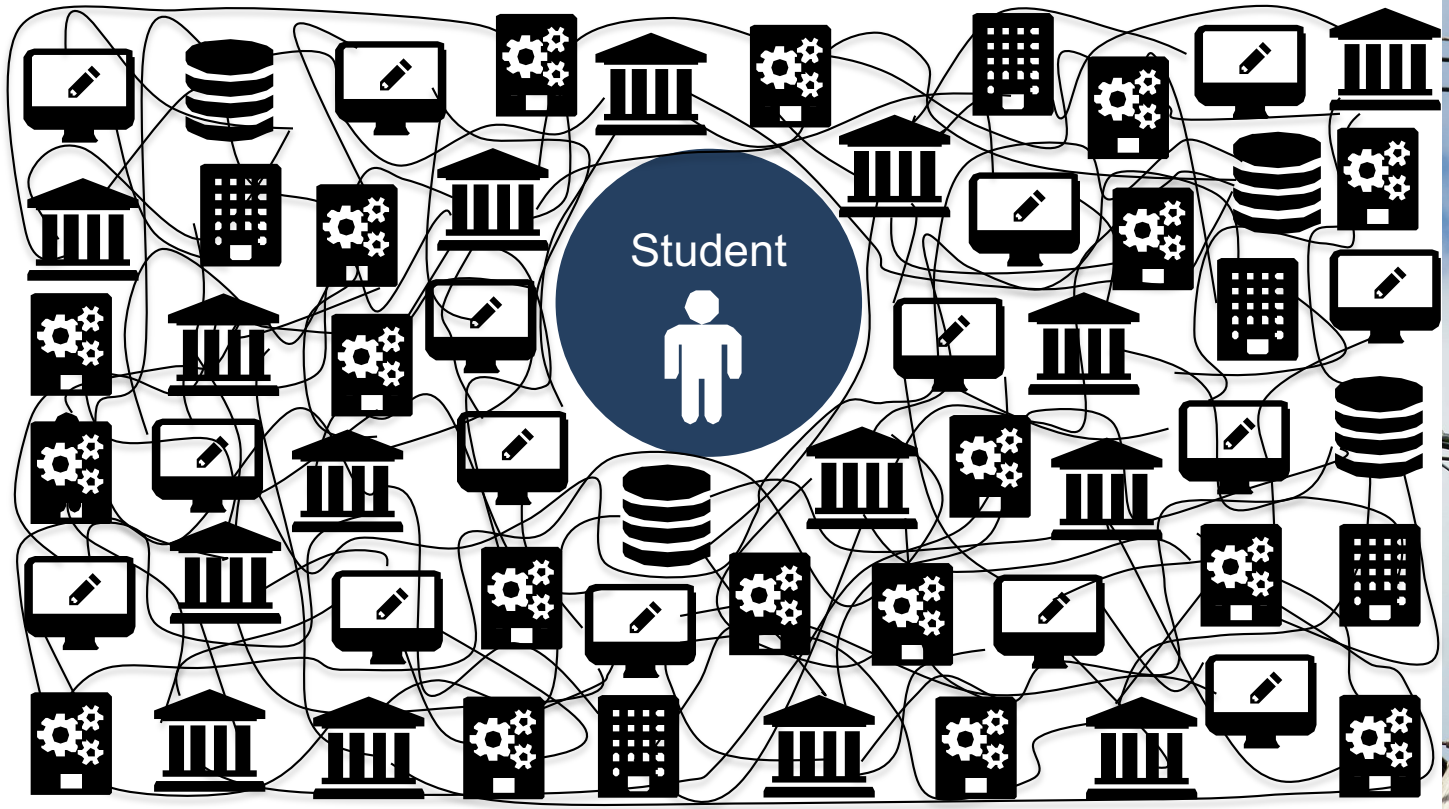
- 15 Community Colleges
- 4 Student Information Systems
- 15 Learning Management Systems
- 33 Career Centers
- 2 State Agencies

Point-to-Point Integration

Telephone pole, CC0

This can’t scale!

