

Data Analytics and Retention Strategies at The University of Southern Mississippi

Introduction to Presenter

Dr. Amy Chasteen, Executive Vice Provost for Academic Affairs

- Twenty-five-year career at The University of Southern
 Mississippi, as a faculty member and an administrator
- Applies sociological, data-informed perspectives to strategic analysis and change management around student success, faculty development, and enrollment management.
- Passionate about equity-minded approaches to leading the next phase of higher education in a COVID-informed and influenced reality.



Agenda

- USM Background & Presenter Introduction
- Investment in Analytics
- Strategic Enrollment Management
- Example Case Studies
- What's Next
- Questions



USM Background

- Founded in 1910, The University of Southern Mississippi is a public, comprehensive research university (R1) located near the Gulf of Mexico, about 100 miles east of New Orleans.
- Our fall 2021, enrollment includes 10,638 undergraduate students and 3,442 graduate students, both online and face-to-face.
- We pride ourselves on balancing an exceptional, internationally known research profile with an emphasis on student-centered pedagogy and support, leveraging our unique context to accelerate the success of our diverse student body.
- We are one of eight public institutions of higher learning in a small state and, like many universities, face increasing budgetary challenges and a competitive environment for student recruitment.



Initial Investment in Analytics

Most of the world will make decisions by either guessing or using their gut. They will be either lucky or wrong."

Suhail Doshi, chief executive officer, Mixpanel.

Information is the oil of the 21st century, and analytics is the combustion engine."

Peter Sondergaard, Senior Vice President, Gartner, Inc.



Vinod Khosla, co-founder, Sun Microsystems, LS9, Inc.



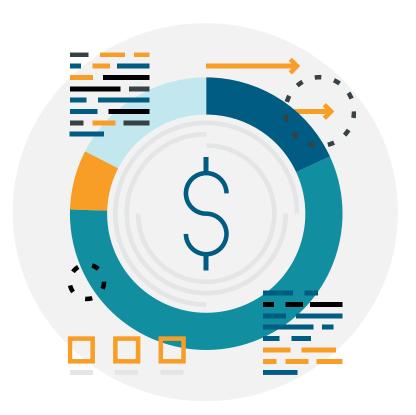
Cultivating Data-Grounded Leadership, 2018-2020

- Restructuring Institutional Research
 - Greater service-orientation and visibility on campus
 - Increased emphasis on analytics and data sharing
- Creating expectations and accountability for leadership
 - Peer data averages
 - Dashboard monitoring
- Centering data in proposal processes



Cultivating Data-Grounded Leadership, 2020-forward

- Optimizing academic programming
 - Identifying and expanding revenue centers
 - Strategically managing cost centers
 - Redesigning or sunsetting under-performing programs
- Reimagining targeted retention efforts
- Realigning financial aid and scholarships



Strategic Enrollment Management

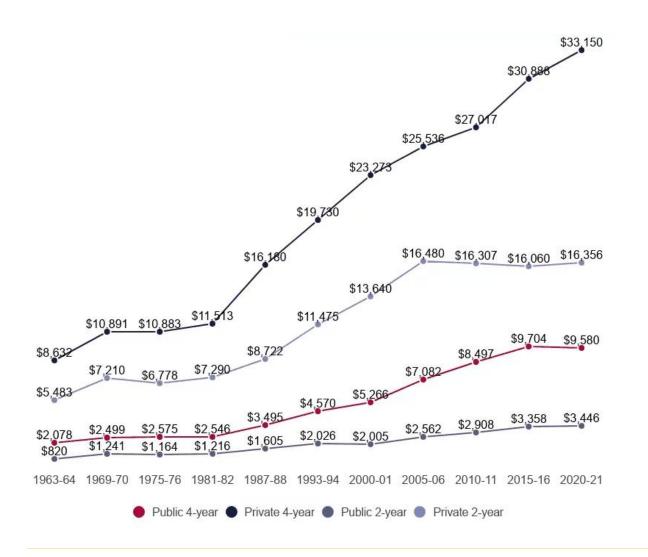
Effective management of enrollment in today's emerging higher education context includes

