



# SHEEO

STATE HIGHER EDUCATION EXECUTIVE OFFICERS ASSOCIATION

## Using Data to Shape Policy: Now and in the Future

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Western Interstate Commission for Higher Education  
Legislative Advisory Committee

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## About SHEEO

National association serving chief executives of statewide governing, policy, and coordinating boards of postsecondary education and their staffs.



## About SHEEO

- Advocate for state policy leadership
- Act as a liaison between states and the federal government
- Provide information and analysis on educational and public policy issues
- Recognize that state context matters



**1954**



**61 MEMBERS**

**50 STATES  
2 TERRITORIES  
+ D.C.**

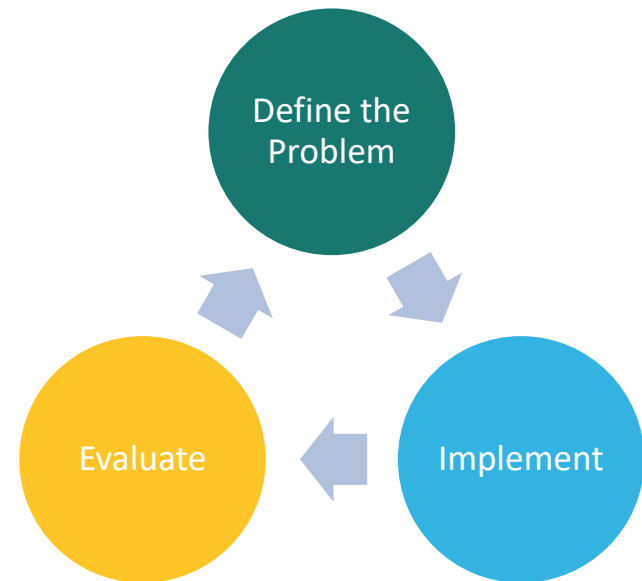
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SHEEO, together with its members, works to promote an environment that values higher education and its role in ensuring the equitable education of all Americans, regardless of race/ethnicity, gender or socioeconomic factors.

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## Overview

- Using data throughout the policymaking and implementation process
  - Defining the problem
  - Implementation
  - Evaluation
- Challenges and opportunities
- Resources





