

Transforming the Campus Data Landscape with Edify

Moving from Silos and Confusion to Effective Collaboration

Partner Profile | John Carroll University



Today's Presenters and Moderator



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EAB

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Q&A

John Carroll University (JCU)

Background



Private Jesuit 4-year in Cleveland, Ohio



2,300 undergraduates and 450 graduate students



86% retention rate and 78% graduation rate

EAB Data and Analytics

- ▶ Edify partner since June 2019
- ▶ APS partner since January 2017

Moving from Problems to a Solution

Obstacles to Effectiveness



Inadequate
Architecture



Lack of
Governance



Poor
Communication



Ad Hoc
Solutions



Purpose Drift

Glimmers of Light



Academic
Performance
Solutions (APS)



Analytic
Dashboards



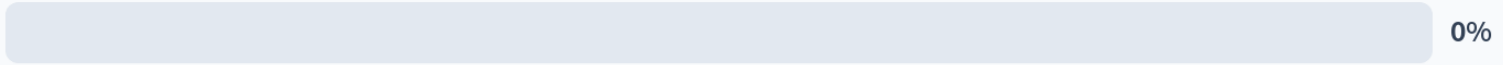
Data
Governance
Task Force



Edify

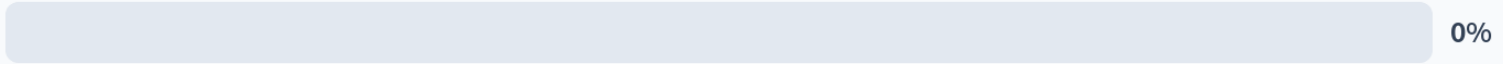
Do you these obstacles resonate with you?

Yes



0%

No



0%

What is your biggest challenge?

Nobody has responded yet.

Hang tight! Responses are coming in.

Embedding APS in Institutional Planning Processes



Data-Informed Program Review and Course Planning

PREVIOUS PROCESSES ►

Program Review

Each program required time to identify key points, find them, and interpret them.

- ✘ No standardized data requirements
- ✘ Heavy reliance on IR to provide the data
- ✘ Time-consuming manual data analysis

Course Planning

Keeping an eye on over- or under-filled courses

- ✘ The only report was poorly designed and difficult to use.

IMPROVEMENTS WITH APS ►

APS Data Requirements

Program Self-Study Reports

- Metrics that aligned with JCU's priorities, such as Intercurricular Dependencies, were selected.
- Faculty members were required to use APS data to help complete their reports.
- Trainings, an APS how-to guide, and more were provided.

Course Planning Optimization Dashboard

- Over- and under-filled courses were easily identified.
- Filters made it easy to see areas of interest.
- Additional data was only a click away.

IMPACT ►

Improvement Opportunities

180 Hours

Saved in manual data collection and analysis

- APS data surfaced areas of excellence.
- Faculty identified areas below department standards, added commentary for additional context, and proposed next steps for improvements.

Allows JCU to keep an eye on students' ability to graduate on time while also boosting productivity (teaching loads).

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Data Governance



Data Governance Initiatives

Empowering Individuals Across Campus to Strengthen and Standardize Data

Data Governance Task Force

Leadership support and the correct people are key!

Survey of the Data Landscape:

- Identified all data being used across the university
- An 18- to 24-month process

Processes to Understand:

- Student Lifecycle
- Employee Lifecycle
- Faculty as a Special Case
- Everything Else (e.g., Facilities, ITS, Legal, Risk Management)

Guidelines for Governance Work

What We Learned



Data Is Connected



Active Data Stewards



Shared Definitions



Acceptance of Difference



Data Request Process

Data Steward Role and Responsibilities

Data Governance Task Force Data Steward



ROLES & RESPONSIBILITIES:

A staff member with delegated oversight and decision-making responsibility for a subset of the University's data.

They have significant technical expertise in data under

their purview and deep knowledge of related business processes. They may supervise or also serve as functional data technicians in the day-to-day capture and maintenance of specific subsets of data in related transactional databases.

- **Promote appropriate data use** through planning, policy, and protocols at the University.
- **Implement data standards.** Ensure that data are created and maintained according to University standards. It is the Data Stewards' responsibility to ensure that functional data technicians in their functional area are trained and follow the standards developed by the Data Governance Committee as they relate to all forms of data entry in accordance with University policy.
- **Monitor data quality.** Work with Data Custodians and Functional Data Technicians to create a process for identifying data entry errors and correcting the data to match University standards. They report to the Data Governance Committee any issues that may require larger action.
- **Handle inquiries about data.** Receive and respond to any inquiries related to data that originates from the functional area they oversee, including access requests, metadata requests, standardization, organization, definition, and usage, etc.
- **Facilitate and resolve shared data management issues,** including communicating changes to data capture or reporting needs.
- Serve as a member of the Data Governance Committee

Data Definitions

Undergraduate Admission

Slate is the authoritative data source.