HOW CAN WE RETHINK EXISTING PROCESSES?



Telephone pole, CC0

National Challenges

SIS SILOS

- SIS are the most customized of institutional enterprise systems
- **87%** of institutions maintain at least some SIS customization
- SIS rank among the oldest institutional enterprise systems at an average **13 years old**

http://net.educause.edu/ir/library/pdf/ERB1411.pdf

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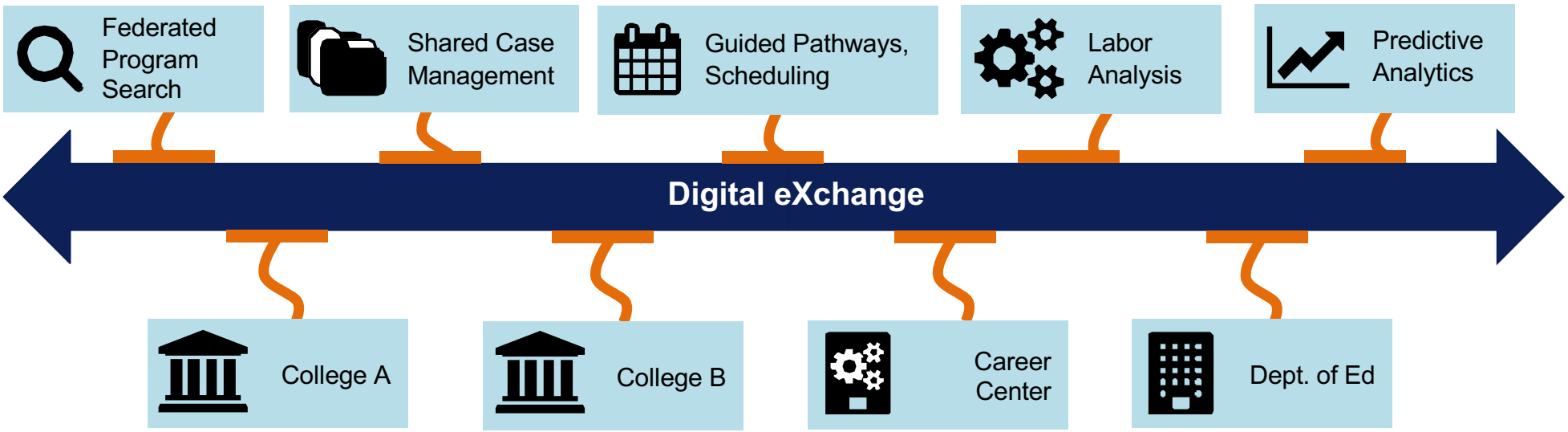

