

The background features a complex network of blue lines and arrows. Some lines are solid, while others are dashed. The arrows point in various directions, creating a sense of movement and connectivity. The overall aesthetic is clean and professional, typical of a corporate or academic presentation.

UB Business Days 2024

Informed Decision-Making with Actionable Intelligence Dashboards

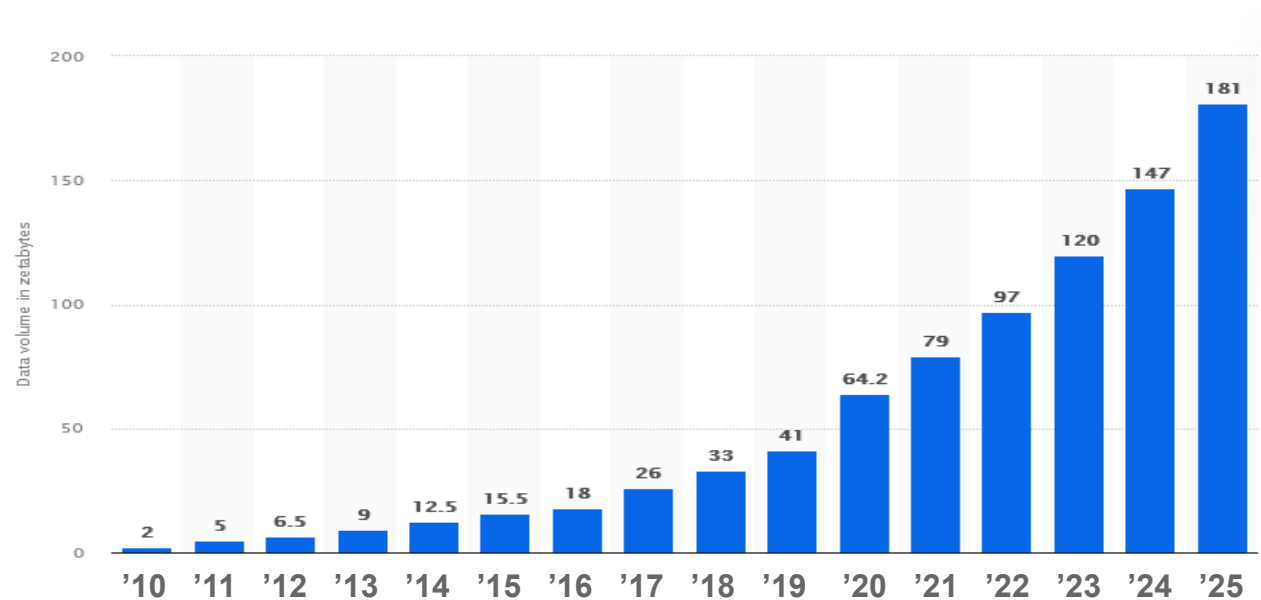
Brian O'Connor
Assistant Vice President for Data Analytics
Office of Institutional Analysis (OIA)
Institutional Analytics Team

UB Actionable Intelligence Evolution from Silos to Collaboration

- Actionable Intelligence → Data to Insights (What, Why, How)
- Analytics Ecosystems → Path to Actionable Intelligence
- A Joint National Call to Action on Analytics in Higher Education
- Office of Institutional Analysis (OIA) and the Analytics Team
- Culture Shift → Communication, Collaborative, Partnerships
- One Size Doesn't Fit All → Designing for Different Audiences
- Example Dashboards → Intelligence for Decision Support
- Questions?

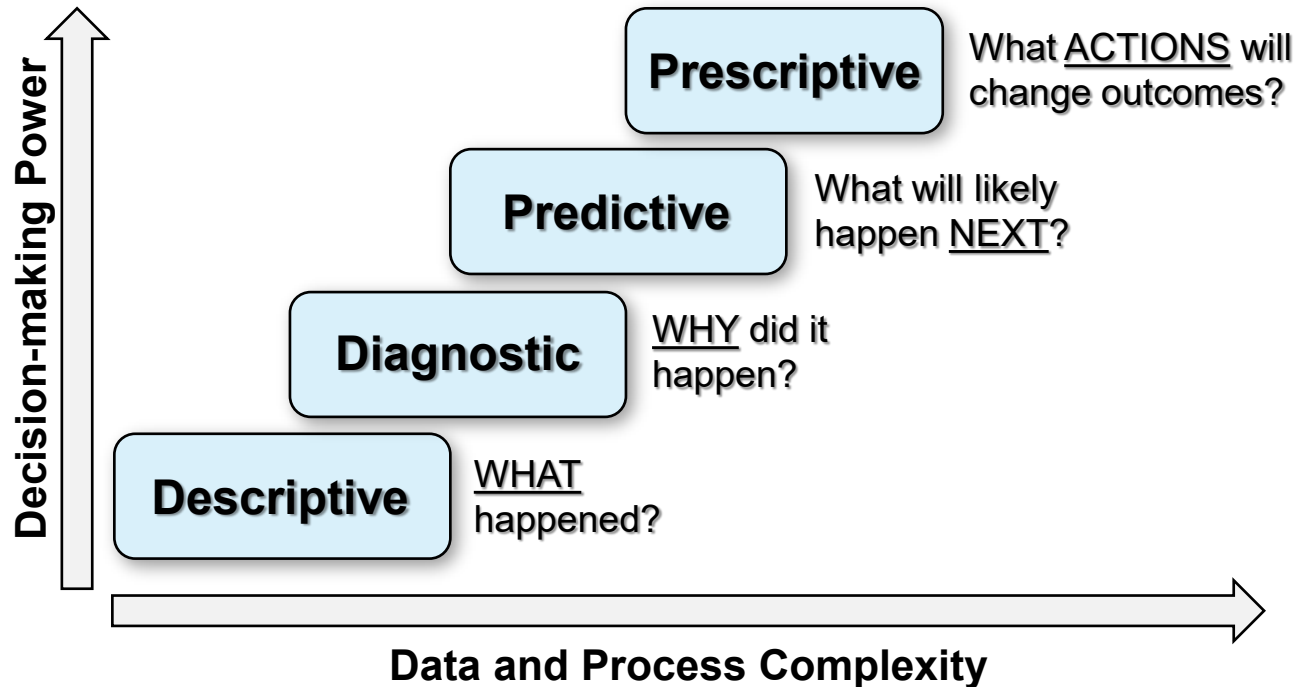
Drowning in Data ... Starving for information!

Volume of data/information created, captured, copied, and consumed worldwide from 2010-2023, with forecasts for 2024-25 (in zettabytes)

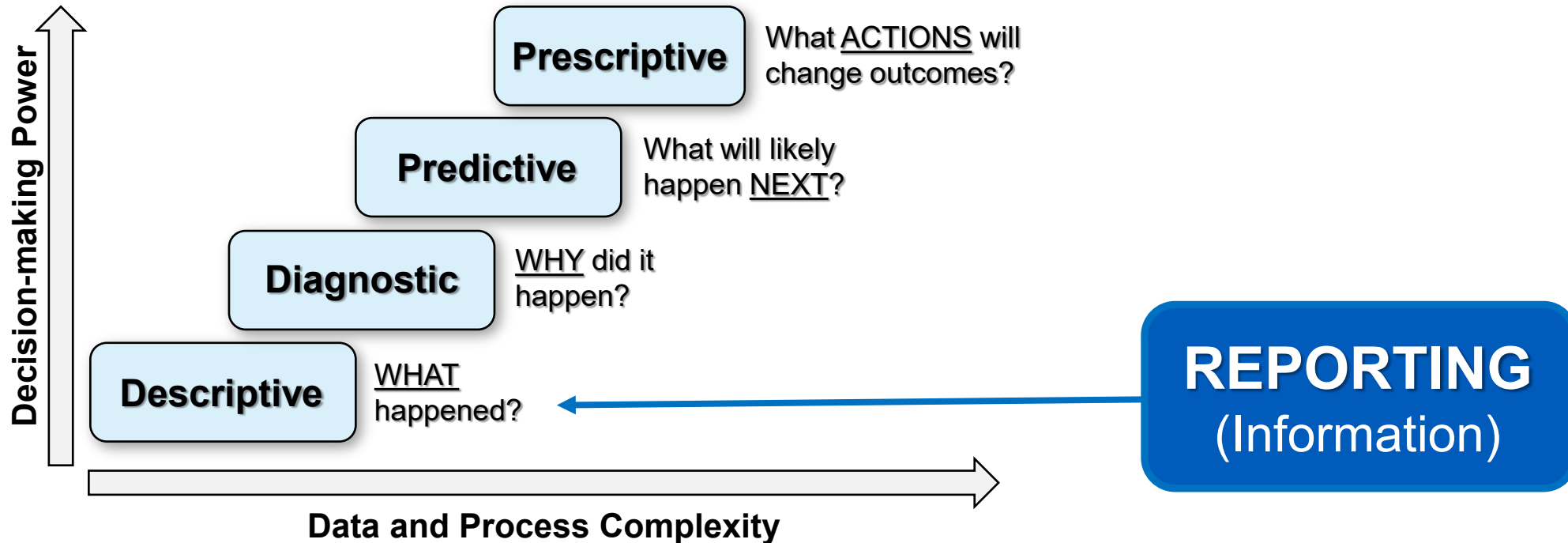


Analytics Maturity: Shifting Culture Towards Actionable Intelligence

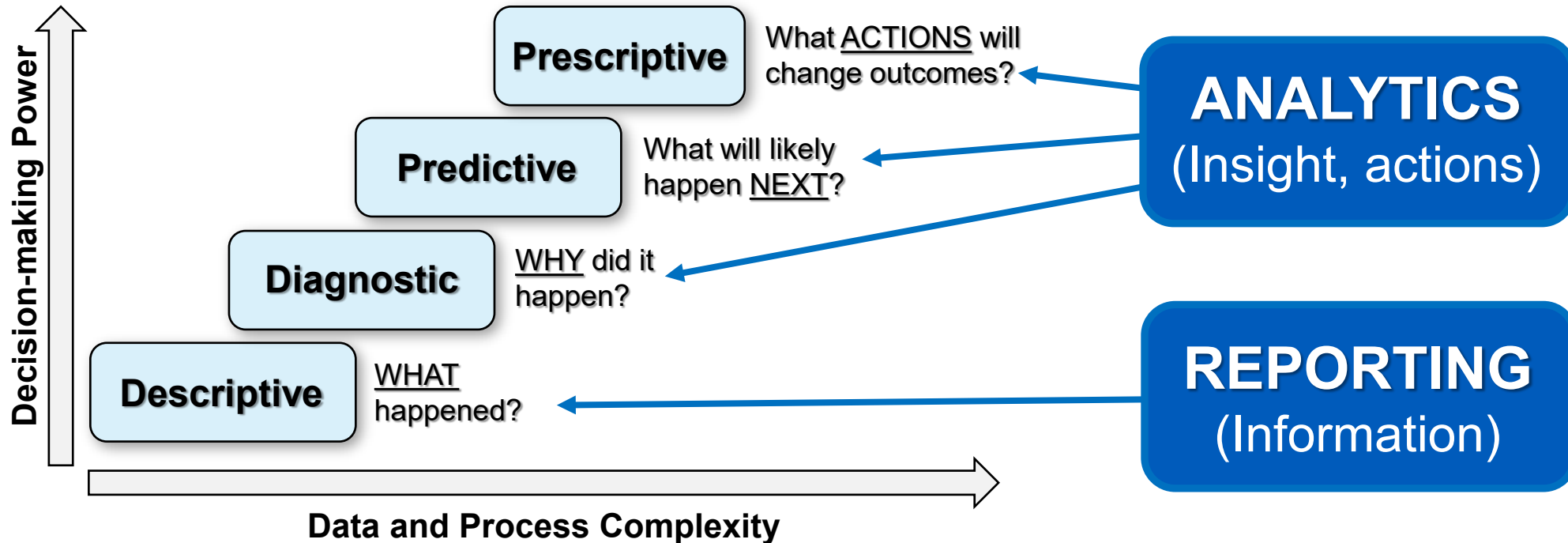
Shifting Culture Towards Actionable Intelligence



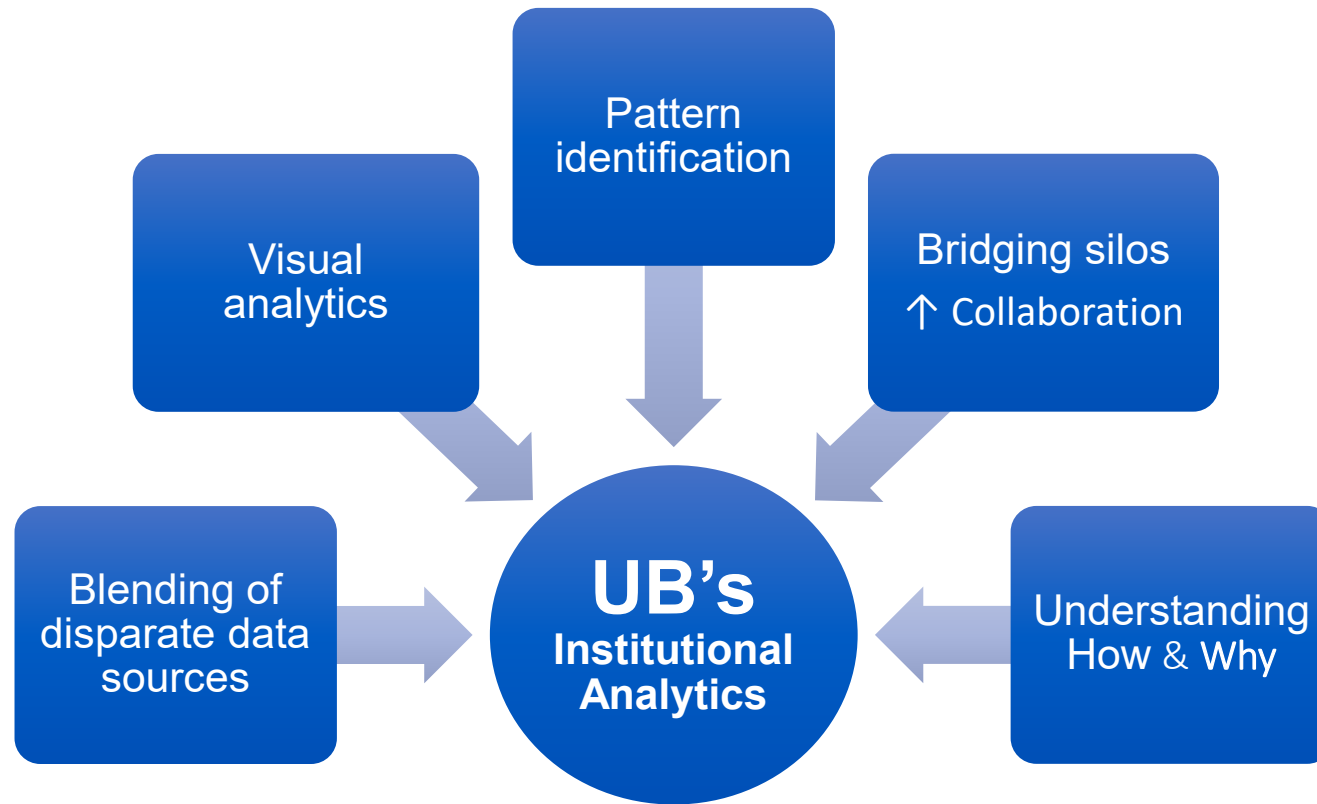
Shifting Culture Towards Actionable Intelligence



Shifting Culture Towards Actionable Intelligence



Institutional Analytics Team → Actionable Intelligence



Analytics Ecosystem Path to Actionable Intelligence

Analytics Ecosystem – Path to Actionable Intelligence

What are we Trying to
Better Understand?