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## Define the Problem

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# The Education Pathway

Where students in the public high school class of 2006\* went by age 25

\*Sophomores in 2003-04

</> 

Gender \*

All

Ethnicity \*

All

Income Level \*

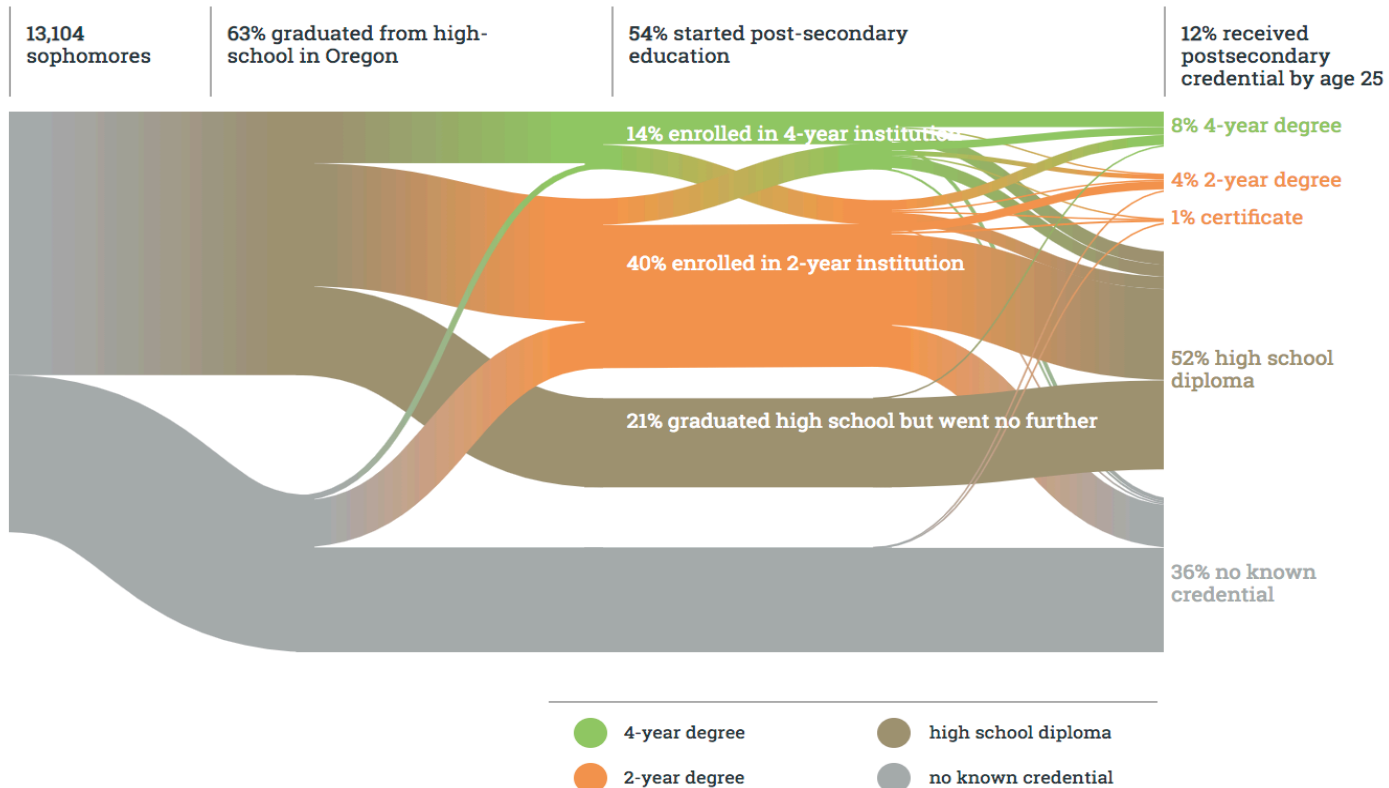
Low Income

School District

All

High School

All



## Remedial Education

- States analyzed data on students moving through remedial education courses
- Found traditional remedial courses were not serving many students well
- Many states have redesigned remedial education and implemented new models such as corequisite remediation
  - Some states are now evaluating these new models



## Unique State Context

- National data and benchmarks do not always indicate a problem within a state
- State-level data can more accurately reflect the quality of a state's higher education experience and identify problems



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## Implementation

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## Implementation

- Transfer
  - More than a dozen states have relied on state data systems to design and improve transfer systems
- Performance-based funding
  - Several states indicated they would not be able to implement a performance-based funding system without high-quality data



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## Evaluation

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# Dual Enrollment

- State evaluation found entire course catalog available for dual enrollment students
- Students were enrolling in walking and Zumba classes
- Implemented new rules requiring courses be taken in a core content area

