# Insights from PerformanceBased Funding in Public Higher Education 

Critical Questions in Designing Formulas

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# Insights from Performance-Based Funding in Public Higher Education 

Critical Questions in Designing Formulas

EAB

The best practices are
the ones that work for you. ${ }^{\text {sm }}$

## > Then hardwire those insights

 into your organization using our technology \& services
## Enrollment Management

Our Royall \& Company division provides data-driven undergraduate and graduate solutions that target qualified prospective students; build relationships throughout the search, application, and yield process; and optimize financial aid resources.

## Student Success

Members, including four- and two-year institutions, use the Student Success Collaborative ${ }^{\mathrm{TM}}$ combination of analytics, interaction and workflow technology, and consulting to support, retain, and graduate more students.

## Growth and Academic Operations

Our Academic Performance Solutions group partners with university academic and business leaders to help make smart resource trade-offs, improve academic efficiency, and grow academic program revenues.

College and
university members

Research interviews
per year

Course records in our student
success analytic models

Student
interactions

1) Performance Funding 2.0 - Why It Might Work This Time

2 Balancing Competing Goods - Challenging Questions in Designing Performance Funding Models

3 Limited Results - Many Questions Remain

## Performance-Based Funding, Take Two

## Half the Country (and Counting) Piloting Success and Completion Metrics

## Performance Funding Spreading Across Nation (Again)



Before 2010:

- Pennsylvania
- Indiana
- Tennessee
- Ohio

Since 2010:
37 states approved or currently planning success-based funding models

## Setting on One Definition of PBF Proves Difficult

## Type I (Rudimentary)

- State does not have completion/attainment goals
- Bonus funding
- Low level of funding (under 5\%)
- Some or all institutions in one sector included
- No differentiation in metrics and weights by sector
- Degree/credential completion not included
- Outcomes for underrepresented students not prioritized


## Type II

- State has completion/attainment goals
- Base Funding
- Low level of funding (under 5\%)
- All institutions in one sector included, or some institutions in both sectors
- No differentiation in metrics and weights by sector
- Degree/credential completion included
- Outcomes for underrepresented students may be prioritized


## Type IV (Advanced)

- State has completion/attainment goals
- Base funding
- Substantial level of funding (25\% or greater)
- All institutions in all sectors included
- Differentiation in metrics and weights by sector
- Degree/credential completion included
- Outcomes for underrepresented students prioritized

Source: Snyder, M. (2015). Driving better outcomes: Typology and principles to inform outcomesbased funding models. Washington, DC: HCM Strategists; EAB Interviews and Analysis.

## Why Will It Work This Time?

Skepticism of PBF Staying Power Justified Given Past Record

Spotty Implementation in the Last Decades
Duration of Selected State PBF 1.0 Initiatives


## South Carolina's "Moving Target" PBF, 1996-99

- Lack of consensus over success KPIs = 37 indicators
- Share of state allocation dropped from 38\% to 3\% in one year after budget shortfall

Ongoing Confusion


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ASHE Report, 2013
"State officials not infrequently disagree in their understanding of what PBF is, and whether their state has it..."

## The Federal Ratings System That Wasn't

## College Scorecard Differs Greatly from Original Proposal



## Access

- Percent of Pell students
- EFC gap
- Percent first-generation
- Family income quintiles

Affordability

- Average net price
- Net price by quintile


## Outcomes

- Completion rates
- Transfer rates
- Labor market success
- Graduate school attendance
- Loan performance outcomes


## The big risk:

Proposal to tie $\$ 150 \mathrm{M}$ in annual federal aid to performance against these metrics

SEPT 2015

## What we got

College "Scorecard"

- A repackaging of data available in IPEDS and other sources
- New visibility into financial aid and debt
- Retention and completions data limited to only first-time, full-time students

No clear institution ratings or ability to compare institutions


Source: EAB Daily Briefing (https://www.eab.com/daily-briefing/resources/primers/primer-obama-ratings-plan); Department of Education (http://www2.ed.gov/documents/college-affordability/framework-invitation-comment.pdf); EAB interviews and analysis.

