

# Insights from Performance-Based 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

University Systems Forum

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### Start with best practices research

- Research Forums for presidents, provosts, chief business officers, and key academic and administrative leaders
- > At the core of all we do
- > Peer-tested best practices research
- Answers to the most pressing issues

The best practices are the ones that work for **you**.<sup>54</sup>

### 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™** 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.

### $1,100^{+}$

College and university members

### 10,000+ Research interviews

per year

### 250M<sup>+</sup>

Course records in our student success analytic models

1.2B<sup>+</sup> Student interactions



# Performance-Based Funding, Take Two

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



### Performance Funding Spreading Across Nation (Again)



### Setting on One Definition of PBF Proves Difficult

Type I (Rudimentary)	Туре II
State does not have completion/attainment goals	<ul> <li>State has completion/attainment goals</li> </ul>
Bonus funding	• Base Funding
<ul> <li>Low level of funding (under 5%)</li> </ul>	<ul> <li>Low level of funding (under 5%)</li> </ul>
Some or all institutions in one sector included	All institutions in one sector included, or some
<ul> <li>No differentiation in metrics and weights by sector</li> </ul>	institutions in both sectors
Degree/credential completion not included	<ul> <li>No differentiation in metrics and weights by sector</li> </ul>
<ul> <li>Outcomes for underrepresented students not</li> </ul>	<ul> <li>Degree/credential completion included</li> </ul>
prioritized	<ul> <li>Outcomes for underrepresented students may be prioritized</li> </ul>
Type III	Type IV (Advanced)
<ul> <li>State has completion/attainment goals</li> </ul>	<ul> <li>State has completion/attainment goals</li> </ul>
Base funding	• Base funding
<ul> <li>Moderate level of funding (5-24.9%)</li> </ul>	$m \cdot$ Substantial level of funding (25% or greater)
<ul> <li>All institutions in all sectors included</li> </ul>	<ul> <li>All institutions in all sectors included</li> </ul>
<ul> <li>Differentiation in metrics and weights by sector</li> </ul>	<ul> <li>Differentiation in metrics and weights by sector</li> </ul>
<ul> <li>Degree/credential completion included</li> </ul>	Degree/credential completion included
<ul> <li>Outcomes for underrepresented students prioritized</li> </ul>	Outcomes for underrepresented students prioritized
016 EAB • All Rights Reserved • <b>eab.com</b>	Source: Snyder, M. (2015). Driving better outcomes: Typology and principles to inform outcomes- based funding models. <i>Washington, DC: HCM Strategists</i> ; 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

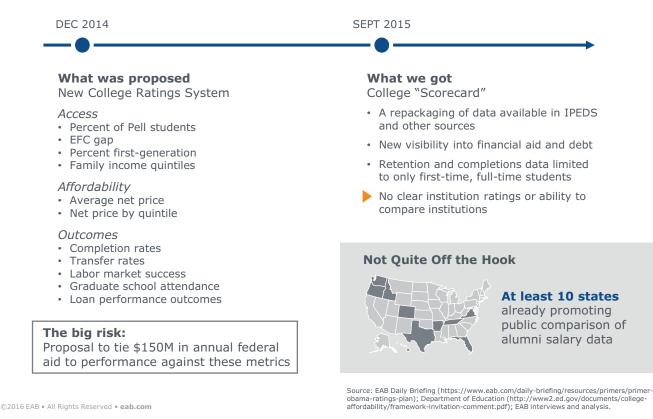
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"State officials not infrequently disagree in their understanding of what PBF is, and whether their state has it..."

©20



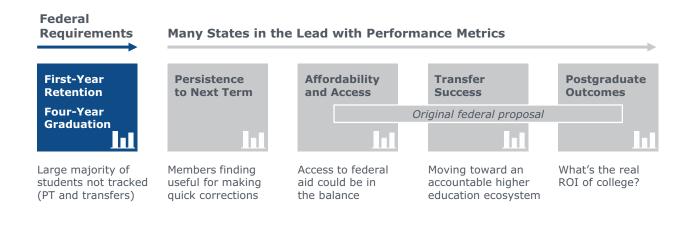
### College Scorecard Differs Greatly from Original Proposal



