# THE IMPORTANCE OF DATA-INFORMED ADVOCACY FOR STATE SYSTEMS

TRANSFORMING NUMBERS INTO NARRATIVES

SHEEO COMMUNITIES OF PRACTICE: STRENGTHENING DATA LITERACY AMONG HIGHER EDUCATION STAKEHOLDERS (NOVEMBER 7, 2025)

Carolyn Sloane Mata, Ph.D. *Data Whisperer* 



#### **ABOUT ME**



Carolyn Sloane Mata
Higher Education Consultant
CM Education Insights & Solution

Director/Coordinator of Data/Research for: NC, SC, GA, TX, OR independent college associations

10 years as IPEDS Educator for NCES, frequent TRP invitee and moderator

Led 5 cohorts of the AIR Data Literacy Institute

Coaching CA and HI cross-sector teams for the SHEEO Basic Needs Academy

Served in IR at multiple institutions

Worked with AIR, Lumina, SHEEO, ECMC, NECHE, and SREB on data/research projects

Assisted multiple institutions with accreditation self studies

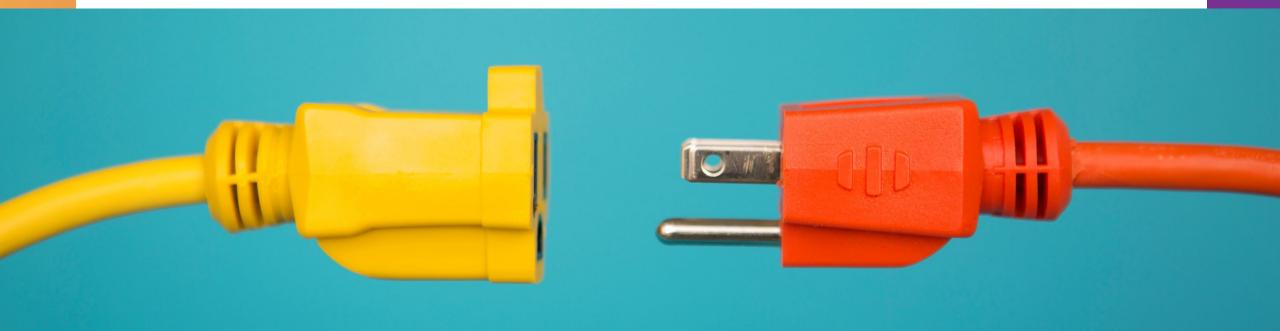
#### **ROADMAP**



# **BIG PICTURE/BIG DATA**

"why data"  $\rightarrow$  "how to use it"  $\rightarrow$  "where to find it."

# IF THE DATA IS ON OUR SIDE, WHY DO WE STRUGGLE IN GETTING OTHERS TO MAKE THE SAME CONNECTIONS?



# THE IMPORTANCE OF DATA-INFORMED ADVOCACY

SPOILER ALERT: GRAPHS DON'T CHANGE MINDS!

#### WHY INFORMED ADVOCACY?



Increased scrutiny and funding limitations threaten colleges and state systems.



Policymakers need evidence to support higher education initiatives.



Data translates mission into measurable impact.



Advocacy is stronger when rooted in facts and narratives.

### 3 KEY LESSONS

MANTRAS I REMIND MYSELF IN ADVOCATING FOR HIGHER EDUCATION

#### LESSON 1: KNOW YOUR AUDIENCE



Tailor your data to what your audience values – same data point, different message.



Legislators may care more about job placement or ROI than academic accolades.



Community leaders might prioritize economic development and local partnerships.

#### THE WHAT THEY CARE **HOW TO AUDIENCE ABOUT FRAME** Jobs, local industry Legislator (workforce-Our graduates are filing your alignment, workforce high-demand job needs oriented) pipelines We deliver strong outcomes ROI, efficient use of state Legislator (budgetat a reasonable cost to the funds, public accountability conscious) state Governor's policy staff all in on technical/CC We're part of the pipeline, Articulation, transfer success not the competition Regional talent retention, Well-rounded supply the **Chamber of Commerce** talent that keeps economies skill building, economic leader (rural area) strong, largest employers impact

#### **LESSON 2: START WITH THE "WHY"**



Numbers alone won't move hearts or budgets



Contextualize every data point with a story, trend, or community impact.



Lead with purpose, then support with data.