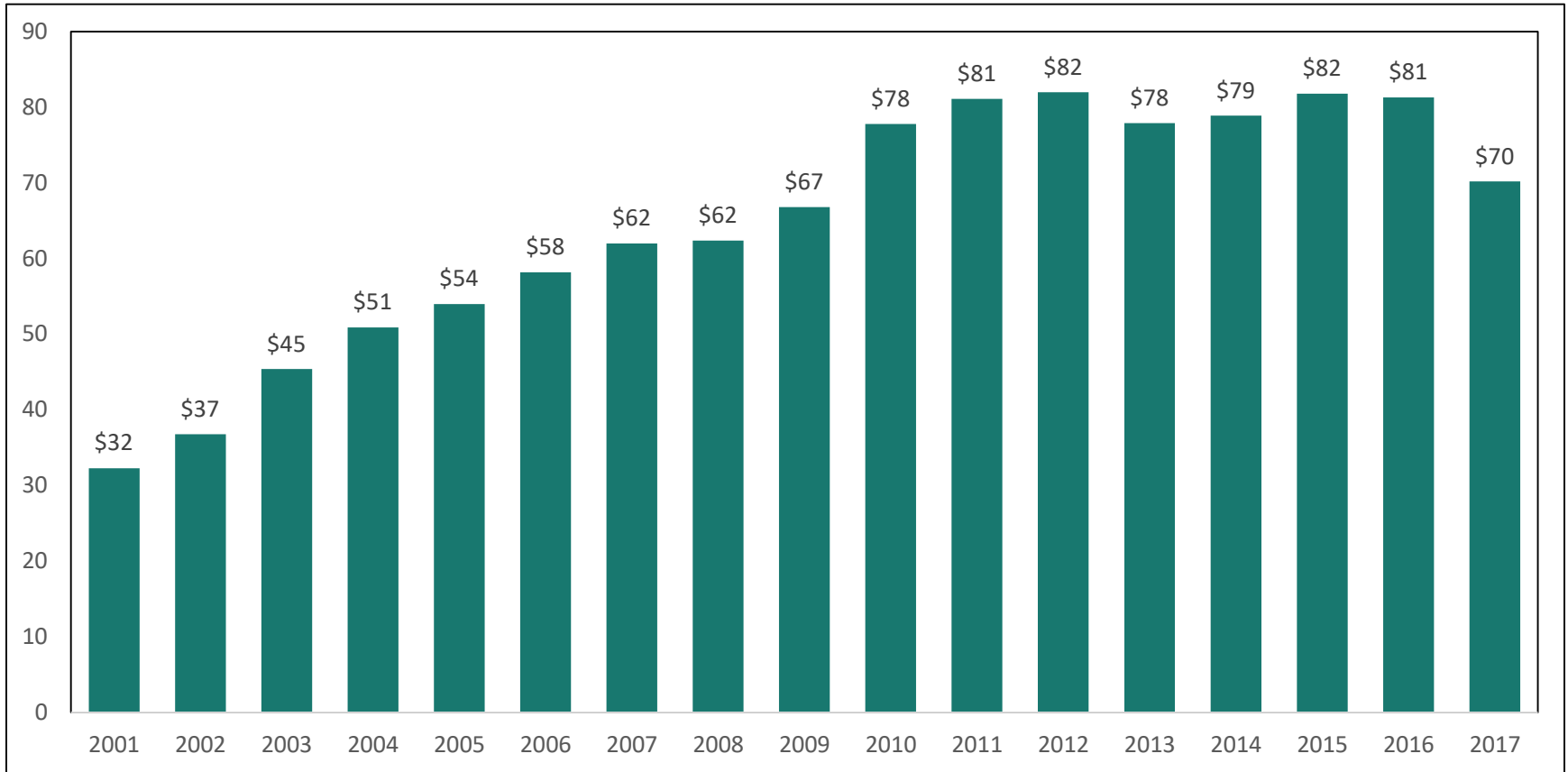


# Financial Aid: Building Regular Evaluations into Programs

- Promise Program Evaluations
  - Enrollment increases at community colleges
  - Effect on enrollment at 4-year institutions
- Financial Aid Program Evaluations
  - Are the target students receiving aid?
  - What are the outcomes of students receiving aid?



# Ohio Transfer-facilitated Tuition Savings, in Millions of Dollars





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## Challenges and Opportunities

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## Challenges

- Capacity
  - Staff time
  - Staff expertise
- Resource Limitations
  - Aging data systems
  - Increased demands placed on these systems
- Gaps in data elements collected
  - Student debt
  - Financial aid

# Metrics Capacity of State Data Systems

TABLE 6:  
METRICS CAPACITY<sup>19</sup>

	Type of Metric	Number of Respondents	Percentage
Graduation rate	Completion	50	91%
Retention / persistence rate	Progression	50	91%
Time to credential	Completion	47	85%
Credit accumulation	Progression	47	85%
Remedial course completion	Progression	47	85%
Transfer rate	Completion	45	82%
Credits to credential	Completion	44	80%
Credit completion ratio (credits completed vs. attempted)	Progression	44	80%
Completion ratio (completions per FTE)	Progression	39	71%
Gateway course completion	Progression	35	64%
Median wage of completers	Post-college Outcomes	30	55%
Employment status	Post-college Outcomes	25	45%
Median wage of non-completers	Post-college Outcomes	22	40%
Net price	Cost	19	35%
Cumulative debt	Cost	17	31%
Loan repayment status	Post-college Outcomes	3	5%