## Toward a Broader Definition of Success

Scorecard Efforts Suggest that We Will Be Reporting More in the Future

Federal Requirements

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First-Year
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Retention

Four-Year Graduation

Large majority of students not tracked (PT and transfers)

Many States in the Lead with Performance Metrics


## But We Still Need Better Leading Indicators, Not Lagging Metrics...

Process completion

- Registration
- FAFSA completion


## Support service interaction

- \# advising interactions
- Tutoring appointments


## Interim outcomes

- Term-to-term persistence
- Term GPA change


## Another Means of Defunding Public Education?

State Appropriations Firming Up, But...
Total State Appropriations per FTE


Source: College Board, "Total and Per-Student State Funding and Public Enrollment over Time ${ }^{\prime \prime}$, https://trends. collegeboard.org/college-pricing/figures-tables/total-and-student-state-funding-and-public-enrollment-over-time; SHEEO, "The FY 2015 SHEF Report," http://www.sheeo.org/sites/default/files/projectfiles/SHEEO FY15 Report 051816.pdf

## Harder-to-Detect Cuts?

"Some individual institutions see more funds under competitive PBF formulas, but in aggregate most schools will be losers and there may be less overall to go around. I wonder if a motive of performance funding is to continue the trend of defunding public higher education while avoiding the publicity fallout."

Senior Administrator
Public Research Master's Institution

Bigger Piece of a Smaller Pie
"If PBF doesn't get traction, it will be because the increase in outcomes-based funds will be dwarfed by decreases in overall funding. The pie overall is shrinking over time."

Senior Administrator Midwestern Regional Public Institution

3 Limited Results - Many Questions Remain

## Balancing Competing Goods

## Challenging Questions in Designing Performance Funding Models

## How Can We Design a Fair and Effective PBF Model?



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## Right Measures

Balancing Comparability and Mission Diversity

- How Do We Account for Diverse Missions?
- What Student Populations and Programs Should We Overweight?
- Reward Intermediate Achievement, or Just Completions?
- Is It Financially Feasible to Track Career Outcomes?

Current Pressures

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## Right Change Levers

Balancing "Consequential" Incentives and Stability

- How Much Funding Should Be at Risk?
- How Do We Help Low Performers Manage Transition Risks?

Future Needs

## Fixing the Design Flaws in Past Formulas

## Limited Agreement around a Handful of PBF Features

## Performance Funding 1.0

## Bonuses

In addition to enrollment-based allocation

## Trivial Funds at Stake

Success metrics affect only 1-2\% of total funding, changing year by year

Completions measured as percentages of cohorts

## Performance Funding 2.0

## Core Funds

Success KPIs embedded in core funding formula

## Meaningful Dollars at Stake

Success metrics apply to 8\% to 100\% of allocation in new formulas

## Counts

Aggregate completion, regardless of student start date

## How Do We Account for Diverse Missions?



## Consistent Criteria, Different Emphases

MO and TN Formulas Encourage "Self-Calibration" of Success Indicators

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Missouri's Success "Menu"
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## Tennessee's Weighted Outcomes

| Success <br> Indicator | UT-Knoxville <br> Very High <br> Research | UT-Martin <br> Master's |
| :--- | :---: | :---: |
| Students @ 30 Hours | $2 \%$ | $4 \%$ |
| Students @ 60 Hours | $4 \%$ | $6 \%$ |
| Students @ 90 Hours | $6.5 \%$ | $10 \%$ |
| Bachelors and <br> Associates | $\mathbf{2 0 \%}$ | $\mathbf{3 0 \%}$ |
| Master's and <br> Specialist | $10 \%$ | $15 \%$ |
| Doctoral and Law | $\mathbf{1 2 . 5 \%}$ | $\mathbf{0 \%}$ |
| Research and Service | $12.5 \%$ | $5 \%$ |
| Degrees per 100 FTE | $17.5 \%$ | $10 \%$ |
| 6-Year Graduation | $\mathbf{1 5 \%}$ | $\mathbf{2 0 \%}$ |