Operational
Processes

Institutional
Priorities

Campus
Initiatives

Analytics Ecosystem – Path to Actionable Intelligence

What are we Trying to Better Understand?

Operational Processes
Institutional Priorities
Campus Initiatives



Data Transformation and Curation

Rich Disparate Sources
Raw Data Cleansing
Integrating Sources
Making Viz-Ready

Analytics Ecosystem – Path to Actionable Intelligence

What are we Trying to Better Understand?

Operational Processes
Institutional Priorities
Campus Initiatives

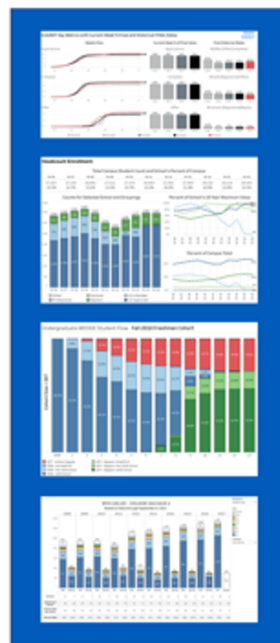


Data Transformation and Curation

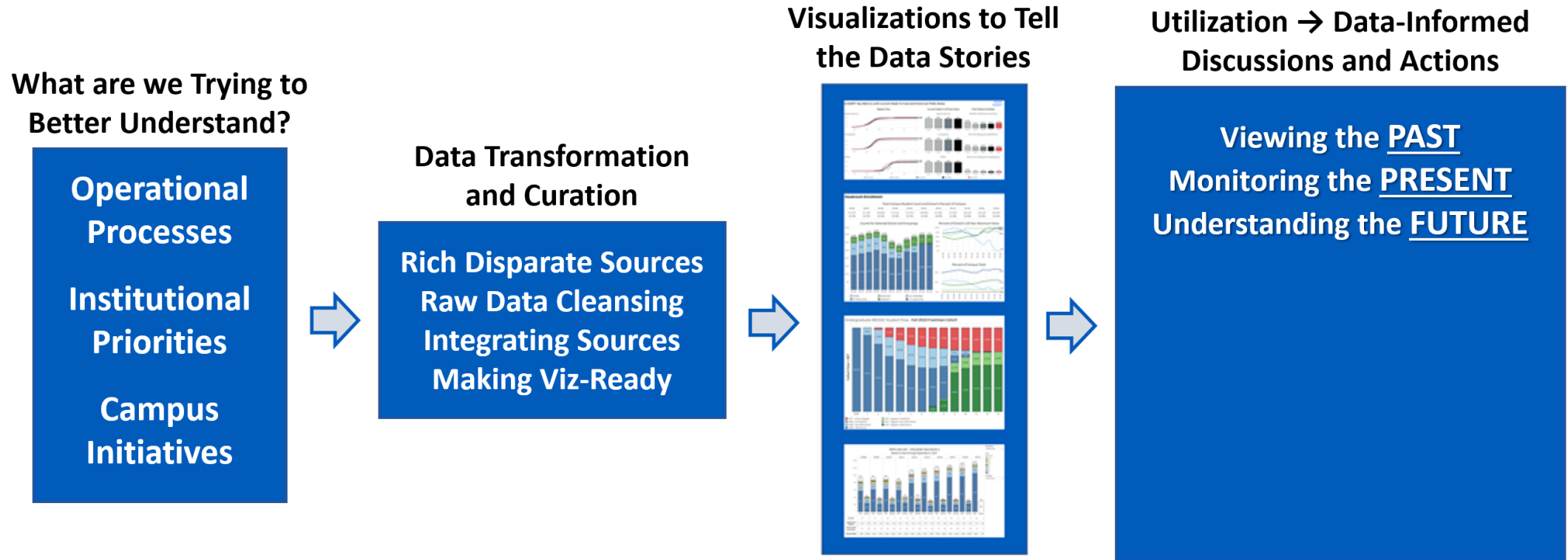
Rich Disparate Sources
Raw Data Cleansing
Integrating Sources
Making Viz-Ready



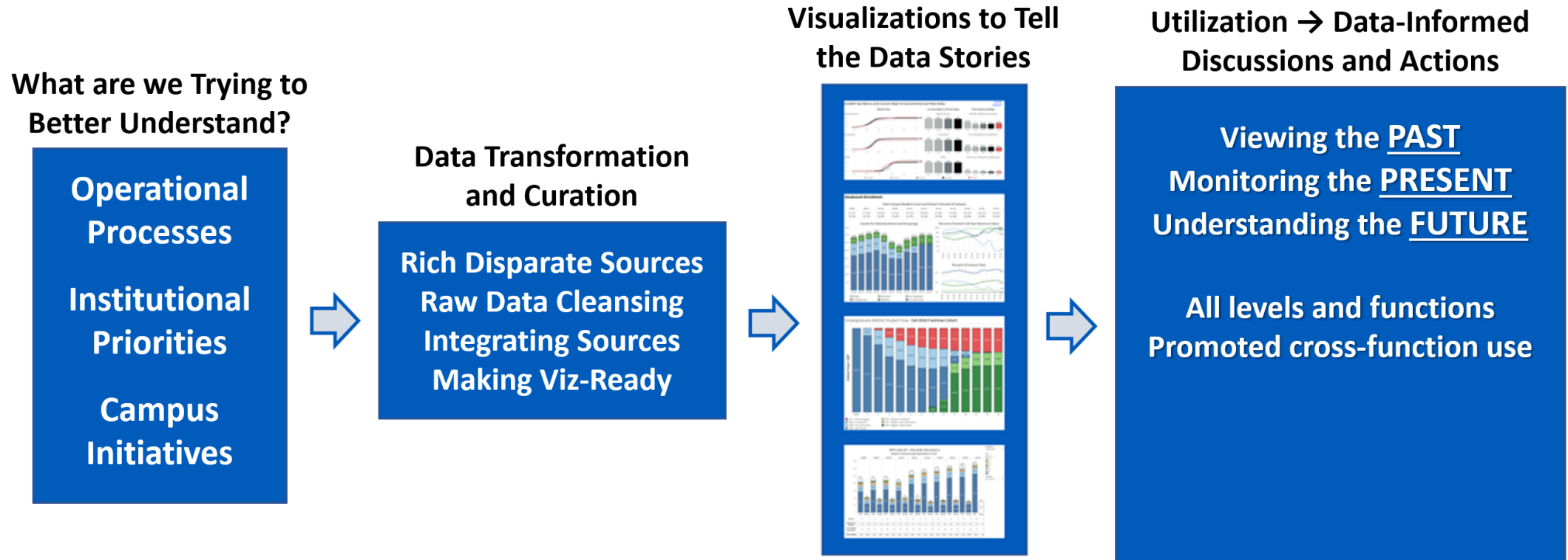
Visualizations to Tell the Data Stories



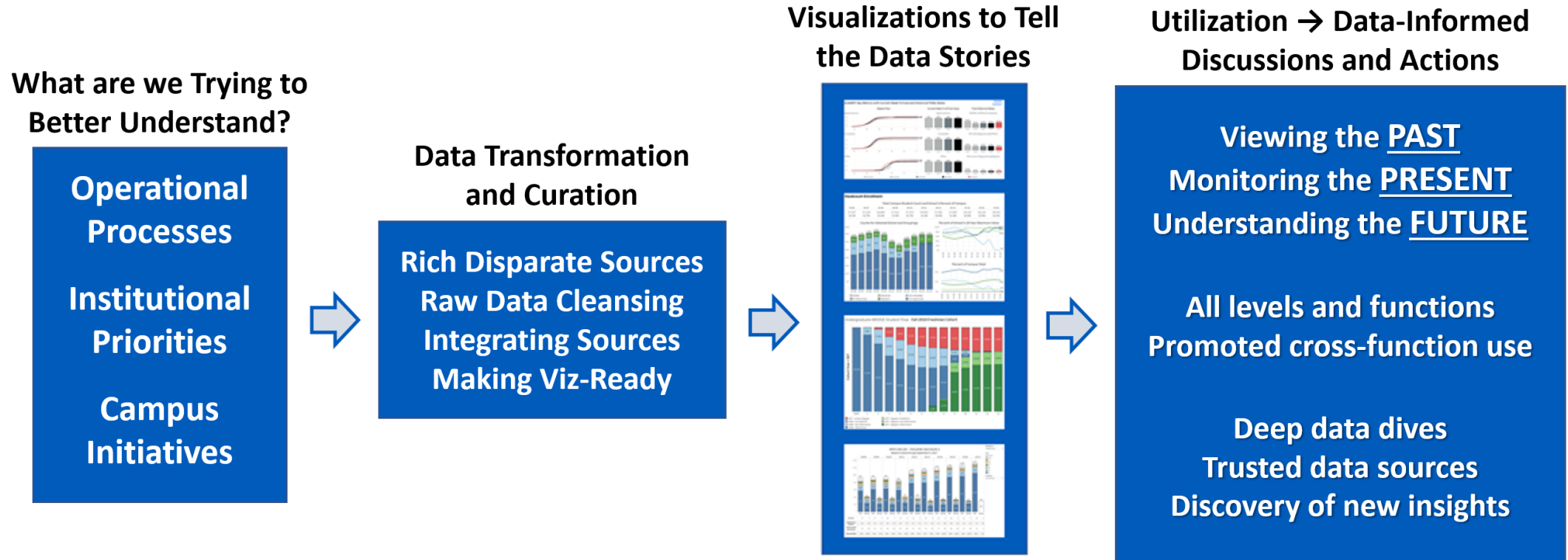
Analytics Ecosystem – Path to Actionable Intelligence



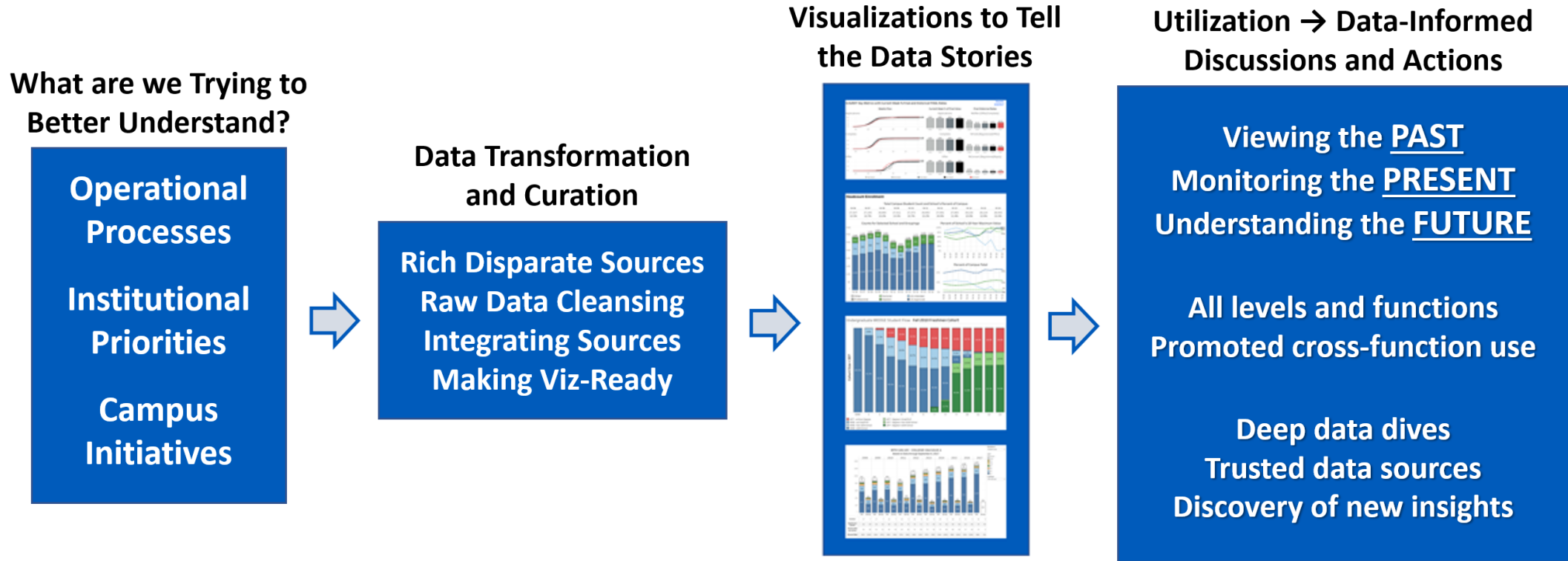
Analytics Ecosystem – Path to Actionable Intelligence



Analytics Ecosystem – Path to Actionable Intelligence



Analytics Ecosystem – Path to Actionable Intelligence



Moving from knowing WHAT to understanding WHY to effective planning for WHAT NEXT

