

The slide features decorative geometric patterns in the corners. The top-left and bottom-left corners have overlapping squares and diamonds in teal, orange, and blue. The top-right corner has a cluster of orange and blue squares and diamonds. The bottom-right corner has a blue square and an orange diamond.

# Examining Institutional Financial Viability and Program Review for an Uncertain Future

WICHE Academic Partnerships Joint Meeting  
Reno, NV | April 25, 2025

## About NCHEMS

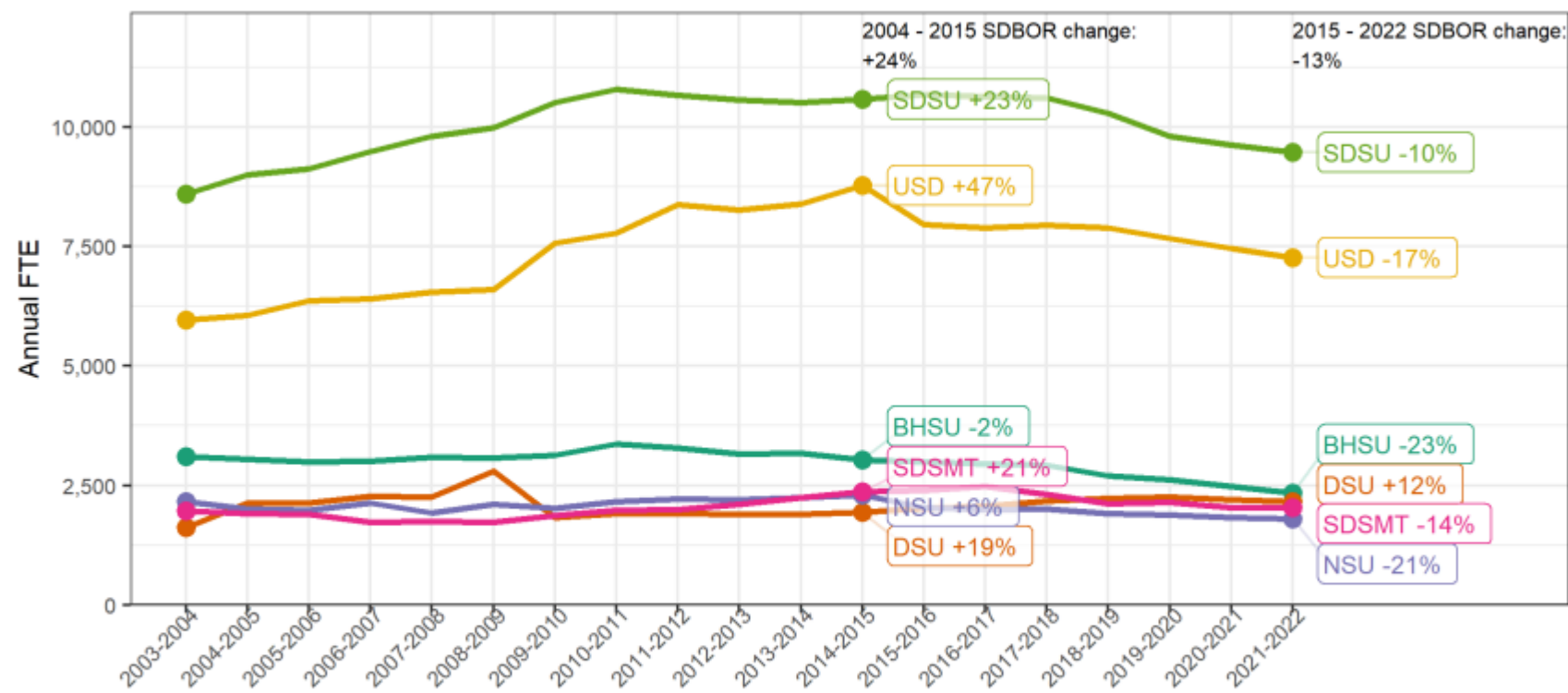


We envision a future in which postsecondary education expands opportunities for all, strengthens communities, and advances the public good.



The National Center for Higher Education Management Systems (NCHEMS) partners with institution, system, government, and community leaders to effectively use evidence to improve strategic decision-making in postsecondary education.

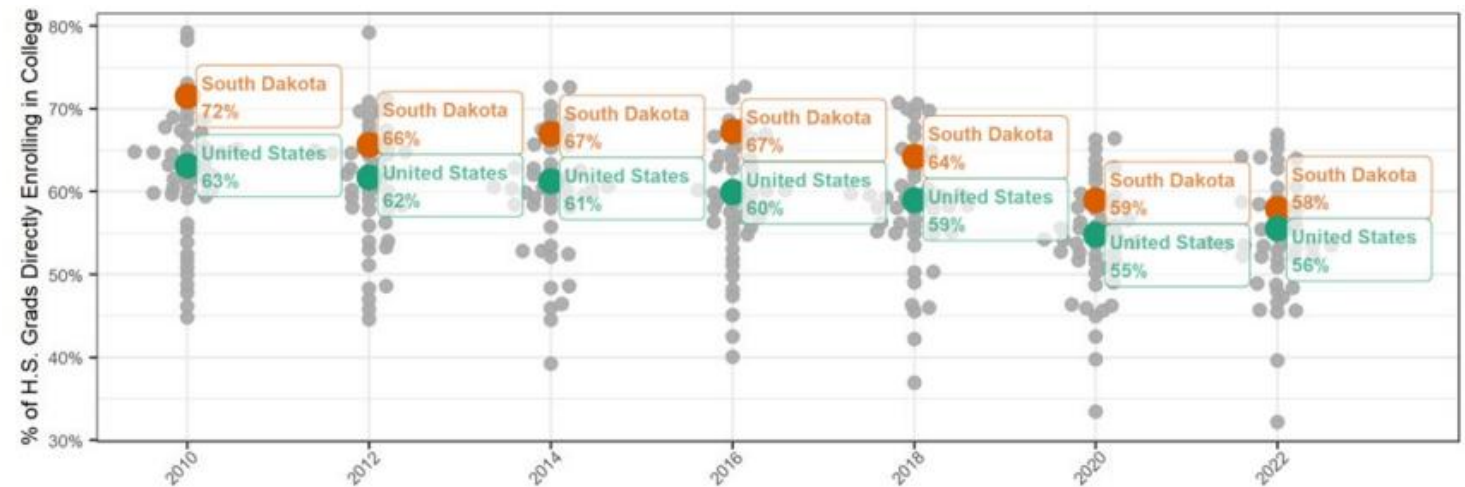
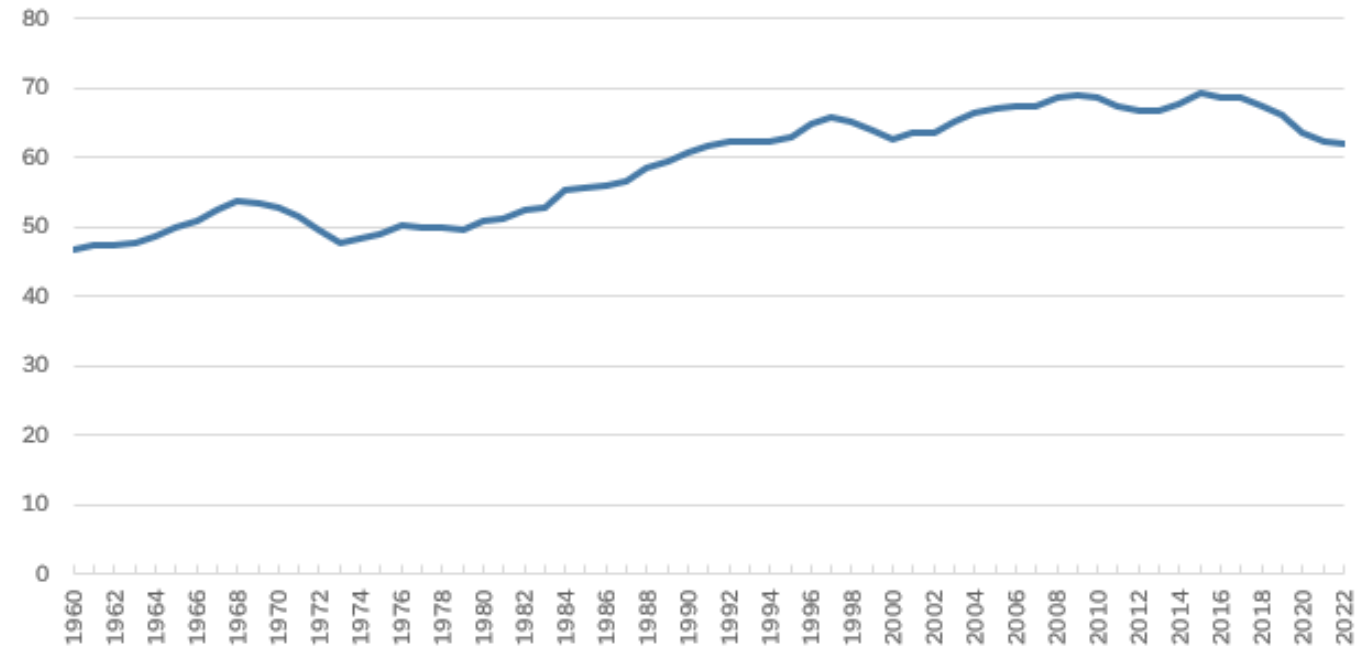
Nearly all SDBOR institutions have experienced significant enrollment declines since 2015.