## Opportunities

- Capacity
  - Expand staff capacity and expertise
  - Outsource evaluation to academic researchers
- Resource limitations
  - Consider increasing or prioritizing funding for state data systems
- Gaps in data elements collected
  - Update laws and rules to collect important data elements and metrics



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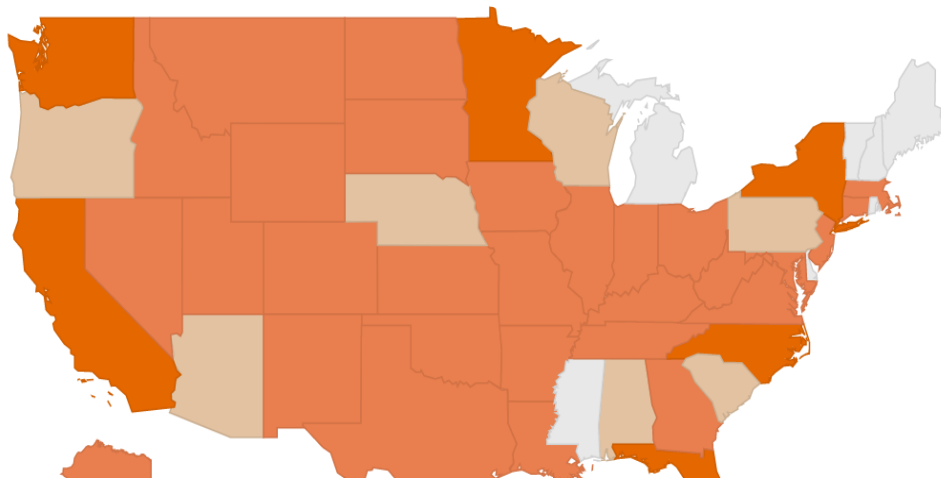
## Resources

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## State Postsecondary Data Resources

<https://postsecondarydata.sheeo.org/>

# 51 Agencies in 46 States currently link or plan to link Postsecondary data to Workforce data



## Select Question

What states can link postsecondary and workforce data?

What states can link postsecondary and K-12 data?

What states link to both K-12 and workforce data?

What state data systems contain financial aid information?


What states can link postsecondary and early childhood data?



[Clear results](#)

 Show table / Hide table 


Agency	2010		2015		2018	
	Plans To Link	Currently Links	Plans To Link	Currently Links	Plans To Link	Currently Links
AL			●		●	
AK		●		●		●
AZ					●	
AR						●
CA - CCC		●		●		
CA - CSU						

