Implementing the Student Learning Progress Model at CSUMB: Findings and Lessons Learned

Dr. V.O. Chukwuemeka, Director
Mr. Sathyan Sundaram, Research Analyst
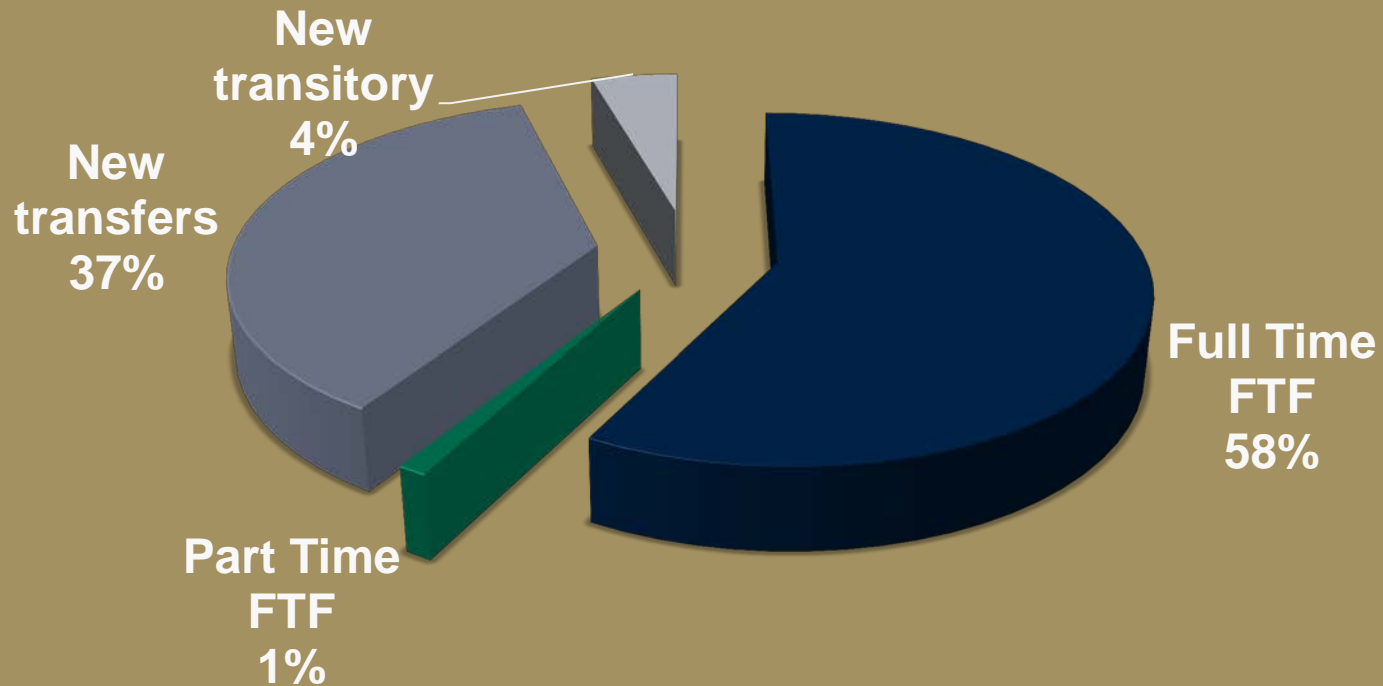
Institutional Assessment and Research
California State University, Monterey Bay

CALIFORNIA STATE UNIVERSITY
Monterey Bay

The Student Learning Progress Model

❖ Why did we do it?

❖ What did we expect to get out of it?

❖ How was SLPM implemented?

❖ What were the challenges?

❖ What did we learn?

❖ How can it be applied?