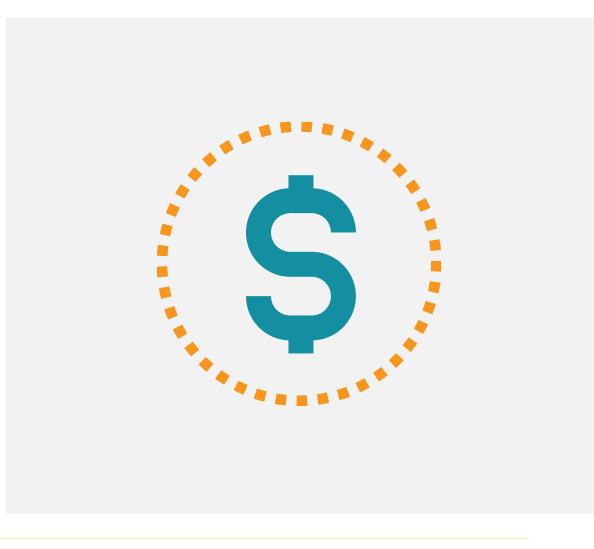
- Responding to questions about the value and relevance of a college education
- Meeting the needs of increasingly diverse student bodies
- Addressing increased expectations for online course and program options
- Balancing (sometimes) competing recruitment and retention demands

A future-focused, enrollment management lens must recognize the complexity of enrollment management and lean on data for strategic leadership.