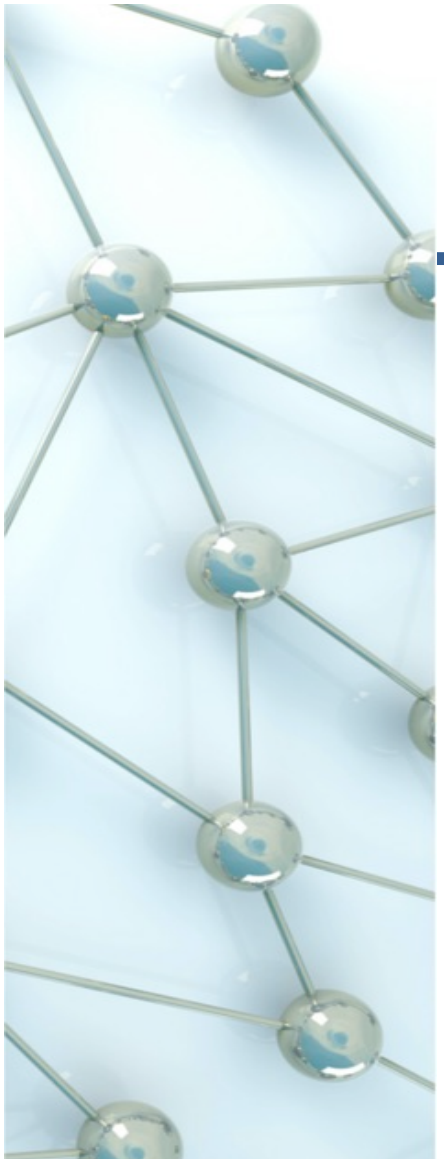

Case Study #1

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PROOF OF CONCEPT

- Federated Student Information System (SIS) integration