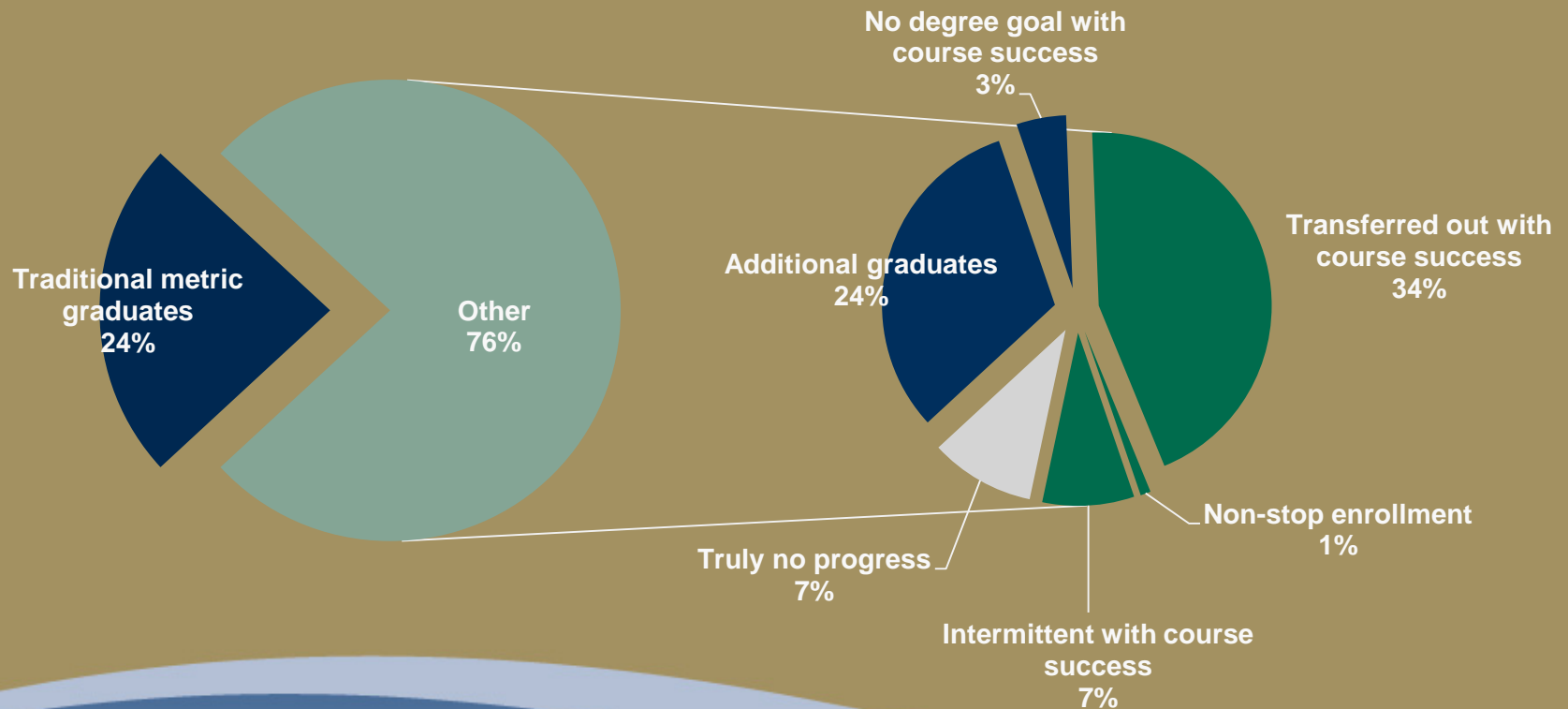CALIFORNIA STATE UNIVERSITY
Monterey Bay

Why the SLPM is needed

❖ IPEDS does not track all students served

- New transitory 4%
- New transfers 37%
- Full Time FTF 58%
- Part Time FTF 1%

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Why the SLPM is needed

❖ IPEDS does not capture all success

Traditional metric graduates 24%

Other 76%

No degree goal with course success 3%

Additional graduates 24%

Transferred out with course success 34%

Non-stop enrollment 1%

Intermittent with course success 7%

Truly no progress 7%

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Expectations