# Toward a Broader Definition of Success



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



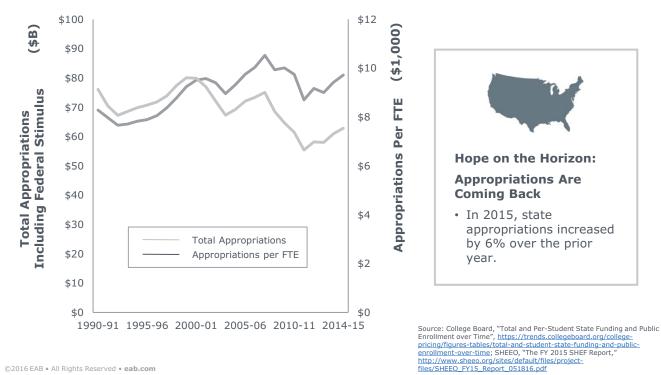
#### But We Still Need Better Leading Indicators, Not Lagging Metrics...





State Appropriations Firming Up, But...

Total State Appropriations per FTE



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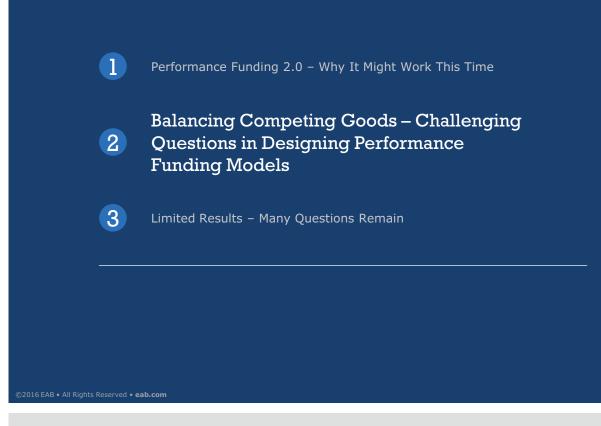
formulas, but in aggregate most schools will be losers and there may be less overall to go around. I wonder if a motive of performance funding is to continue the trend of defunding public higher education while avoiding the publicity fallout."

> Senior Administrator Public Research Master's Institution



"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."

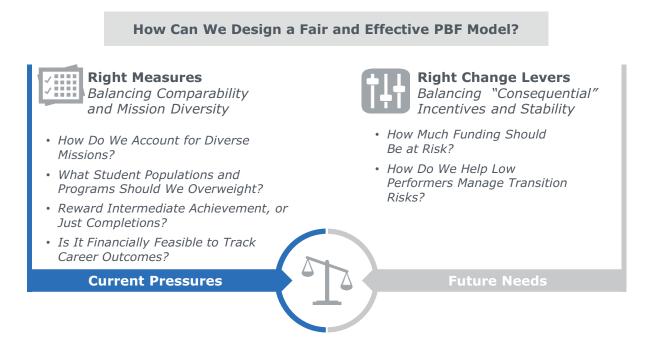
Senior Administrator Midwestern Regional Public Institution



# **Balancing Competing Goods**



Challenging Questions in Designing Performance Funding Models



# Fixing the Design Flaws in Past Formulas



### Limited Agreement around a Handful of PBF Features

Bonuses		Core F	unds	
In addition to enrollment-based allocation	→		s KPIs embedded in core formula	e
Trivial Funds at Stake			ngful Dollars at Sta	
Success metrics affect only 1-2% of total funding, changing year by year			metrics apply to 8% to ation in new formulas	5 100%
Rates		Counts	5	
Completions measured as percentage of cohorts	ges 🕨		te completion, regardle start date	ess of
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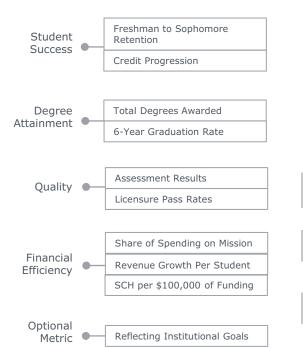
# **Consistent Criteria**, Different Emphases