National Call to Action on Analytics in Higher Education

2019 Joint Statement on Analytics in Higher Education



NACUBO
National Association of
College and University
Business Officers

┆
┆
┆
┆
●


Business



air
Association for
Institutional Research

┆
┆
┆
┆
●

Data



EDUCAUSE
Information technology
leaders and professionals

┆
┆
┆
┆
●

Technology

2019 Joint Statement on Analytics in Higher Education



NACUBO

National Association of
College and University
Business Officers



Association for
Institutional Research

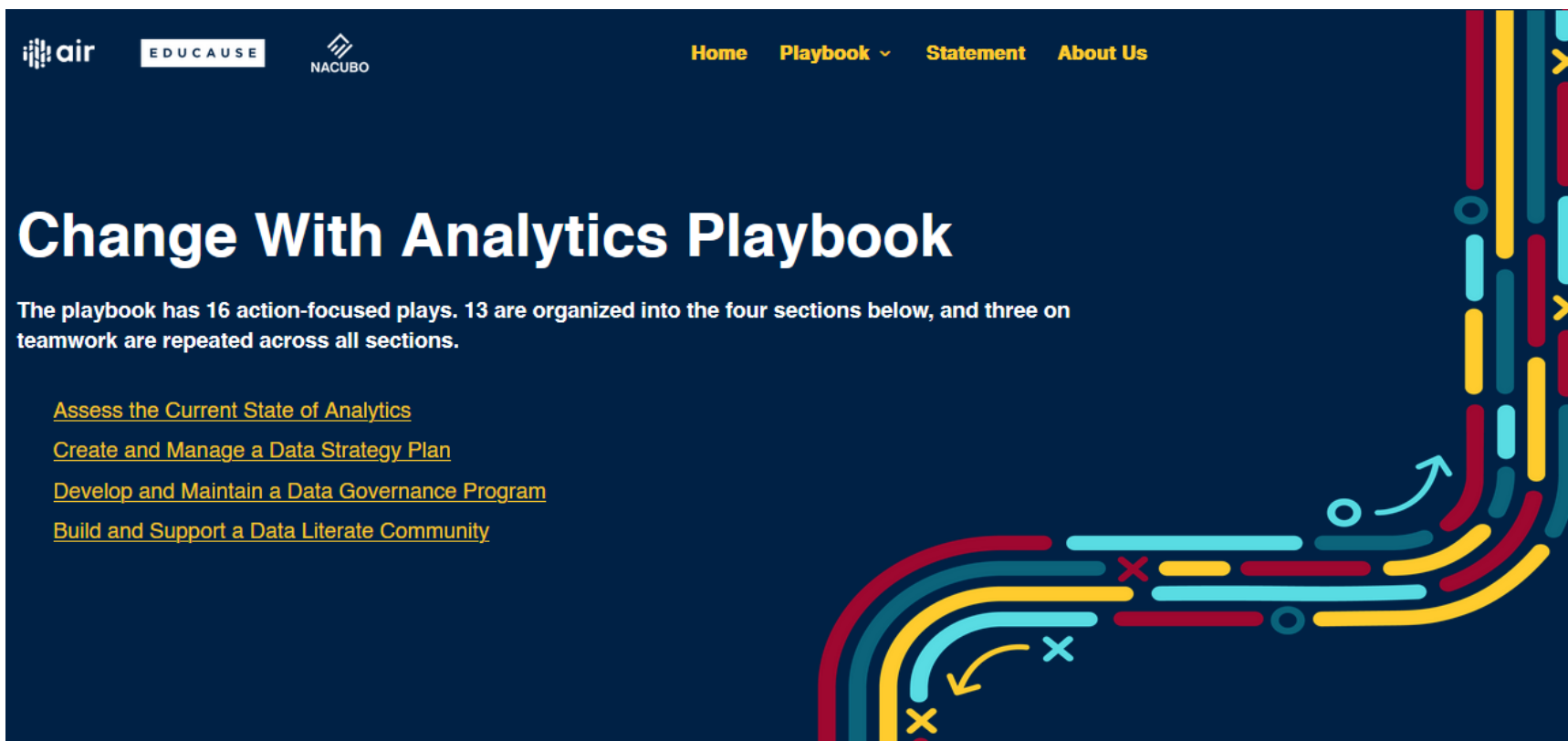
EDUCAUSE




Information technology
leaders and professionals

Business + Data + Technology

**Cross-functional groups delivering a uniform message:
“Analytics can save higher education. Really.”**

2024 Joint Statement on Analytics in Higher Education Follow-up → “Change with Analytics Playbook”



[Home](#) [Playbook](#) [Statement](#) [About Us](#)

Change With Analytics Playbook

The playbook has 16 action-focused plays. 13 are organized into the four sections below, and three on teamwork are repeated across all sections.

- [Assess the Current State of Analytics](#)
- [Create and Manage a Data Strategy Plan](#)
- [Develop and Maintain a Data Governance Program](#)
- [Build and Support a Data Literate Community](#)

2024 Joint Statement on Analytics in Higher Education Follow-up → “Change with Analytics Playbook”



People are the primary component for analytics success, not the technology

- ▶ **Executive Sponsors** (leadership, expectations)
- ▶ **Data Producers** (wide range, disparate sources)
- ▶ **Data/Analytics Champions** (spearhead culture)
- ▶ **Data Analysts** (gather, integrate, analyze, share)
- ▶ **Data Consumers** (everyone has a “data job”)
- ▶ **Decision Makers** (strategic, operational, pro-active leaders, front-line workers ...)

2024 Joint Statement on Analytics in Higher Education Follow-up → “Change with Analytics Playbook”



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Simply stated – just get started and stack days!

2016 - UB's Head Start on Implementing Analytics


UB University at Buffalo Office of the Provost

Office of Institutional Analysis

Analytics


- Dashboard of Dashboards
- Enrollment Modeling Tools
- Enrollment Projection Tools

Institutional Analytics Team




Dashboard of Dashboards

The Dashboard of Dashboards (DoD) was developed to simplify users' access to some key campus dashboard sets, without requiring them to navigate through lists of Tableau sites and projects. It serves as a "one stop" launch page for the current Institutional Analytics dashboards available to the campus.



Enrollment Modeling Tools

Increased understanding of the underlying impact metrics that drive changes in outcomes is a great first step. The reality is that numerous metrics have potential impact, and to different degrees, so where do you start? Enrollment modeling tools are available to the campus community that give users the ability to "turn dials" up or down on selected metrics to see the resultant outcome changes over multiple years.



Enrollment Projection Tools

In order to take actions for change, it is important to know where you are heading. Predictive tools allow users to get an advanced look at the future, and determine if they need to take additional or different actions to change the predicted outcomes. Understanding the underlying metrics that drive changes in outcomes allows for more informed planning and proactive decision-making.

<https://www.buffalo.edu/oia/institutional-analytics.html>

2016 - UB's Head Start on Implementing Analytics



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2016 - UB's Head Start on Implementing Analytics



Institutional Analytics Team

- Brian O'Connor
- Mychal Ostuni
- Shannon Mahany-Kulinski
- Tiffany Fuzak

Culture Shift → Communication, Collaborative, Partnerships

Changes in Data Communication and Collaboration



Silo-based one-way communication flow

Changes in Data Communication and Collaboration



Silo-based one-way communication flow

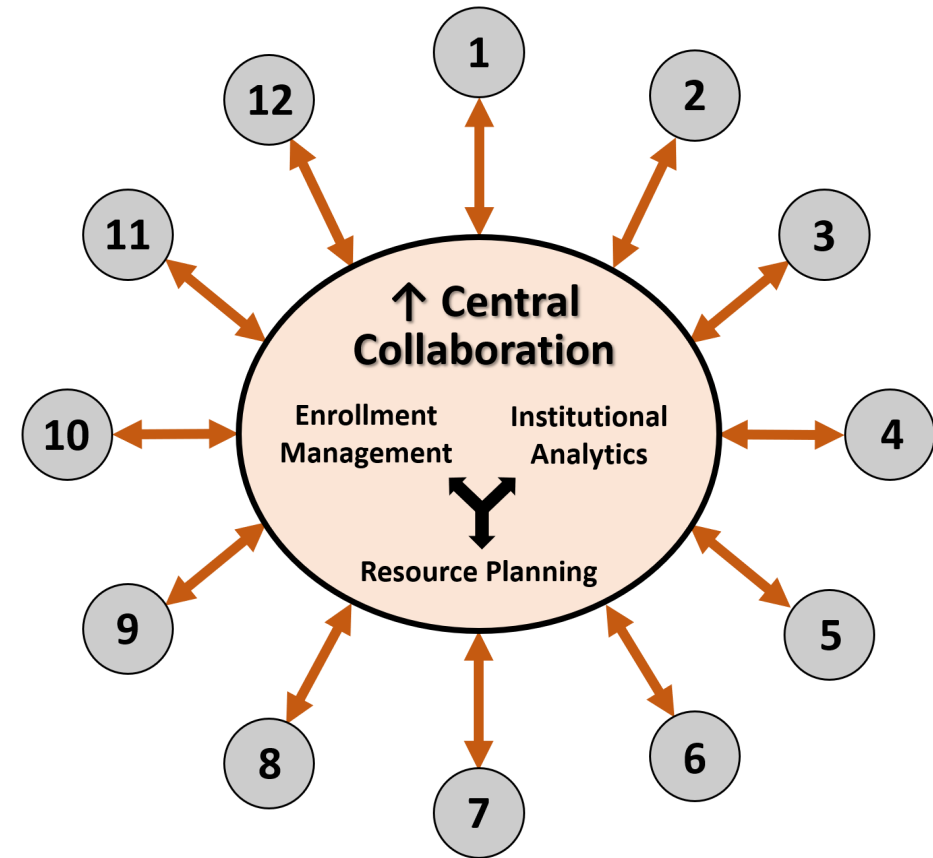
Step #1



Changes in Data Communication and Collaboration



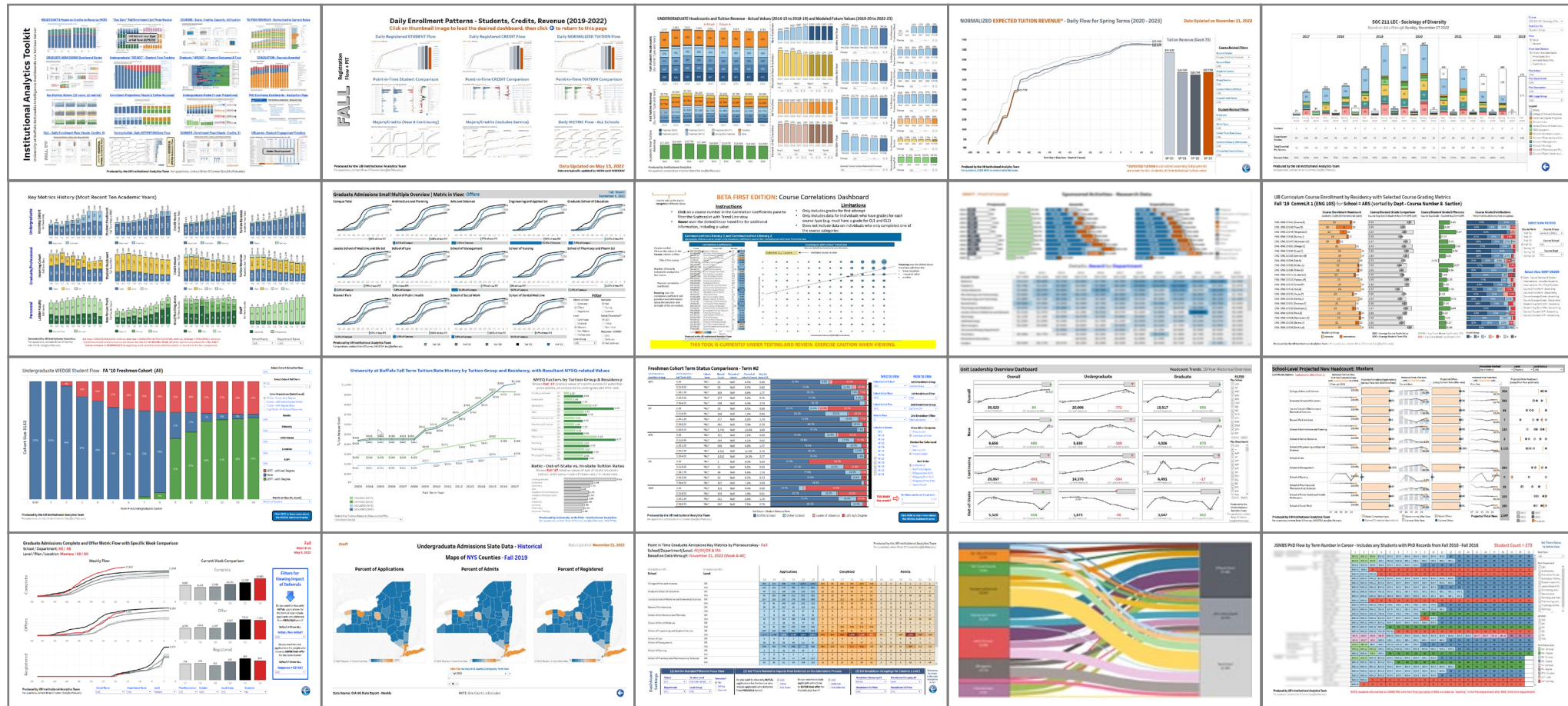
Silo-based one-way communication flow



Two-way collaborative/shared communication

Let's look at some examples of Actionable Intelligence Dashboards

Different Audiences = Different Dashboards

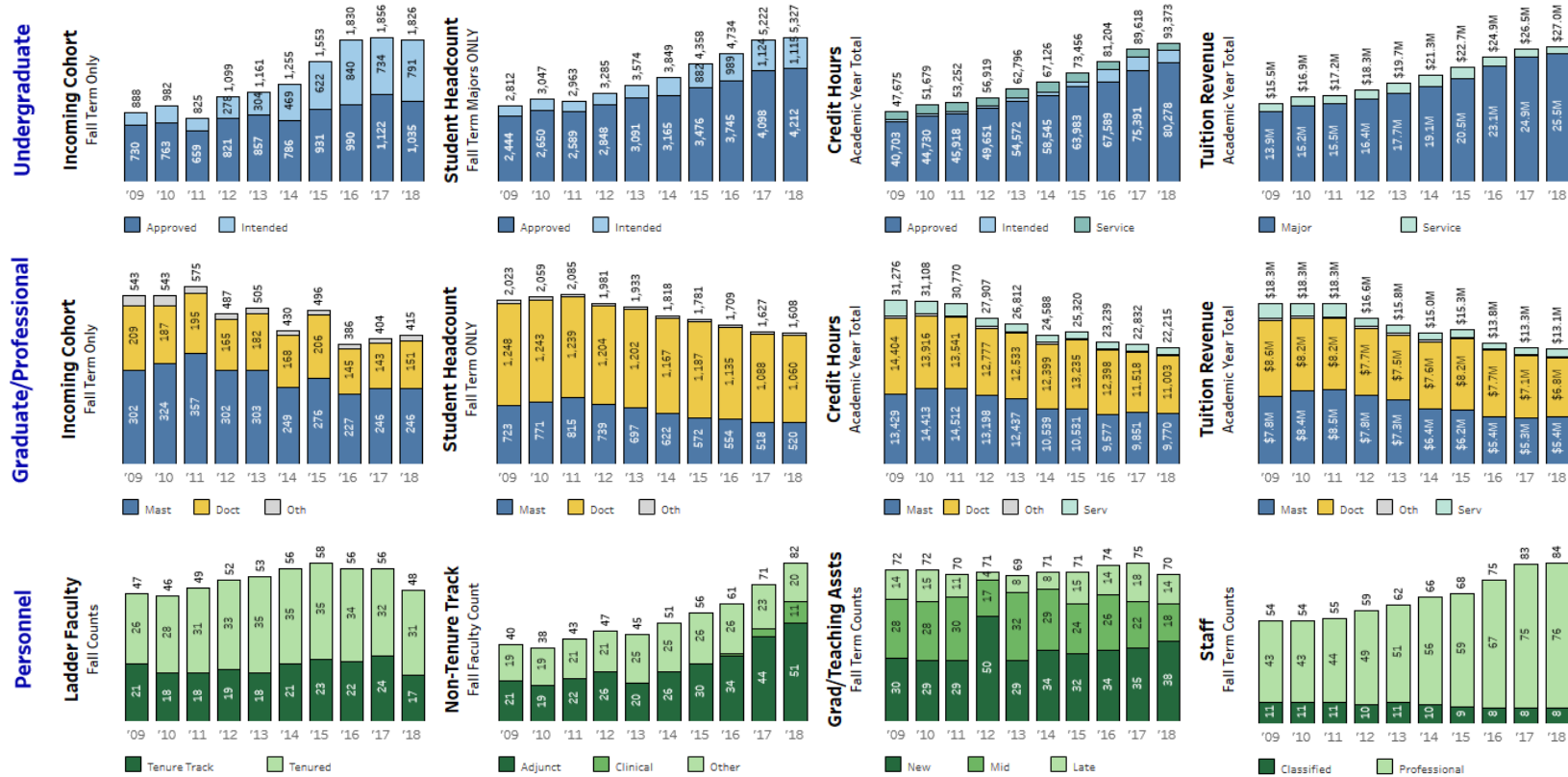


Different Audiences = Different Dashboards

- **Administrative Summary / KPI** (Small Multiples)
- **What-if Scenario Testers** (Informing Strategy)
- **Metric Flow** (In-Cycle, Multiple Years, Predictive?)
- **Point-in-time Comparisons** (with Caution)
- **Deep Dive to How and Why** (Explore/Discovery)