❖ Better understand our students

❖ Understand their varied paths to success

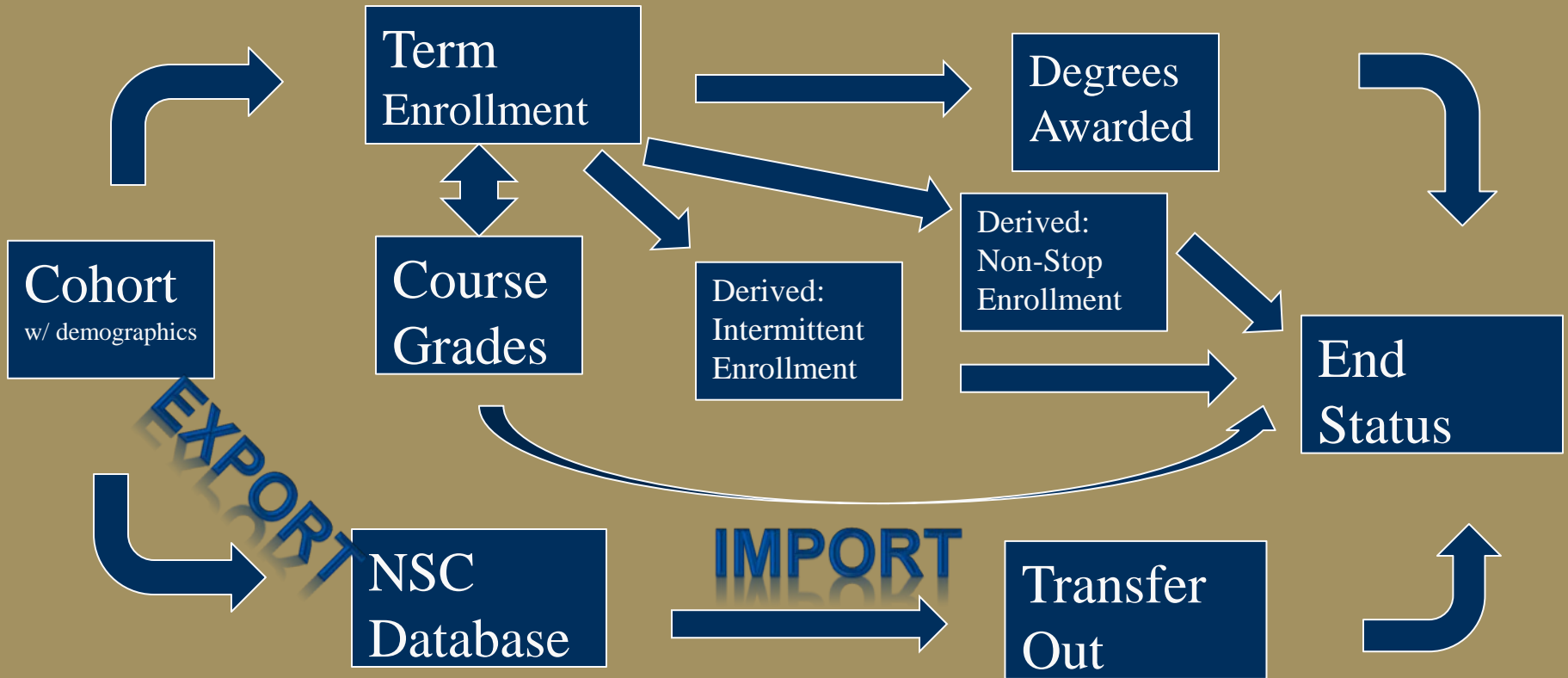❖ Uncover student learning progress ignored by the paradigmatic metric

Implementing SLPM

❖ Determined decision rules and what cohorts would be used

❖ Designed the infrastructure to collect data on
  ➢ Student demographics
  ➢ Course grades
  ➢ Degrees
  ➢ Transfer out

❖ Designed the logic to create reports

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Basic Data Flow

Challenges Encountered
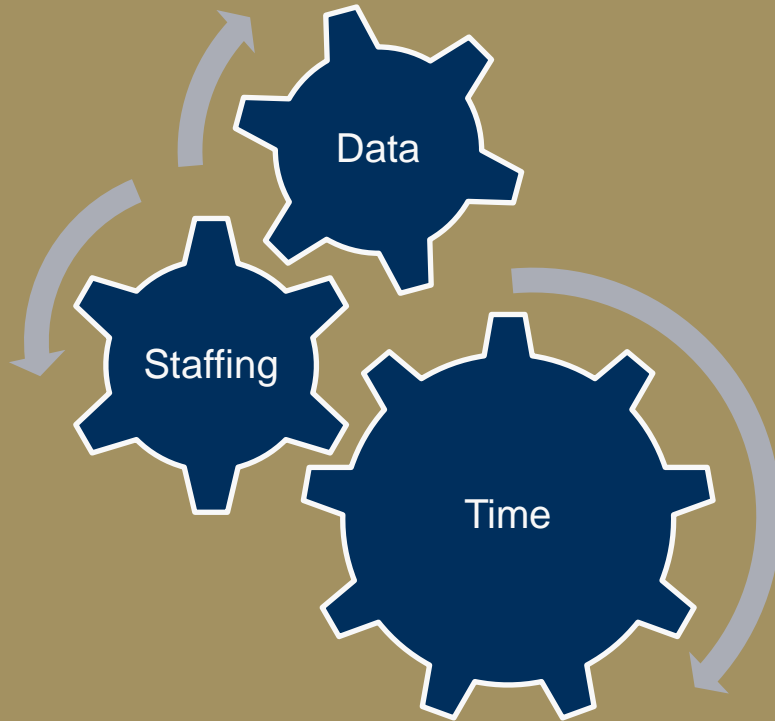
❖ Data integration between legacy and current SIS