- **Prospects:** Potential student vendors. Not all Prospect
- **Inquiries:** Potential student Not all Inquiries were Pro
- **Applicants:** Potential student all Applicants were Prosp Applicants. This is the nu
- **Completed Applicants:** A (e.g., transcripts, test sco
- **Decisions:**
 - **Institution Decision:**
 - **Admitted:** a postsecc
 - **Denied**
 - **Student Decision:**
 - **Withdraw** notificatio
 - **Deposit:** A intent to a
 - **Cancelled:**

cooperative agreement with some other U.S. college or an institution of another country. *Source: IPEDS Glossary*

- **Incoming:** students enrolled elsewhere but studying at our institution temporarily
 - **Outgoing:** our students studying temporarily at another institution
- **Readmit:** A previously enrolled student who has applied for reentry to the institution. (i.e., not a new, first-time or transfer student).
- **Non-Degree Seeking:** A student enrolled in courses for credit who is not recognized by the institution as seeking a degree or formal award. *Source: IPEDS Glossary.*
- **Transient (Visiting):** The student's home institution is elsewhere, where they are seeking a degree. JCU does not monitor their progress in any way, and there's no guarantee the course will transfer to their home institution.
Categories of visiting students include but are not limited to:
 - **Dual Enrollment (CEP):** High school students taking college-level classes that meet their high school graduation requirements and will appear on their college transcript.
 - **Cross-Registration:** These students are active at their home institution but take a course at JCU. The home institution verifies them, there are approved courses students can take that will transfer, and they must be enrolled full-time at their home institution. (e.g., ROTC)

Student Population

- **First-time, first-year:** A student (noted below) attending a institution students enroll students enrolled in the f summer term, and student postsecondary formal aw *Glossary*
- **Transfer:** A student enter previously attended a po graduate). This includes r institution the prior summ *Source: IPEDS Glossary*
- **International Student:** A who is in this country on indefinitely. *Source: IPED*
- **Exchange Student (relate college program studying**

Financial Services

Banner is the authoritative data source for financial aid information. FAFSA is the authority source for students' social security number.

Awarding

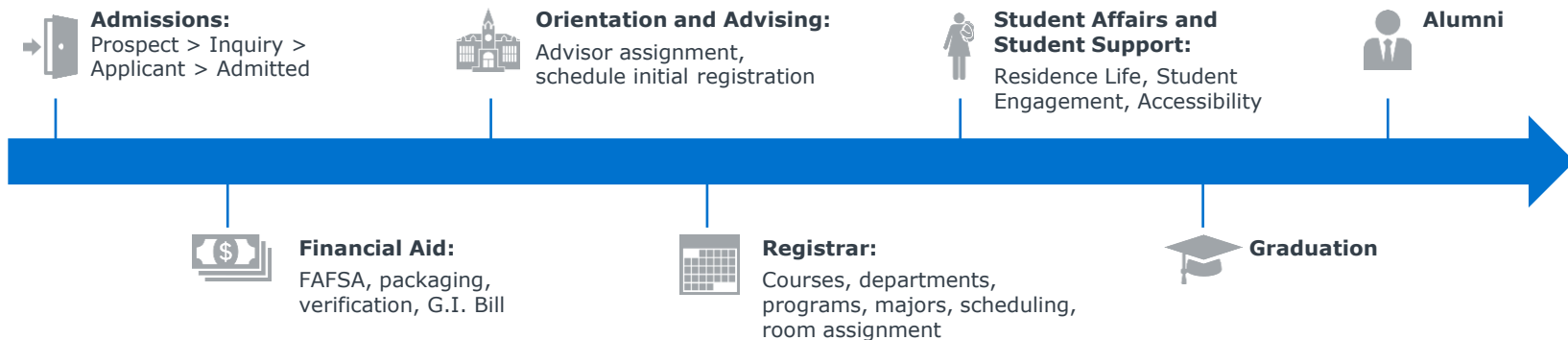
- **Financial aid:** resources to assist students with the cost of education
- **Cost:** direct and indirect expenses assigned to enrollment for any given period
- **Expected Family Contribution (EFC):** calculation derived by federal financial formula through the completion of the FAFSA
- **Need:** Maximum financial eligibility a student can receive based on Federal financial aid results

$$\text{Need} = \text{Cost} \text{ minus } \text{EFC}$$

- **Merit aid:** Assignment of an institutional monetary support or award based on a student's academic performance at the time of entry. Merit aid can also fulfill students' 'need'
- **Need-Based aid:** Aid awarded based on the calculated need formula (see above)
- **Fund Code:** JCU indication of a particular type of funding (e.g., JCU Grant, Presidential Scholarship, Stafford Loans, etc.)
- **Source:** The source of the funding. (i.e., State, federal, institutional, endowed)
- **Type:** Nature of the funding including whether the funds are expected to be repaid. (i.e., Grant, scholarship, loan, student employment)

