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# Integration Strategy of ALL Technology Initiatives

ACBO Conference  
October 24th, 2016

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# Agenda

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Context for the Effort

Why a Project Glue? - Business Case

What is Project Glue?

- It's not just for ERP / SIS integration

Recent Activities

Opportunities, Risks, and Challenges

Questions

# Accountability, Student Success, Integration

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1. Scorecard, IEPI, and Launchboard Metrics (State and Local)
  - a. Set and report local success goals
  - b. Provide focused professional development and robust mechanism for sharing of best practices
  
1. Evidence Based Decision Making; Scalable solutions
  - a. Ed Tech Initiatives are tool
  - b. Developed to respond & implement Student Success Task Force
    - a. Strengthen support & guidance to students
  
2. Integration:
  - a. Good Practice
  - b. Avoids “initiative fatigue”
  - c. Provides more flexibility with funding
  - d. Now a requirement in many statewide plans

# Two Years Ago...

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Transition from:



Leveraging the resources of...



To:



Leveraging the resources of...



MyPath Portal – Pathways / Recommendations / Messaging / Services

Online Ed

Course Exchange

Common LMS

Online Course Catalog

Distance Learning Support

Education Planning

EdPlan/DegreeAudit

eTranscriptCA

Program/Course  
Articulation

Curriculum Inventory

Common Application for  
Admission

Common Assessment

Multiple Measures

Math / English / ESL

Assessment Platform

Assessment Data Mart

Accessibility Center

Security Center

Technology / Systemwide Governance

Project Glue – SIS to Application Connectivity

Master Data Management / Data lake / Data marts

Federated Identity / OpenCCC Student Account / CCCID

CENIC Fiber Optic Network

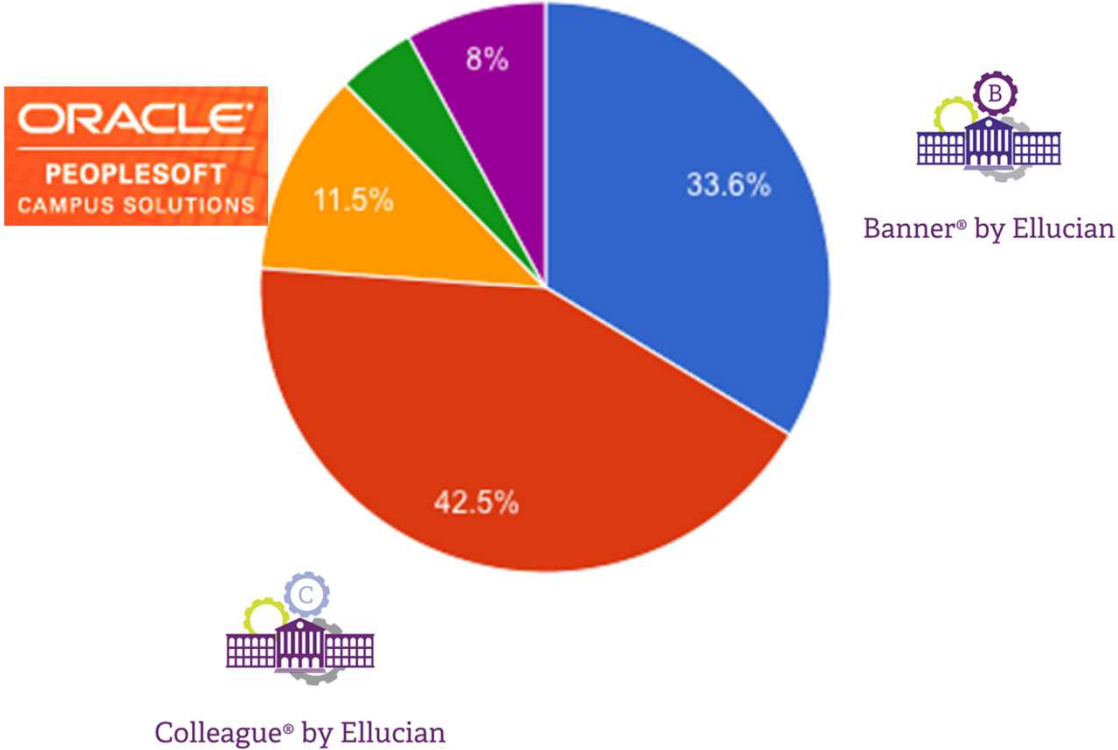
# Why a Project Glue?: Background

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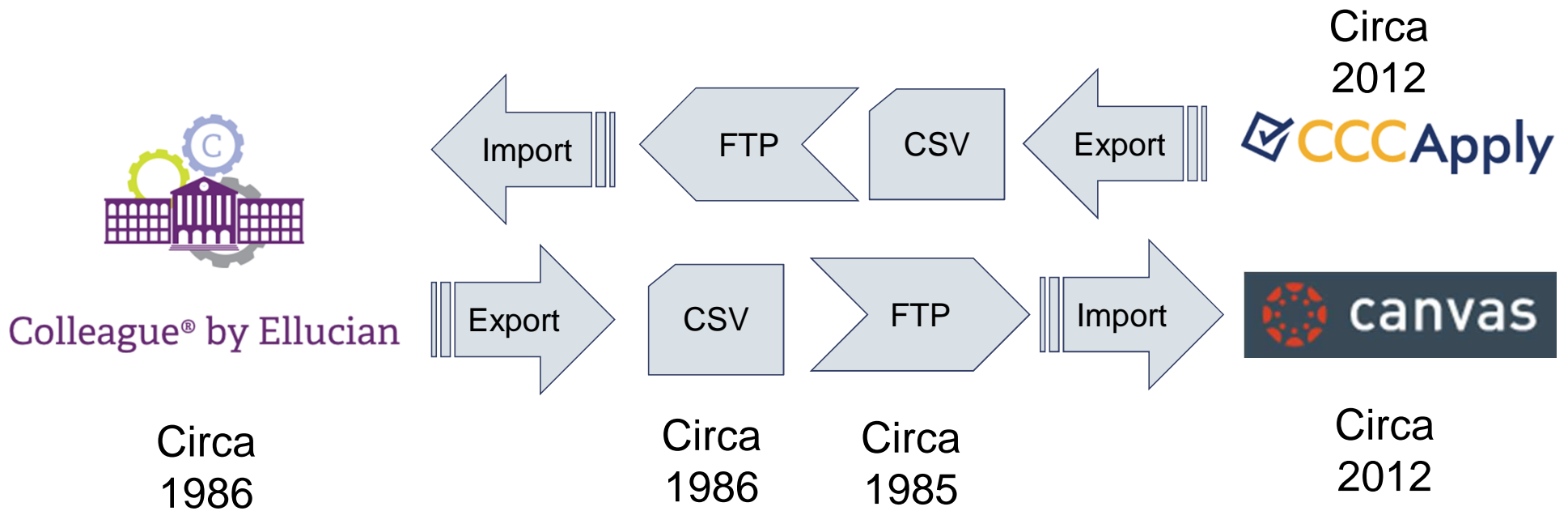
- Each individual project the CCCTC is involved with had planned a separate integration project with existing college systems.
  - In particular the ERP / SIS where the “state of the art” is to build import and export scripts and sometimes to undertake complex data mapping tasks which tie up the college’s most senior IT personnel
- The question we asked is, will colleges have the staff and time to support potentially over 20 integration projects?
  - Without a better integration strategy, we believed the plans (and grants) were at risk.