❖ Collaboration to build the necessary data structure

❖ Model still not fully implemented so much of the process remains manual

❖ Staffing

❖ Time

Course Grade Census

❖ All data were in CMS

❖ But grades are subject to change

❖ For actionable analysis, data need to be frozen

Query against several "live" tables	Save results to a table with selectable run controls	Copy to local database for use with project tables

California State University Monterey Bay

Transfer Out Students

❖ Institutional data can determine that students are no longer here

❖ But we don't know if they are enrolled elsewhere
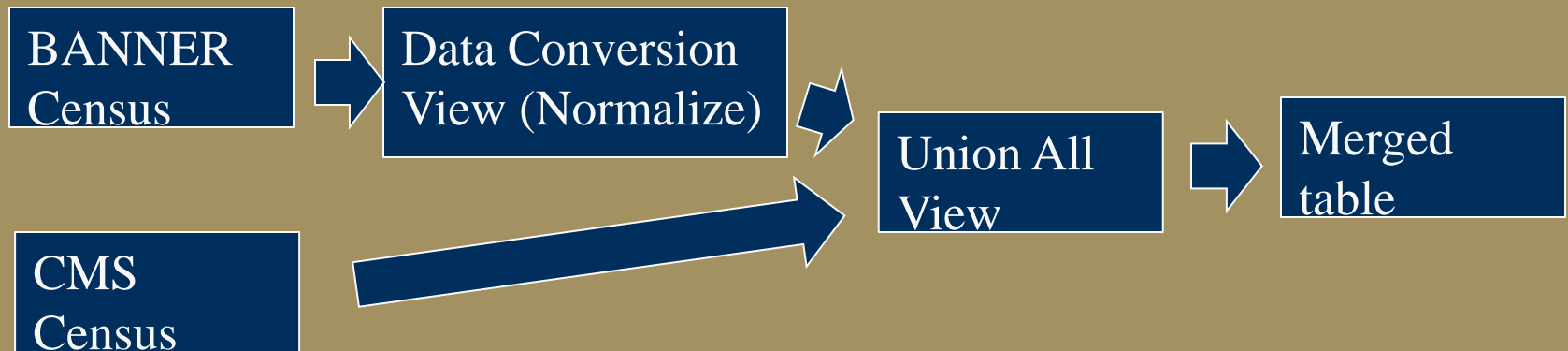
❖ For this, we used the National Student Clearinghouse

