





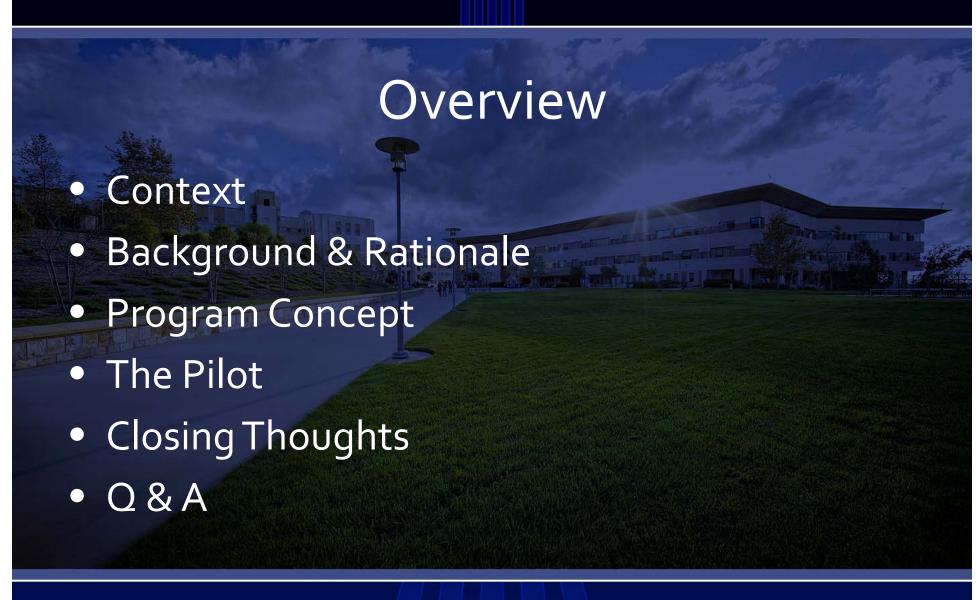
#### Sound familiar?

Stakeholder: "I need the data on my students."

Research Analyst: "What kind of data?"

Stakeholder: "The data. ALL the data!"







California State University
SAN MARCOS



#### California State University System

- Public state university system
- 23 campuses and 8 off-campus centers
- Graduation Initiative 2025

#### California State University San Marcos

- Located in North San Diego County
- Est. 1990 (27 years old)
- Fall 2017 Enrollment: 13,893 stateside



# Institutional Planning & Analysis (IP&A)

- Centralized, reports to President's Chief of Staff
- Evolving from a compliance shop to a true decision support function
- With IITS, leads campus Decision Support Group and Data Governance efforts

# Insight & Analytics function

- Data visualization & selfservice reporting (Tableau)
- Institutional surveys
- Program review data
- Analytic studies
- Student success initiatives (e.g., GI 2025)



# Office of Undergraduate Studies (OUGS)

- Est. 2014
- Academic success "hub"
  - Gl 2025
  - Learning centers
  - High-impact Practices
- Highly collaborative, crossdivisional partnerships
- Data-informed

#### **Student Success Analyst**

- Full-time position est. 2017
- Student success initiatives (e.g., GI 2025)
- Assessment of learning centers and other OUGS programming
- Data-related professional development



#### **OUGS Strategic Plan**

"Integrate and deepen the analytic capacity to make data-driven decisions that support undergraduate students' academic success"

**"Share and interpret data** with undergraduate support programs to determine necessary additional academic support for undergraduate students."

"Share analytics with relevant campus units to promote cross-unit and – division program development in support of students' academic success."

"Develop research questions, the answers to which will help CSUSM close academic achievement gaps."



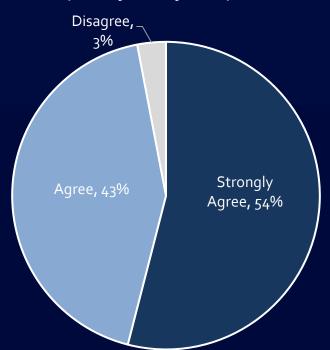
# May 12<sup>th</sup> Student Success Network Meeting: *Using Data to Support Student Learning & Success*

- Build relationships with colleagues from across the CSU who are involved in campus-level efforts to strengthen data use to improve student success and equity.
- Identify and share current successes and challenges related to data use to support student success and equity on their campuses.
- Reflect as campus teams and apply lessons to individual campus needs and contexts.