Sample Data Lifecycle Uncovered in Data Landscape Survey

Undergraduate Students



Basic Breakdown of Each Meeting

- Walk us through the data created and used during each step of interacting with students
- Discuss roadblocks you face in terms of accessing data
- Share about other campus units that need to know about your data

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Edify as the Heart of Campus Data



A Data and Analytics Solution to Empower Strategic Decisions

Bring Your Data Together

Access and Warehousing



*Cloud-native, secure, infinitely scalable **data lake and warehouse** to support critical institutional initiatives*

Build a Culture of Data Confidence

Data Governance



*Higher ed **best practice rules and validations** to ensure a golden record/single source of truth*

Empower Your Team with Insight

Reporting and Analytics



***Self-service, custom, and pre-built analytics** to drive efficiency and support decision-making*



Build Your Team's Capacity

Professional Services Hours



***EAB support** to meet you where you are. Your team's use of Edify can be self-service or partially or fully managed by EAB.*

Strategy and
Culture Support

Integration
Services

Process
Consulting

Data Science
and Analysis

Raise Your Hand!

Are you familiar with the Export Zone in Edify
and building exports?

myJCU Campus Portal as a Central Location for Information

Tabs Are Permissioned by Role (Employee or Student)

The screenshot shows the myJCU Campus Portal interface. At the top left is the myJCU logo. At the top right, it says "Welcome, Todd Bruce" next to a user profile picture. Below the logo are three tabs: "Home", "Employees", and "Students". A blue callout box labeled "Tabs based on identity" points to these tabs. Below the tabs is a white announcement box with a megaphone icon and text: "Have a device that cannot be connected to EduRoom? Get your personal access code for the JCU-IOT network by selecting 'JCU-IOT Wireless Network PPSK' from the profile menu in the upper right corner (by your picture)." A blue callout box labeled "General announcement" points to this box. The main content area is divided into three columns: "Calendar", "InsideJCU", and "Quick Links". The "Calendar" column shows a daily view with events like "NSSE Results/Retention Details" and "Data Governance/Retention Schedule Review". A blue callout box labeled "Feeds from Google and Web RSS" points to the calendar. The "InsideJCU" column shows a date header "Thursday, September 21" and several event cards, including "Q@JCU Meeting" and "City of University Heights/WJCU Back to Campus Concert". The "Quick Links" column lists various services like "Argos Reporting", "Asset Essentials", and "Banner Admin Pages". A blue callout box labeled "Links to other campus systems" points to this list.

Knows who you are

General announcement

Feeds from Google and Web RSS

Links to other campus systems

Designing the Exports for the myJCU Portal

Identifying and Configuring the Data



Understanding What Data Is Needed

Identify the use case for the information and what data elements are required.



Identifying if What We Need Is in Edify

JCU's Edify instance continues to expand as new intake data sources are added and different uses are discovered.



Building the Export

Build the SQL to send information to myJCU.



Configuring the Delivery

Identify where the data needs to go.

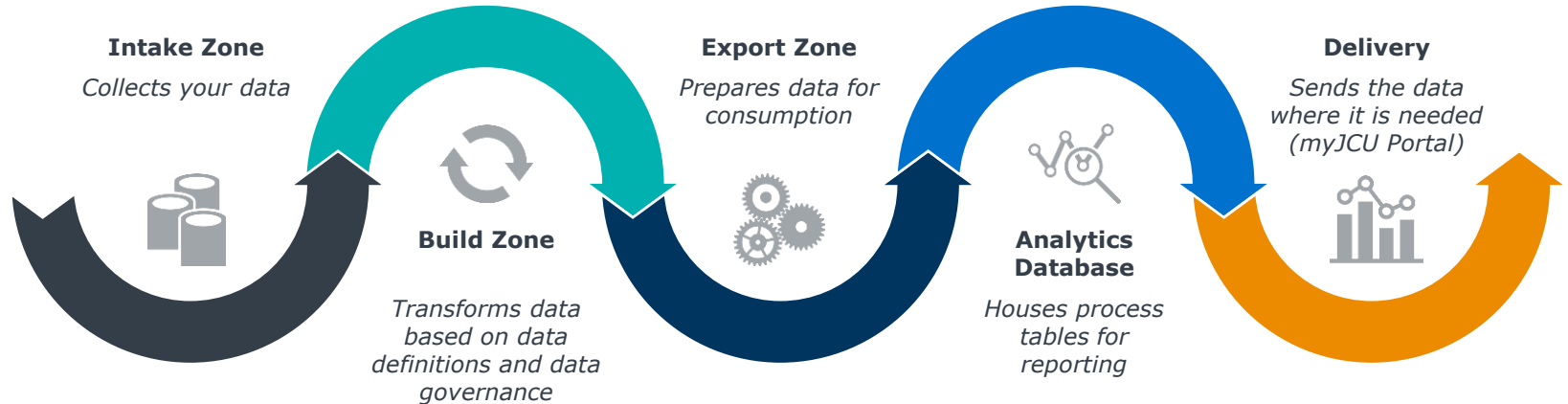


Export Mindset

Do as little data transformation as possible in Exports. Leave that to the Build Zone!