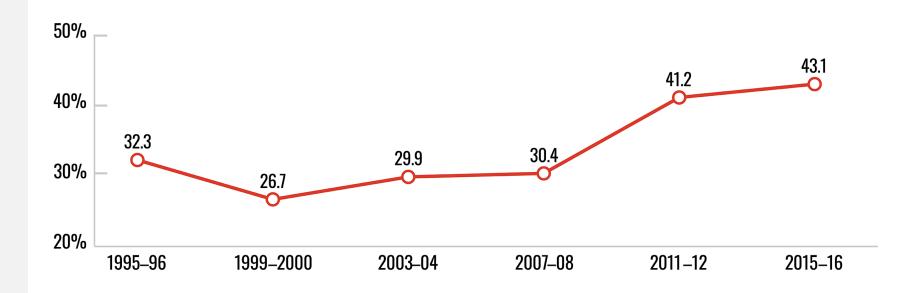


Historical Cost of College Tuition & Fees in 2021 Dollars





Share of All Undergraduates Who Were Low Income: 1995-96 to 2015-16

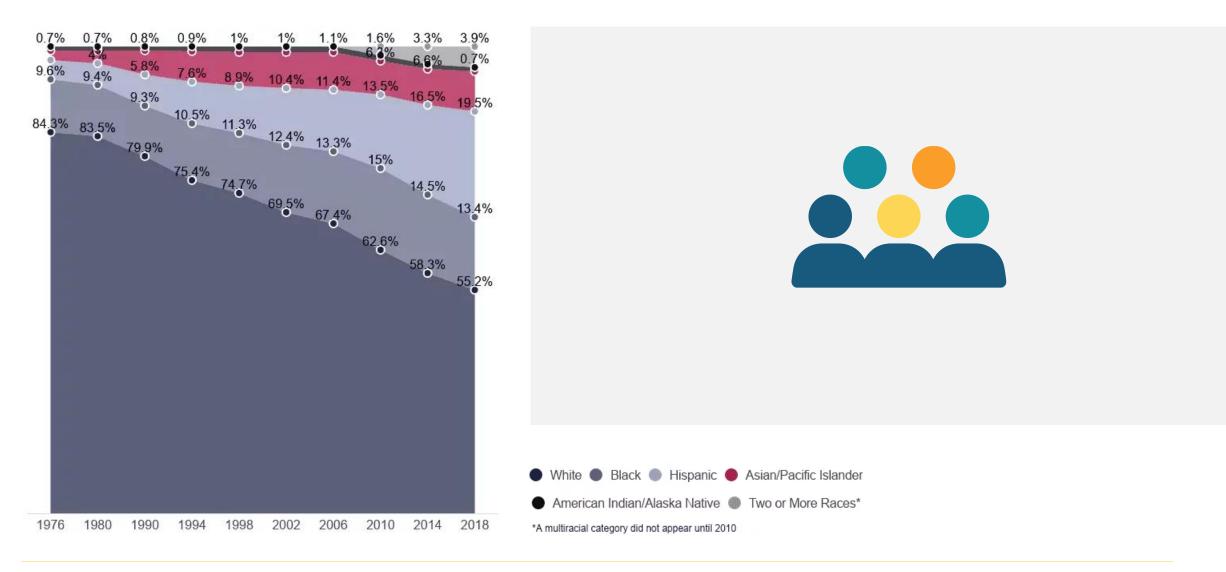


Source: U.S. Department of Education, National Postsecondary Student Aid Study, 1996, 2000, 2004, 2008, 2012, and 2016

Note: Low-income undergraduates are those whose family income (for dependent students) or individual income (independent students) is at or below 150% of the federal poverty threshold.

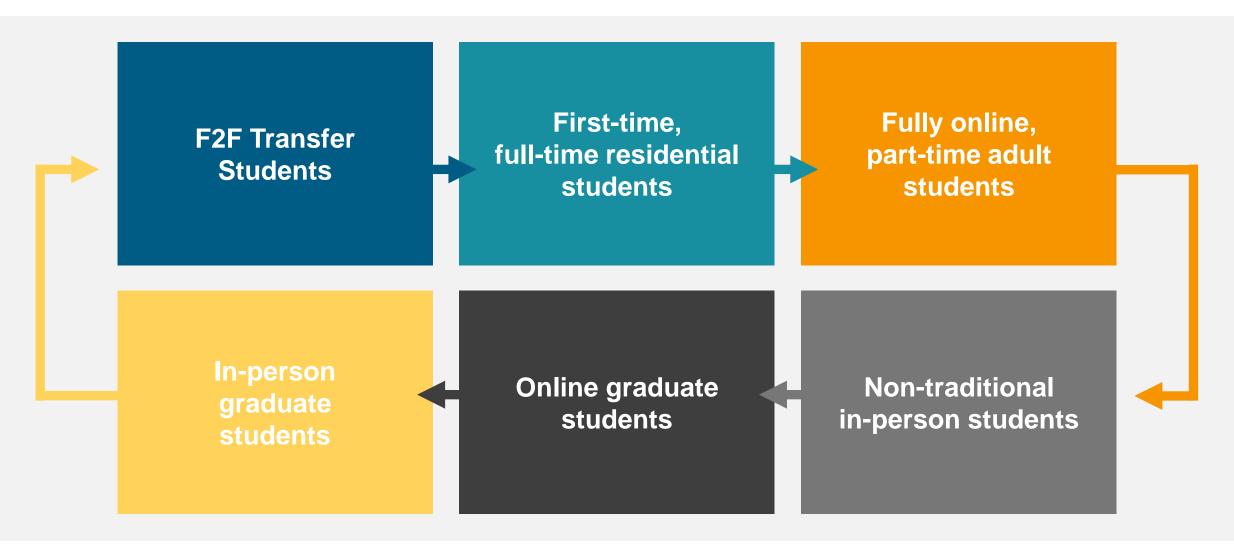


Racial Demographic Trends in College Enrollment





Changing Composition of Enrolled Students



Strategic Enrollment Management Goals & Strategies



Lean on Data



Mind the Complexity



Focus on the Whole



Eye towards the Change

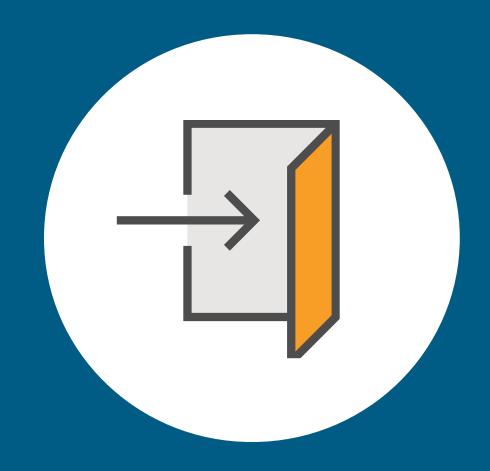


Adjust Intentionally



Overall Enrollment: Recruited Students + Retained Students

What financial packaging speaks to each? Is it possible to speak to both?