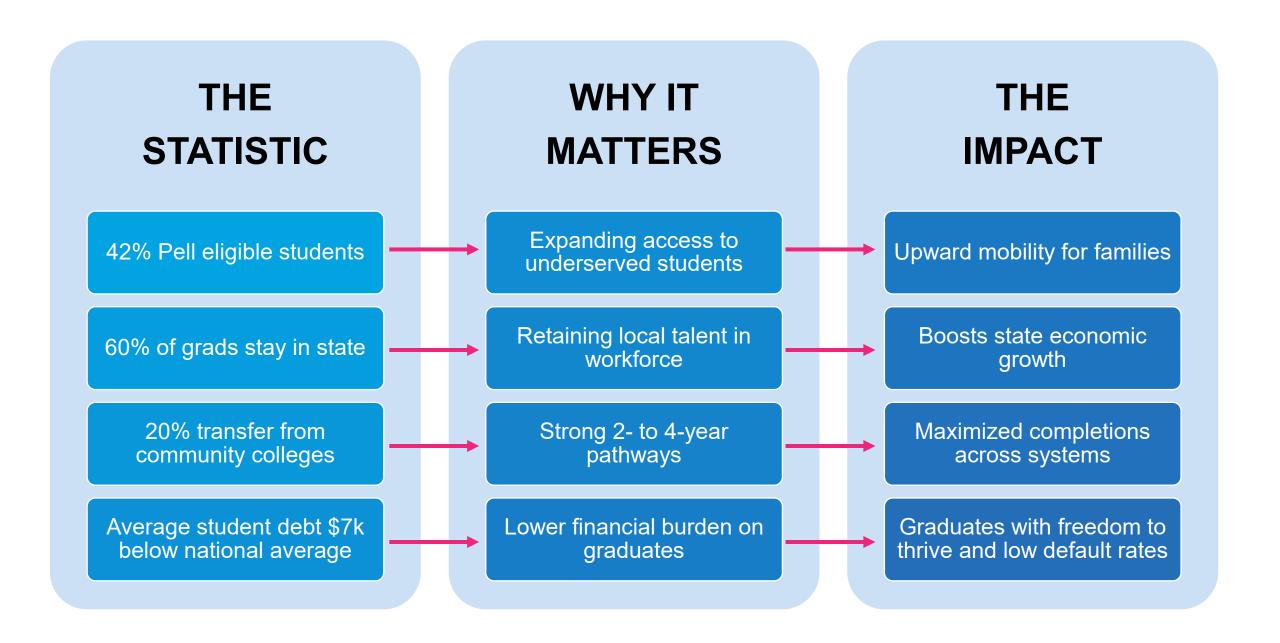
Data is the *proof*. But your *why* is the point.



#### The Difference

a) Our graduation rate is 62%.

b) Six out of ten students—many of them first-gen or Pelleligible—are crossing the finish line, entering the workforce, and contributing to our state economy.





#### The Difference

- a) 60% of our graduates stay in-state to work.
- b) More than half of students who graduate from our colleges remain in the state. We're not just educating students—we're investing in the local workforce pipeline.

#### LESSON 3: NOT ALL DATA IS WORTH THE SQUEEZE



Complex data/information can confuse rather than clarify for the audience.

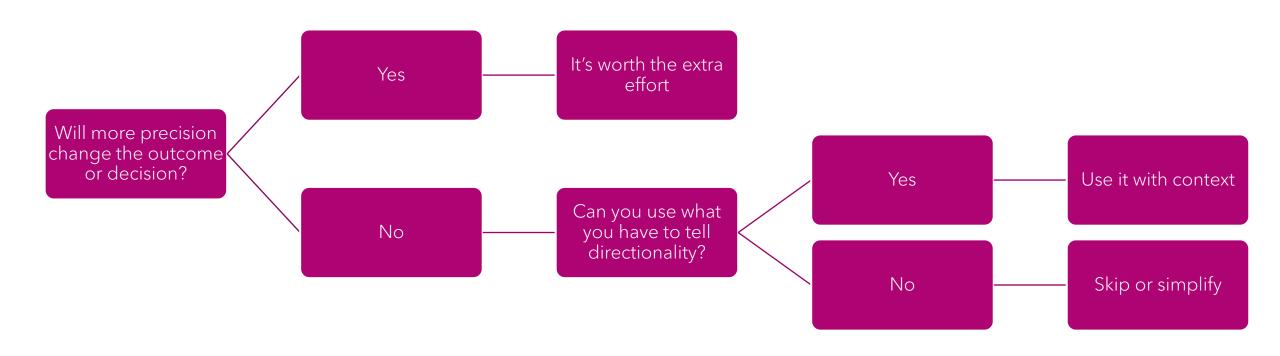


Consider the time and effort required to extract meaningful insights. When is enough, enough?