Edify Data Flows into the myJCU Portal

Bringing Together Disparate Data and Making It Consumable



Extending Edify to Support All Data Needs That Arise



JCU Data Definitions

- The functional output of Data Governance



Perspectives and Subtleties

- Different people with different views
- ...down the rabbit hole!



Extend Existing or New Build Plan

- Does the addition fit into an existing plan's intention?
- How is it to be used?



Populate the Build Plan

- Build in layers
- Prototype in Database IDE and the Analytics Database

Edify Exports Supply Data for the myJCU Portal

Self-Service Resources on the myJCU Portal

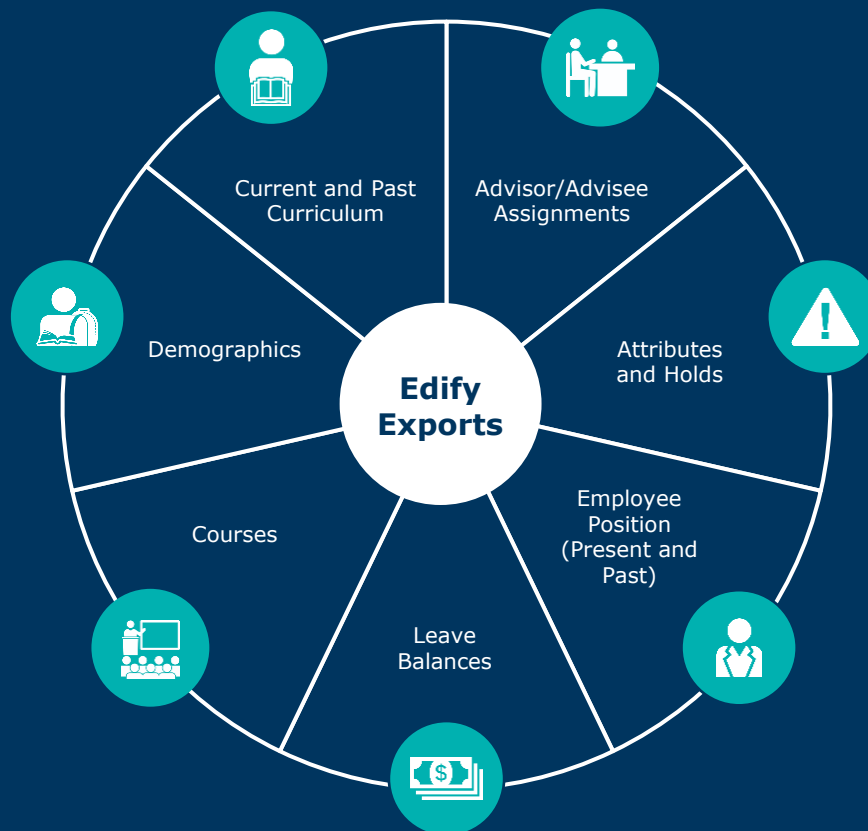


Includes:

- Communications
- Forms and workflows
- Academic and Employee Services



Bridges the gap between Admissions and Advancement





Curriculum History

- New Build Plan
- Needs to include multiple changes within a term
- Created link from student_term_level



"Fixing" Definitions

- Original Build Plans needed "tweaking"
- "No good plan survives first contact with the Enemy Use Case"



{{person_affiliation}}1 The "is_" Table

- New Build Plan
- How a person is affiliated
- Simple to join
- "Current State"
- Did not want to over-widen employee, person, and student plans
- Is_student, is_employee, is_current_advisor, is_advisor, etc.

1) Represents the different ways a person can be identified at JCU.

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Streamlined Reporting with Edify



How would you describe reporting at your institution?

Chaotic, each office produces mismatched numbers

0%

Manual, IR/IE Office manages all data requests

0%

Streamlined, easy for users across campus to access data

0%

Mix of a and b!

0%

Edify Workspaces Support Key Academic and Admissions Reporting

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Validating JCU Data Through the Edify Build Process

Faculty Reporting



- Previously: Reports were printed during fall and spring terms to create "The Book" (pictured above)
- New Edify Dashboard: Data visualizations create data accessibility and ability to pull data more regularly

LMS Utilization



- Previously: Limited insight into LMS use across campus
- New Edify Dashboard: Analytics to uncover LMS utilization trends, student engagement, and more