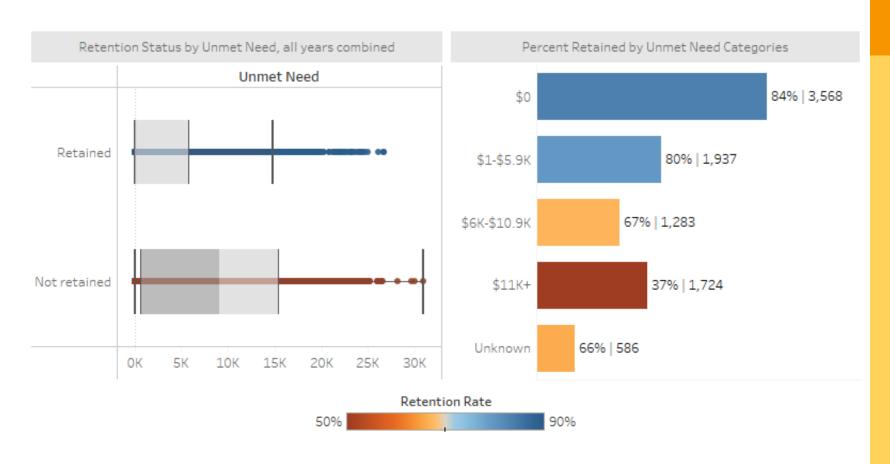
Example: USM Institutional Awards for Incoming Freshman

Scholarship Amount Breakdown by Test Scores

ACT/SAT Equivalent	Annual Amount	Total Over 4 Years		
30-36	Full Value of Tuition	Total Amount of Tuition		
27-29	\$7,000	\$28,000		
24-26	\$5,000	\$20,000		
21-23	\$3,000	\$12,000		

- Students must have a high school core gpa of 3.0 or higher
- All awards are automatically renewed for a total of **4 years (8 consecutive fall/spring semesters)** in accordance to the student maintaining scholarship stipulations each semester.
- Full tuition scholarships will increase as tuition rates increase. Tuition rates are subject to change without notice by the Board of Trustees of the Mississippi Institutions of Higher Learning.





WHAT'S IMPORTANT?

- Length of the bar represents the number of students
- Color represents retention rate
- Overall, students with higher unmet need retain at lower rates



Explore Retention by Unmet Need, None and HS GPA Cut Points

		HS GPA Cut Points							Grand Total
		0.0 - 2.0	2.1-3.0	3.1 - 3.3	3.4-3.7	3.8 - 3.9	4.0	Unknown HS GPA	Grand Total
Grand	d Total	56.90% 116	53.51% 2,134	63.82% 1,556	73.90% 2,188	84.31% 1,364	92.07% 1,123	77.42% 31	70.79% 8,512
ъ	\$0	77.27% 44	68.69% 725	79.32% 561	85.33% 866	89.40% 651	95.59% 703	88.89% 18	83.69% 3,568
Unmet Nee	\$1-\$5.9K	68.18% 22	66.30% 368	73.58% 352	81.17% 547	88.16% 380	92.75% 262	66.67% 6	79.71% 1,937
	\$6K-\$10.9K	44.44% 18	54.99% 351	63.67% 278	69.94% 356	81.08% 185	85.87% 92	66.67% 3	66.87% 1,283
	\$11K+	28.13% 32	30.00% 690	30.68% 365	44.15% 419	56.08% 148	60.61% 66	50.00% 4	37.01% 1,724

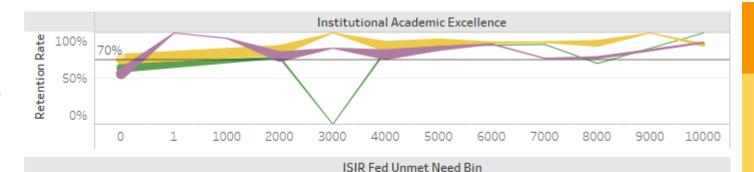


WHAT'S IMPORTANT?