Focus on data that is timely, accurate, and clearly supports your message.

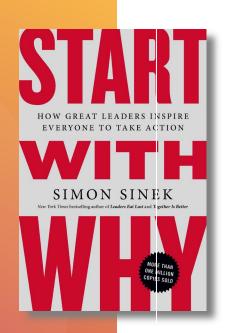
#### FLOWCHART: HOW MUCH JUICE TO SQUEEZE?



# THE POWER OF "WHY"

MAKE THE IMPLICIT....EXPLICIT

#### THE POWER OF 'WHY'



A statistic without a story

A trend with some structure

Data + Why

Data

Only

Data +

Framing

A value-driven message

Data + Why +Human Story

The message that moves people

Framing data around values builds emotional connection.

Helps policymakers and the public connect to your institution's mission.

Elevates statistics into a compelling story.

#### **STARTING WITH "WHY"**

"People don't buy what you do—they buy why you do it"

Emotions drive decisions—data justifies them

Purpose > policy details

Start with values, end with validation

#### WHY DATA MATTERS IN ADVOCACY

01

Data is crucial for highlighting the value of higher education.

02

It helps in crafting narratives that resonate with stakeholders, especially amidst budget challenges. 03

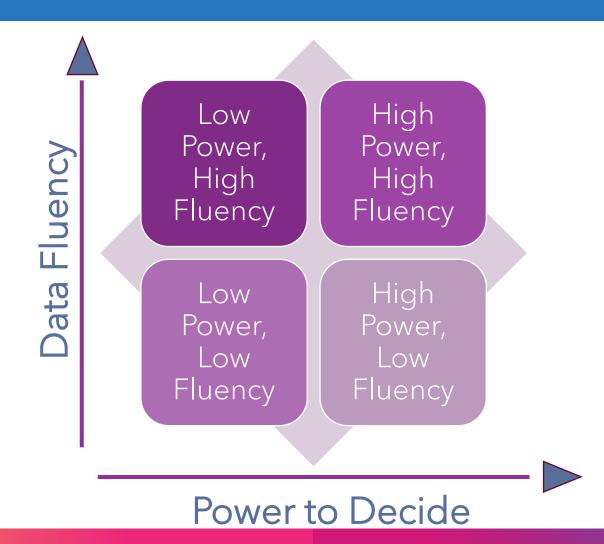
We know our story - they don't.

04

Even when people don't care about data, they care about data.

When do we get in the weeds and when do we fly at 30,000 feet?

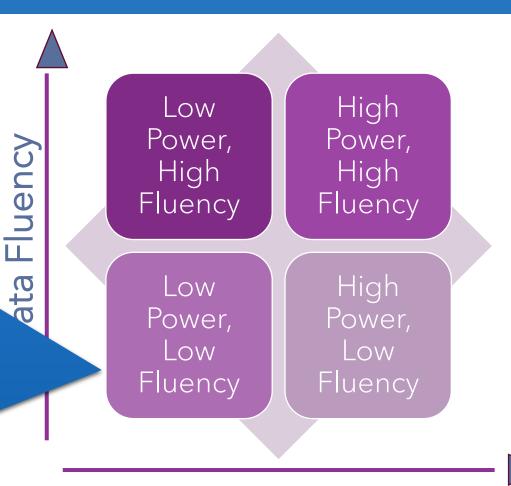
#### **AUDIENCE SEGMENTATION GRID**



#### **AUDIENCE SEGMENTATION GRID**

ata

Local community leaders and public audiences: Lead with the story, hook them emotionally, use visuals, short quotes and infographics. Goal is awareness and support.



Power to Decide

Keeping Students in Nebraska Sarah: The Local Connection Emily: The Newcomer's Challenge Marcus: The Outsider Looking In The Impact of Connections

Nebraska Data



In Nebraska, three students stood at a crossroads.

Sarah, an in-state student, felt a deep connection to her home in Nebraska. Emily, an out-of-state student from New Jersey, faced the challenge of integrating into a new environment while pursuing her goals. Marcus, hailing from Chicago, Illinois, longed for a new opportunity but wanted to stay in the Midwest.