Example #1 → Administrative Summary / KPI

Key Metrics History (Most Recent Ten Academic Years)



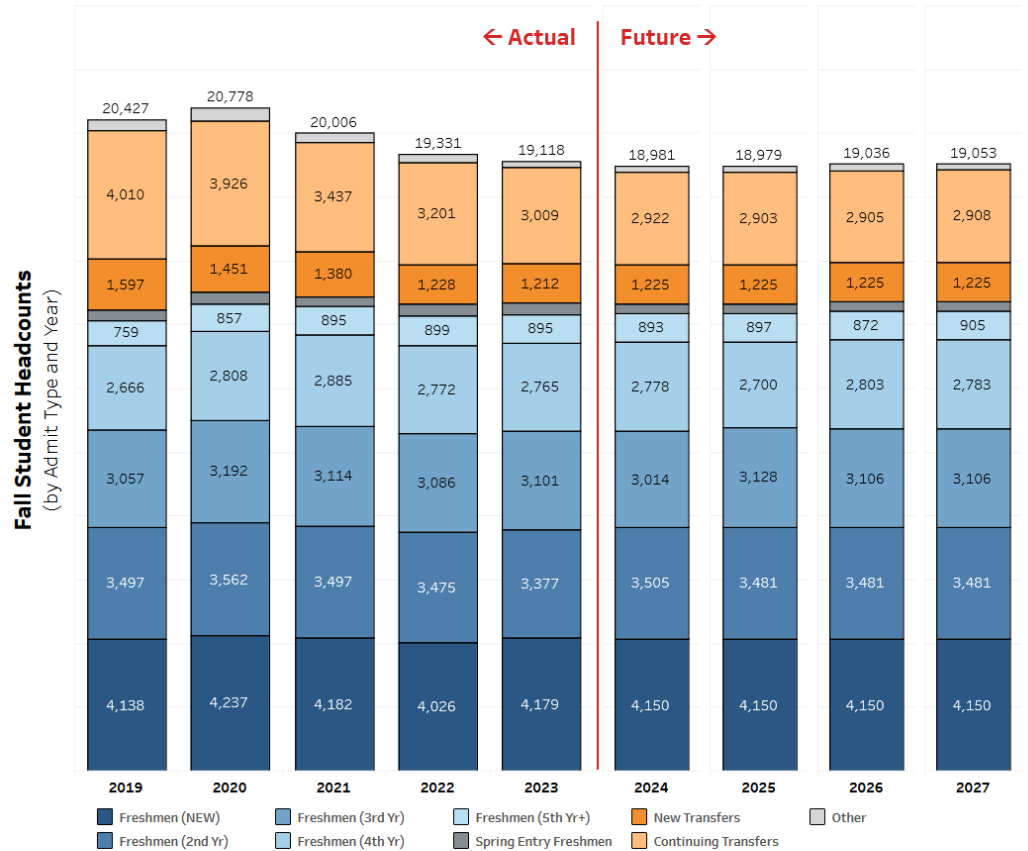
Generated by UB Institutional Analytics. For questions, contact Brian O'Connor 645-0754, boc@buffalo.edu

1st row = UNDERGRADUATE metrics, 2nd row = GRADUATE & PROFESSIONAL metrics, 3rd row = PERSONNEL metrics. Credit hours and tuition revenue are shown for the full ACADEMIC YEAR, all other metrics are shown for FALL ONLY. Tuition revenue is NORMALIZED by applying most recent tuition rates to credits in each term for fair comparison.

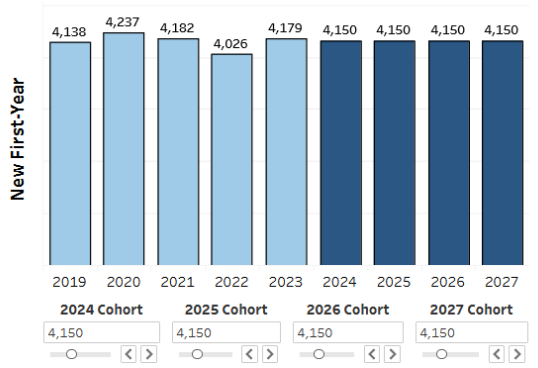
School Name:
 Department Name:

Example #2 → What-if Scenario Testing / Planning

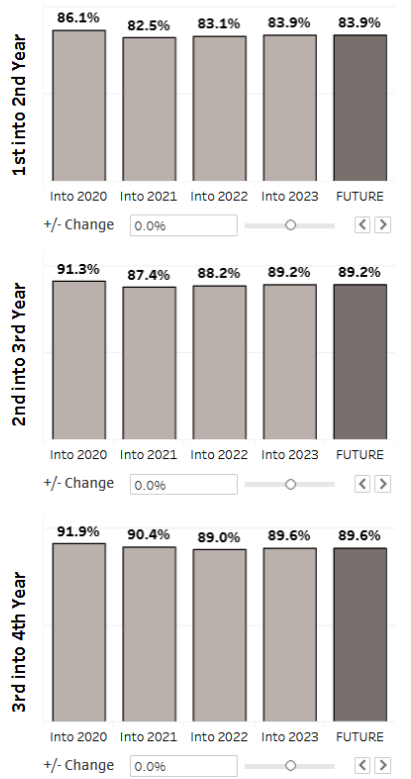
UNDERGRADUATE Headcounts - Actual Values (2019-20 to 2023-24) and Modeled Future Values (2024-25 to 2027-28)



Select Incoming FALL Cohort Sizes for Next Four Years
Individual yearly settings allow for testing planned multi-year +/- progression



Select Continuation Rate Changes
These will be applied equally over all future years

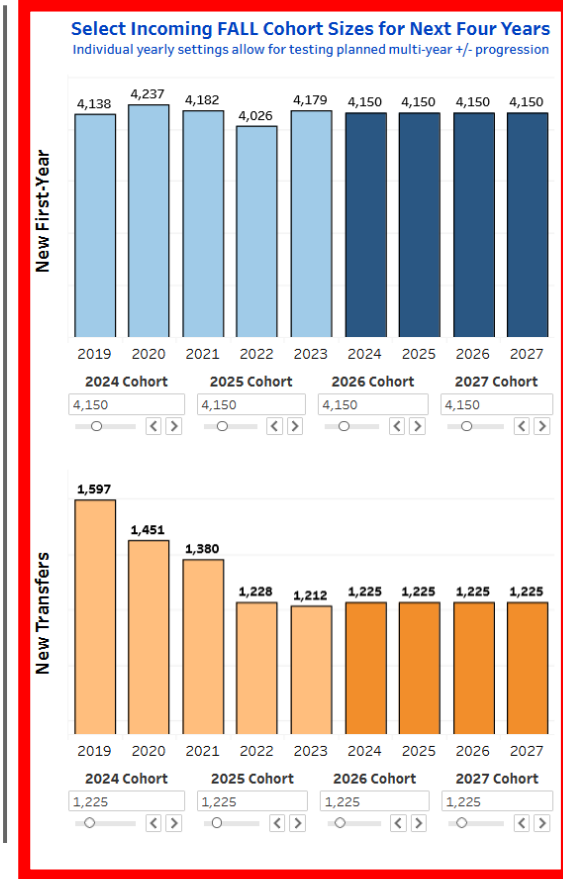
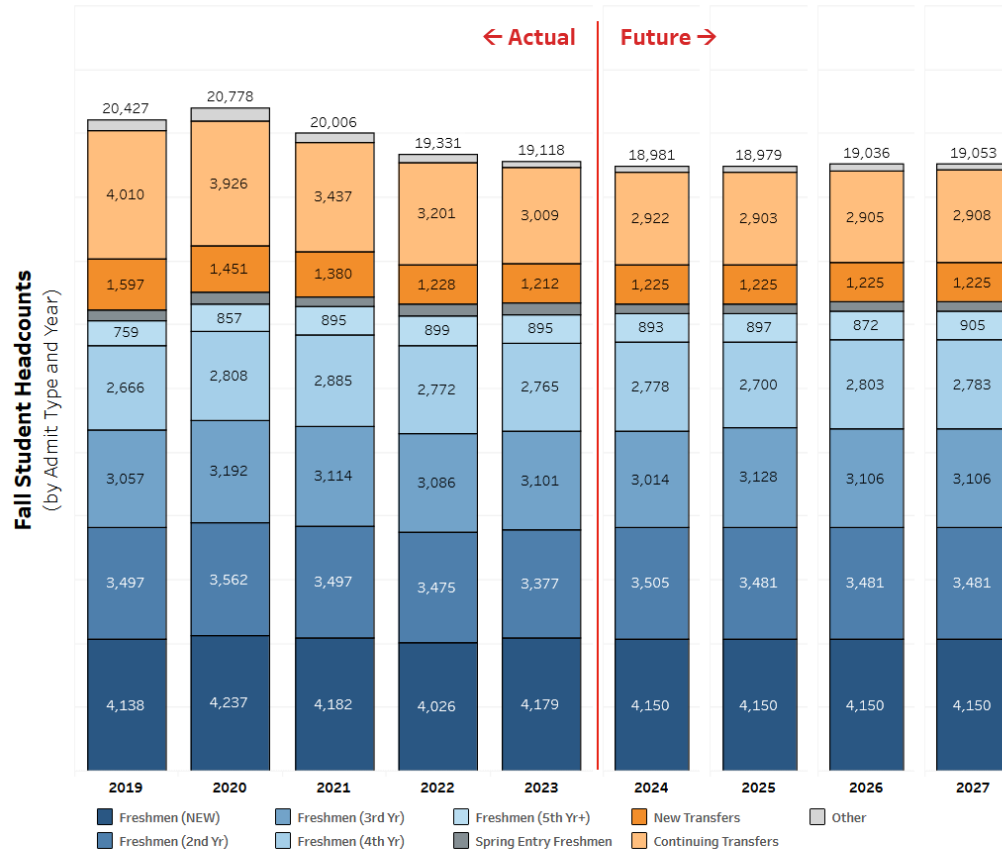


Produced by the UB Institutional Analytics Team
For questions, contact Brian O'Connor (645-0754, boc@buffalo.edu)

Continuation rate changes apply to incoming first-year students only

Example #2 → What-if Scenario Testing / Planning

UNDERGRADUATE Headcounts - Actual Values (2019-20 to 2023-24) and Modeled Future Values (2024-25 to 2027-28)



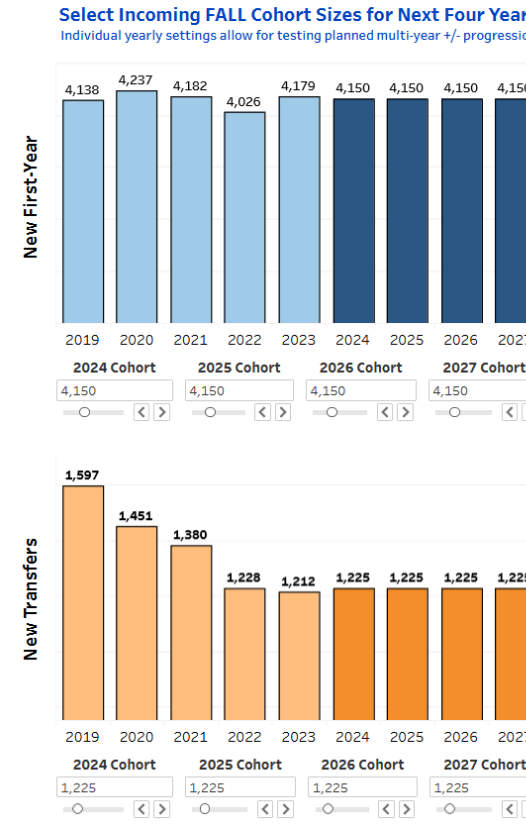
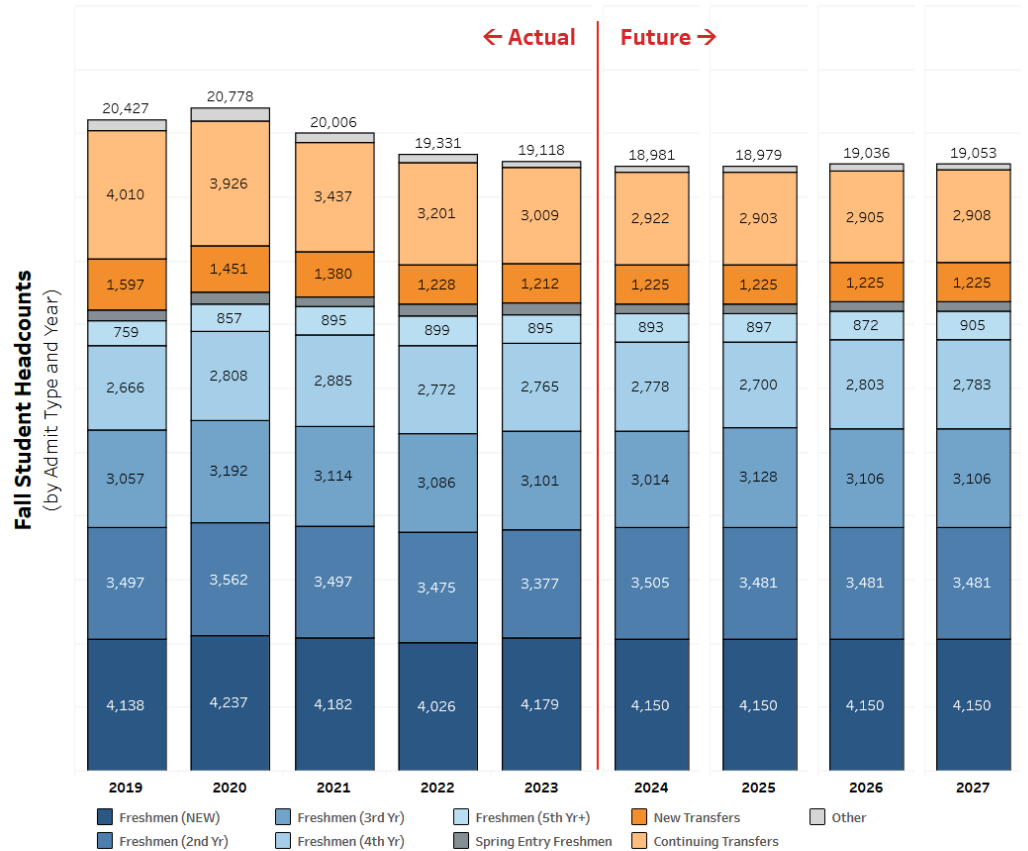
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Incoming Students