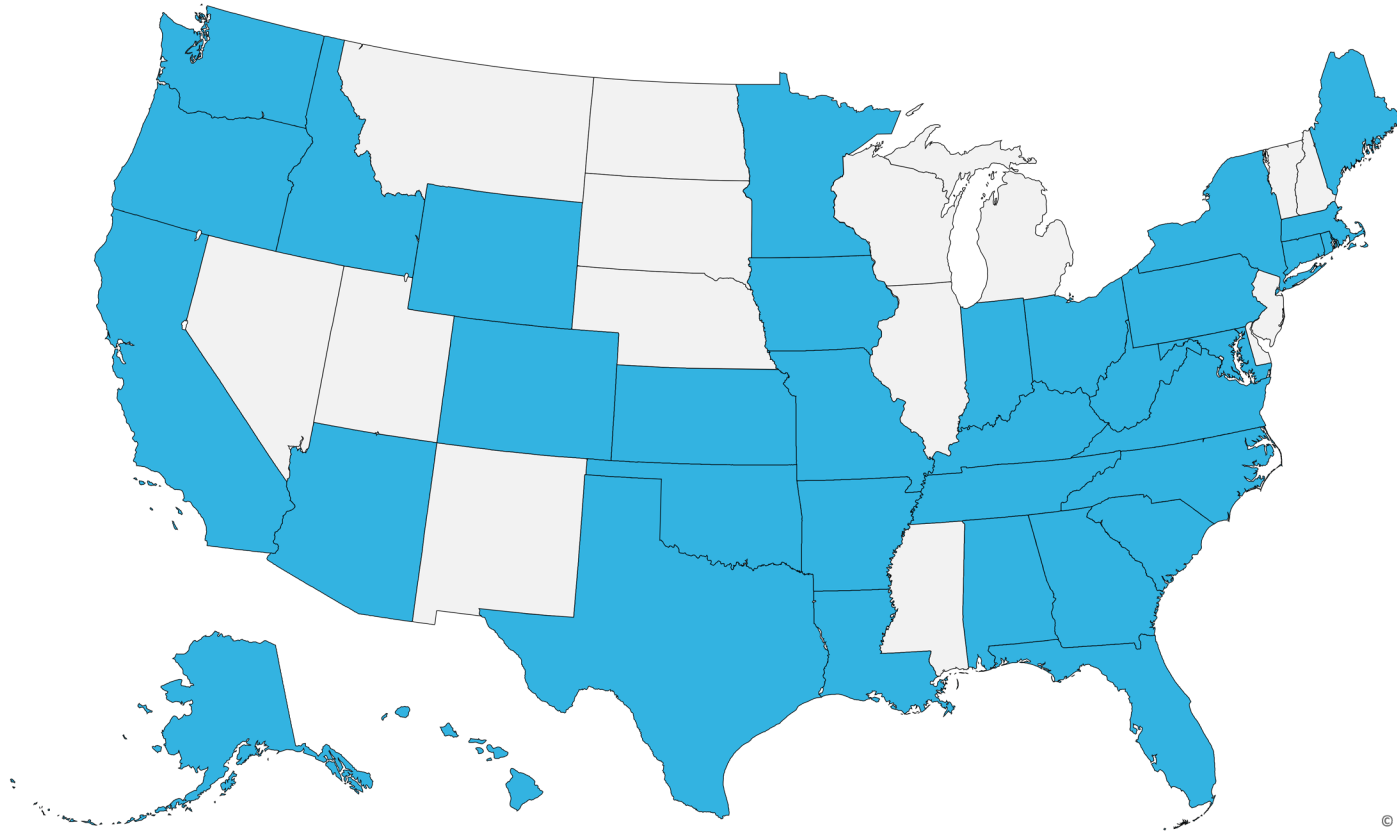
	+	+	Course Information								+	+	+	
	DEMOGRAPHIC	IDENTIFIERS	COURSE TITLE	COURSE MODE OF INSTRUCTION	COURSE GRADE	TERM SCH ATTEMPTED	TERM SCH EARNED	ACADEMIC TERM	REMEDIAL COURSE COMPLETION	GATEWAY COURSE COMPLETION	DEGREE INFORMATION	STUDENT METRICS	FINANCIAL AID	AGENCY TOTAL
<b>2010</b>														
Arizona	4	4	●		●	●	●	N/A	N/A	N/A	4	7	2	25
New Mexico	4	2						N/A	N/A	N/A	0	0	0	6
<b>2015</b>														
Arizona	5	4	●		●	●	●				4	7	2	26
New Mexico	6	6	●	●	●	●	●	●	●	●	2	3	11	36
<b>2018</b>														
Arizona	7	5			●		●	●	N/A	N/A	4	9	8	36
New Mexico	6	3		●	●		●	●	N/A	N/A	1	3	9	26
<b>2018 DATA ELEMENT TOTAL (ALL STATES)</b>	308	238	N/A	36	38	45	48	48	N/A	N/A	188	429	369	



## Communities of Practice Project Overview

- Help states address common challenges regarding state postsecondary data systems
- Provide technical assistance and professional development for data and policy analysts, institutional researchers, and communications professionals
- Two-day convenings of teams from multiple states
- White papers highlighting key issues or findings
  - Regional meetings in 2020 and 2021
- Ongoing networks for members to share information and workshop solutions