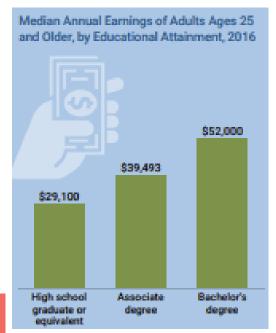


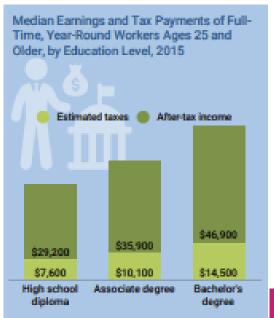
Check out NSWERS Insights website: https://insights.nswers.org/

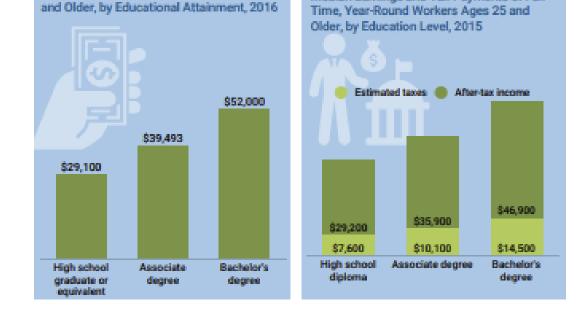
A changing economy, stagnant wages, and increasing college sticker prices have contributed to a growing public perception that a higher education is diminishing in value. In fact, higher education remains a tremendous benefit for students, their local and state communities, and the national and global economy. With over 3.3 million projected high school graduates by 2025–26,1 the benefits of higher education have the potential to make social mobility a reality for millions of Americans and their communities.

#### SALARY

College graduates have higher-paying jobs 1,2

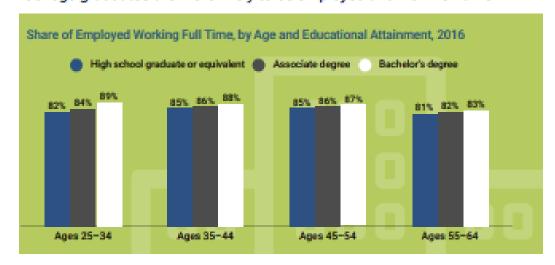


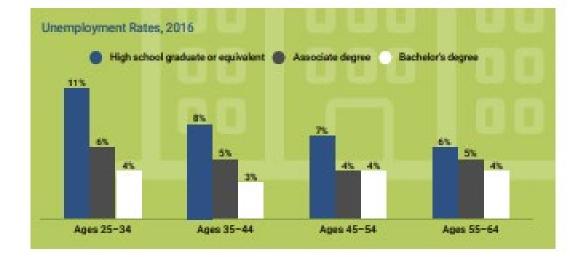




#### **EMPLOYMENT**

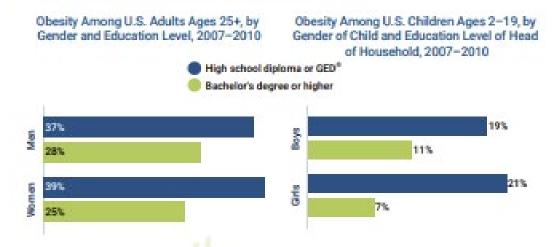
College graduates are more likely to be employed and work full time1





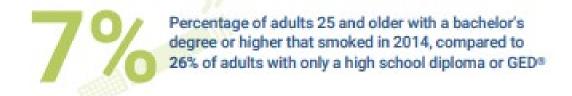
#### HEALTH

College completion contributes to healthier lives3.4



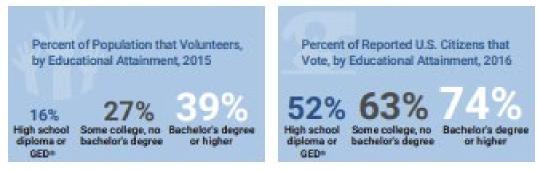
Percentage of adults 25 and older with a bachelor's degree or higher that smoked in 2014, compared to 26% of adults with only a high school diploma or GED®





#### CIVIC ENGAGEMENT

College graduates are more likely to volunteer and vote2,5



Note: Figures have been rounded.