Continuation rate changes apply to incoming first-year students only

Example #2 → What-if Scenario Testing / Planning

UNDERGRADUATE Headcounts - Actual Values (2019-20 to 2023-24) and Modeled Future Values (2024-25 to 2027-28)

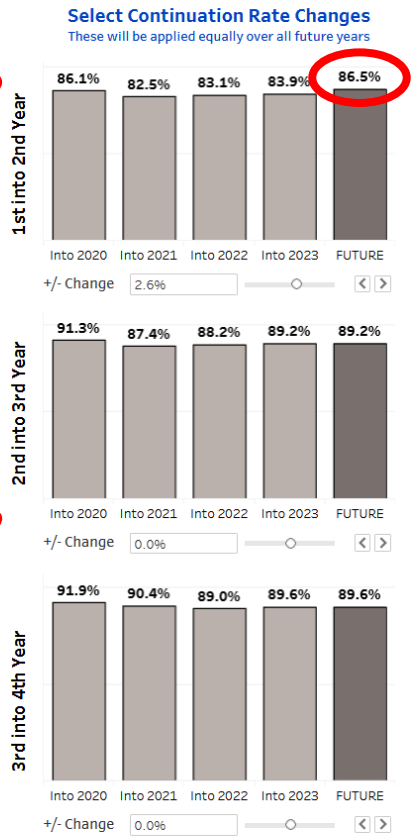
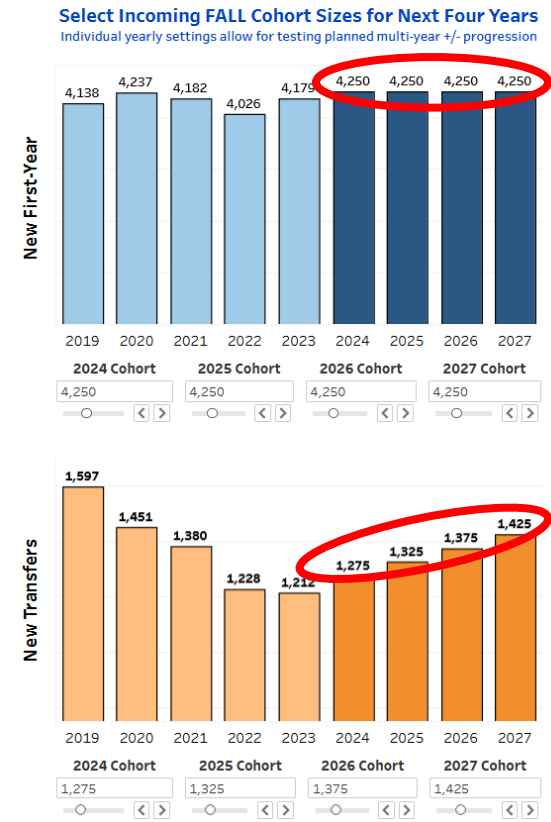
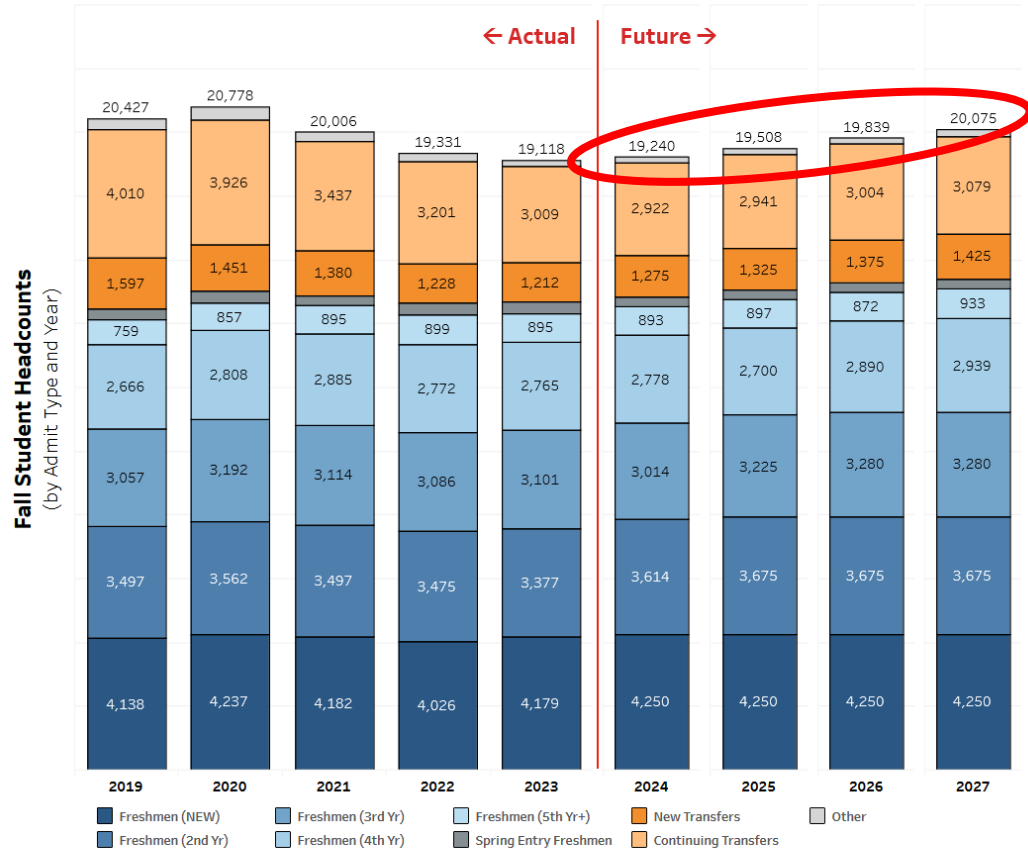


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Retention Rates

Example #2 → What-if Scenario Testing / Planning

UNDERGRADUATE Headcounts - Actual Values (2019-20 to 2023-24) and Modeled Future Values (2024-25 to 2027-28)



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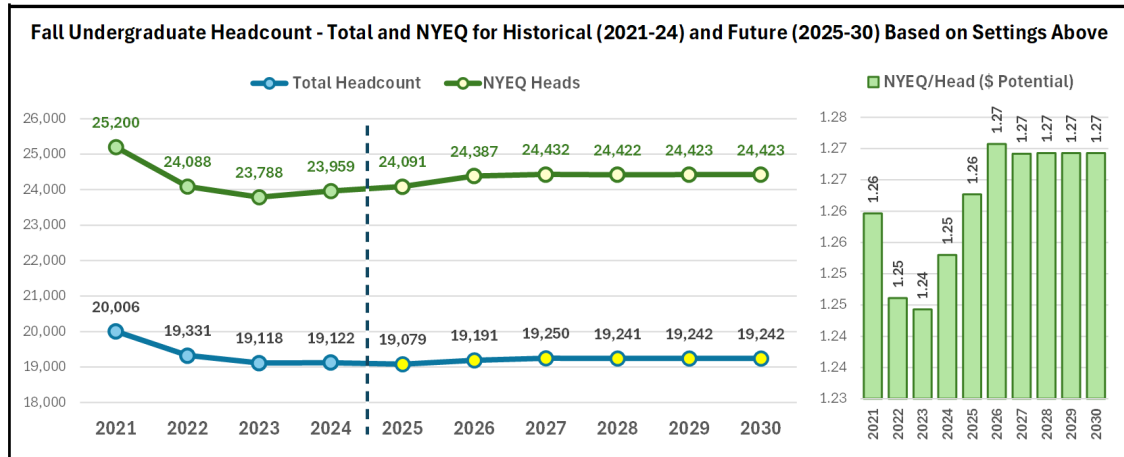
Continuation rate changes apply to incoming first-year students only

Example #2 → What-if Scenario Testing / Planning

Modeling UB Undergraduate Enrollments - based on Cohort Size, %OOS, Retention Rates

		Recent Historical Values				Adjustable Model Values for What If Scenarios					
		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1st Year Students	Cohort Size	4,182	4,026	4,178	4,172	4,175	4,175	4,175	4,175	4,175	4,175
	% OOS (Cohort)	9.8%	8.2%	9.9%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%	9.5%
	Retention (Yr 1-2)	82.5%	83.1%	83.9%	84.7%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%
	Retention (Yr 2-3)	87.4%	88.2%	89.2%	88.8%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%
	Retention (Yr 3-4)	90.4%	89.0%	89.6%	89.0%	89.5%	89.5%	89.5%	89.5%	89.5%	89.5%
Transfers	Cohort Size	1,380	1,227	1,213	1,234	1,225	1,225	1,225	1,225	1,225	1,225
	% OOS (Cohort)	9.9%	7.3%	8.7%	10.2%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Total Headcount		20,006	19,331	19,118	19,122	19,079	19,191	19,250	19,241	19,242	19,242
NYEQ Headcount		25,200	24,088	23,788	23,959	24,091	24,387	24,432	24,422	24,423	24,423
NYEQ/Head		1.26	1.25	1.24	1.25	1.26	1.27	1.27	1.27	1.27	1.27

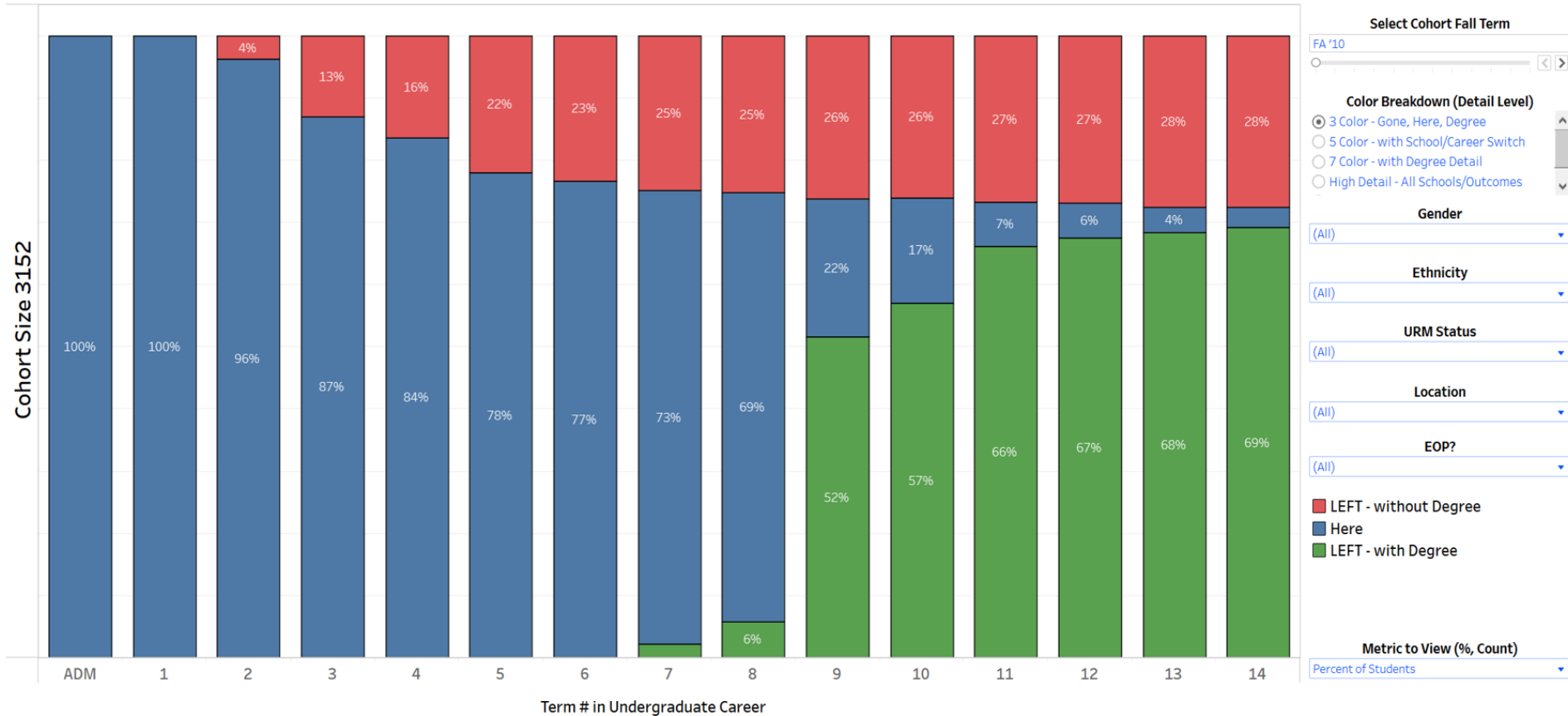
**Integrated Data Views
Student Counts with
Associated Tuition\$**



**Not Limited by “High
Technology” – This is
and Excel-based Tool**

Example #3 → Metric Flow - Multiple Years (Aggregated)

Undergraduate WEDGE Student Flow - FA '10 Freshmen Cohort (All)