Proof of Concept Application

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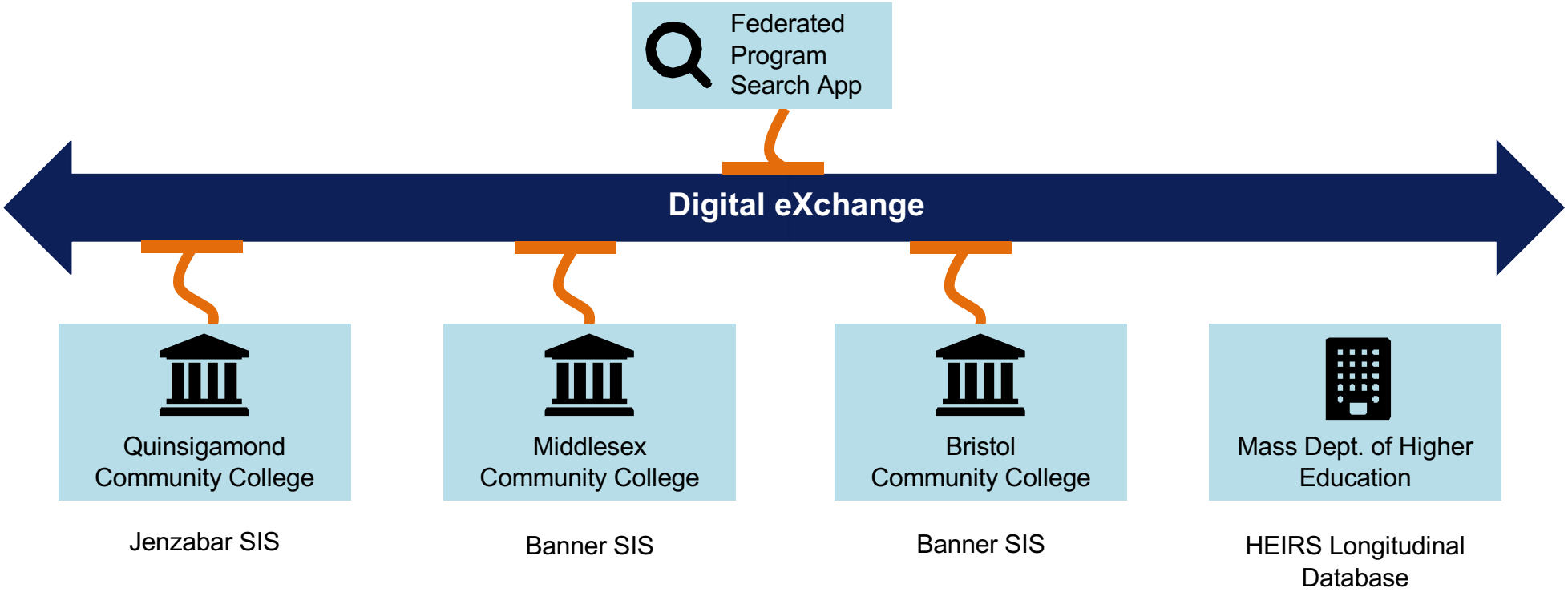
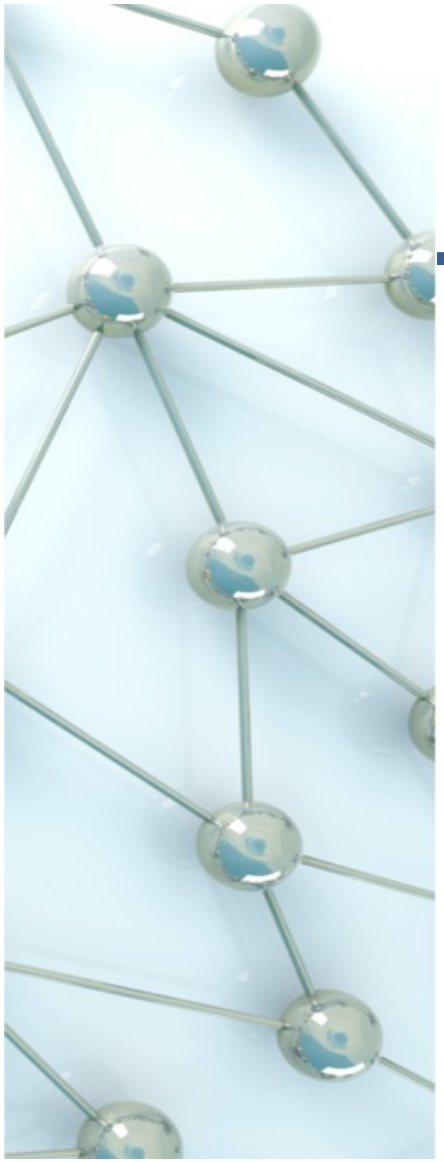
FEDERATED PROGRAM SEARCH