#### Service of

- 1. Engineers, Landor L., Josephan M. Tork, Mangan Taylor, and Hellin M. Chanarian. 2019. Bean anoththeisty in Higher Education. Education 19. Senior 19. S. and 19. S. Sandor San
- 5 May Januarian Marine Premier and Marcellin Walch. 2019. Managem Preparation The Reporting of Higher Education for Institutions and Contrary Washington, SC College Securit.
- 3 Mattered Contar for Health Statistics (MCHE), Health, Solled States, 2011. Tables, 23, 35.
- A Markoval Contar for Possible Statistics (MENG), Routing States States 2016, Tuble 68.
- II III II. Campus Bureau, Coment Population Survey, Newsonian 2018.

#### **AUDIENCE SEGMENTATION GRID**

FIU

ata

Analysts and research partners:
These are your allies - bring them into the fold.

Test your message for scrutiny, and use them to help you dig deeper to refine the why.

High Low Power, Power, High High Fluency Fluency High Low Power, Power, Low Low Fluency Fluency

Power to Decide



#### **NSSE 2024 Core Survey Dashboards**

Return to homepage

#### Engagement Activities (Questions 1-3)

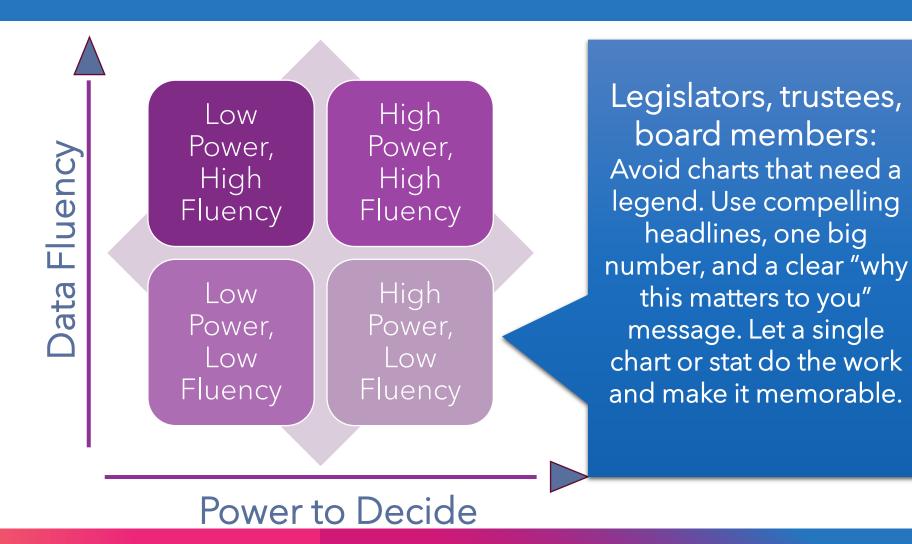
These tables report item-by-item student responses that allow you to examine patterns in student engagement as measured by NSSE. The display can be customized using filters to the left. For more information please visit our website (nsse.indiana.edu) or contact a member of the NSSE team.

Customize your view							
Administration year  (a) (All) (b) 2024 (c) 2023  *most recent admin. only  Filters:	Class level     First-year     Senior						
Select subgroups below to filter	results on this page.						
Student Filters	Institution Filters						
Major field category  (AII) ▼  First-generation status  (AII) ▼	Carnegie Class (U.S. only)  (All)  Undergraduate enrollment  (All)  ▼						
Enrollment status  (AII) ▼  Race/Ethnicity  (AII) ▼	Control (U.S. only)  (AII) ▼						
Gender identity  (AII) ▼							

#### During the current school year, about how often have you done the following?

	Very often	Often	Sometimes	Never	
Contributed to course discussions	52,261	77,938	95,065	13,926	
Contributed to course discussions  Asked another student for help  Explained course material to students	22%	33%	40%	6%	
Asked another student for help	40,802	73,308	94,056	30,321	
Asked another student for help	17%	31%	39%	13%	
	39,084	81,037	94,787	23,031	
Explained course material to students	16%	34%	40%	10%	
	39,553	66,130	83,886	46,968	
Prepared for exams with other students	17%	28%	35%	20%	
	43,939	80,916	83,591	26,846	
Worked with other students on coursework	19%	34%	36%	11%	
Gave a course presentation	22,479	49,193	102,227	60,858	
	10%	21%	44%	26%	