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

#### Missouri's Success "Menu"



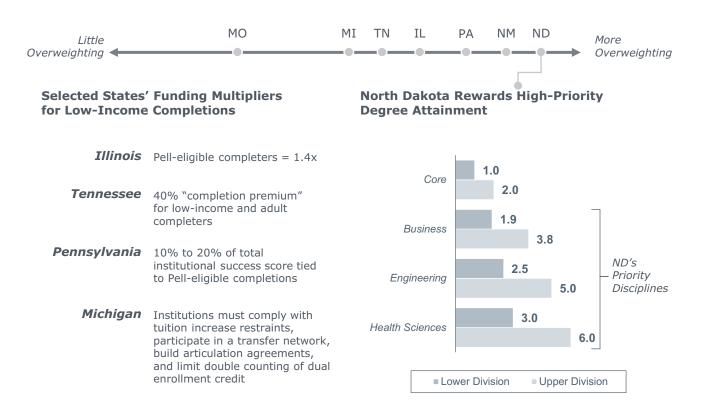
#### **Tennessee's Weighted Outcomes**

Success Indicator	<b>UT-Knoxville</b> Very High Research	<b>UT-Martin</b> <i>Master's</i>
Students @ 30 Hours	2%	4%
Students @ 60 Hours	4%	6%
Students @ 90 Hours	6.5%	10%
Bachelors and Associates	20%	30%
Master's and Specialist	10%	15%
Doctoral and Law	12.5%	0%
Research and Service	12.5%	5%
Degrees per 100 FTE	17.5%	10%
6-Year Graduation	15%	20%

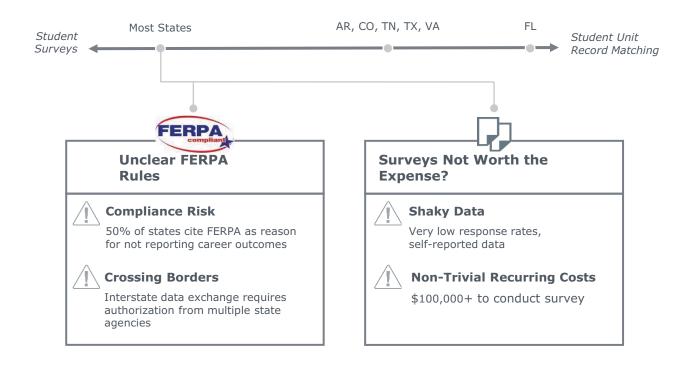
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Source: EAB Interviews and Analysis.

# What Students and Programs to Overweight?







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Source: EAB Interviews and Analysis.

# 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 Job-Ready Degrees

### GOVERNOR RICK SCOTT'S DEGREES TO JOBS SUMMIT



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

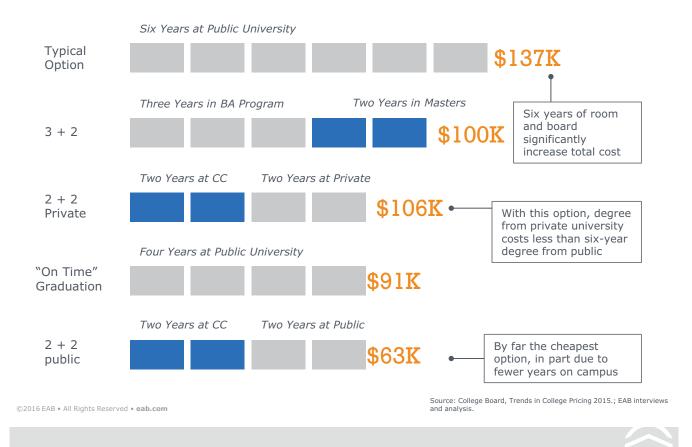
#### Emphasis on Employment Codified in Performance Funding Formula Metrics

- 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



Source: Dunkelberger, Lloyd, "Faculty Union Criticizes Governor's Higher Education Summit," Herald-Tribune. 2015; Performance-Based Funding for Higher Education," <u>http://www.ncsl.org/research/education/performance-funding.aspx</u>. National Conference of State Legislatures. 2016.; EAB interviews and analysis.