Demo

FEDERATED PROGRAM SEARCH

Massachusetts Community Colleges

Find the program to get the job I want...

Browse Occupations - or - Search nursing

Showing **13** Results for **Nursing**

SOC	OCCUPATION
25-1072	Nursing Instructors and Teachers, Postsecondary
29-1141	Registered Nurses

Programs are offered at the following community colleges:

Middlesex Community College

- Nursing
- Nursing Evening
- Nursing Day

Quinsigamond Community College

- Perioperative Nursing Ct
- Nurse Education Evening
- Nurse Ed Adv Place LPN
- Nurse Ed Param Adv Place
- Nurse Education
- Nurse Education

29-1151	Nurse Anesthetists
29-1161	Nurse Midwives
29-1171	Nurse Practitioners
29-2061	Licensed Practical and Licensed Vocational Nurses

Bring to Scale

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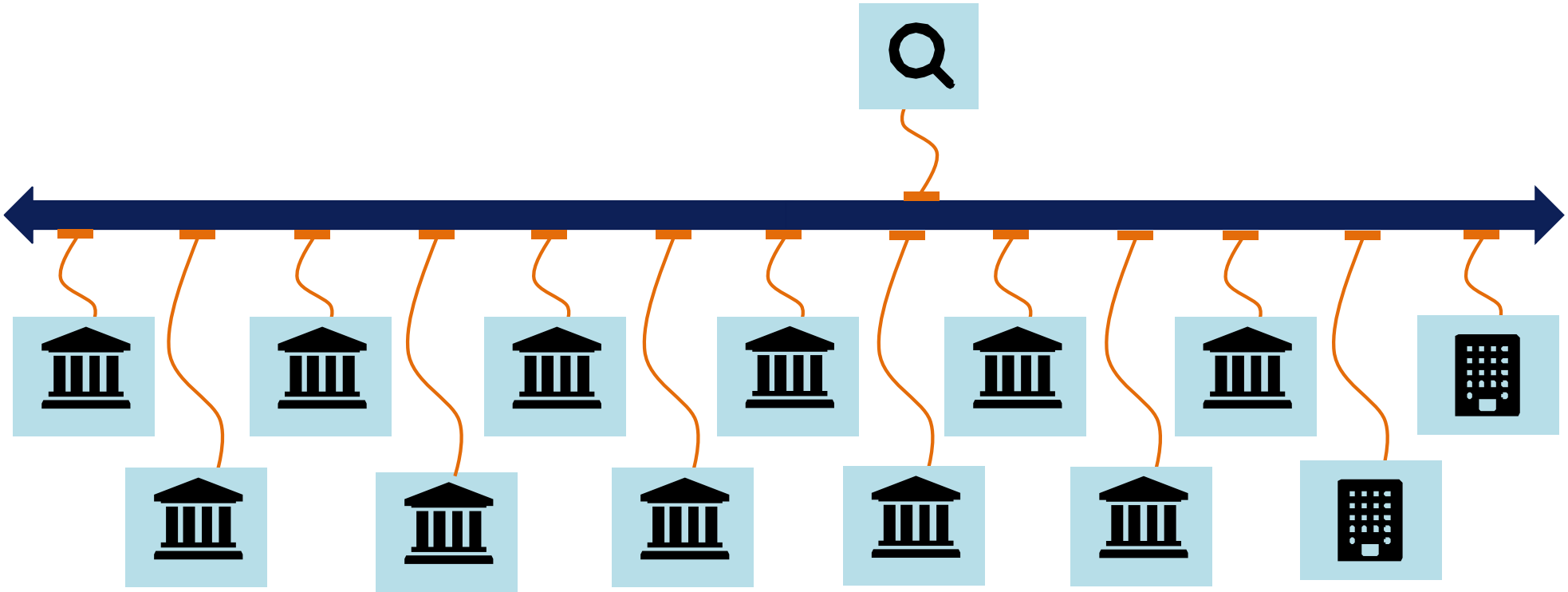
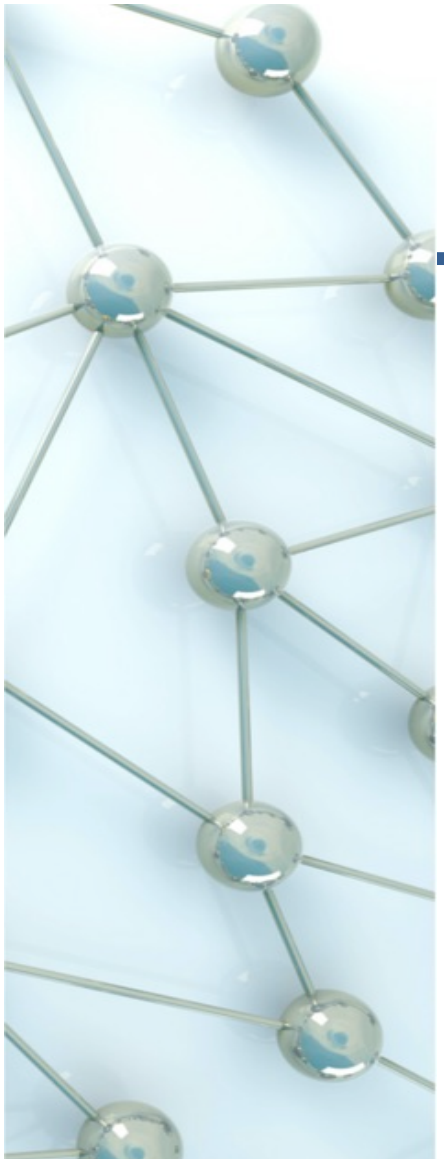
FEDERATED PROGRAM SEARCH