Source: NCES IPEDS 12-Month Enrollment Survey, files efiaYYYY.

# College-going rates have slumped, nationally and in South Dakota

- First serious sustained decline since the late 60s

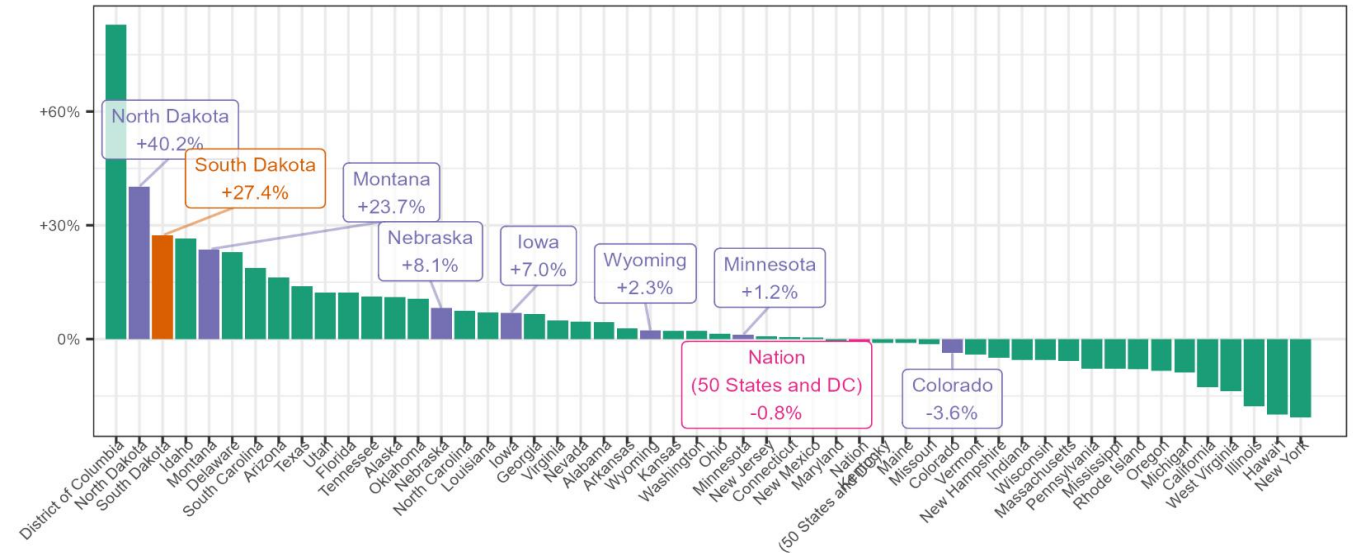


Sources: WICHE Knocking at the College Door: Projections of High School Graduates; NCES IPEDS Fall Residency and Migration Files efYYYYc. Note: Each dot represents one state.

# Higher education is facing a generational change in enrollment demand.

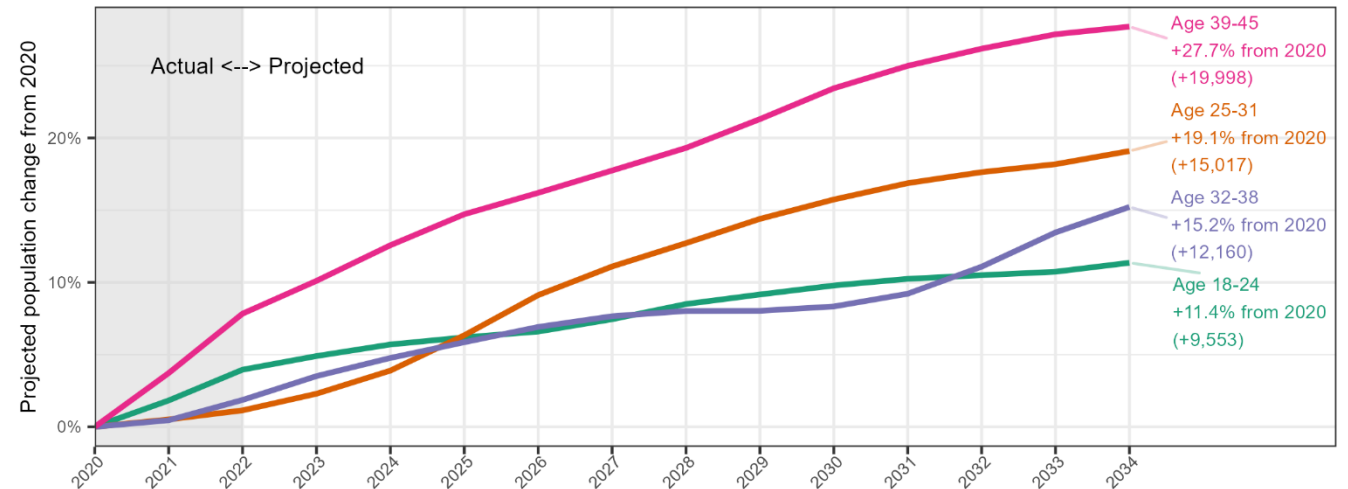
- The pool of traditionally aged students is shrinking.
- SD's pipeline remains relatively more robust.
- Growth among prospective adult populations

Projected 2019-20 to 2033-34 Percentage Change in High School Graduates, by State



Source: Western Interstate Commission for Higher Education, Knocking at the College Door: Projections of High School Graduates, 2024.  
<https://www.wiche.edu/knocking>