Create an extract from the cohort

Send file to NSC

Import NSC returned file (.csv) to local database & process

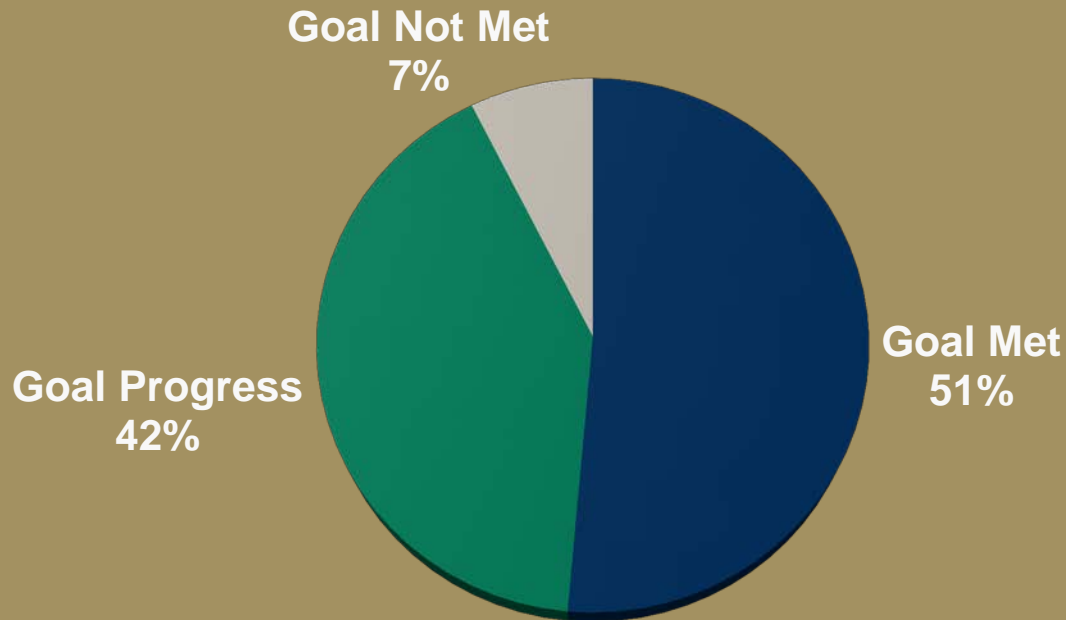CALIFORNIA STATE UNIVERSITY
Monterey Bay

Merge Degree Censuses

❖ CSUMB switched from BANNER to CMS in 2008

❖ Historical census data were not migrated

❖ Some data formats were not consistent between the DBs

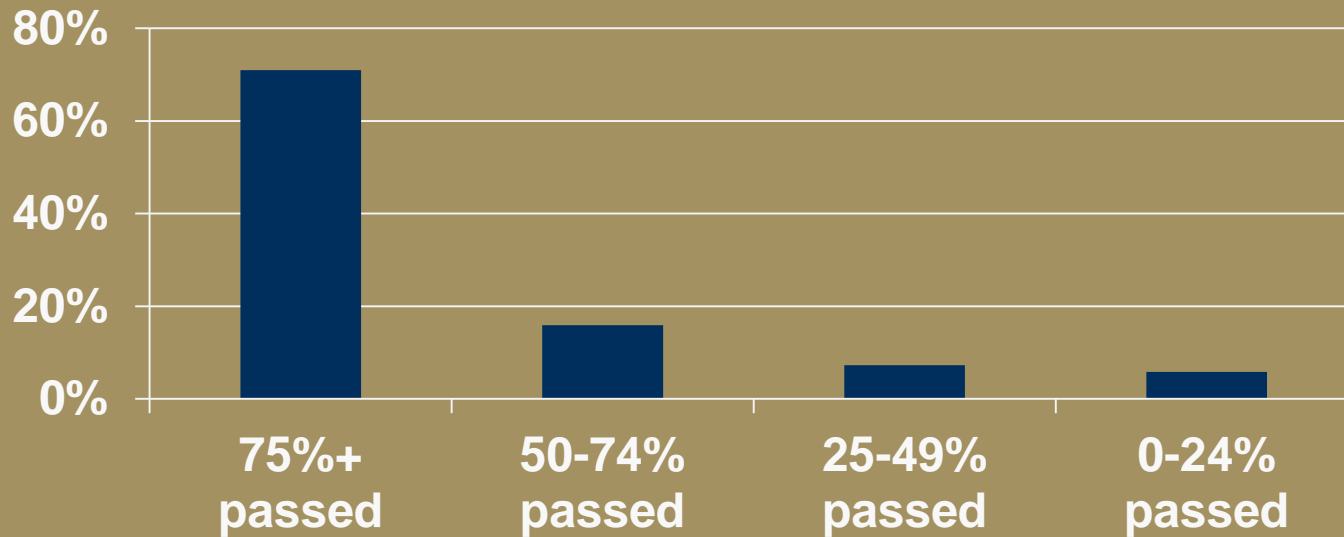BANNER Census → Data Conversion View (Normalize) → Union All View → Merged table

CMS Census → Union All View

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Major Findings

Under the SLPM:

❖A high proportion of CSUMB students were successful

Goal Not Met
7%

Goal Met
51%

Goal Progress
42%

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Major Findings

❖ 71% passed 75%+ of their courses

❖ 87% passed at least half their courses

Course success

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Major Findings

❖ By year 2, over 80% of courses successfully completed


CALIFORNIA STATE UNIVERSITY
Monterey Bay
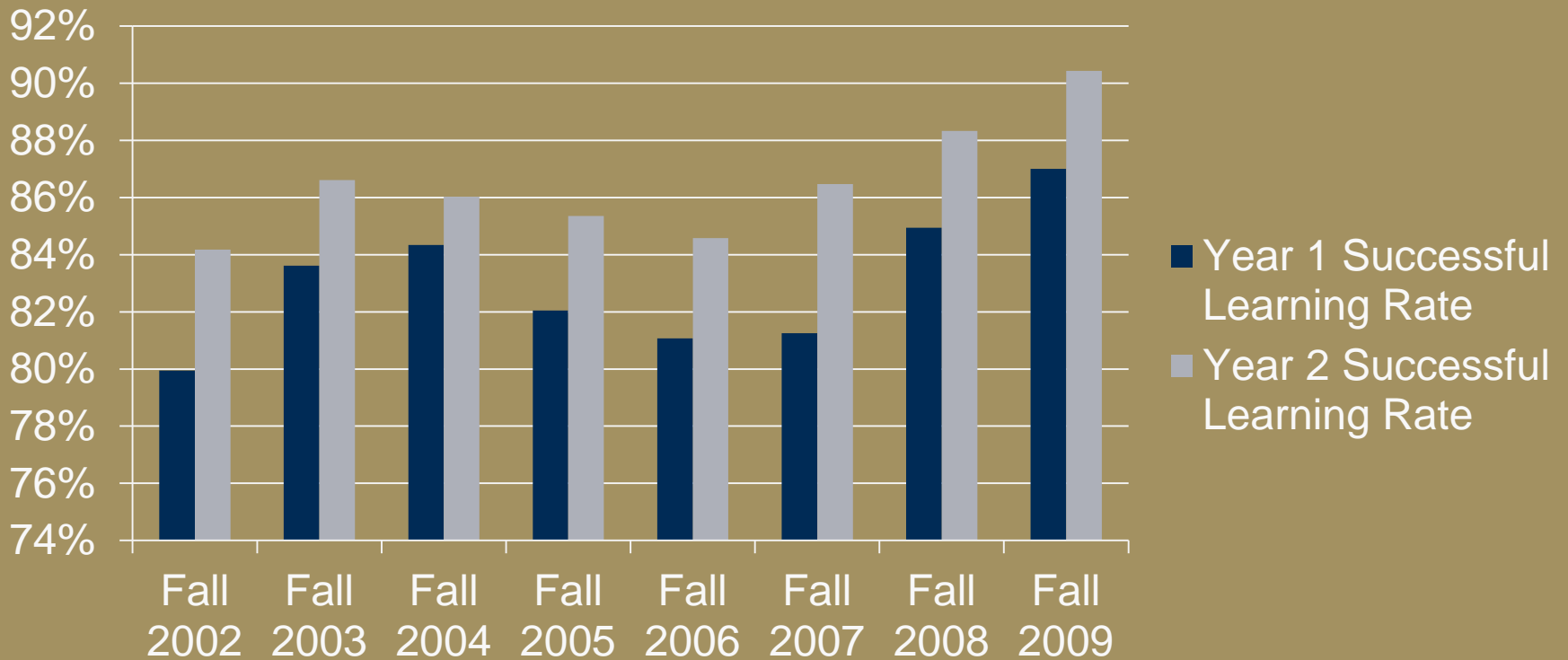
Applications

❖ With well-designed infrastructure, the study findings can be broken down by demographic categories