# Project Glue Landscape

## College SIS Types

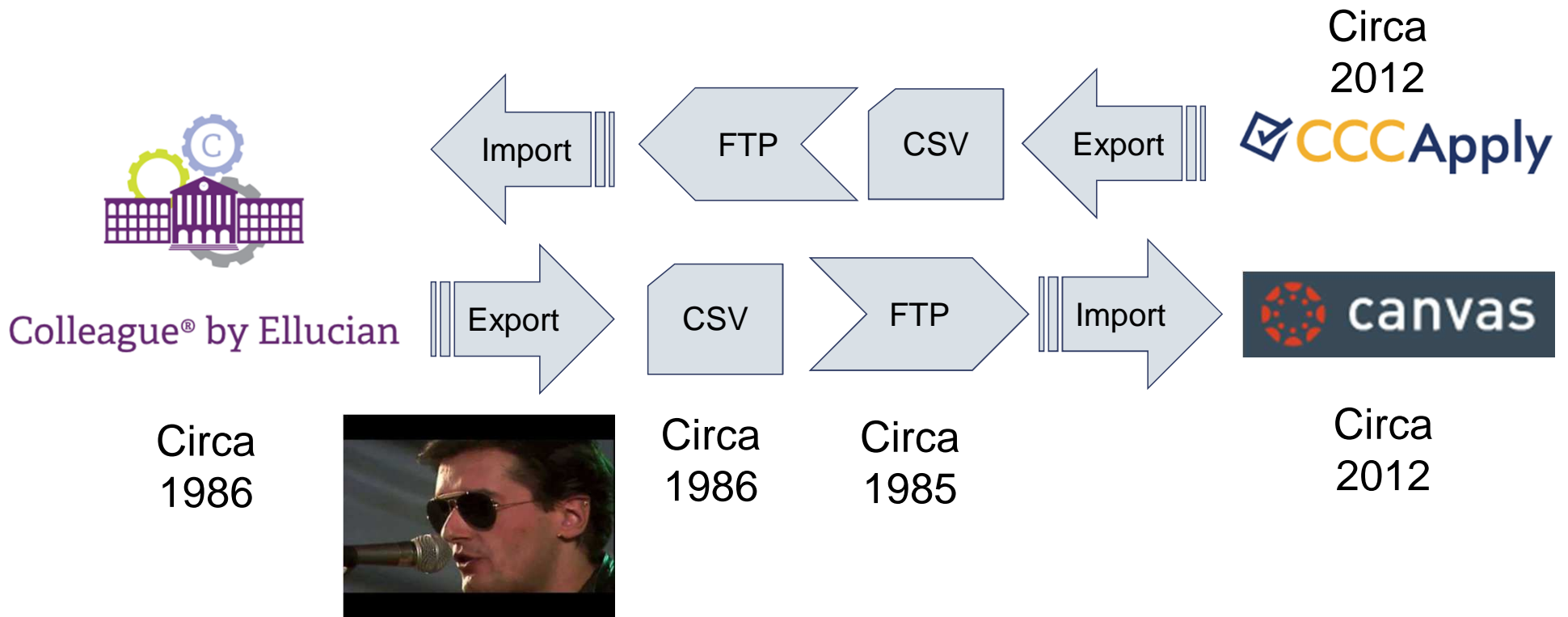


# Before Glue.. and still today





# Before Glue.. and still today



# Why a Project Glue?: Business Case

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- Personnel Costs: MIS Reporting as an example
  - CTOs report needing ~2 FTE\* to produce the required MIS reports
  - This represents between \$13 and \$15MM investment for the system (72 districts)
- Duplication of Data
  - Once data is extracted, it loses its ability to be synchronized with its source
  - This leads to unpredictable outcomes
- Opportunity Cost
  - Data that is hard to analyze results in no or poor analysis for the most part

\*CISOA survey

# What is Project GLUE?

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Glue is a development project designed to provide an integration infrastructure for software designed, built, or purchased by the CCCCCO