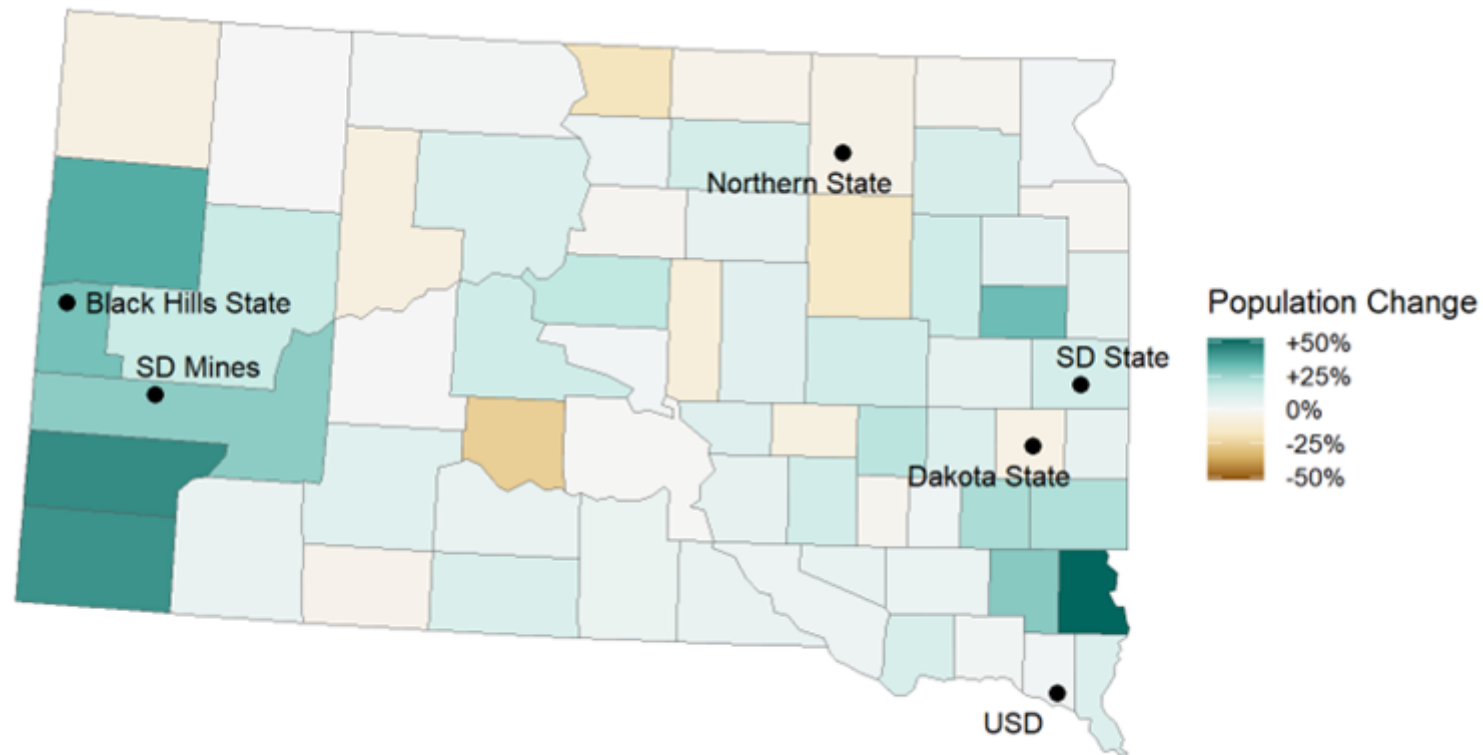
Projected 2020-2034 Change in South Dakota Population, Selected Age Groups



Source: JobsEQ.

# Population changes are uneven across the state; some SDBOR institutions will face greater enrollment challenges than others

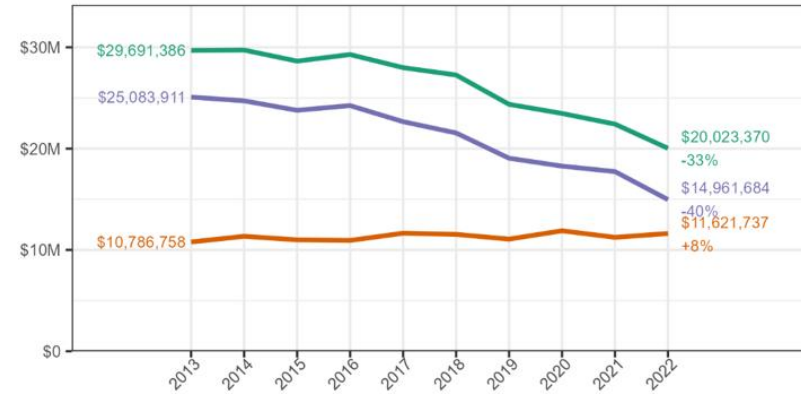
Projected 2020-2034 Percent Change in Population Ages 18-44



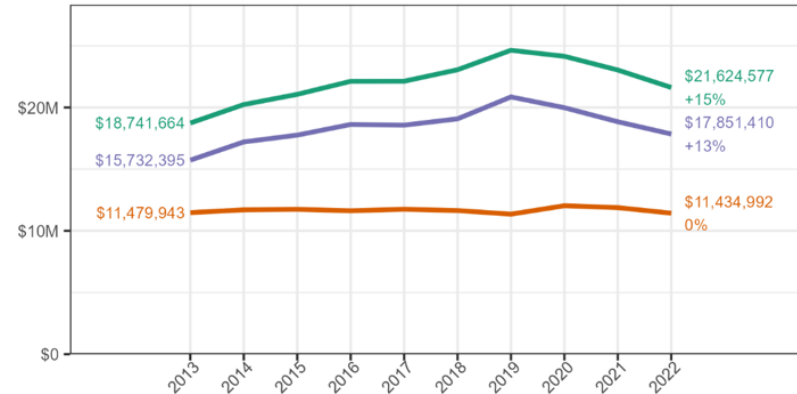
Source: Jobs EQ.

# Troubling financial trends: Tuition revenue declined across all SDBOR institutions while state appropriations were steady or increasing slightly