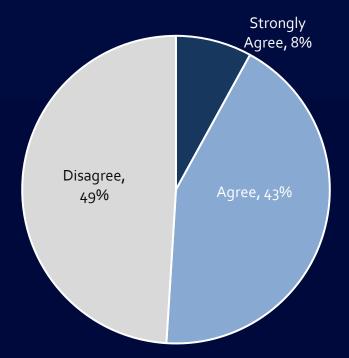




Efforts to improve use of data in support of student success are a high priority on my campus.



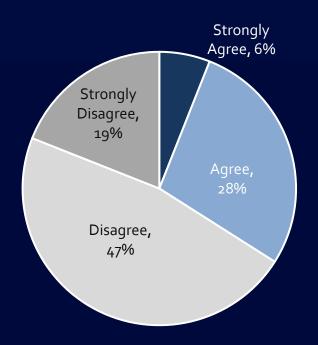
My campus has a strong culture of inquiry. We regularly use data to inform key decisions at all levels.







The IR office on my campus has adequate capacity to respond to requests for data/analysis in a timely manner.



Biggest roadblock to more consistent use of data?

"Our IR office needs more support so we can get ahead and be proactive instead of reactive."

"Data are mostly inaccessible or hidden behind interfaces that are very user unfriendly."





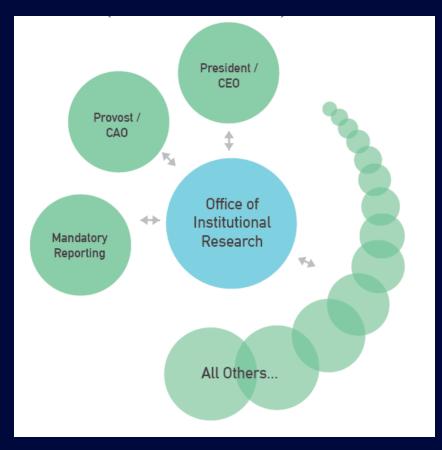
# AIR Statement of Aspirational Practice for Institutional Research

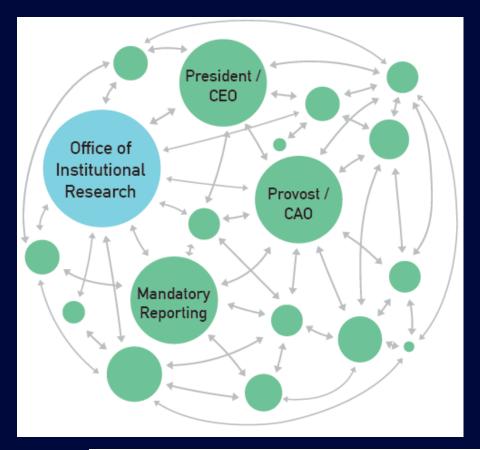
"Data are everywhere across institutions of higher education, and access to analytical tools and reporting software means that a wide array of higher education employees can be actively involved in converting data into decision-support information. As such, models of decision making are changing, which opens new opportunities for wise use of data resources."





#### Institutional Research as Service Provider vs. Federated Network









# AIR Statement of Aspirational Practice for Institutional Research

"The function of institutional research connotes the institution-wide use of data and analytics, and not just the products of an office of institutional research. Building the function requires coaching and professional development of employees across the institution in a purposeful and intentional process that increases capacity for data-informed decisions to permeate the institution."





A New Vision for Institutional Research (Swing & Ross, 2016)

"The task is not to create a thousand skilled staff members who could work in an office of institutional research, but rather to develop an appropriate level of data literacy for decision-support roles that exist already."





Data Literacy: The ability to collect, manage, evaluate, and apply data in a critical manner.





Ideal participants are data users, not analysts

Program Directors & Coordinators	Deans, Department Chairs, & Faculty	Advisors & Student Services Staff
<ul> <li>Must demonstrate effectiveness of program to ensure continued funding</li> <li>May have a practical understanding of program evaluation, but not necessarily research or data concepts</li> </ul>	<ul> <li>Responsible for departmental operations, program review, assessment</li> <li>Likely trained in discipline-specific research, but not necessarily academic assessment or evaluation</li> </ul>	<ul> <li>Increasingly use data to understand the student experience and inform practice</li> <li>Often limited formal education in academic assessment, research, or data concepts</li> </ul>

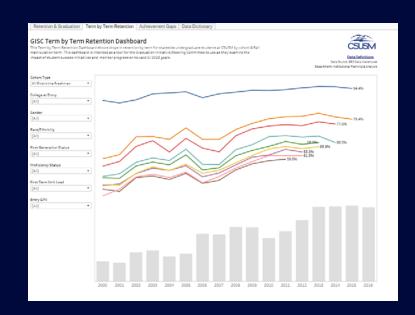


- Goals of the Dαta Fellows Program
  - Cultivate a data culture
  - Develop foundational data literacy skills
  - Increase assessment capacity
  - Create networks of data advocates
  - Use of common language
  - Engage in systems thinking
  - Shared responsibility for student success