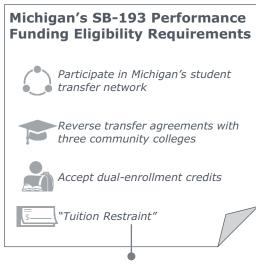
# The Great Unbundling Begins



# Transfer-Friendliness as Success Indicator



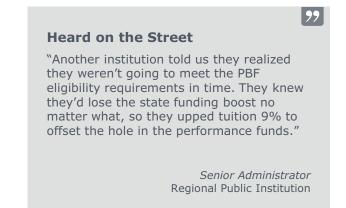
### Linking PBF Escalators to Transferability



Schools adopting these policies eligible for 3% increase in PBF

### An Unintended Temptation to Raise Tuition?

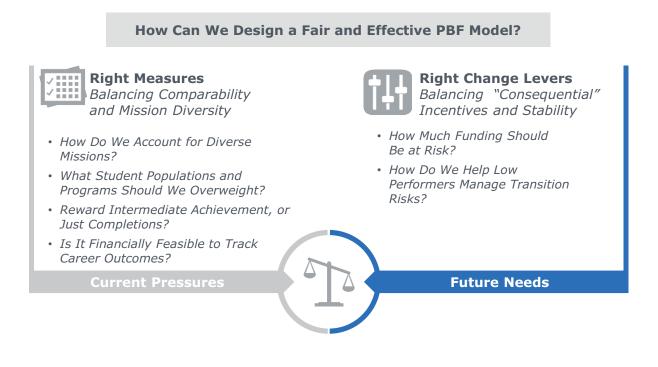
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### **Balancing Competing Goods**



### Challenging Questions in Designing Performance Funding Models



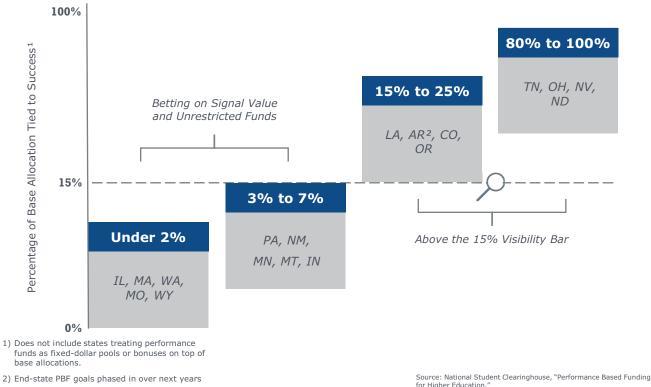
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Source: EAB interviews and analysis.

# How Much Should Be Put at Risk?



### No Consensus Yet on Minimum Needed to Spur Change





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#### **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)

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Source: EAB interviews and analysis.

# **PBF Impact Modeling**



Tennessee Tool Helps Anticipate Financial Impact of Competitive Funding

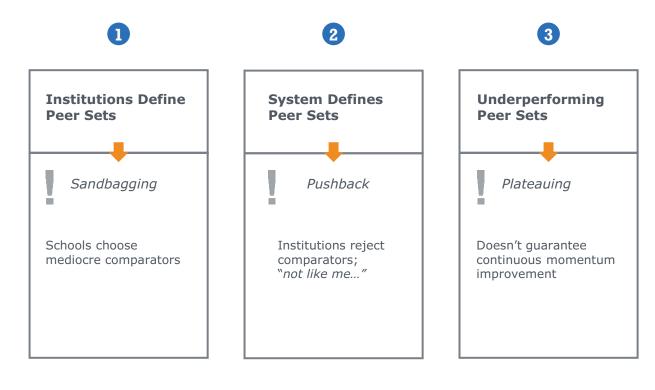
(	TN Tennessee Higher Edu Commissio		titive Fun	ding Scei	narios
		Annual Outcome Change	Institution A	Institution B	Institution C
Allows plug-in	Set Outcome	Students Accumulating 30 Hours	4%	3%	6%
assumptions for state funding and institutional performance	Select School	Bachelors and Associates	30%	27.5%	20%
		Six-Year Graduation Rate	20%	10%	10%
	State Funding	Percent Change in Estimated Funding	0.3%	0.3%	0.3%
		Change in Estimated Funding (\$1K)	\$110.3	\$54.0	\$108.2

Models gains and losses in Tennessee's competitive funding system<sup>1</sup>

### **Problems with Peer Benchmarks**



Neither Systems Nor Institutions Happy Tying Targets to Peer Sets



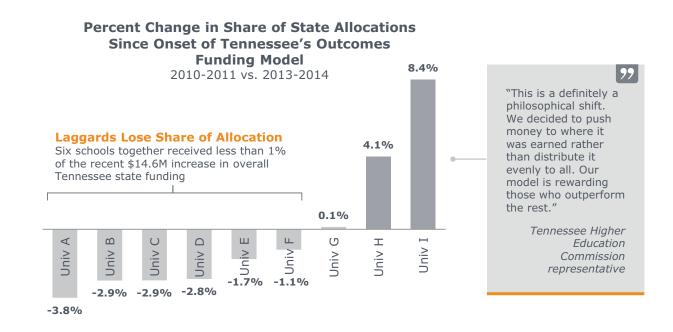
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Source: EAB Interviews and Analysis.