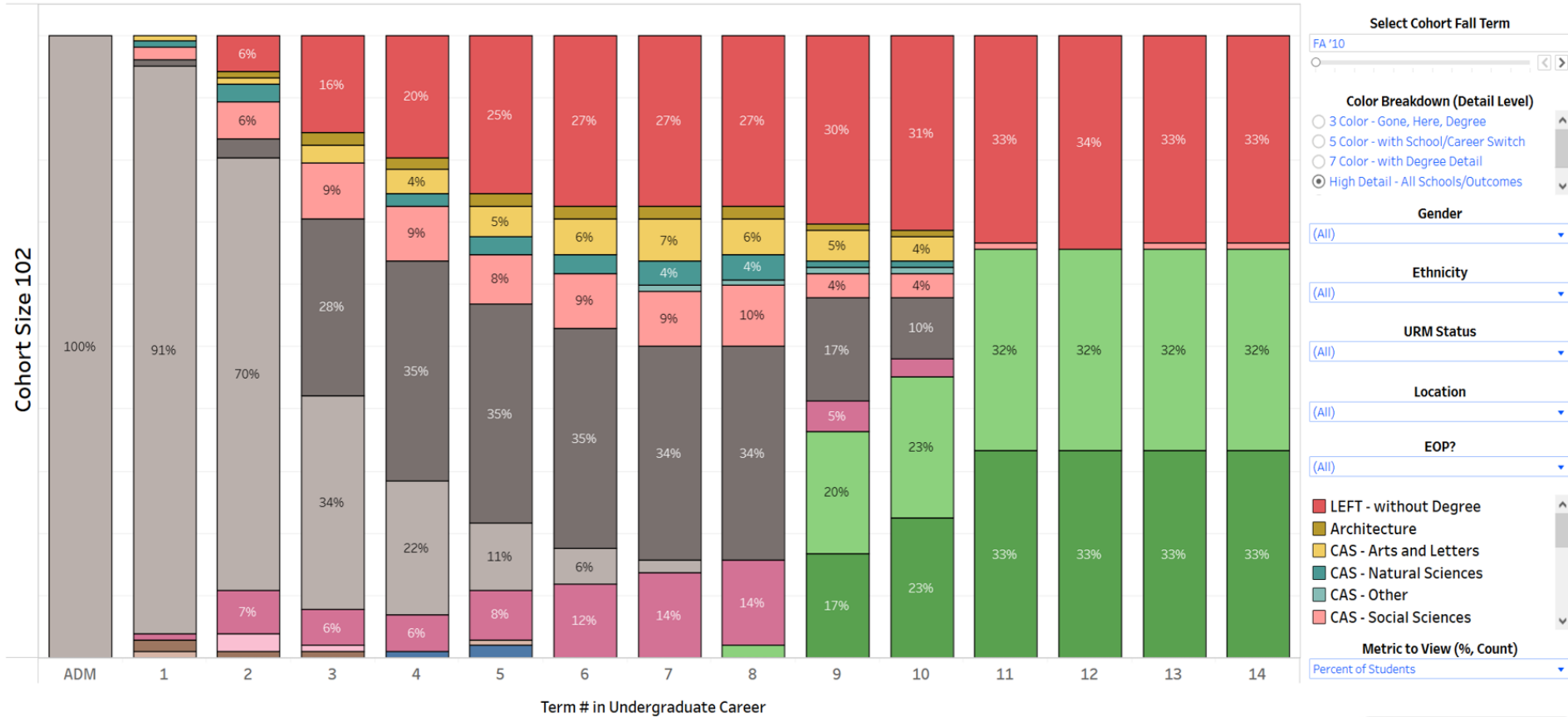


Produced by the UB Institutional Analytics Team
 For questions, contact Brian O'Connor (boc@buffalo.edu)

[Click HERE to learn more about the WEDGE dashboard series](#)

Example #3 → Metric Flow - Multiple Years (Aggregated)

Undergraduate WEDGE Student Flow - FA '10 Freshmen Cohort (Engineering-Intended)



Produced by the UB Institutional Analytics Team
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[Click HERE to learn more about the WEDGE dashboard series](#)

Example #3 → Metric Flow - Multiple Years (Details)

Student Identifier	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MM64	6	6	9	19	19	10	2	1	2	1	1	1	1	1	1	1
AM18	9	19	19	19	2	1	1	1	1	1	1	1	1	1	XX	1
AQ16	9	19	19	19	2	1	1	1	1	1	1	1	1	1	XX	1
EA94	9	19	19	19	2	1	1	1	1	1	1	1	1	1	DR	DR
JD52	9	19	19	19	2	1	1	1	1	1	1	1	1	1	DR	DR
CR49	9	19	19	19	2	1	1	1	1	1	1	1	DR	DR	DR	DR
AS88	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
AR50	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
KN23	12	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
BM96	9	19	19	19	2	1	1	1	1	1	DR	DR	DR	DR	DR	DR
WF08	9	19	19	19	2	1	1	1	1	1	DR	DR	DR	DR	DR	DR
JW34	9	19	19	19	2	1	1	1	1	1	DR	DR	DR	DR	DR	DR
SO92	9	19	19	19	2	1	1	1	1	1	DR	DR	DR	DR	DR	DR
ZX49	9	19	19	19	2	1	1	1	1	1	DR	DR	DR	DR	DR	DR
VV91	9	19	19	19	19	17	2	1	MA	MA	MA	MA	MA	MA	MA	MA
SG14	9	19	19	19	2	1	1	MA	MA	MA	MA	MA	MA	MA	MA	MA
JC15	9	19	19	19	2	1	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
CN41	9	19	19	19	2	1	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
TO63	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
KP01	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
GH43	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
DC86	9	19	2	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA

■ Doctoral Degree
■ Masters Degree

■ Currently Enrolled - One Credit
■ Currently Enrolled - Doctoral

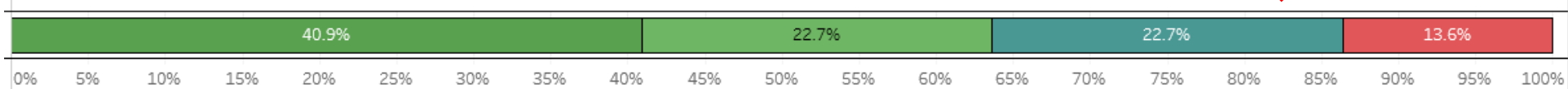
■ Left without Degree

Example #3 → Metric Flow - Multiple Years (Details)

Student Identifier	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MM64	6	6	9	19	19	10	2	1	2	1	1	1	1	1	1	1
AM18	9	19	19	19	2	1	1	1	1	1	1	1	1	1	XX	1
AQ16	9	19	19	19	2	1	1	1	1	1	1	1	1	1	XX	1
EA94	9	19	19	19	2	1	1	1	1	1	1	1	1	1	DR	DR
JD52	9	19	19	19	2	1	1	1	1	1	1	1	1	1	DR	DR
CR49	9	19	19	19	2	1	1	1	1	1	1	1	DR	DR	DR	DR
AS88	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
AR50	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
KN23	12	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
BM96	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
WF08	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
JW34	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
S092	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
ZX49	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
VV91	9	19	19	19	2	1	1	1	1	1	1	DR	DR	DR	DR	DR
SG14	9	19	19	19	2	1	1	MA	MA	MA	MA	MA	MA	MA	MA	MA
JC15	9	19	19	19	2	1	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
CN41	9	19	19	19	2	1	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
T063	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
KP01	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
GH43	9	19	19	19	2	1	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
DC86	9	19	2	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA

The standard WEDGE viz is just the aggregated result for these individual students

- Doctoral Degree
- Masters Degree
- Currently Enrolled - One Credit
- Currently Enrolled - Doctoral
- Left without Degree



Example #3 → Metric Flow - Multiple Years (Discovery)

Freshmen Cohort Term Status Comparisons - Term #3

1st Breakdown 1st Term GPA	2nd Breakdown All	Cohort Term	Record Count	% of Total Cohort	% of Cohort to View	Avg 1st Term GPA	
0.00	All	FA '19	70	1.7%	1.7%	0.00	18.6% 18.6% 61.4%
		FA '20	114	2.7%	2.7%	0.00	7.0% 7.9% 84.2%
		FA '21	94	2.2%	2.3%	0.00	8.5% 11.7% 79.8%
0.01-0.99	All	FA '19	164	3.9%	4.0%	0.62	35.4% 28.7% 32.3%
		FA '20	190	4.5%	4.6%	0.62	21.1% 23.2% 54.2%
		FA '21	214	5.1%	5.2%	0.59	23.4% 19.2% 57.5%
1.00-1.49	All	FA '19	160	3.9%	3.9%	1.26	52.5% 28.8% 13.8%
		FA '20	154	3.6%	3.7%	1.25	29.9% 32.5% 35.1%
		FA '21	192	4.6%	4.7%	1.27	29.2% 30.2% 40.6%
1.50-1.99	All	FA '19	297	7.2%	7.2%	1.77	52.5% 26.9% 17.2%
		FA '20	273	6.4%	6.6%	1.76	42.1% 33.0% 21.6%
		FA '21	286	6.8%	7.0%	1.76	47.9% 34.3% 16.8%
2.00-2.49	All	FA '19	459	11.1%	11.2%	2.27	56.6% 28.1% 11.8%
		FA '20	423	10.0%	10.2%	2.27	46.8% 36.9% 13.5%
		FA '21	461	11.0%	11.2%	2.26	57.5% 27.5% 13.0%
2.50-2.99	All	FA '19	767	18.5%	18.7%	2.75	65.8% 23.2% 7.4%
		FA '20	678	16.0%	16.3%	2.76	62.2% 25.1% 10.2%
		FA '21	686	16.4%	16.7%	2.75	68.1% 21.0% 9.9%
3.00-3.49	All	FA '19	943	22.7%	23.0%	3.26	71.7% 18.7% 7.0%
		FA '20	945	22.3%	22.7%	3.25	71.3% 20.2% 6.7%
		FA '21	904	21.6%	22.0%	3.26	73.6% 15.8% 8.8%
3.50-4.00	All	FA '19	1,242	29.9%	30.3%	3.80	77.1% 15.9% 5.6%
		FA '20	1,388	32.7%	33.3%	3.79	79.3% 13.4% 5.1%
		FA '21	1,277	30.5%	31.0%	3.80	82.4% 10.6% 5.6%

WHO to View

Cohort Initial School: (All)

Cohort Initial Dept: (All)

Cohort Initial Plan: (All)

Term to View: 3

Cohorts to Include: (All), FA '12, FA '13, FA '14, FA '15, FA '16, FA '17, FA '18, FA '19, FA '20, FA '21

HOW to View

1st Breakdown Group: 1st Term GPA

1st Breakdown Filter: (Multiple values)

2nd Breakdown Group: All

2nd Breakdown Filter: All

Show All or Compress: Show Cohort

Stacked Bar Color Level: Highest Detail

Sort Order: Alphabetical

TOO MANY low counts? → Set MIN Record Count to View: 22 (1,388)

Produced by the UB Institutional Analytics Team
For questions, [CLICK HERE](#) to send email to the team.

Bar Colors = Student Status in Selected Term#

- Degree in School
- Still in School
- Other School
- Leave of Absence
- Left w/o Degree

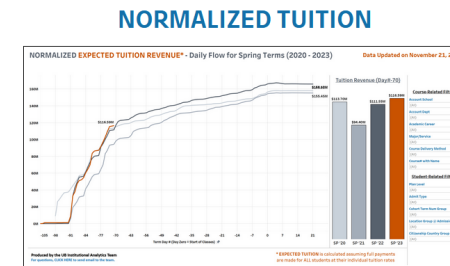
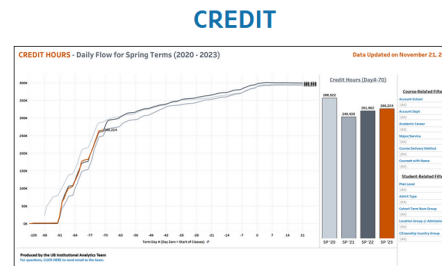
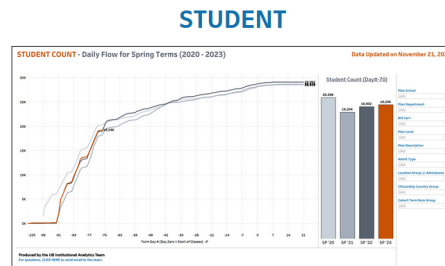
[Click HERE to learn more about the WEDGE dashboard series](#)

Example #4 → In-Cycle Metric Flow / Integrated Data

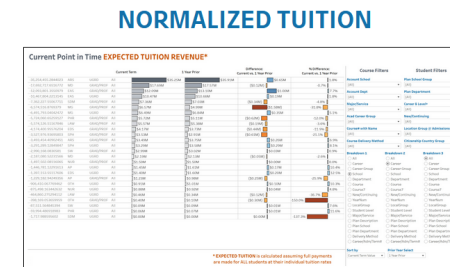
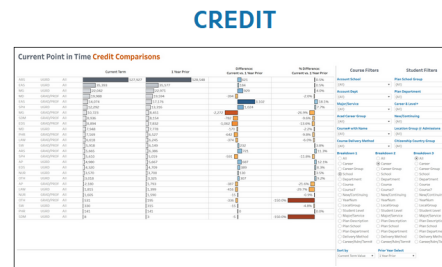
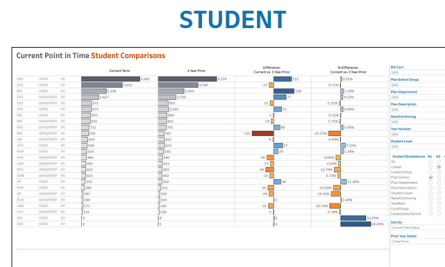
Daily Enrollment Patterns - Students, Credits, Revenue (2020 - 2023)

Click on thumbnail image to load the desired dashboard, then click ↶ to return to this page

Registration Flow
Daily



Comparison
Point-in-Time



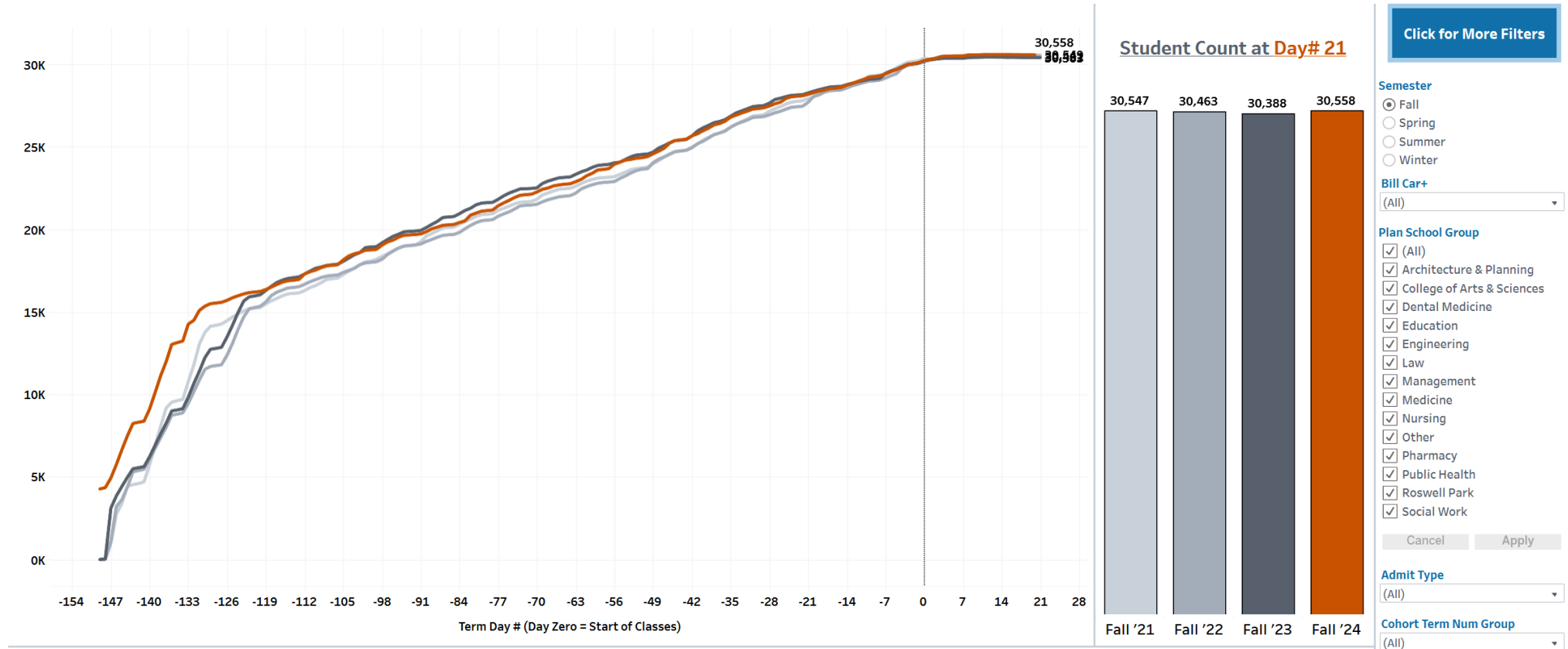
Produced by the UB Institutional Analytics Team
For questions, [CLICK HERE](#) to send email to the team.