❖ CSUMB explored Admit Type and URM

❖ Categorically answer IR questions about certain demographics

Applications

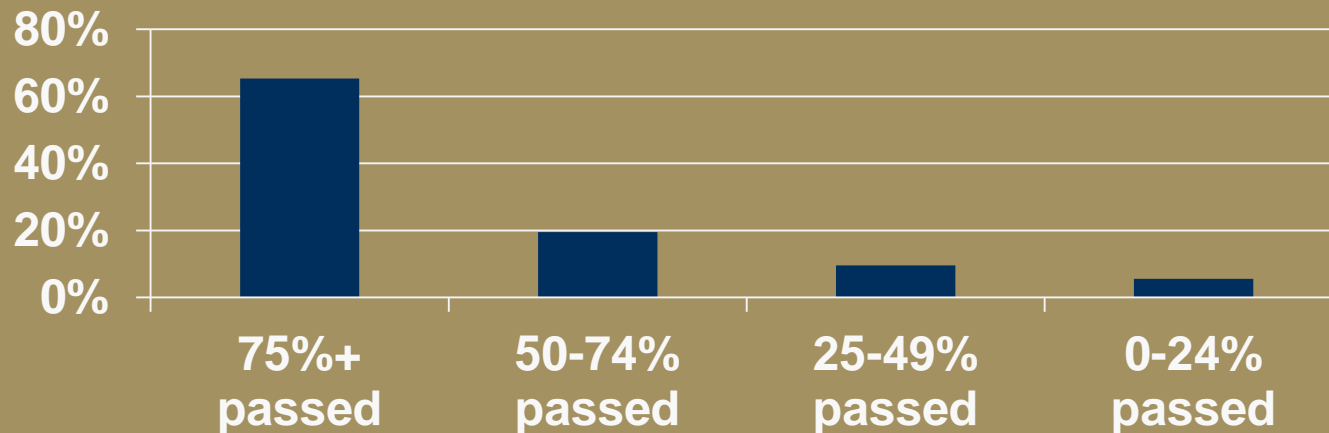❖ CSUMB found similar success with the Under-Represented Minority students

Goal Not Met
6%

Goal Progress
46%

Goal Met
48%

CALIFORNIA STATE UNIVERSITY
Monterey Bay
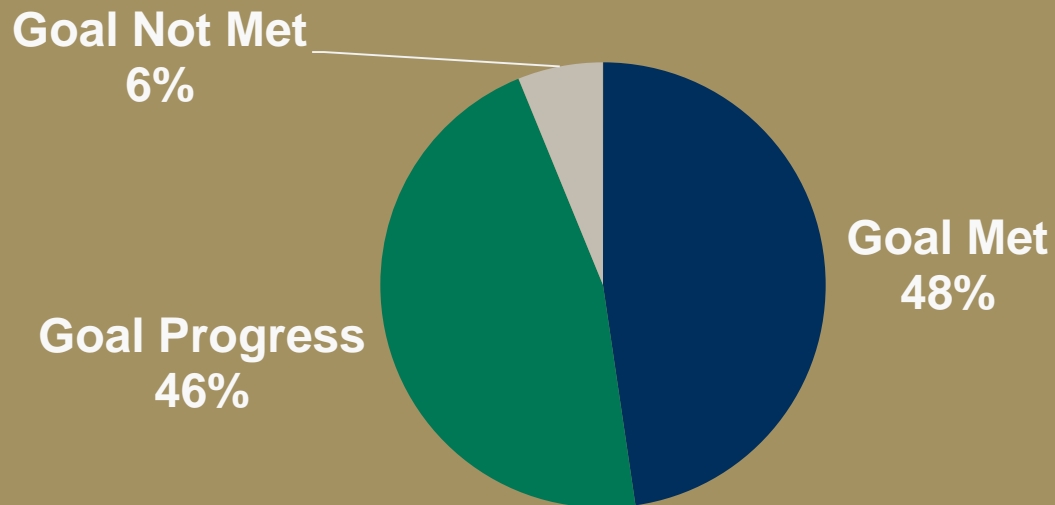
Applications

❖ CSUMB found similar success with the Under-Represented Minority students

Course success

CALIFORNIA STATE UNIVERSITY
Monterey Bay

Conclusions

❖ Two fifths of students and two thirds of success are missed by the IPEDS metric

❖ A high proportion of CSUMB students were determined to be successful under the SLPM

❖ Successful implementation of this model requires well-designed infrastructure, ideally an optimized "data mart"

Exercises

❖ Institutional Readiness to Implement the SLPM
❖ SLPM Decision Rules

Contact Us

Veronica Chukwuemeka

Director of Institutional Assessment and Research

Phone (831) 582-4664

Email vchukwuemeka@csumb.edu

Website: http://iar.csumb.edu/iar-home

Sathyan Sundaram

Institutional Assessment & Research Analyst

Phone (831) 582-3519

Email ssundaram@csumb.edu

Website: http://iar.csumb.edu/iar-home

CALIFORNIA STATE UNIVERSITY
Monterey Bay