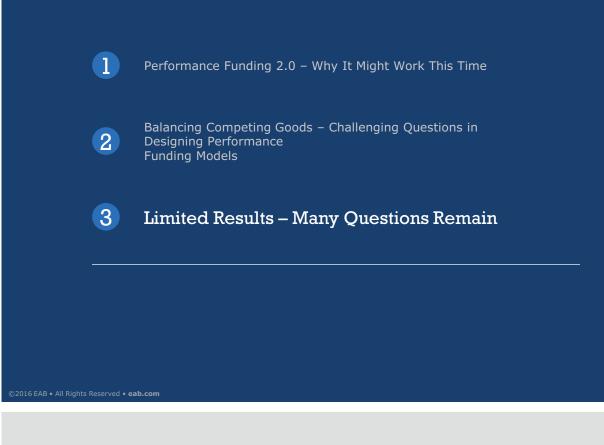
# **Competitive Funding**

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"Winners" Capturing an Increasing Share of Tennessee Resources



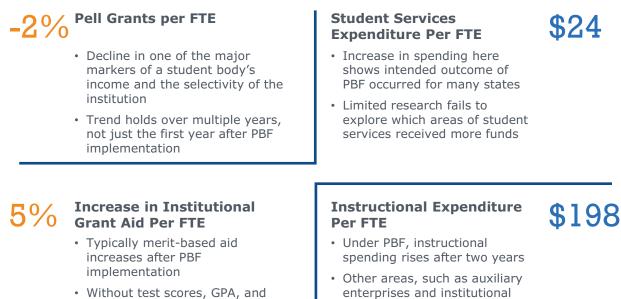




### **Shifting Institutional Financial Behaviors**



Slight Shift Toward Selectivity and Increase in Student-Focused Spending



other data, difficult to determine if this shift represents growing selectivity or simply more aid to more students

Source: Kelchen, Robert and Luke J. Stedrak. "Does Performance-Based Funding Affect Colleges' Financial Priorities?" Journal of Education Finance. Volume 41. No. 3. Winter 2016. pp. 302-321.; EAB Interviews and Analysis.

support, show signs of

decreasing



### Limited Research on Effects of PBF Reveals Few Trends

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

ime, 1990-2010		Positive for PBF
Effect on 2-Year Completions	Effect on 4- Year Completions	Increased awareness of s priorities and institutiona performance
Negative	Negative	More funding dedicated to instruction
Positive	None	Improved student service
Mixed	None	Higher quality developme education and tutoring
None	Positive	Increased professional su services to improve teach
Mixed	None	<ul> <li>Changed course sequence</li> </ul>
Negative	Negative	curricula
Negative	Positive	Data used to inform decis making more frequently
		n M (2015) Driving bother subserves. Typelagy and principles to it

Source: Snyder, M. (2015). Driving better outcomes: Typology and principles to inform outcomesbased 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.

**Qualitative Evidence More** 

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# Not a Quick Fix for Completions



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### Where They Occur, Positive Effects Take Several Years to Appear

#### **Performance Funding's Effects Over Time**

Number of Years	Effect on Four-Year Completions
1	None
2	None
3	None
4	None
5	None
6	None
7	Positive
8	Positive

Many PBF initiatives fail as states initially inject new funding but 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

> Source: Tandberg, David and Hillman, Nicholas (2013). State Performance Funding for Higher Education: Silver Bullet or Red Herring? (WISCAPE POLICY BRIEF). Madison, WI: University of Wisconsin-Madison, Wisconsin Center for the Advancement of Postsecondary Education (WISCAPE): EAB Interviews and Analysis

# **Balancing Competing Goods**



### Challenging Questions in Designing Performance Funding Models



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