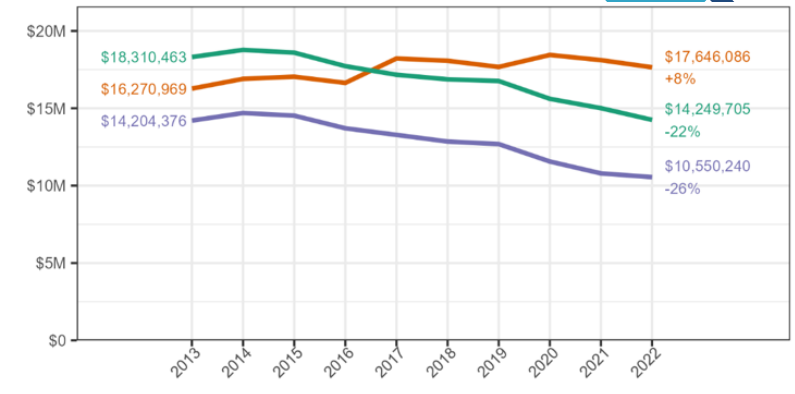
**Black Hills State University**



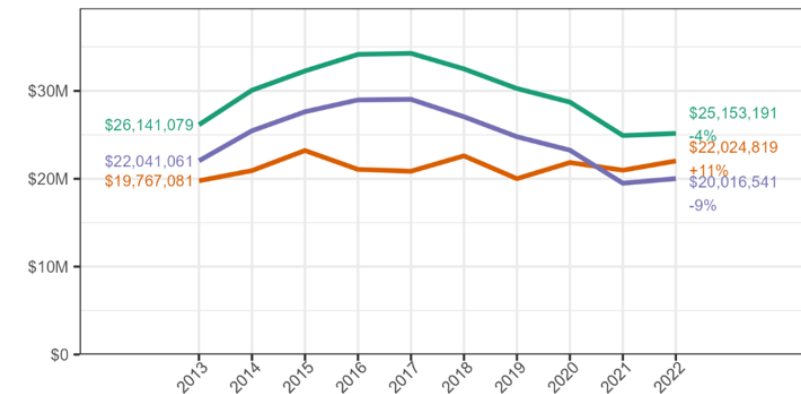
**Dakota State University**



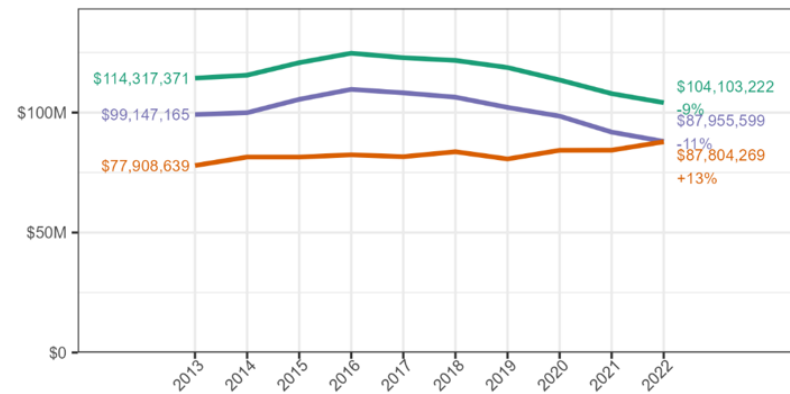
**Northern State University**



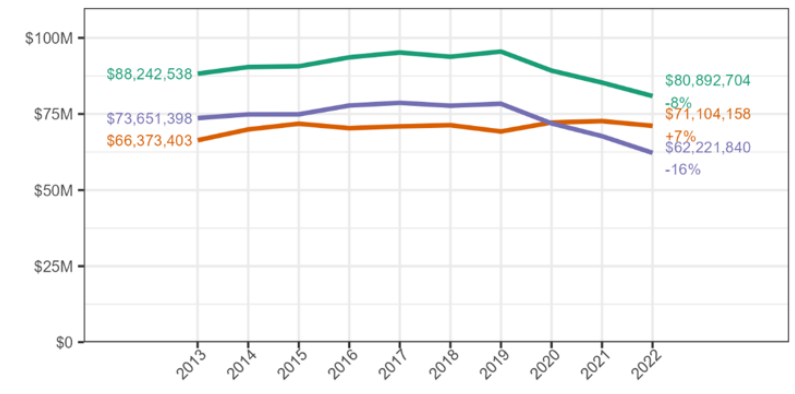
**South Dakota School of Mines & Technology**



**South Dakota State University**



**University of South Dakota**



- Gross Tuition and Fees
- Net Tuition and fees, after deducting discounts and allowances
- State Appropriations and nonoperating grants

Note: Inflation-adjusted to 2023 dollars using HECA.

Sources: Purple and orange lines from NCES IPEDS; green line from institutions' Annual Financial Reports

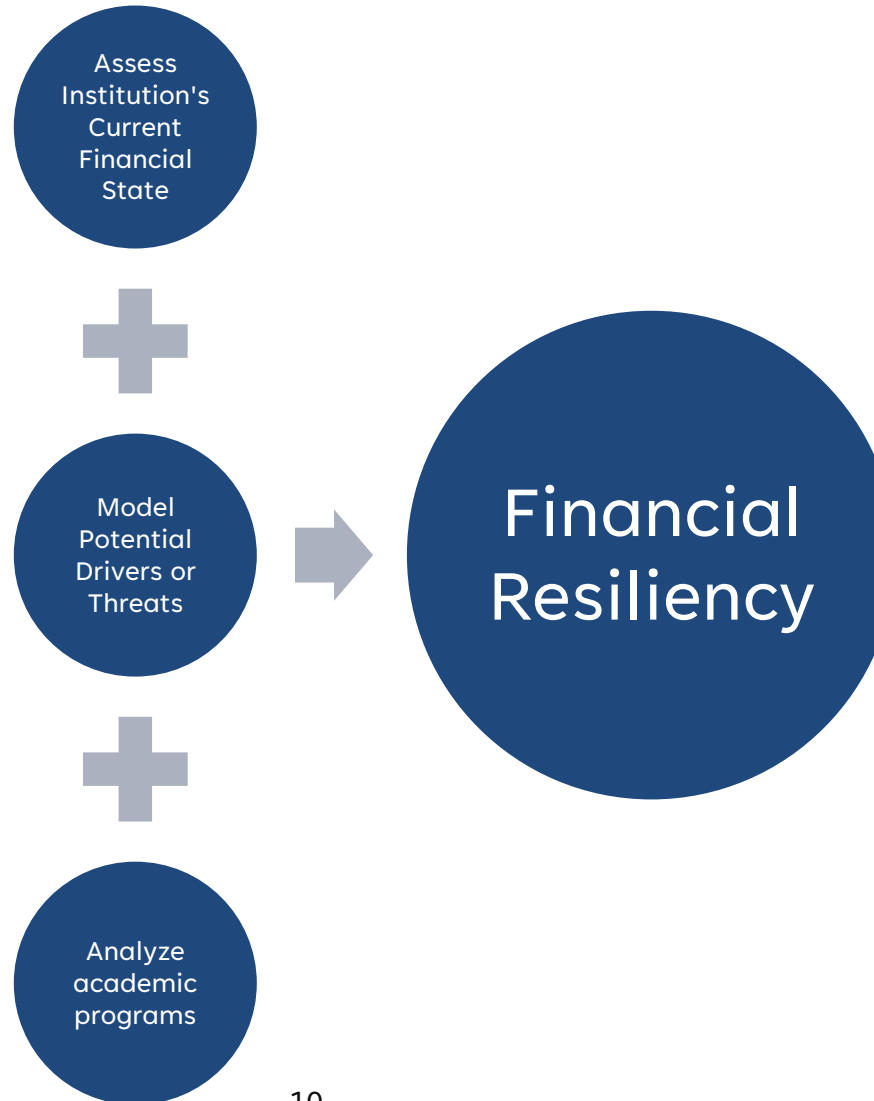
# Purpose of the Study

In light of these trends, SDBOR created a SOW:

- “develop and conduct data analytics to **stress test** the present and future financial health”
- “[consider] the current higher education landscape and trends pertinent to optimizing the **academic portfolios** of the six institutions”
- In order to “encourage critical policy discussions to implement programming strategies”