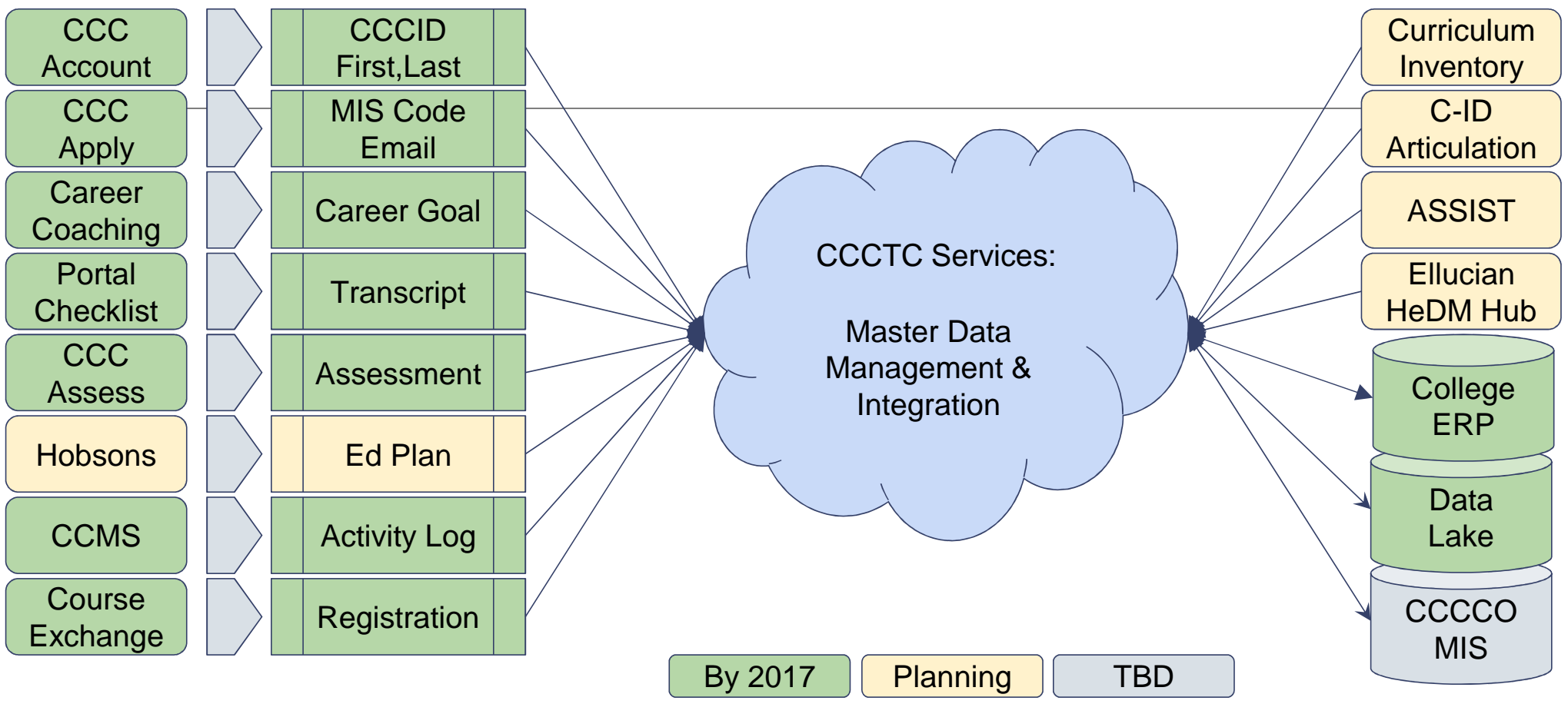
- Consideration is being given to whether this should be open to use by software built by any entity and acquired by a college.

## Includes:

- An extensible adapter, initially designed to integrate with ERP systems, called the College Adapter
- A standardized set of data objects such as student, course, etc.
- and, a data exchange model built around Master Data Management

The first version is being built for the OEI Course Exchange project and the CCC Assess web applications

# Project Glue Data Landscape



# The OEI Initiative Goals & Glue

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Glue was started to serve the OEI initiative and specifically the Course Exchange project.

Goals of the Course Exchange Include:

- Facilitate the enrollment & registration of students in teaching colleges
- As much as possible, minimize double data entry
- Be mindful of the stress involved by designing for real time transactions

For Glue this meant designing implementation templates that include direct support for existing business logic

- The first version has been implemented at 8 colleges against test instances of Banner and Colleague and designed using a test PeopleSoft instance



# Project Glue Rollout & Status

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Funding has been provided by the Chancellor's office (\$9M one time OEI categorical money) and the State Budget for the Tech Center to fund the implementation at every college in the system by personnel certified to do the work.