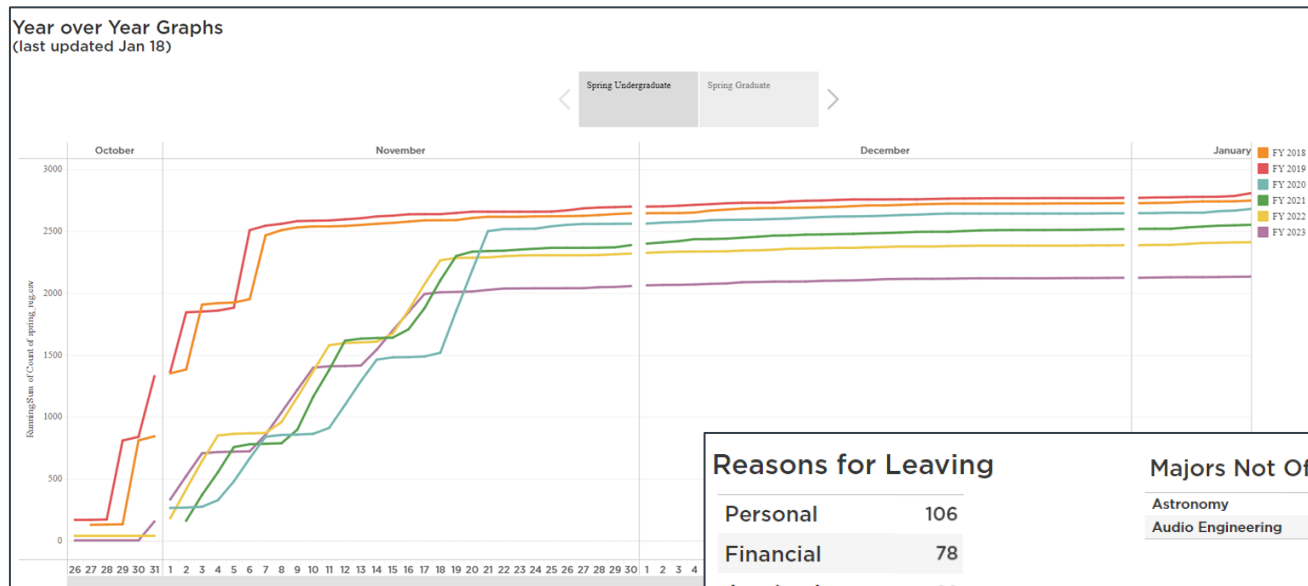
Enrollment Reporting



- Previously: Manual creation of weekly "Portents of Enrollment" report
- New Edify Dashboard: Data model supports weekly enrollment reporting visualizations

Portents of Enrollment Initiative Emerged During the Pandemic

Closely Monitoring Retention



Data

- Students Registered for Class Next Semester
- Graduates by Program
- Withdrawals



Reasons for Leaving		Majors Not Offered	
Personal	106	Astronomy	
Financial	78	Audio Engineering	
Academic	62		
Social	55		
COVID-19	12		
Administrative	1		

Preparing the Weekly 'Portents' Email

Time-Consuming and Manual Process

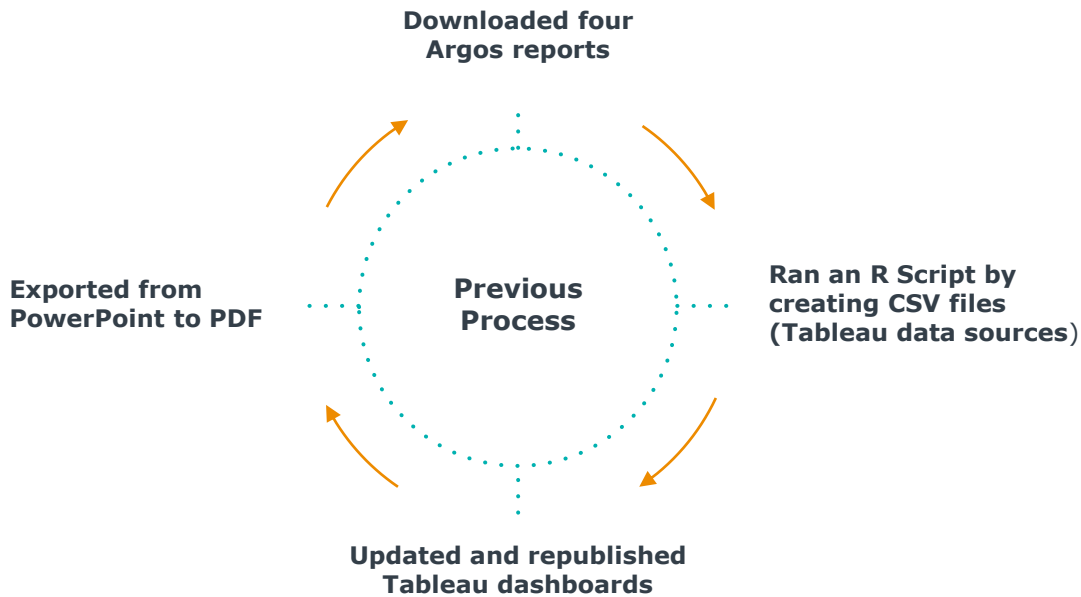
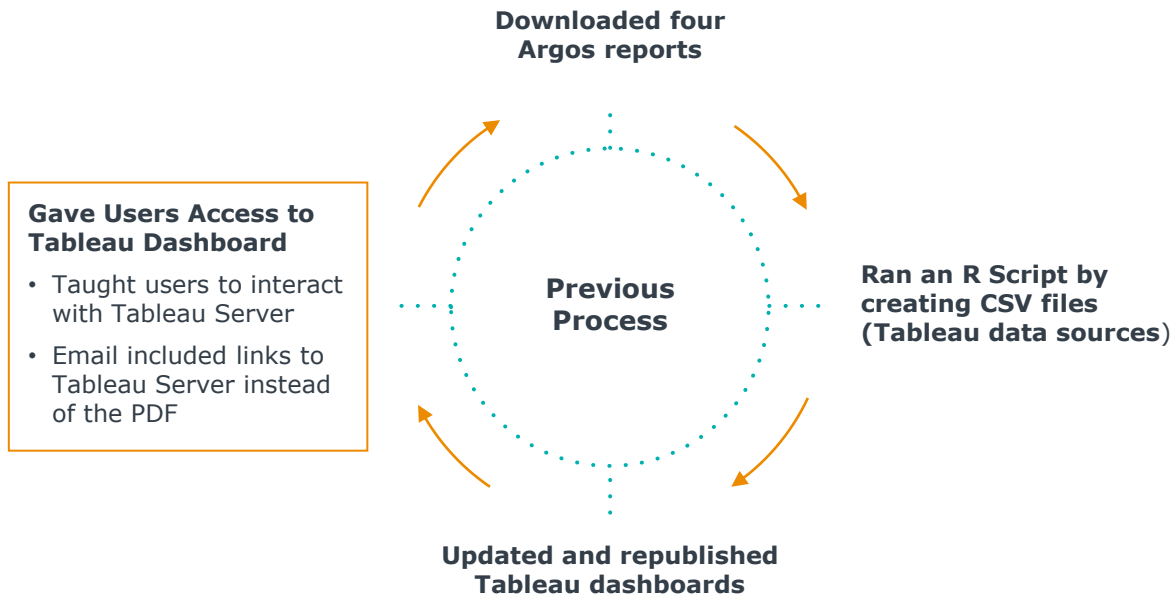