# What Students and Programs to Overweight? 



[^0]


[^1]

# The Start of Performance Funding 3.0? 

Florida Political Leaders Push Higher Education to Focus on Employment

## FL Governor Convenes Higher Ed and Business Leaders to Promote JobReady Degrees

## GOVERNOR RICK SCOTT'S UEGREES IO JUBS SOMVII

Demonstrate that Florida graduates are job-ready upon graduation

Encourage higher education to align programs to workforce needs

## Jobs Above All Else

"Gov. Scott believes our higher education system must be solely focused on preparing grads to get jobs in high demand fields when they graduate."

Statement from the Office of Rick Scott, Governor of Florida

Emphasis on Employment Codified in Performance Funding Formula Metrics

- Percent of bachelor's graduates employed and/or continuing their education further one year after graduation
- Median average full-time wages of undergraduates employed in Florida one year after graduation



## The Great Unbundling Begins



## Transfer-Friendliness as Success Indicator

Michigan Considers Articulation with Two-Years for PBF Eligibility

Linking PBF Escalators to Transferability

## Michigan's SB-193 Performance

 Funding Eligibility Requirements

Participate in Michigan's student transfer network

Reverse transfer agreements with three community colleges

Accept dual-enrollment credits

"Tuition Restraint"


Schools adopting these policies eligible for 3\% increase in PBF

An Unintended Temptation to Raise Tuition?

## Heard on the Street

"Another institution told us they realized they weren't going to meet the PBF eligibility requirements in time. They knew they'd lose the state funding boost no matter what, so they upped tuition $9 \%$ to offset the hole in the performance funds."

Senior Administrator Regional Public Institution

## Balancing Competing Goods

## Challenging Questions in Designing Performance Funding Models

## How Can We Design a Fair and Effective PBF Model?

Right Measures
Balancing Comparability and Mission Diversity

- How Do We Account for Diverse Missions?
- What Student Populations and Programs Should We Overweight?
- Reward Intermediate Achievement, or Just Completions?
- Is It Financially Feasible to Track Career Outcomes?

Current Pressures

Right Change Levers
Balancing "Consequential" Incentives and Stability

- How Much Funding Should Be at Risk?
- How Do We Help Low Performers Manage Transition Risks?

Future Needs

## How Much Should Be Put at Risk?

No Consensus Yet on Minimum Needed to Spur Change


1) Does not include states treating performance funds as fixed-dollar pools or bonuses on top of base allocations.

## Learning Years

One-year data-baselining period to get buy-in for success KPIs and familiarize institutions with formula
(WA, MO)

## Escalating Risk Pools

Increase amount of funds subject to PBF in predetermined increments (e.g., $5 \% \rightarrow 10 \%$ $\rightarrow 15 \%$ ) until formula's steadystate cap achieved
(AR, IN)

## Stop-Loss Provisions

State sets floor of how much individual institutions can lose (usually 1-2\% of previous year's allocation) in first year of PBF
(NM, OH)

## Rolling Averages

Formula uses 3-5 year average of success indicators to insulate institutions from economic cycles
(OH, TN)

## PBF Impact Modeling

Tennessee Tool Helps Anticipate Financial Impact of Competitive Funding


Models gains and losses in Tennessee's competitive funding system ${ }^{1}$

## Problems with Peer Benchmarks

Neither Systems Nor Institutions Happy Tying Targets to Peer Sets

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(2)


## Competitive Funding

"Winners" Capturing an Increasing Share of Tennessee Resources

Percent Change in Share of State Allocations
Since Onset of Tennessee's Outcomes
Funding Model
2010-2011 vs. 2013-2014

Laggards Lose Share of Allocation
Six schools together received less than 1\% of the recent $\$ 14.6 \mathrm{M}$ increase in overall Tennessee state funding


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|  | -2.9\% | -2.9\% | -2.8\% | -1.7\% | -1.1\% |  |  |  |

"This is a definitely a philosophical shift. We decided to push money to where it was earned rather than distribute it evenly to all. Our model is rewarding those who outperform the rest."