Data Updated on September 18, 2023

Example #4 → In-Cycle Metric Flow / Integrated Data

STUDENT COUNT - Daily Flow for **Fall** Terms (2021 - 2024)

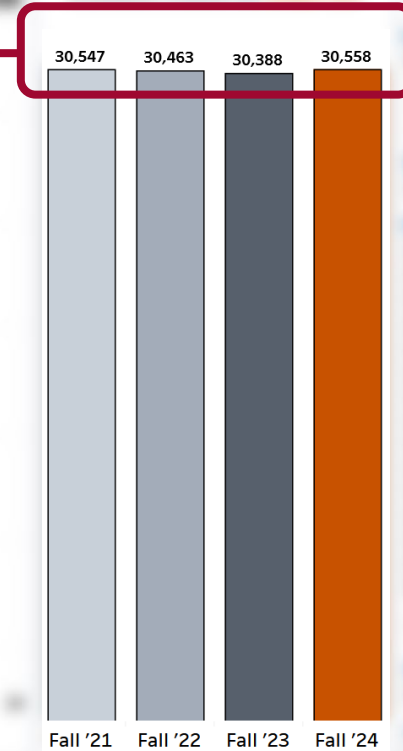
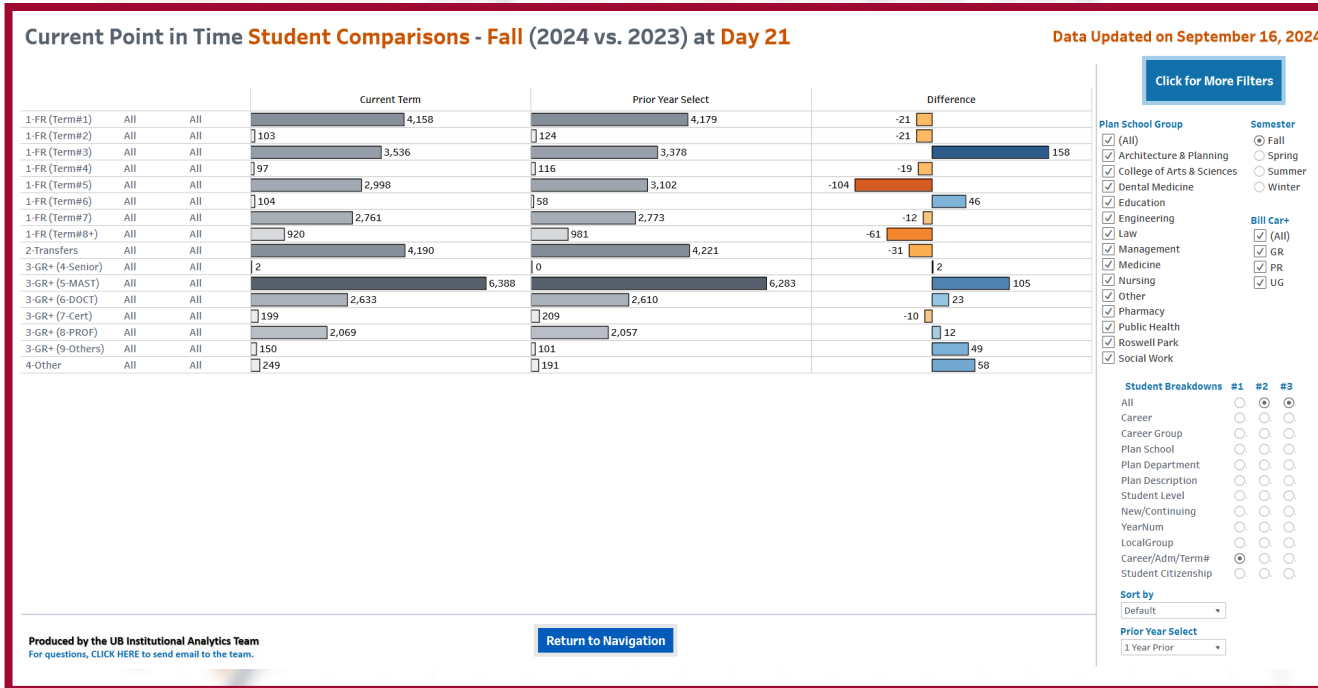
Data Updated on September 16, 2024



Produced by the UB Institutional Analytics Team
 For questions, [CLICK HERE](#) to send email to the team.

[Return to Navigation](#)

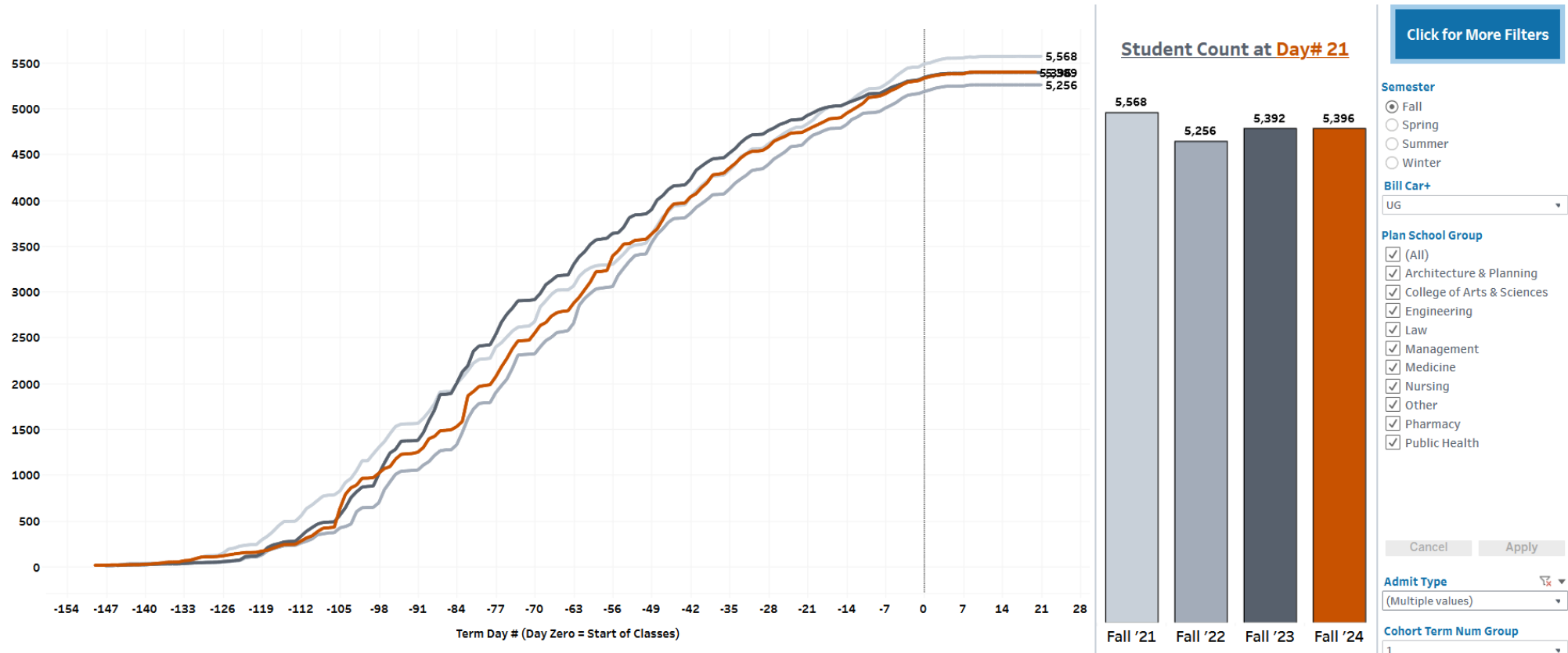
Example #4 → Point-in-time Comparisons (with caution)



Example #4 → In-Cycle Metric Flow / Integrated Data

STUDENT COUNT - Daily Flow for **Fall** Terms (2021 - 2024)

Data Updated on September 16, 2024



Produced by the UB Institutional Analytics Team
 For questions, [CLICK HERE](#) to send email to the team.

[Click for More Filters](#)

Semester

- Fall
- Spring
- Summer
- Winter

Bill Car+

UG

Plan School Group

- (All)
- Architecture & Planning
- College of Arts & Sciences
- Engineering
- Law
- Management
- Medicine
- Nursing
- Other
- Pharmacy
- Public Health

Cancel Apply

Admit Type

(Multiple values)

Cohort Term Num Group

1

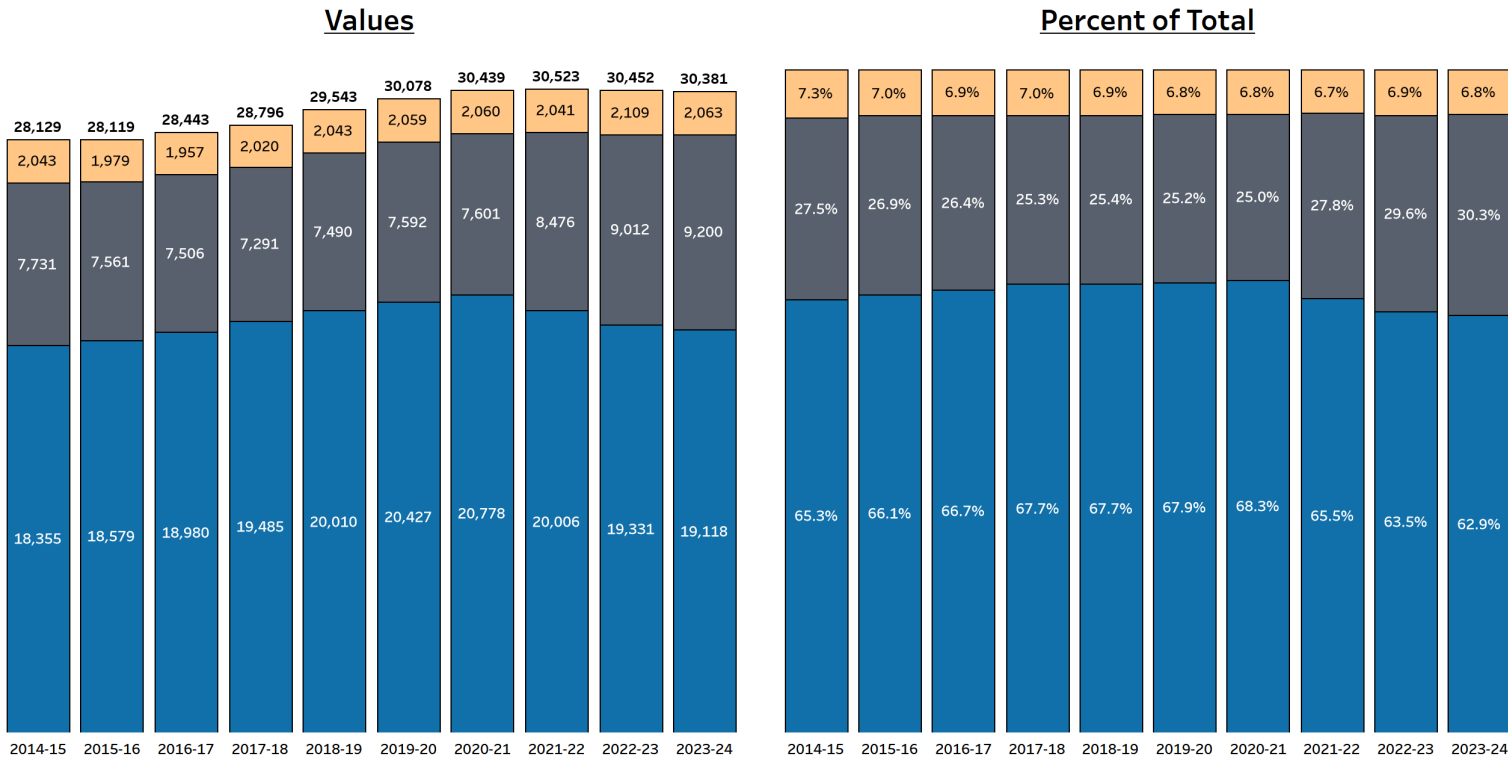
[Return to Navigation](#)

Example #5 → Deep Dive to Explore & Discover

Fall - Student Headcounts (based on data through October 17, 2023)

Breakdown in View: Level - Career

Hover here for more information about this breakdown.