No need for college IT personnel to take on a new project

Currently, the Adapter is running at 8 OEI pilots colleges against both Colleague and Banner SIS systems

There will be an RFP issued soon with the goal of selecting qualified integrators.

Project support currently provided by Experis IT, a division of Manpower, Inc.

# The CAI Initiative Goals & Glue

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In August, it became clear that Glue was necessary for the first release of the CCC Assess application. Why?

Goals of CCC Assess Include:

- Facilitate a placement decision based on multiple measures
- Be mindful of the stress involved by designing for real time transactions

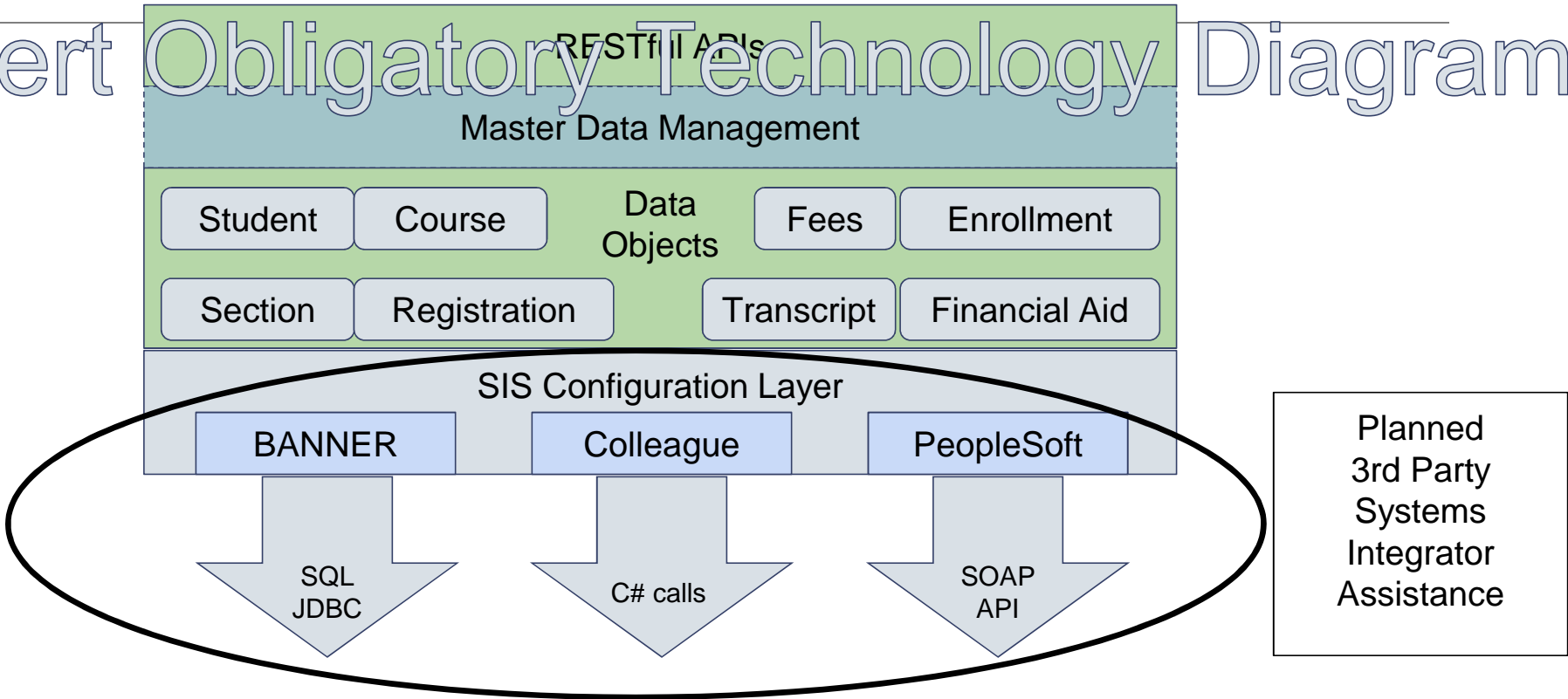
In this case, Glue was unable to use existing business logic because of new data (multiple measures) driving placement decisions