Tennessee Higher
Education
Commission representative

## Slight Shift Toward Selectivity and Increase in Student-Focused Spending

## $-2 \%$ <br> Pell Grants per FTE

- Decline in one of the major markers of a student body's income and the selectivity of the institution
- Trend holds over multiple years, not just the first year after PBF implementation


## Student Services Expenditure Per FTE

- Increase in spending here shows intended outcome of PBF occurred for many states
- Limited research fails to explore which areas of student services received more funds


## Increase in Institutional

 Grant Aid Per FTE- Typically merit-based aid increases after PBF implementation
- Without test scores, GPA, and other data, difficult to determine if this shift represents growing selectivity or simply more aid to more students


## Instructional Expenditure Per FTE

- Under PBF, instructional spending rises after two years
- Other areas, such as auxiliary enterprises and institutional support, show signs of decreasing


## Mixed Results Across the United States

## Limited Research on Effects of PBF Reveals Few Trends

PBF's Effects on Completion Over Time, 1990-2010

|  | Effect on <br> 2-Year <br> Completions | Effect on 4- <br> Year <br> Completions |
| :--- | :--- | :--- |
| ID | Negative | Negative |
| MN | Positive | None |
| AR | Mixed | None |
| IN | None | Positive |
| OK | Mixed | None |
| TX | Negative | Negative |
| NM | Negative | Positive |

## Qualitative Evidence More Positive for PBF

Source: Snyder, M. (2015). Driving better outcomes: Typology and principles to inform outcomes based funding models. Washington, DC: HCM Strategists; Tandberg, D., \& Hillman, N. (2013). State performance funding for higher education: Silver bullet or red herring. WISCAPE Policy Brief, 18; EAB Interviews and Analysis.

## Not a Quick Fix for Completions

Where They Occur, Positive Effects Take Several Years to Appear

## Performance Funding's Effects Over Time

| Number <br> of Years | Effect on Four-Year <br> Completions |
| :--- | :--- |
| 1 | None |
| 2 | None |
| 3 | None |
| 4 | None |
| 5 | None |
| 6 | None |
| 7 | Positive |
| 8 | Positive |
| Many <br> initially inject new funding but <br> cut back after several years |  |

## Setting Expectations for the Improvement Timeline

"States ought to exercise significant caution in pursuing performance funding as a quick fix...States should also expect a long wait before performance funding has any impact on degree completion at four-year institutions."

David A. Tandberg, Assistant Professor of Higher Education
Florida State University
Nicholas W. Hillman
Assistant Professor, Department of Educational Leadership and Policy Analysis University of Wisconsin-Madison

Many PBF initiatives fail as states cut back after several years

## Balancing Competing Goods

Challenging Questions in Designing Performance Funding Models

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## Right Measures

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Current Pressures

## Right Change Levers <br> Balancing "Consequential" Incentives and Stability

- How Much Funding Should Be at Risk?
- How Do We Help Low Performers Manage Transition Risks?


[^0]:    | Illinois | Pell-eligible completers $=1.4 \mathrm{x}$ |
    | ---: | :--- |
    | Tennessee | $40 \%$ "completion premium" <br> for low-income and adult <br> completers |
    | Pennsylvania | $10 \%$ to $20 \%$ of total <br> institutional success score tied <br> to Pell-eligible completions |
    | Michigan | Institutions must comply with <br> tuition increase restraints, <br> participate in a transfer network, <br> build articulation agreements, <br> and limit double counting of dual <br> enrollment credit | and limit double counting of dual enrollment credit

[^1]:    - Lower Division - Upper Division