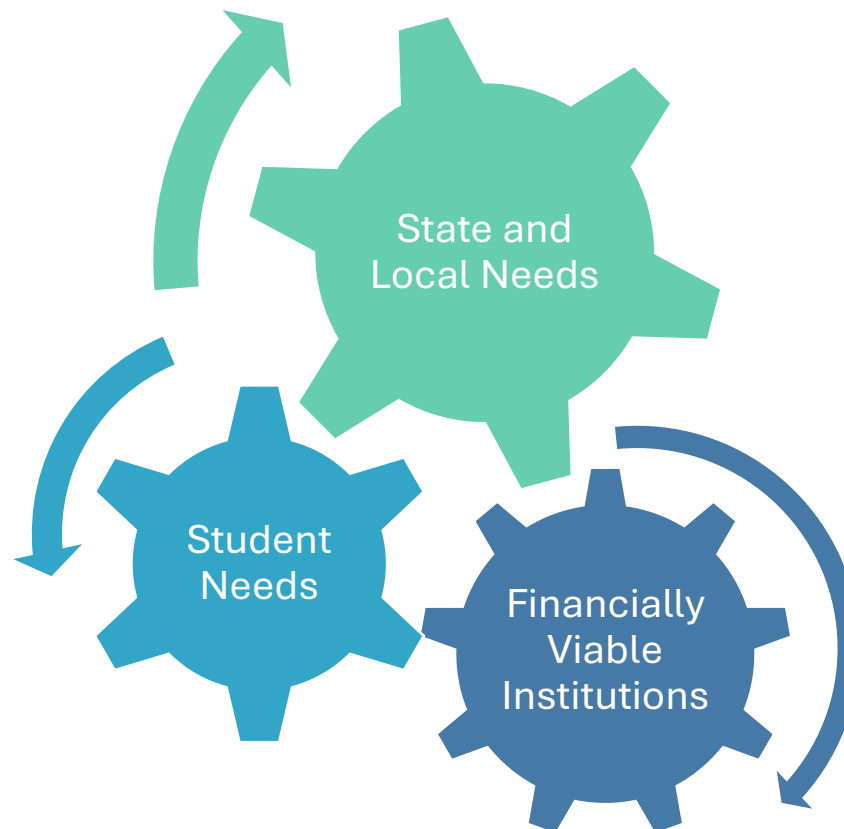


# Institutional Financial Health and Academic Programs

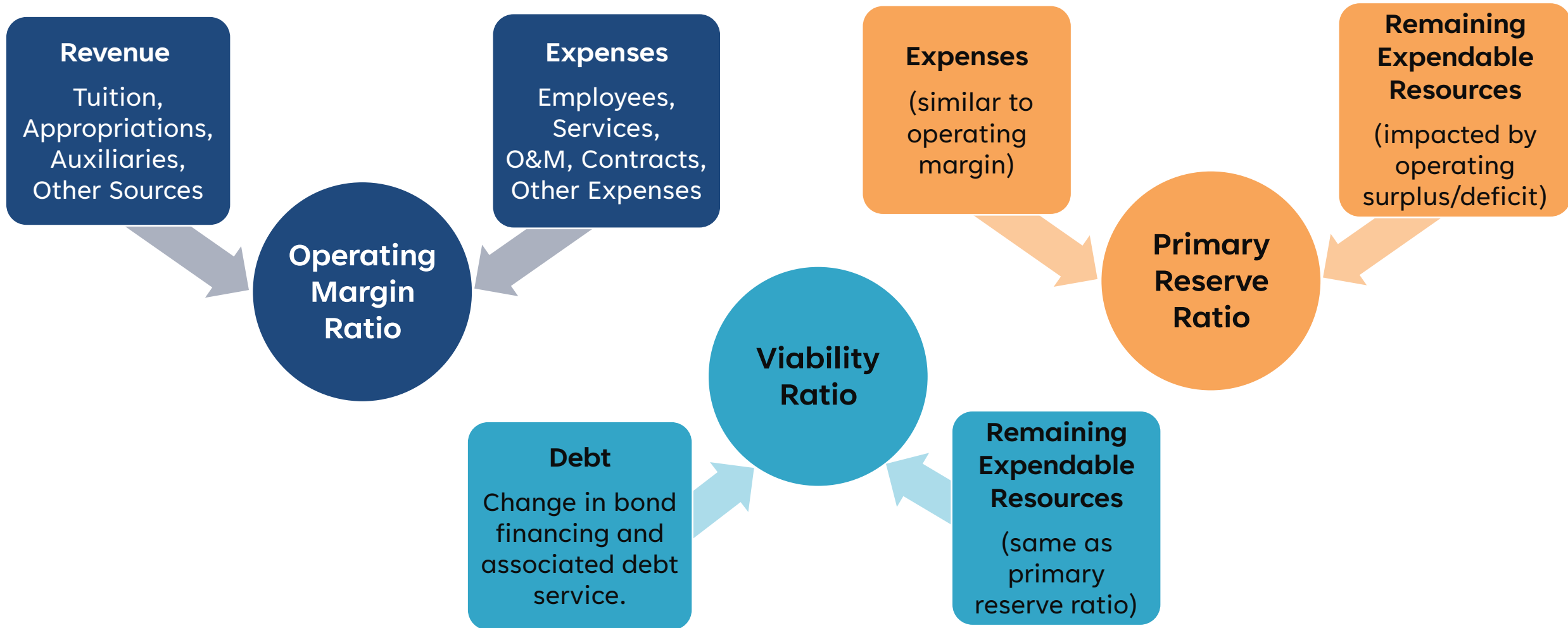


# Stress Test

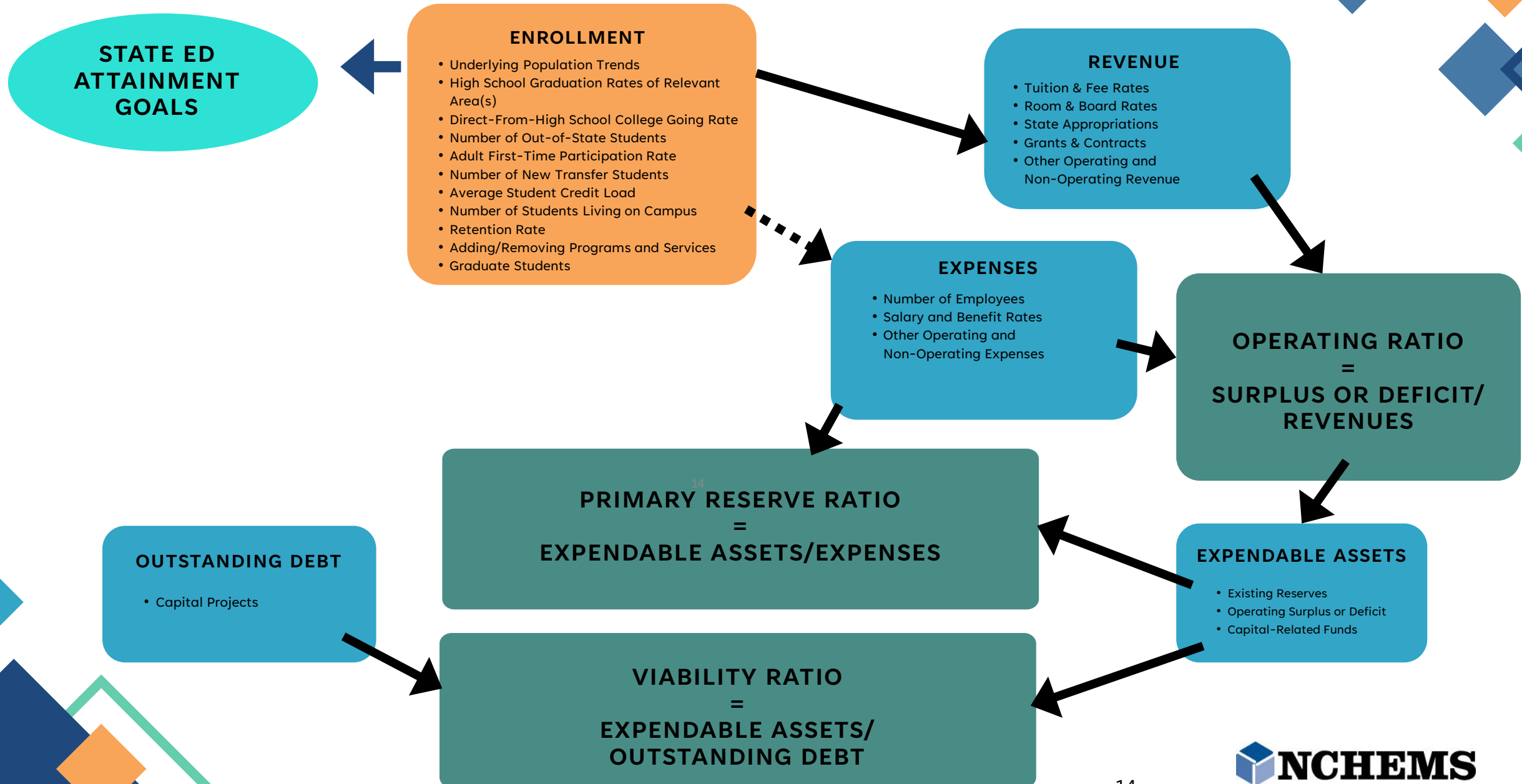
# Financial Viability in Context



# Financial Health Modeling (“Stress Test”)



# “Stress Test” Concept to Variables and Math

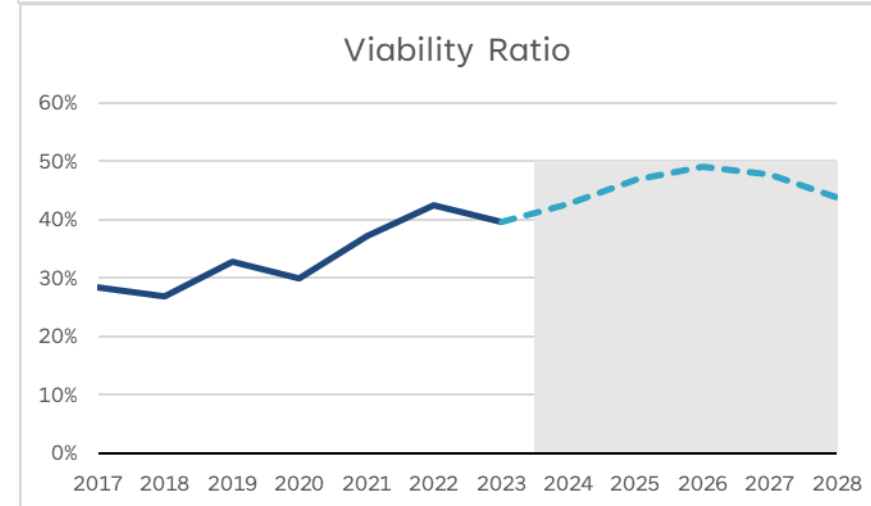
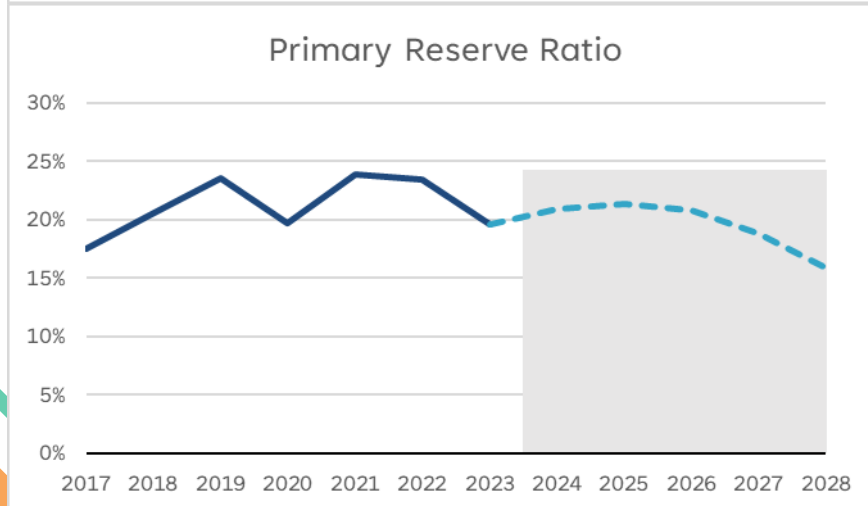
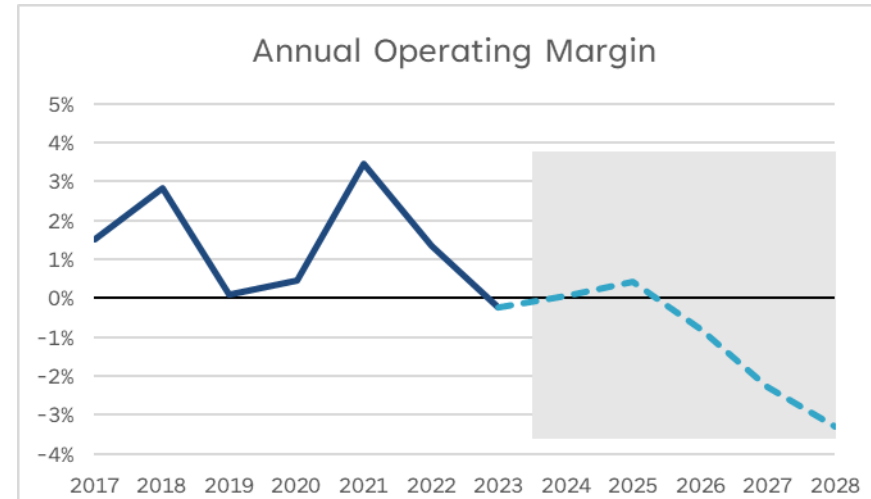