- Options provided: data written to “staging table” or business logic

The first version has been designed using a test instances of Banner (DeAnza and Ventura), Colleague (Butte & State Center), and PeopleSoft (MiraCosta)

# PROJECT GLUE– College Adapter

Insert Obligatory Technology Diagram





# Why Master Data Management?

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Our colleges want (demand?) technical choice.

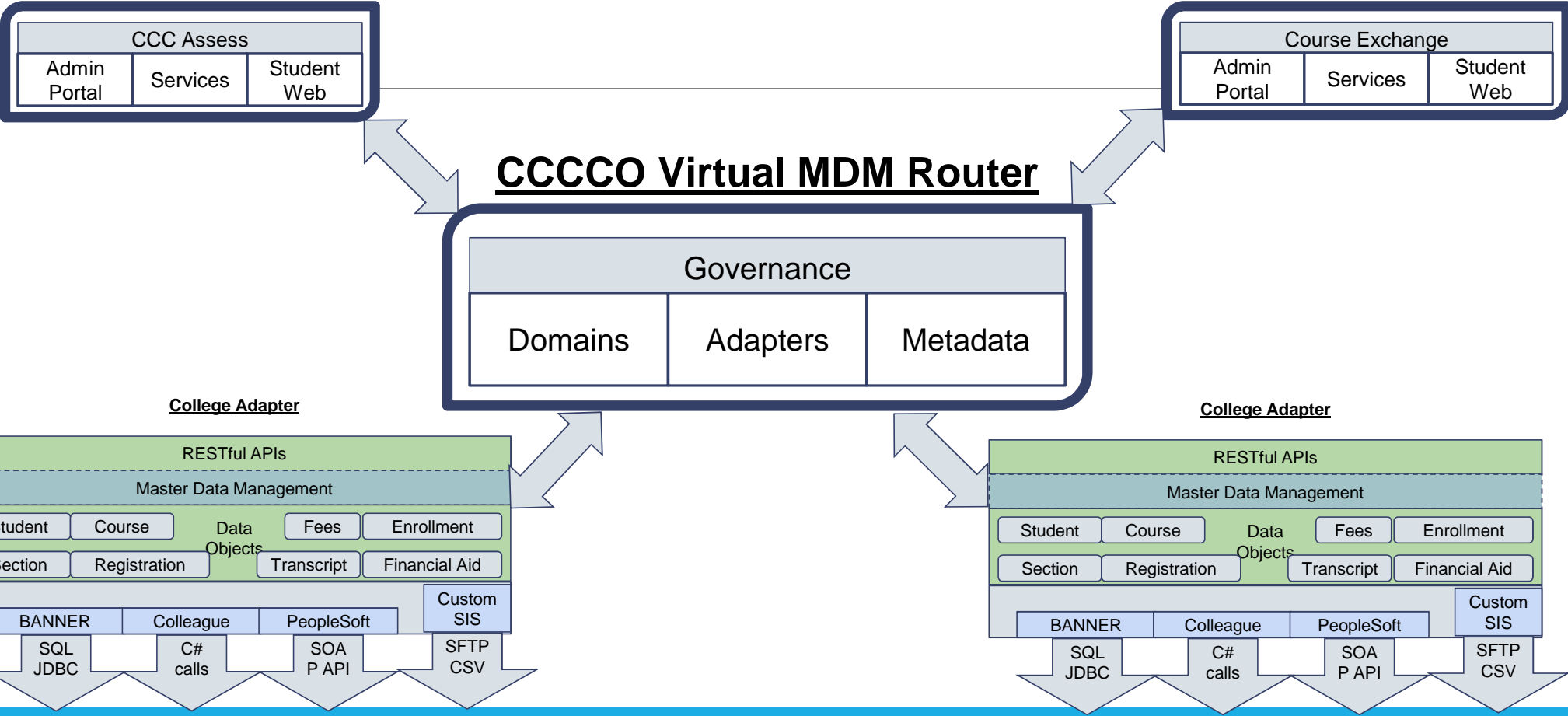
- Do I want data to be in sync between Canvas and my SIS? How about my Ed Planning service?
- Can I control how often (if ever) the data is updated?
- With that choice comes the additional burden of designing Glue to both insure consistent and up to date data as well as supporting the scale of transactions inherent in the CCC.