Tableau Dashboard Eliminated Need for PDF Files



Saving Time by Giving Users Access to the Data



Request for More Context Added Secondary Process

Using Rapid Insight Construct to Organize Data

Process



Export CSVs from Tableau

Reports with registration status, student type, graduation date, and withdrawals data



Run Rapid Insight Construct Job

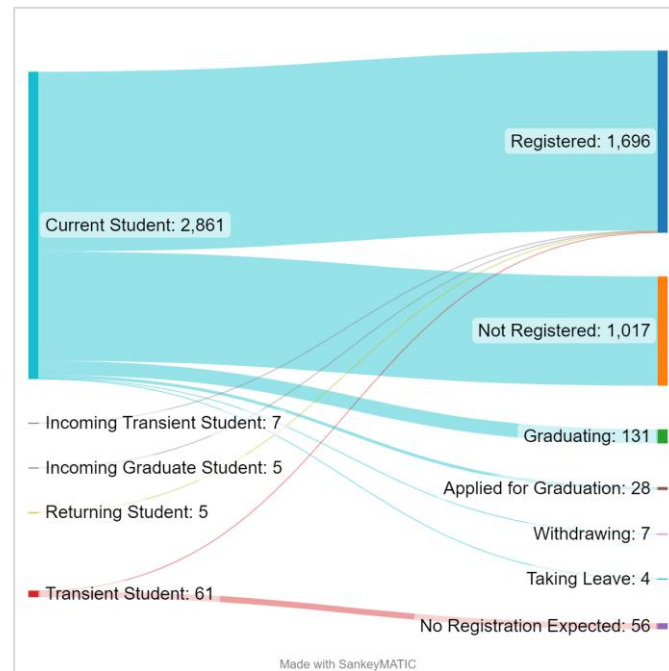
Exports are combined and categorized where students started and stopped, summarizing how many years are in each flow of data