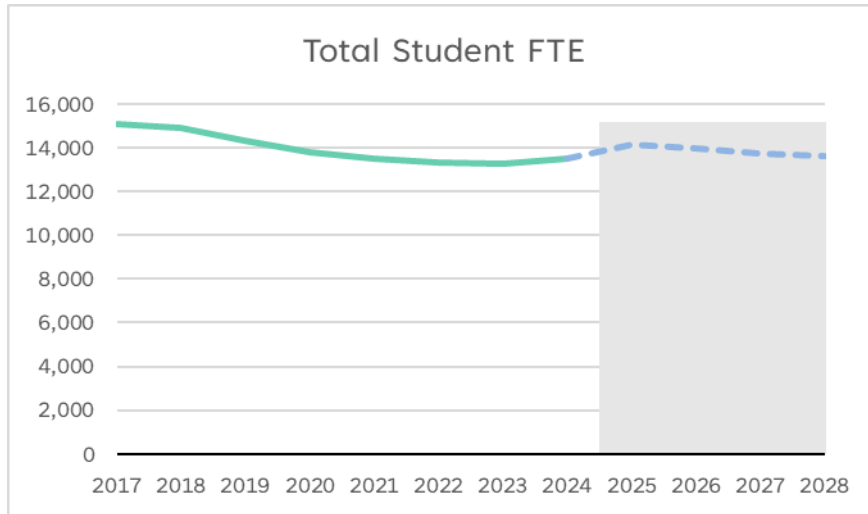




## Steps

1. Engage stakeholders broadly and specifically (CEOs, CFOs, and provosts) in the purpose and process.
2. Gather audited financial statements.
3. Supplement with specific finance data for each institution.
4. Analyze geographic origins of entering students at each institution.
5. Develop enrollment projections based on those origins.
6. Build reasonable scenarios.
7. Test and refine scenarios.