Goals of Master Data Management Include:

- Facilitate the choice of what data in the ERP/SIS is updated, by whom, and how often (throttle)
- Support the ability to notify participating systems of new data, e.g. provision a new student in Canvas
- Queue data changes in the event of high demand, system outage, or system overload

“No off the shelf MDM product has the features the CCC needs”, Gartner Group

# Master Data Management





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# Recent Activities

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# Recent Activities - OEI Pilot

All 8 OEI Pilot Colleges have been implemented and fully tested  
 End-to-End testing between Banner-Colleague-Peoplesoft complete  
 Ready for deployment on October 28th

	Kickoff & Initial Communication	VM Setup & Access	Adaptor Installation & Configuration	Testing & Bug Fixes	Production Readiness
<b>Foothill</b>	Complete	Complete	Complete	Complete	In Progress
<b>Fresno</b>	Complete	Complete	Complete	Complete	In Progress
<b>Ventura</b>	Complete	Complete	Complete	Complete	In Progress
<b>Lake Tahoe</b>	Complete	Complete	Complete	Complete	In Progress
<b>Coastline</b>	Complete	Complete	Complete	Complete	In Progress
<b>Shasta</b>	Complete	Complete	Complete	Complete	In Progress
<b>Butte</b>	Complete	Complete	Complete	Complete	In Progress
<b>MSJC</b>	Complete	Complete	Complete	Complete	In Progress

# Recent Activities - CAI support in Glue

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Despite recent changes to CCC Assess rollout plans, we plan to continue with our original Glue integration plans

29 CAI Colleges with Compass have been prioritized.

Design for Colleague, Banner, and Peoplesoft completed

- Reviewed with State Center, Butte College (Colleague), De Anza (Banner), and Ventura.

Established CAI section on [ccctechnology.info](http://ccctechnology.info)

# Recent Activities - Project Glue

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Presentations at Colleague User Group in August were well received

Webinars for CCC Assess - Banner, Colleague, and Peoplesoft colleges

Meetings with third-parties:

- Stanford & University of Texas proposal around transcripts
- Parchment, Inc. proposal for OEI transfer credit proof of concept

Positive Press:

- Forbes OnLine: ["California's New Playbook For Online Education"](#)
- TechEdge: ["Just Glue It"](#)
- American Association of Community Colleges: ["Building Course Exchanges"](#)

# Project Glue - 90 day plan

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## October:

- Release Version 1.0 of Glue Adapter for OEI and CCC Assess
- Release of RFP to select implementation partners for complete rollout

## November:

- Continue implementation for CCC Assess
- Complete design of Canvas integration
- Close RFP & Award