 You can start to see that unmet need and GPA matter. No matter how high the students GPA, if you have significant enough unmet need, you will still not persist. The inverse is true as well.



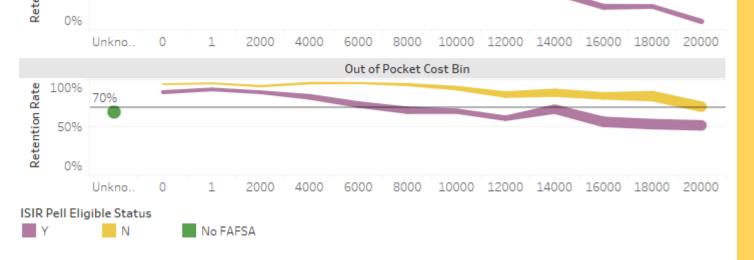
Retention Rate by Proposed FA Category



Retention Rate by Unmet Need

50%





WHAT'S IMPORTANT?

- Thickness of the bars = size of population.
- Color indicates Pell Eligible Status with Pell-eligible students in purple and non-Pell in gold.
- Above \$6k unmet need, retention rates for Pell and non-Pell students dip below average retention.
- Retention for Pell-Eligible students is lower overall.
- The top chart shows the power of institutional scholarships. Pell students getting awards are at or above the average retention rates at all levels.
- Institutional Academic Excellence
 are those not receiving aid.



What's Next?

Optimizing Enrollment through Dual-Focused Scholarship Modeling



What's Next?

Retention Rate is adjusted based on the Retention Rate of the lower unmet need band. This analysis uses Full Scenario retention rate.*

	Headcount	Retention Rate	Retention Count	Avg. Isir Fed Unmet Need	Avg Out of Pocket Cost	Scenario Avg. Unmet Need	Scenario Retention Rate	Scenario Retention Count	Scenario Retention Count Change	Scenario Additional Aid Required	Scenario Added Aid per student
0	429	89.0%	382	\$0	8,449	\$0	89.0%	382	0	\$0	\$0
1	330	90.3%	298	\$939	7,283	\$0	90.3%	298	0	\$309,877	\$939
2000	296	86.1%	255	\$3,081	9,301	\$939	90.3%	267	12	\$633,951	\$2,142
4000	244	80.7%	197	\$4,898	10,433	\$3,081	86.1%	210	13	\$443,406	\$1,817
6000	191	77.0%	147	\$7,025	13,171	\$4,898	80.7%	154	7	\$406,168	\$2,127
8000	186	74.2%	138	\$8,955	14,078	\$7,025	77.0%	143	5	\$359,017	\$1,930
10000	142	73.9%	105	\$10,917	15,224	\$8,955	74.2%	105	0	\$278,706	\$1,963
12000	171	56.7%	97	\$12,814	15,858	\$10,917	73.9%	126	29	\$324,251	\$1,896
14000	107	43.0%	46	\$14,900	15,891	\$12,814	56.7%	61	15	\$223,288	\$2,087
16000	94	31.9%	30	\$16,984	18,342	\$14,900	43.0%	40	10	\$195,866	\$2,084
18000	54	31.5%	17	\$18,754	18,204	\$16,984	31.9%	17	0	\$95,548	\$1,769
20000	51	19.6%	10	\$21,965	19,413	\$18,754	31.5%	16	6	\$163,784	\$3,211

Excludes students who did not submit a FAFSA and have unknown unmet need.

*Full Scenario retention rate is inherited from the lower unmet need band. Conservative Scenario retention rate is set to midway between the actual retention rate and one unmet need band lower. Each group will maintain their existing retention rate if higher than that of the lower unmet need band.

Filter Settings

HS GPA Cut Points: 3.4 - 3.7, 3.8 - 3.9, 4.0

Super ACT Cut Points: All

Pell Status Level: Max Pell & Pell

Tuition Residency: *, Mississippi Resident, Non Resident

Term Year: Fall 2015-2016, Fall 2016-2017, Fall 2017-2018 and 3 more





Thank you

Heliocampus