#### **AUDIENCE SEGMENTATION GRID**



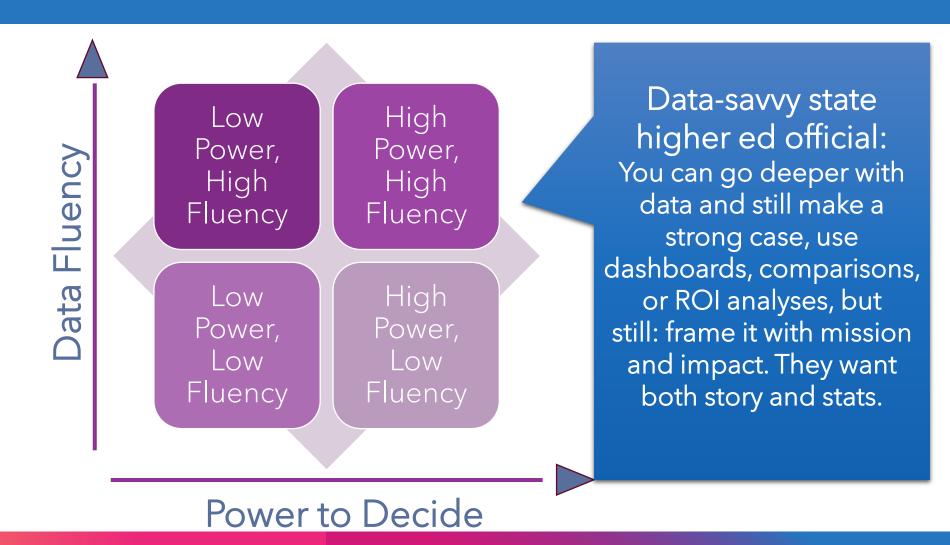
#### Does the Tuition Equalization Grant Really Make a Difference?



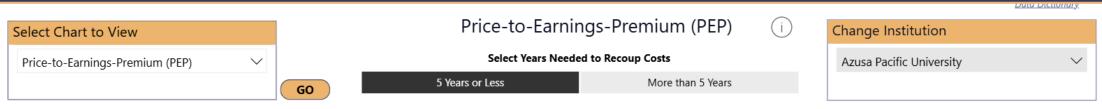
"The Tuition Equalization Grant may only \$750, but to me that is a lot. I am a full-time student taking 15 credit hours a semester, working as a waitress at a local restaurant, and I also have a work-study job. While it would be an understatement to say that life is stressful, I know that if the TEG didn't exist, it would take me months to save up that \$750 from tips. In total, I have received over \$2,000 and I am very thankful. I just want people to know that the money, as small as it may seem, does help students like me that are in need, and that the support is greatly appreciated."

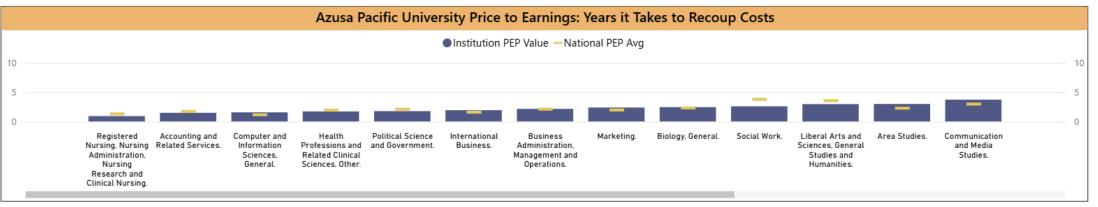


#### **AUDIENCE SEGMENTATION GRID**



#### ABOUT HANDBOOKS DIRECTORY RESOURCE LIBRARY EDUCATIONAL PROGRAMS & TRAINING FOR STUDENTS





Type of Credential	Field of Study	PEP Years	PEP Years Category	PEP Years Nat Avg	Med Earnings - 5Yr	HS Grad Earn	Earn Diff	# In Earn Cohort	Annual Net Price	Total Net Price	Pct FTFT	Financial Control
Bachelor's Degree	Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing.	0.9	0-1	1.3	\$119,455	\$32,476	\$86,979	351	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Accounting and Related Services.	1.5	1-2	1.7	\$86,401	\$32,476	\$53,925	32	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Computer and Information Sciences, General.	1.6	1-2	1.1	\$83,541	\$32,476	\$51,065	20	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Health Professions and Related Clinical Sciences, Other.	1.7	1-2	1.9	\$78,795	\$32,476	\$46,319	56	\$19,798	\$79,191	75%	Private
Bachelor's Degree	International Business.	1.9	1-2	1.6	\$73,675	\$32,476	\$41,199	17	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Political Science and Government.	1.8	1-2	2.1	\$77,575	\$32,476	\$45,099	36	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Area Studies.	3.0	2-3	2.3	\$59,136	\$32,476	\$26,660	18	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Biology, General.	2.4	2-3	2.3	\$64,981	\$32,476	\$32,505	43	\$19,798	\$79,191	75%	Private
Bachelor's Degree	Business Administration, Management and Operations.	2.1	2-3	2.1	\$69,444	\$32,476	\$36,968	270	\$19,798	\$79,191	75%	Private
Rachelor's Degree	Liberal Arts and Sciences, General Studies and Humanities.	2.9	2-3	3.5	\$59,335	\$32,476	\$26,859	227	\$19,798	\$79,191	75%	Private