# Pheasant State University Baseline Scenario



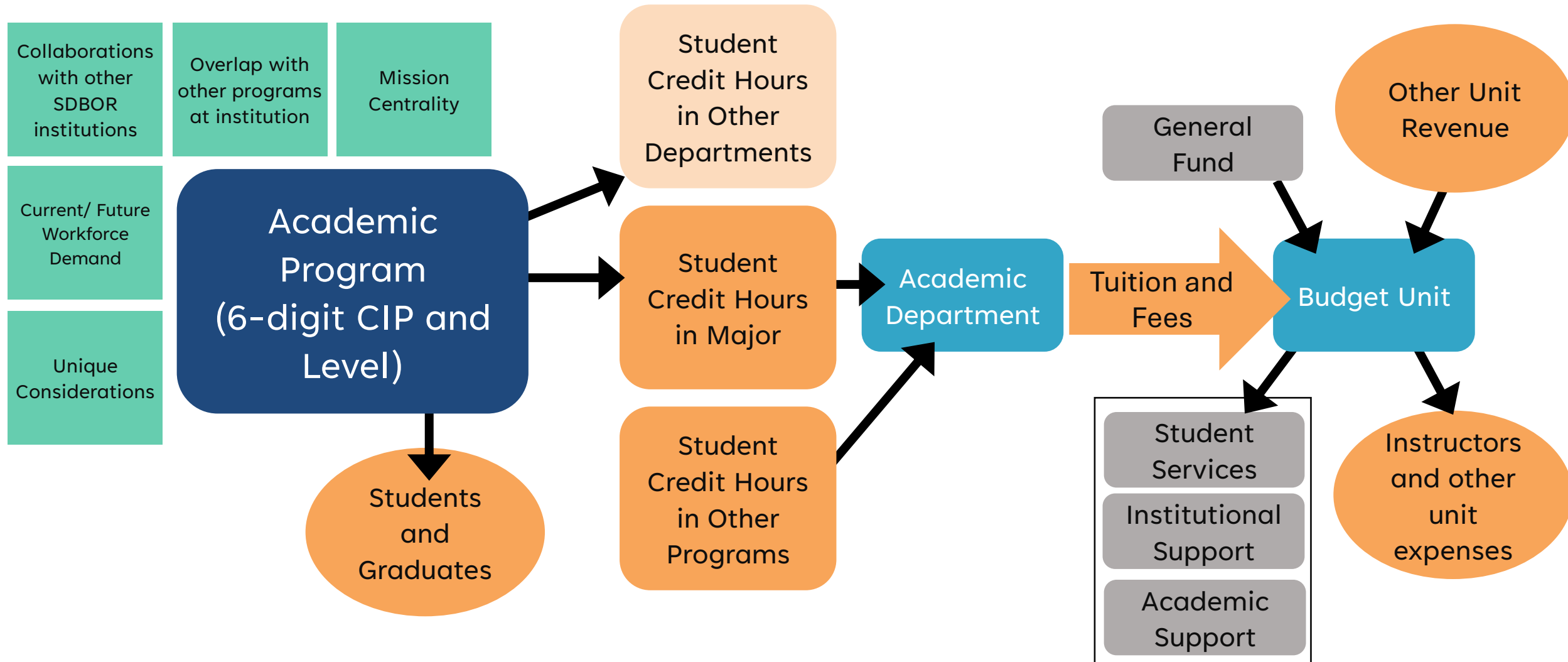


## Important Limitations

- No crystal ball on projections
- Faulty assumptions
- Interactions between variables are not modeled
- Strategic investments
- Consistency and comparability

# Academic Programs

# Translating from Programs to Departments, Revenues, and Costs



# Key Indicators of Program Performance

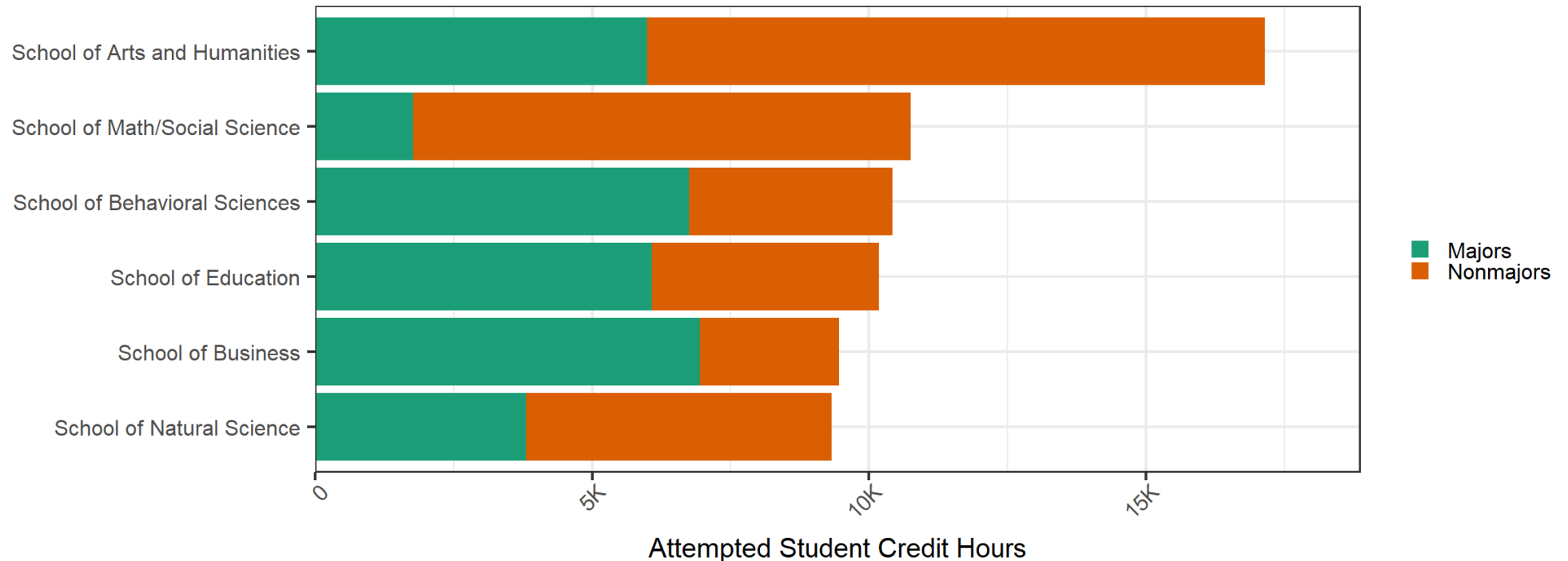
## Existing

- Program graduate and enrollment counts
- Program-generated tuition revenue vs. program costs