#### Topics

- Introduction & Overview
- Scientific Method
- Library Resources
- Data Types
- Surveys & Self-report Data
- Basic Statistics
- Data Storytelling
- Ethics & Compliance
- Data in Higher Education
- Existing Data Resources at CSUSM
- CSUSM's Critical Questions





- Completed in one semester
- Professional development, not just another meeting
- Cohort model





# Logistics

- Sponsors
  - IR Leadership
  - Academic Affairs Leadership
- Partners
  - Library
  - Assessment
  - Information Technology
  - Student Affairs





# Logistics

- Program Delivery & Curriculum
  - Frequency of meetings
  - Attendance expectations
  - Moodle course
  - Interactive whenever possible
  - No prerequisites
  - No homework
- Funding
  - \$530 for food and materials
  - Significant time commitment





- Reception
- Delivery
- Participants



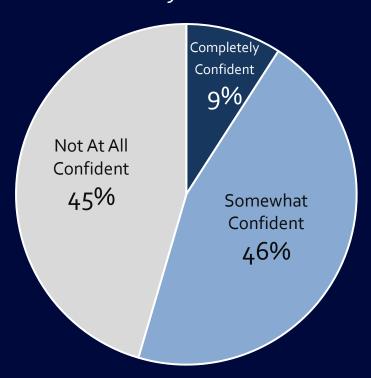


- Participants
  - Dean & Associate Dean, Undergraduate Studies
  - 4 Learning Center Directors (1 Faculty)
  - Student Success Facilitator
  - Budget Analyst
  - Grants & Contracts Analyst
  - Student Affairs Assessment Director
  - Housing Director
  - Assistant Director for Proficiency Services



Initial assessment

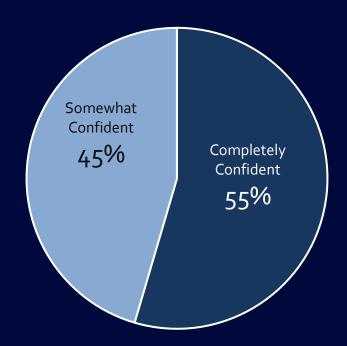
Find and access relevant data through IP&A, IITS, or other university resources



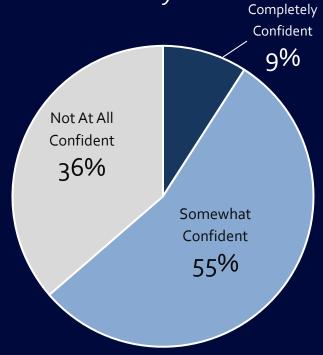


#### Initial assessment

Interpret charts, graphs, or tables of data



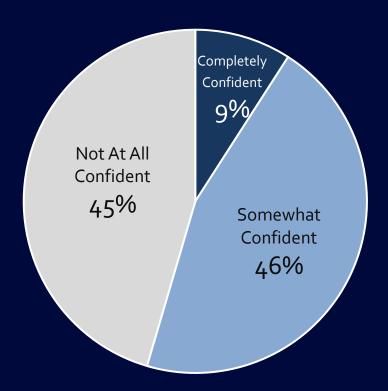
Interpret the results of statistical analyses





Initial assessment

Evaluate the quality or legitimacy of data and reports





• Initial assessment – we also asked about...

#### Confidence in their ability to:

- Develop measurable goals, objectives, or outcomes
- Generate a research question or hypothesis
- Present or explain data and reports to others
- Develop and administer a survey
- Understand laws, policies, or rules that may apply
- Use Library resources to find relevant information

#### Prior experience:

- Viewed official reports or dashboards available on university websites
- Run PeopleSoft queries
- Used data to assess the impact or effectiveness of a program
- Collected or entered data in PeopleSoft, Excel spreadsheets, or other system
- Made a decision, took action, or changed a practice because of data
- Reported data for accreditation, compliance, or accountability purposes
- + Open-ended items



- How's it going?
  - Everyone at different levels of data literacy
  - -Making the lessons relevant and actionable
  - -We're learning, too
  - -It takes <u>time</u>



# Closing Thoughts

- Realistic expectations data culture wasn't built in a day (or even a semester)
- One size doesn't fit all what makes sense for your institution?
  - IR on committees, task forces
  - IR Faculty Fellows / Data Champions
  - Analysts in other units
  - Hands-on workshops
  - Videos and other self-service resources
  - Adding data training to onboarding programs