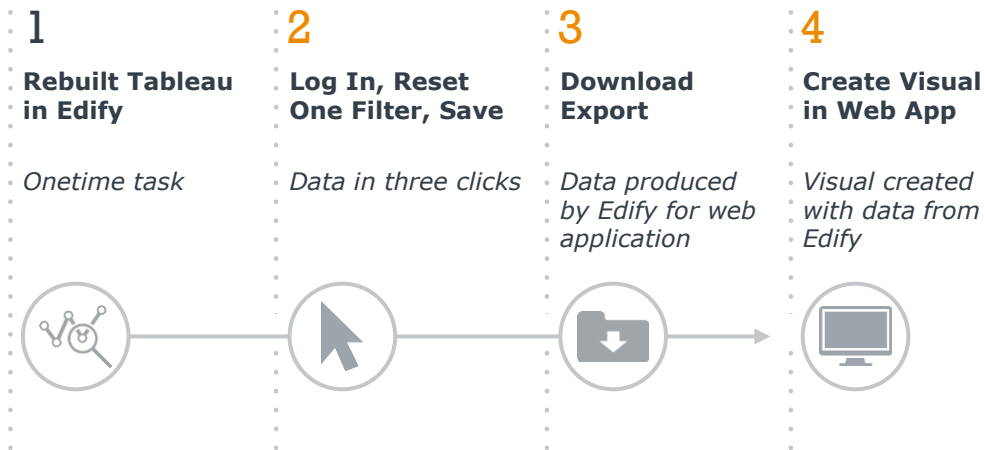
Use Web App to Create Data Visual

Sankey diagram shows if students by type have registered, are graduating, applied for graduation, withdrew, took leave, etc.

Data Visual Created with Web App



Edify Dashboard Saves Staff Time and Creates Entry Point for Users



Entry Point for Stakeholders to Use Edify

Train users to access Edify and use the "Portents" dashboard to inform their work

Impact



▶ **45-60 min**

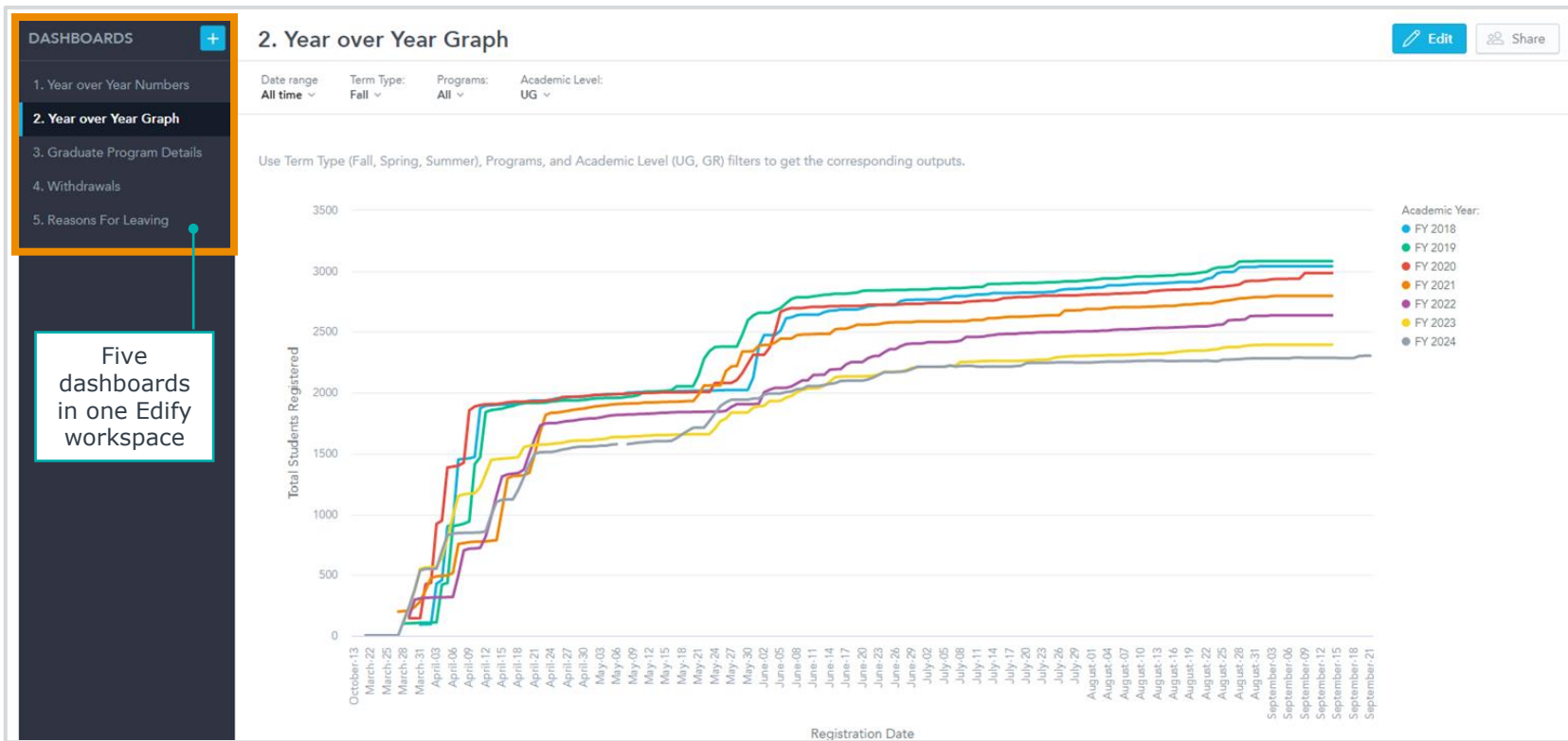
Time Saved Each Week

▶ **2-3 hours**

Setup Time Saved Each Term

▶ **82**

Individuals Receive Portents Data



Five dashboards in one Edify workspace

Additional Benefits Achieved Through the Portents Process



Challenges Assumptions

The data validates and challenges assumptions about how enrollment is trending, etc.