## Additions

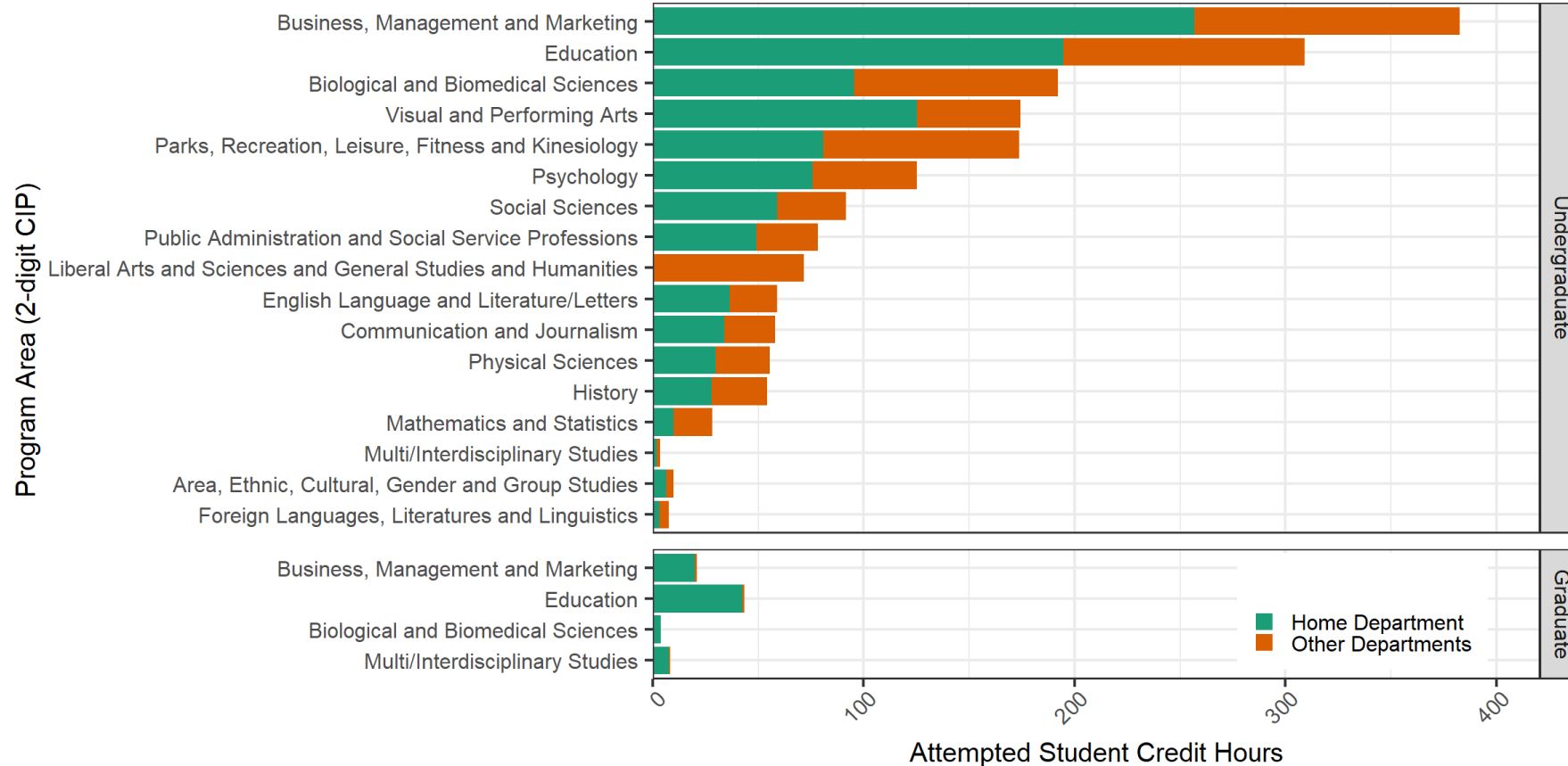
- SCH generation per teaching faculty FTE
- SCH production by department for majors & non-majors
- Class size by lower-division vs. upper-division, graduate
- Low-enrolled, “self-contained” programs

# Attempted Credit Hours by Department, Majors vs. Non-Majors



Source: SDBOR. Excludes sections with an instruction method of "tracking." Major/Nonmajor split is approximate as some students are enrolled in multiple programs. Excludes departments where course departments and faculty departments could not be mapped to one another.

# Attempted Credit Hours by Student Academic Program

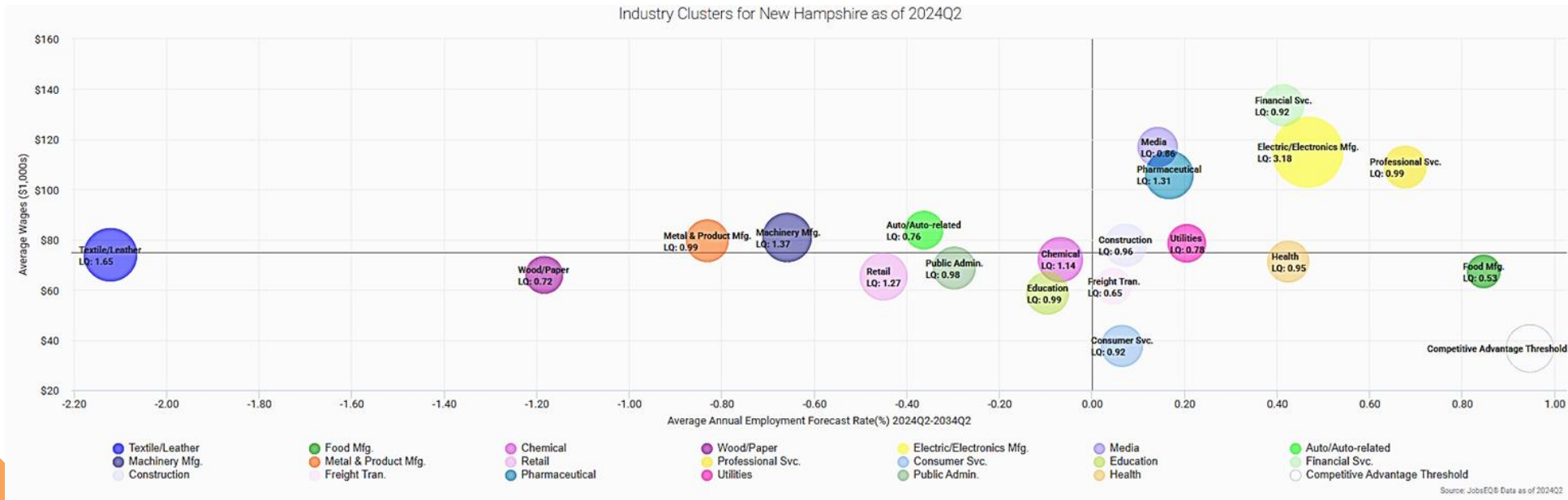


Source: SDBOR. Notes: "Home" departments for each program are determined by number of enrolled credit hours. Credits are counted once for each program; they are duplicated for students enrolled in more than one program.

# Key Questions About Program/Department Health

1. Does the program have a special purpose related to mission, specific workforce need, or state goal attainment?
2. How does the program/department link to other programs/departments?
3. Can the program's productivity be improved?
4. Are there other special factors worth considering?

# Workforce Demand



## Local Competitiveness

### Employment Growth Attributed to Regional Factors

Industry	
Wholesale Trade	5,704
Professional, Scientific, and Technical Services	4,927
Administrative and Support and Waste Management and Remediation Services	4,195
Unclassified	1,673
Manufacturing	1,436
Public Administration	867
Management of Companies and Enterprises	810
Arts, Entertainment, and Recreation	464





# Questions & Discussion