# WHAT RESONATES?

THE DATA THAT SPEAKS TO MOST AUDIENCES

#### TYPES OF DATA THAT RESONATE



Enrollment trends and demographic shifts



Student success metrics (retention, graduation rates, completion)



Employment outcomes



Workforce alignment



Access and equity (Pell, first-gen, rural divide)



Savings to the state



Affordability and cost transparency



Institutional and statelevel economic impact

# WHERE'S THE DATA?

HIDING IN PLAIN SIGHT

Enrollment trends and demographic shifts Student success metrics (retention, graduation rate, completion)

Employment outcomes

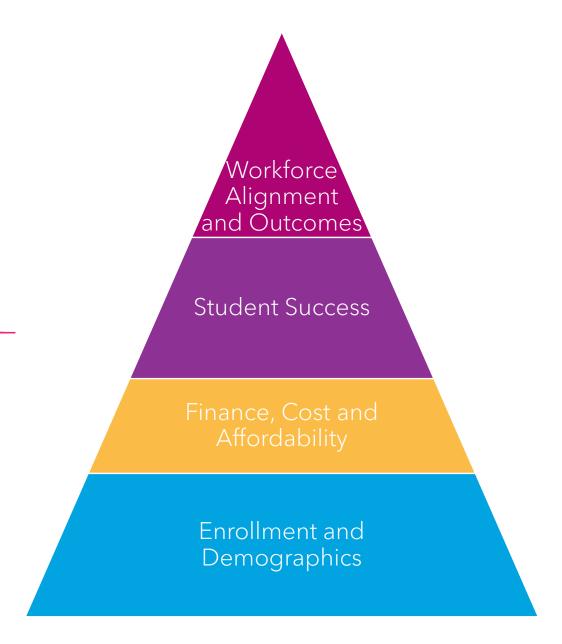
Workforce alignment

Access and equity (Pell, first-gen, locale)

Savings to the state

Affordability and cost transparency

Institutional and state-level economic impact



#### **ENROLLMENT AND DEMOGRAPHICS**

IPEDS/NCES: https://nces.ed.gov/ipeds/use-the-data

**IPEDS Net Migration:** 

https://nces.ed.gov/ipeds/search/viewtable?tableId=36099&returnUrl=%2Fsearch

WICHE Knocking at the College Door: <a href="https://www.wiche.edu/knocking/">https://www.wiche.edu/knocking/</a>

Census: <a href="https://www.census.gov/topics/education/educational-attainment.html">https://www.census.gov/topics/education/educational-attainment.html</a>

Pell Institute: <a href="https://www.pellinstitute.org/">https://www.pellinstitute.org/</a>

SHEEO SHEF State Profiles: <a href="https://shef.sheeo.org/state-profile/georgia/">https://shef.sheeo.org/state-profile/georgia/</a>

SREB Fact Book: <a href="https://www.sreb.org/fact-book-higher-education-0">https://www.sreb.org/fact-book-higher-education-0</a>

National Bureau of Economic Research: <a href="https://www.nber.org/">https://www.nber.org/</a>

NCES DataLab: <a href="https://nces.ed.gov/datalab/">https://nces.ed.gov/datalab/</a>

#### FINANCE, COST AND AFFORDABILITY

State Appropriations: Varies by state

NACUBO: https://www.nacubo.org/Research/2024/NACUBO-

**Tuition-Discounting-Study** 

NCES DataLab NPSAS: https://nces.ed.gov/datalab/

IPEDS: <a href="https://nces.ed.gov/ipeds/use-the-data">https://nces.ed.gov/ipeds/use-the-data</a>

CATC: <a href="https://collegecost.ed.gov/">https://collegecost.ed.gov/</a>

FSA Federal Student Aid Data Center: <a href="https://studentaid.gov/data--">https://studentaid.gov/data--</a>

<u>center</u>

College Scorecard: <a href="https://collegescorecard.ed.gov/">https://collegescorecard.ed.gov/</a>