## December:

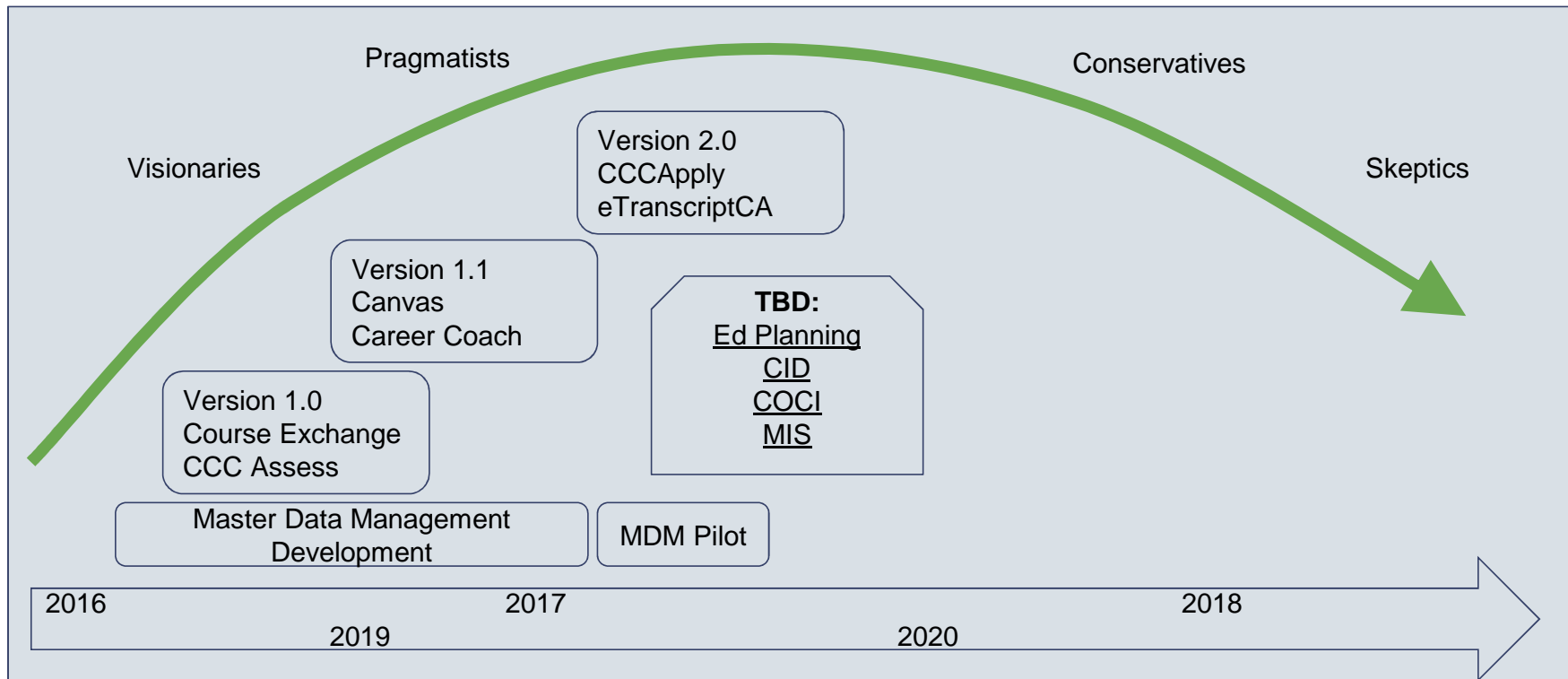
- Continue Canvas integration development
- Begin Career Choice integration development

## January:

- Transcripts via Glue proof of concept



# Longer Term Roadmap



# Opportunities, Risks, and Challenges

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## Opportunities:

- Many Colleges welcome Project Glue
- And, vendors see Project Glue as a game changer:
  - “I hope you know Parchment and me well enough to know that the problems it addresses, and the way it addresses them, are sincere motivators for why we do what we do. Glue is a very, very big idea as you know better than me. EdExchange certainly is too. To connect the dots around OEI the way we discussed should open eyes and new doors that really make a difference.” - Matthew Pittinsky, CEO, Parchment

## Risks:

- Long held mistrust of CCCCCO initiatives
  - Technical leaders do not understand the initiative governance model
- “No one can possibly know Colleague unless they run it

## Challenges:

- Implementation speed - spend the \$20M OEI one-time wisely
- Communication - address the mistrust and quell the unprofessional rumors
- Governance - Data Definition and Dictionary, and Technical Direction



# CCC's version of the popular video game: "Connect Them All"



Colleague® by Ellucian

Banner® by Ellucian

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# Questions?

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Feedback to: [Idelzompo@ccctechcenter.org](mailto:Idelzompo@ccctechcenter.org)