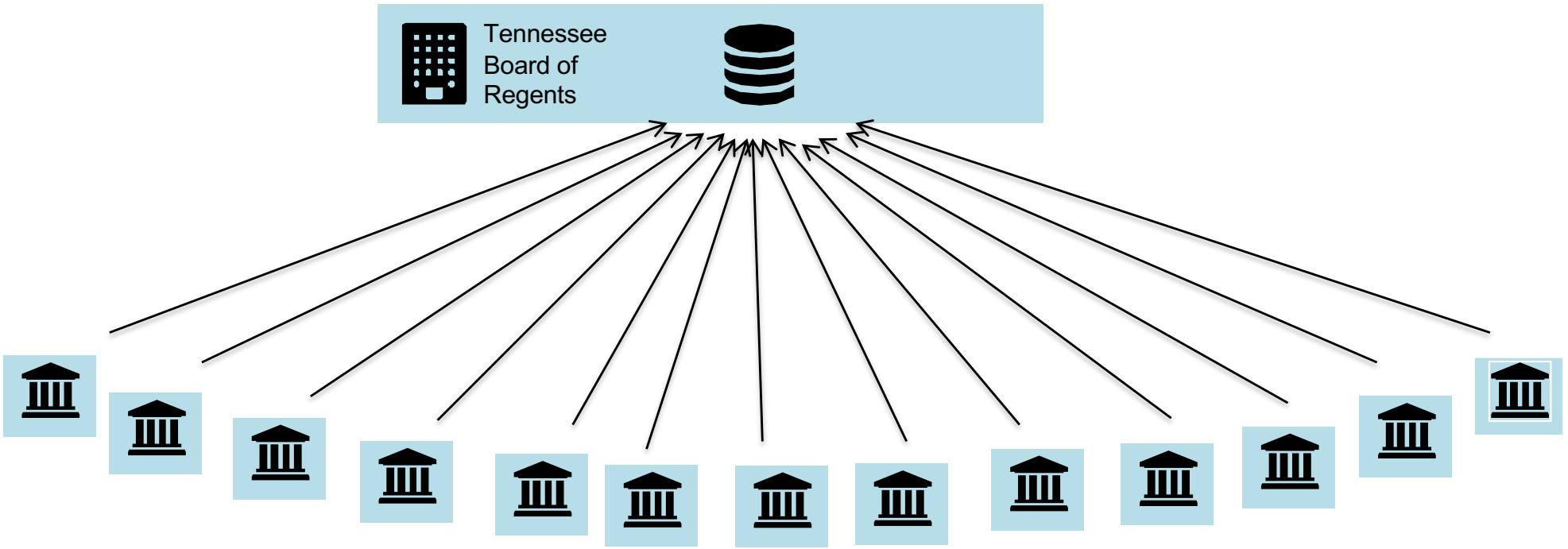


Case Study #2

PREDICTIVE ANALYTICS TOOLS

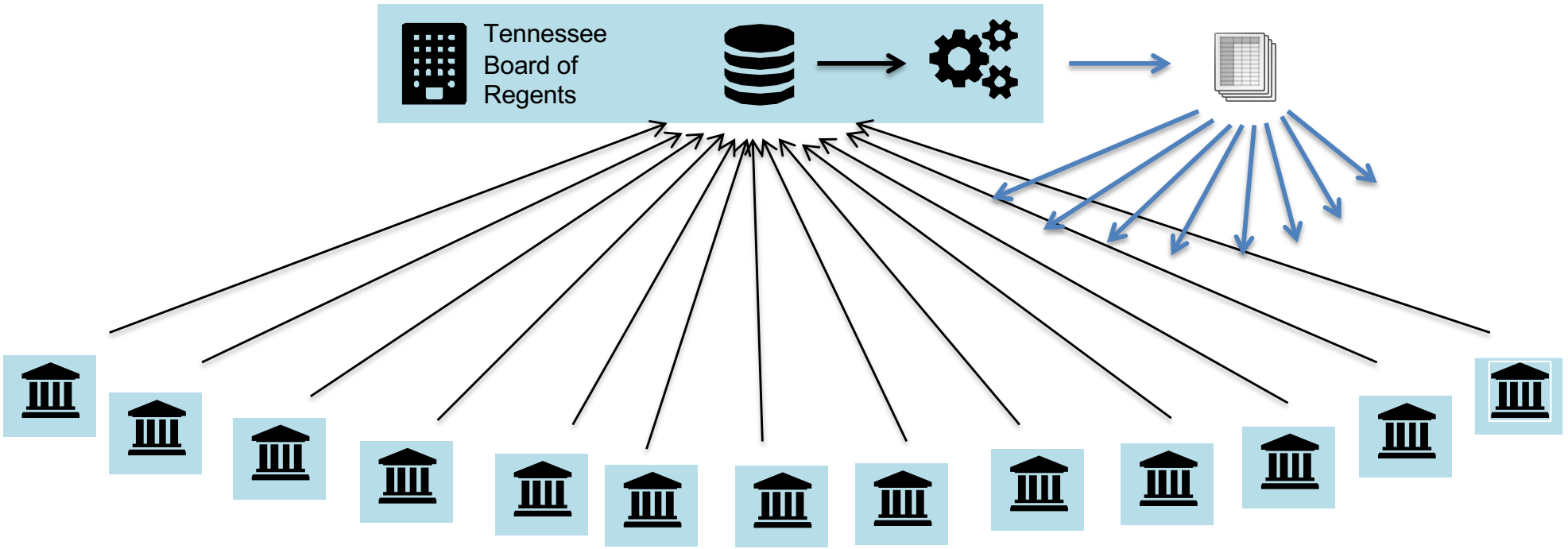
Case Study – Trajectory Analytics

TENNESSEE BOARD OF REGENTS
TRISTAN DENLEY, PH.D VICE CHANCELLOR FOR ACADEMIC AFFAIRS



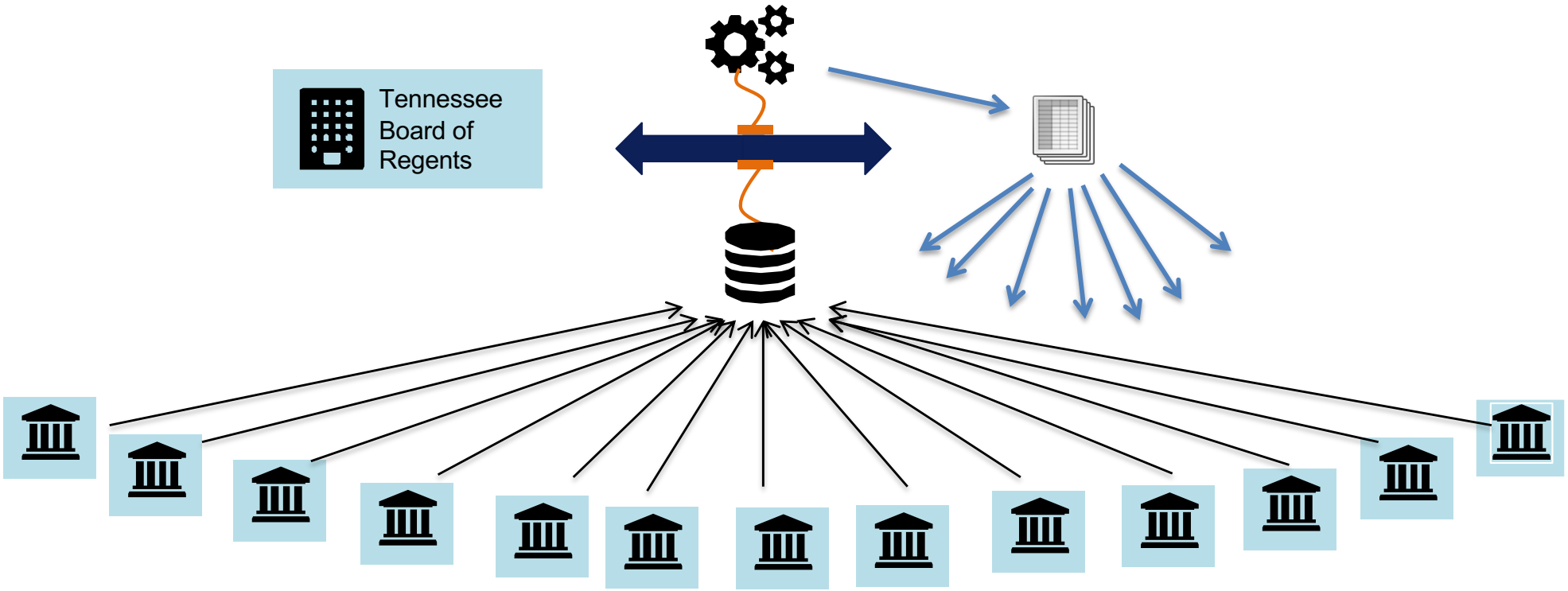
Case Study – Trajectory Analytics