TICAS: <a href="https://ticas.org/ourwork/student-debt/">https://ticas.org/ourwork/student-debt/</a>

CollegeBoard: <a href="https://research.collegeboard.org/">https://research.collegeboard.org/</a>

CollegeBoard Trends in College Pricing:

https://research.collegeboard.org/trends/college-pricing

CollegeBoard Trends in Student Aid:

https://research.collegeboard.org/trends/student-aid

FSA Data Center: <a href="https://studentaid.gov/data-center">https://studentaid.gov/data-center</a>

InformedStates: <a href="https://informedstates.org/data">https://informedstates.org/data</a>

College Scorecard: <a href="https://collegescorecard.ed.gov/">https://collegescorecard.ed.gov/</a>

SHEEO SHEF: <a href="https://shef.sheeo.org/data-downloads/">https://shef.sheeo.org/data-downloads/</a>

#### STUDENT SUCCESS

IPEDS (Graduation Rates & Outcome Measures): <a href="https://nces.ed.gov/ipeds/use-the-data">https://nces.ed.gov/ipeds/use-the-data</a>

National Student Clearinghouse: <a href="https://nscresearchcenter.org/">https://nscresearchcenter.org/</a>

NSC PDP: <a href="https://www.studentclearinghouse.org/solutions/ed-insights/pdp/">https://www.studentclearinghouse.org/solutions/ed-insights/pdp/</a>

College Scorecard: <a href="https://collegescorecard.ed.gov/">https://collegescorecard.ed.gov/</a>

Lumina Foundation Stronger Nation: <a href="https://strongernation.luminafoundation.org/credentials-of-value">https://strongernation.luminafoundation.org/credentials-of-value</a>

TICAS Quick Facts: <a href="https://ticas.org/wp-content/uploads/2024/08/Postsecondary-Attainment-Quick-">https://ticas.org/wp-content/uploads/2024/08/Postsecondary-Attainment-Quick-</a>

Facts-August-2024.pdf

#### **WORKFORCE ALIGNMENT/OUTCOMES**

State high demand job lists – map the SOC code to CIP codes of IPEDS Completions

College Scorecard: <a href="https://collegescorecard.ed.gov/">https://collegescorecard.ed.gov/</a>

Census PSEO: https://lehd.ces.census.gov/data/pseo\_experimental.html

State SLDS Systems

Bureau of Labor Statistics: <a href="https://www.bls.gov/oes/tables.htm">https://data.bls.gov/oesmap/</a>

CollegeBoard – Education Pays: <a href="https://research.collegeboard.org/trends/education-pays">https://research.collegeboard.org/trends/education-pays</a>

NACE – First Destination Survey

O\*Net OnLine: <a href="https://www.onetonline.org/">https://www.onetonline.org/</a>

Federal Reserve Bank of St. Louis: <a href="https://fred.stlouisfed.org/">https://fred.stlouisfed.org/</a>

SREB Fact Book on Higher Education: <a href="https://www.sreb.org/fact-book-higher-education-0">https://www.sreb.org/fact-book-higher-education-0</a>

# WHAT DOES THIS ALL MEAN?

PUTTING IT ALL TOGETHER

#### TELL THE STORY

#### Advocacy = Facts + Framing + Why it Matters

#### Use data to:

- Clarify your value
- Support your ask
- Humanize your mission

#### Advocacy works best when:

- You start with why
- You show outcomes
- You center the student/community impact



Did I start with "why"?

Data
Advocacy
Checklist



Did I choose the right audience-specific data? Did the juice equal the effort of the squeeze?



Did I keep the message visual and digestible? Was it consumable?



Did I translate the statistics into impact?



Did I tell a story? Did I address what they care about?

#### OUR VOICE. OUR VALUE. OUR DATA.

Higher education has a powerful story—and the data to prove it.

Our mission-driven education changes lives.

Our graduates fuel state economies and make the American Dream a possibility.

Our institutions are essential.

Let's keep telling that story

—with facts, with clarity, and with the "why" at the forefront.

# **THANK YOU!**

#### **CAROLYN SLOANE MATA, PH.D.**

Email: <a href="mailto:cmata@cm-insights.org">cmata@cm-insights.org</a>

LinkedIn: <a href="https://www.linkedin.com/in/carolyn-mata-phd-1aa5b023/">https://www.linkedin.com/in/carolyn-mata-phd-1aa5b023/</a>