■ UG
■ GR
■ PR

Color Legend

[Go to Heads-Creds-Rev Tool](#)

[More Information](#)

Color Breakdown

- Adm - Entry Term Type
- Adm - UG Admit Type
- BioDemo - Citizenship
- BioDemo - Ethnicity
- BioDemo - Gender
- Credits - Credit Hour Groupings
- GPA - Academic Standing
- GPA - Cumulative GPA (0.5 bins)
- GPA - Term GPA (0.5 bins)
- Level
- Level - Career
- Level - Early/Mid/Late
- Location - At Admission
- Location - IS/OS
- Location - Residency
- Plan - School
- Plan - Department
- Plan - Description
- Plan - Subplan
- Plan - Approved/Intended
- Plan - Has Minor
- Revenue - Tuition Group
- Student - Funding
- Student - Higher Ed History
- Student - Online Status
- Term Num
- Term Num - with Summer Entry
- Visa
- Visa - Group

Quick Filters (Hover here for more info)

- Graduate
- Professional
- Undergraduate
- Continuing
- New
- Fall
- Spring

[Click for More Filters](#)

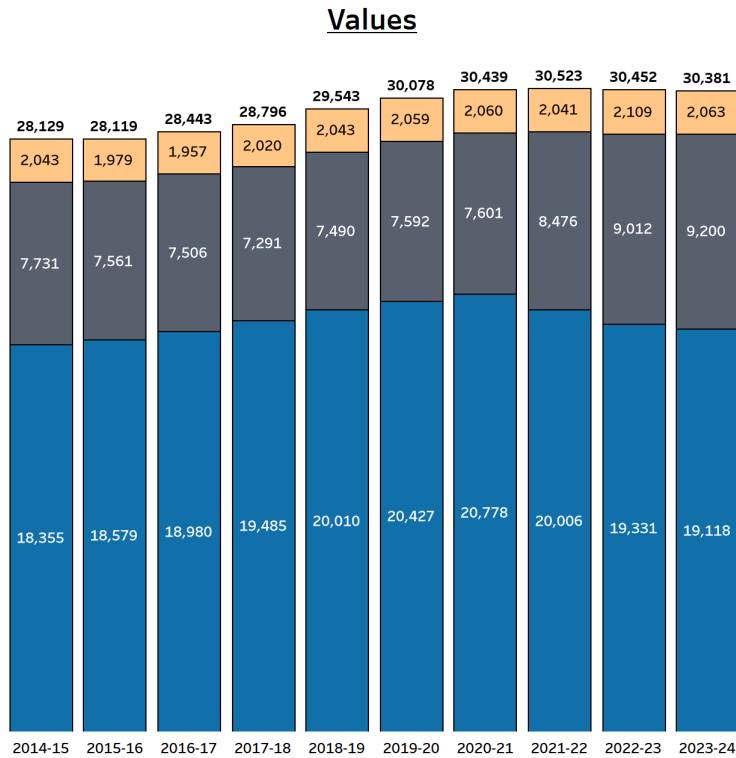
[Reset All Filters](#)

Produced by the UB Institutional Analytics Team
For questions, [CLICK HERE to send email to the team.](#)

NOTE The underlying dataset recently underwent intensive optimization to improve data insights. As a result, you may notice minor variations in headcounts within breakdowns compared with any snapshots taken prior to 9/15/2023.

Example #5 → Deep Dive to Explore & Discover

Fall - Student Headcounts (based on data through October 17)
 Breakdown in View: Level - Career
 Hover here for more information about this breakdown.



Plan Entity Attributes	Student BioDemo Attributes	Student Academic Attributes
Plan School <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> College of Arts and Sciences <input checked="" type="checkbox"/> Graduate School of Education <input checked="" type="checkbox"/> Jacobs School of Medicine and Biomedical Sciences <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> PROV Academic <input checked="" type="checkbox"/> Roswell Park Institute <input checked="" type="checkbox"/> School of Architecture and Planning <input checked="" type="checkbox"/> School of Dental Medicine <input checked="" type="checkbox"/> School of Engineering and Applied Sciences <input checked="" type="checkbox"/> School of Law <input checked="" type="checkbox"/> School of Management <input checked="" type="checkbox"/> School of Nursing <input checked="" type="checkbox"/> School of Pharmacy and Pharmaceutical Sciences <input checked="" type="checkbox"/> School of Public Health and Health Professions <input checked="" type="checkbox"/> School of Social Work Plan Department (All) Plan Description (All) Subplan Description (All)	Tuition Group <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> AUD <input checked="" type="checkbox"/> DNP <input checked="" type="checkbox"/> DPT <input checked="" type="checkbox"/> DSW <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> GRAD <input checked="" type="checkbox"/> LAW <input checked="" type="checkbox"/> MARCH <input checked="" type="checkbox"/> MBA <input checked="" type="checkbox"/> MED <input checked="" type="checkbox"/> MSW <input checked="" type="checkbox"/> NRONLINEGR <input checked="" type="checkbox"/> NRONLINEUG <input checked="" type="checkbox"/> PHRM <input checked="" type="checkbox"/> SDM <input checked="" type="checkbox"/> UGRD <input checked="" type="checkbox"/> XGRAD <input checked="" type="checkbox"/> XUGRD SUNY Residency <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> Domestic In State <input checked="" type="checkbox"/> Domestic Out of State <input checked="" type="checkbox"/> International <input checked="" type="checkbox"/> No Data Sex/Gender <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> Female <input checked="" type="checkbox"/> Male <input checked="" type="checkbox"/> Unknown EOP <input checked="" type="checkbox"/> Non-EOPS <input checked="" type="checkbox"/> EOPS Citizenship (All) Visa Group <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> F1, F3, J1 <input checked="" type="checkbox"/> No Visa <input checked="" type="checkbox"/> Other Visa IPEDS Ethnicity <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> 2 or more races <input checked="" type="checkbox"/> American Indian or Alaska Native <input checked="" type="checkbox"/> Asian <input checked="" type="checkbox"/> Black or African American <input checked="" type="checkbox"/> Hispanic/Latino <input checked="" type="checkbox"/> International (Non-Resident Alien) <input checked="" type="checkbox"/> Native Hawaiian <input checked="" type="checkbox"/> Unknown <input checked="" type="checkbox"/> White	Student Level <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> 10 - Freshmen <input checked="" type="checkbox"/> 20 - Sophomores <input checked="" type="checkbox"/> 30 - Juniors <input checked="" type="checkbox"/> 40 - Seniors <input checked="" type="checkbox"/> Doctoral <input checked="" type="checkbox"/> Masters <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> P1 <input checked="" type="checkbox"/> P2 <input checked="" type="checkbox"/> P3 <input checked="" type="checkbox"/> P4 UG Admit Type <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> New First Year <input checked="" type="checkbox"/> Transfer <input checked="" type="checkbox"/> Non-Degree <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> No Data Term Credits Groups <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> 1 Credit <input checked="" type="checkbox"/> 2-3 Credits <input checked="" type="checkbox"/> 4-6 Credits <input checked="" type="checkbox"/> 7-8 Credits <input checked="" type="checkbox"/> 9 Credits <input checked="" type="checkbox"/> 10-11 Credits <input checked="" type="checkbox"/> 12 Credits <input checked="" type="checkbox"/> 13-15 Credits <input checked="" type="checkbox"/> 16-18 Credits <input checked="" type="checkbox"/> 19+ Credits <input checked="" type="checkbox"/> No Data Term GPA Groups <input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> 0.00 <input checked="" type="checkbox"/> 0.01-0.99 <input checked="" type="checkbox"/> 1.00-1.49 <input checked="" type="checkbox"/> 1.50-1.99 <input checked="" type="checkbox"/> 2.00-2.49 <input checked="" type="checkbox"/> 2.50-2.99 <input checked="" type="checkbox"/> 3.00-3.49 <input checked="" type="checkbox"/> 3.50-4.00 <input checked="" type="checkbox"/> No GPA <input checked="" type="checkbox"/> No GPA-R/W

Produced by the UB Institutional Analytics Team
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Quick Filters (Hover here for more info)

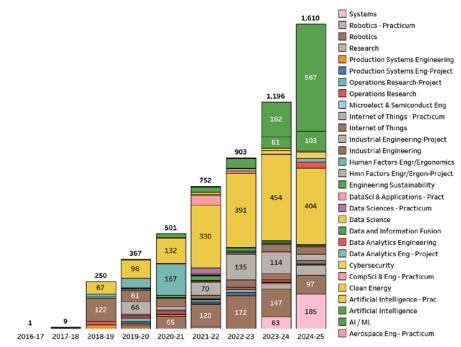
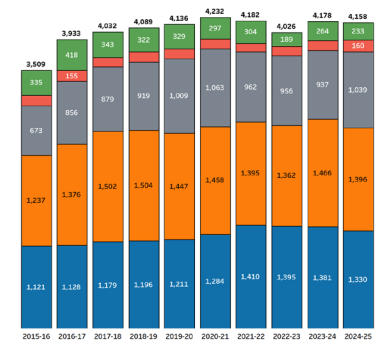
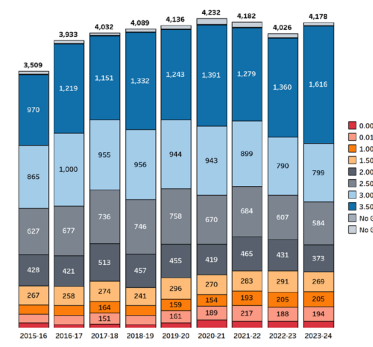
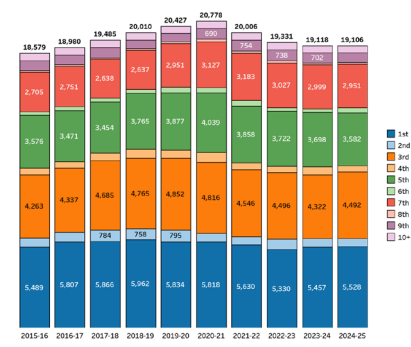
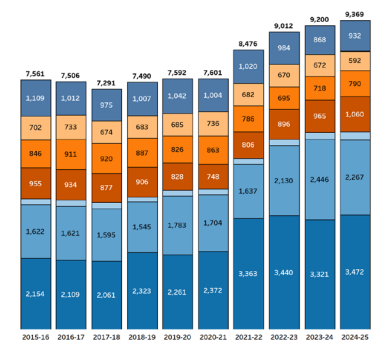
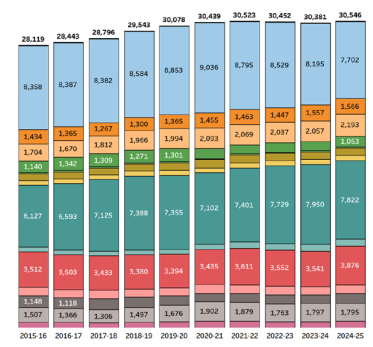
Graduate Continuing Fall
 Professional New Spring
 Undergraduate

[Click to Hide Filters](#)

[Reset All Filters](#)

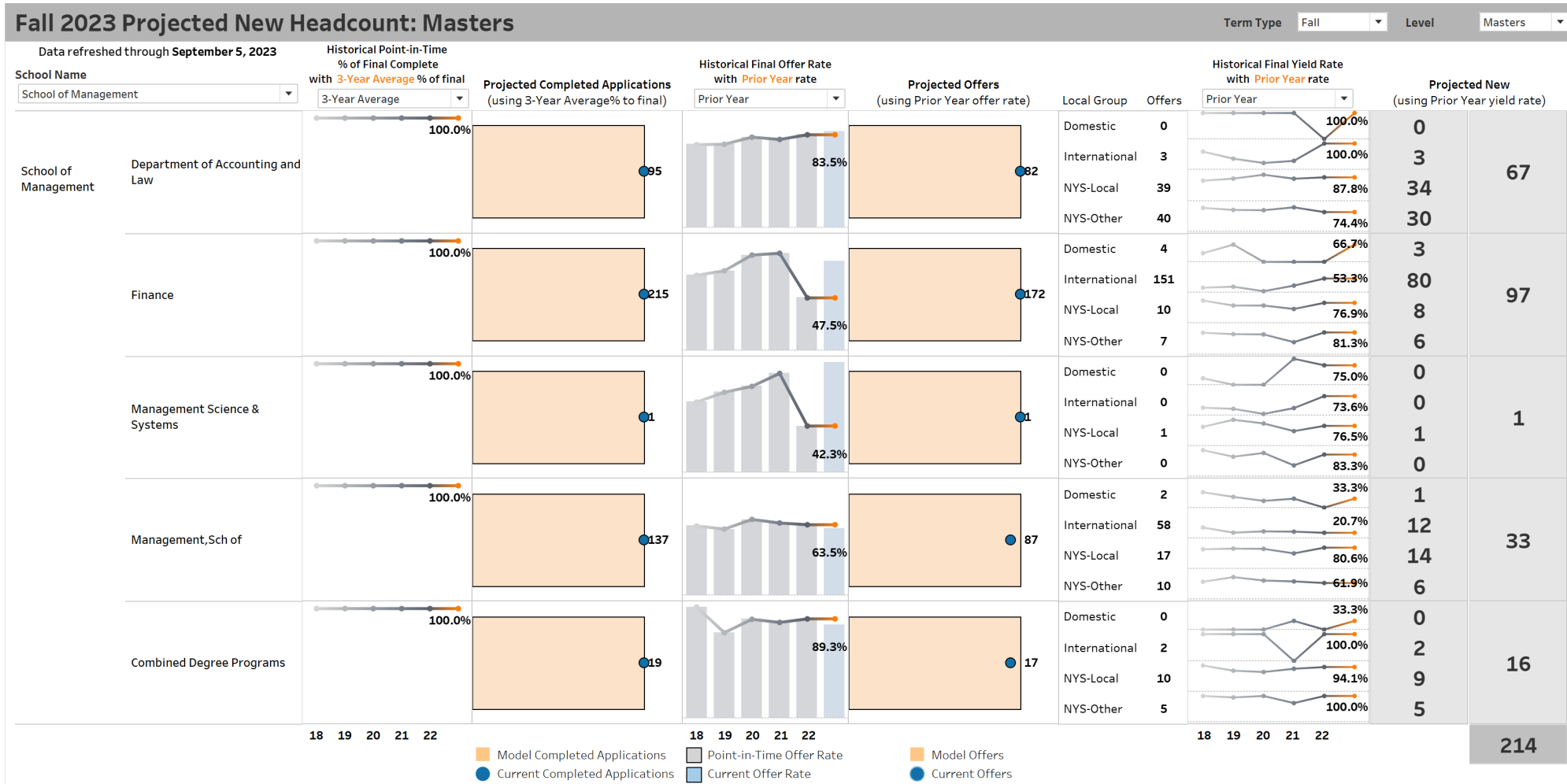
Example #5 → Deep Dive to Explore & Discover

- Color Breakdown**
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 - BioDemo - Gender
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 - Plan - Has Minor
 - Revenue - Tuition Group
 - Student - Funding
 - Student - Higher Ed History
 - Student - Online Status
 - Term Num
 - Term Num - with Summer Entry
 - Visa
 - Visa - Group



Almost 30 options for bar coloring/breakdown

Example #5 → Deep Dive Models (“Glass Box”)



Thanks for coming!

*How did I do? Please take the
Session Survey on your smart
device using the QR Code
on your schedule.*