Provides Accurate Student Count

Sankey diagram includes only students eligible to register, allowing users to see how many haven't registered.

Enables Data-Informed Course Decisions

The data, coupled with the APS CPO dashboard, helps individuals monitor course demand and ensure efficiencies.

Enhances Transparency

Relevant individuals are more looped into the process and know what's happening.



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But What's It Really Like?



Meet Users Where They Are



Newsletter Approach “Training Tidbits”

Offer an opt-in option to receive bite-sized training, opportunity to link to additional resources, just-in-time messages (sync training with user’s needs right now)



Archived Instructions in Multiple Forms

Consider use of annotated screenshots, text, and screen-capture video with captions



Workshops and One-on-One Consults

In-Person is nice for tech-shy folks; remote can be quick and easy



Approach

- This is a situation that calls for a teaching/learning mindset!
- Consider partnering with data/analytic faculty, ITS Training staff, Faculty Development/Teaching and Learning offices

Training Tidbit from *Institutional Effectiveness*

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DATA ACCESS

The Analytics Server (Tableau)

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[Filters and Interactions](#)

[Courses \(by Subject\)](#)

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[Courses \(Breakouts\)](#)

[Faculty](#)

[Majors, Minors, and Concentrations at Graduation](#)

[Major/Minor Combinations at Graduation](#)

[Majors, Minors, and Concentrations Each Term](#)

[Key Metrics](#)

Credit Hours, Sections

Majors, Minors, and Concentrations at Graduation

Majors, Minors, and Concentrations Each Term

Individual Faculty Teaching Load Analysis (SCH/FTE)

Department Teaching Load Analysis (SCH/FTE)

Share of Credit Hours and Sections Taught by Full-Time Faculty

Academic Performance Solutions (EAB)

[Logging In, Getting Around, and Getting Help](#)

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[Course Planning Optimization: Registration Status](#)

[Course Planning Optimization: Course Planning & Course Analysis](#)

[Breakouts](#)

Portents of Fall Enrollment as of Aug 9



Todd Bruce <tbruce@jcu.edu>

Wed, Aug 9, 8:57 AM

to Data, Alan, Paul, Bonnie, Edward, Sherri, Robert, Ryan, Naomi, Brian, Carolyn, Colleen, Mike, Laura, Melissa, Rodney, Ela



Good morning,

This is your weekly update email. For more information about this email series or the links below, please check the link at the end of the message, or ask me for more information!

tl;dr? A bit of a broken record, I guess: both undergraduate and graduate registrations are still close to last year at this time. Strictly speaking, undergrads are 2.4% down and grad is up 1.7%.

To investigate further, please consult the dashboards listed below in [Edify](#):

- Year over Year Numbers
- Year over Year Graphs
- Graduate Program Details
- Withdrawals
- Reasons for Leaving

The Sankey diagram is below:



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Q&A



Have a Question? Raise Your Hand!



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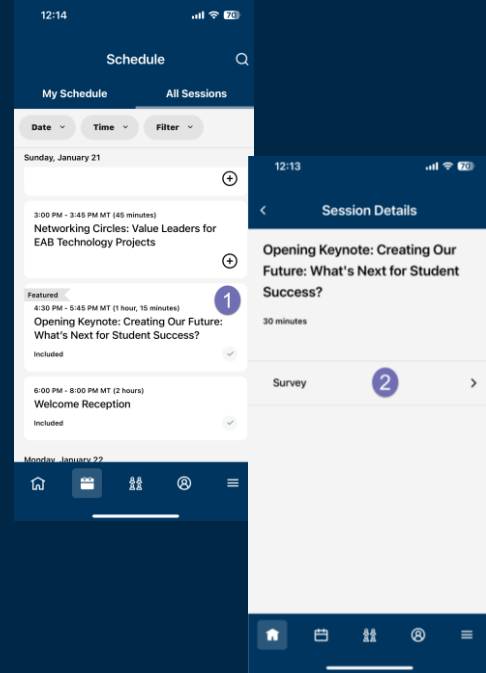
Complete Session Evaluations

Your feedback is important to us, please take a few moments to **tell us about your CONNECTED experience.**

Evaluations are available in the event app by clicking on a session and then clicking **Survey**.

Need help with the app?

Stop by the **information desk!**



CONNECTED24

Join us tonight for a
CONNECTED Celebration!



Join us at **5:00 p.m. in the Aurora Ballroom B-D** to celebrate with your colleagues and peers.

Bites, drinks, and fun provided



Next Up: **Lunch!**

Head straight to Aurora Ballroom A located on the 2nd floor.

Lunch is being served family style – it'll be ready for you at your table. Refer to your badge to locate your table number. There will be staff on hand to help direct you.



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