CURRENT STATE



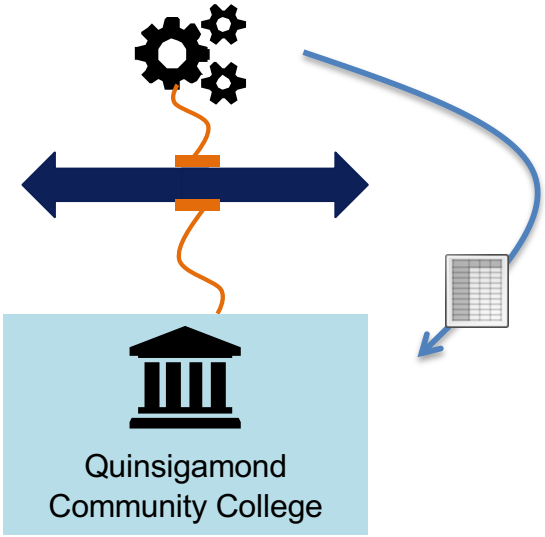
Case Study – Trajectory Analytics

INSERTING DX INTEGRATION



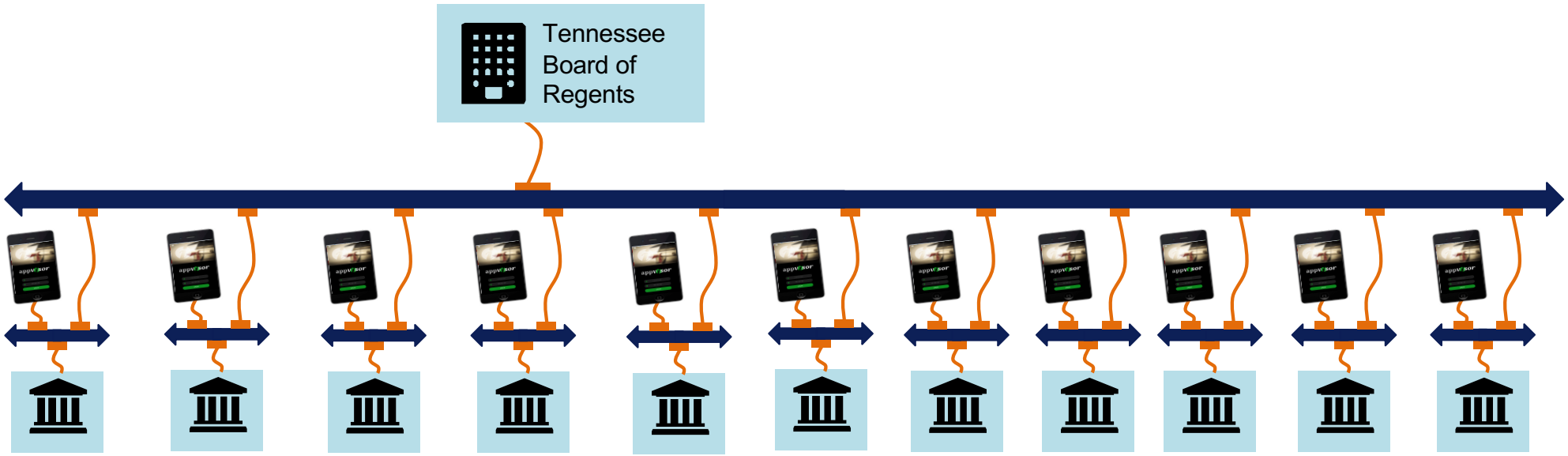
Case Study – Trajectory Analytics

DEPLOY FOR QCC



Case Study – Trajectory Analytics

APPVISOR



WRAP UP

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Contact Us

Dale Allen, Ph.D.
dallen@qcc.mass.edu
Vice President for Community Engagement
Quinsigamond Community College

Jeff Merriman
merriman@mit.edu
Associate Director
Strategic Education Initiatives, Office of Digital Learning
Massachusetts Institute of Technology

Credits

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