# States Participating in SHEEO's Community of Practice Project



# Questions?

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# Data Element Tables

LIST OF DATA ELEMENTS COLLECTED, BY AGENCY:  
4-YEAR PUBLIC

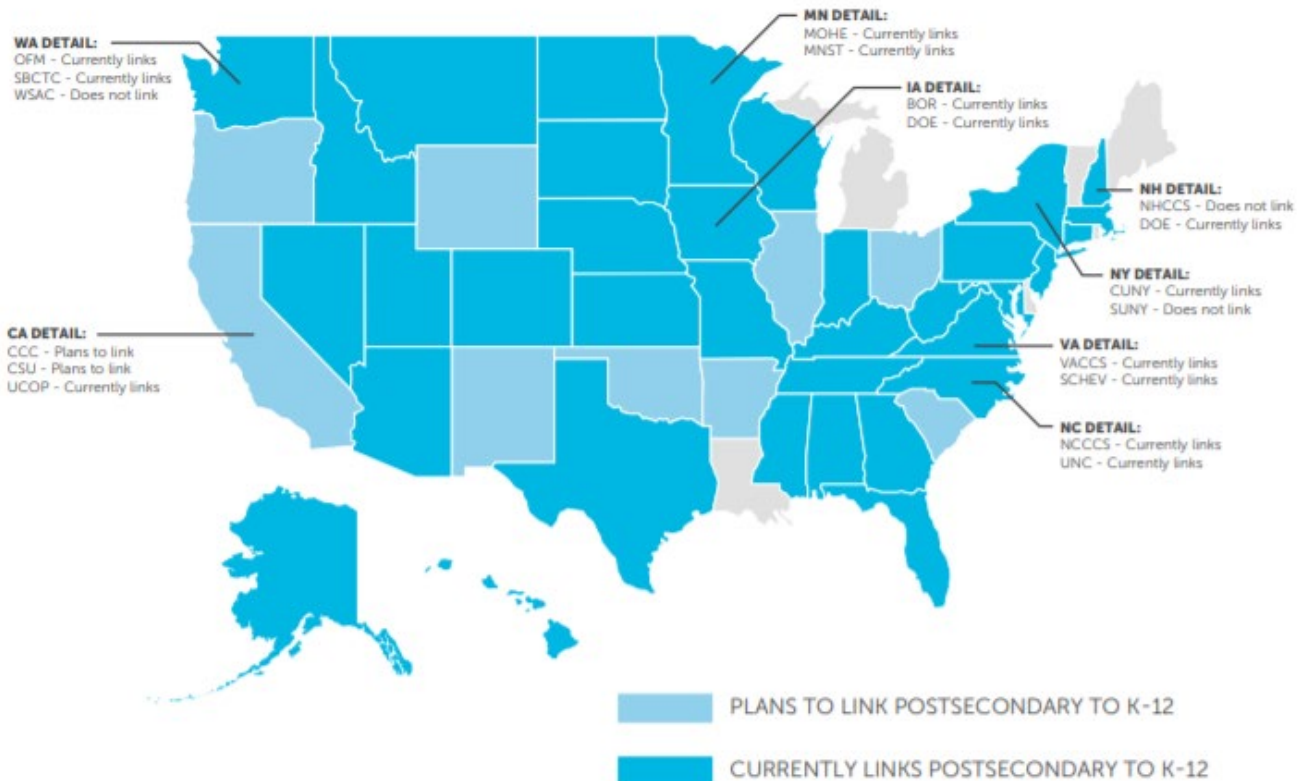
State	Demographic						Identifiers				Course information				Degree information							
	Student name	Date of birth	Gender	Race / ethnicity	Age	Military status	Pell status	Social Security number	K-12 unique identifier	Institution of higher education identifier	Postsecondary student unique identifier	Citizenship status	State residency status	Course mode of instruction	Course grade	Student credit hours attempted	Student credit hours earned	Academic term	Degree awarded	Degree date	Cumulative credit hours earned	Cumulative GPA
Alabama	•	•	•	•					•		•	•			•	•	•	•	•	•	•	•
Alaska	•	•	•	•		•	•				•	•	•	•	•	•	•	•	•	•	•	•
Arizona	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Arkansas	•	•	•	•	•		•			•	•	•	•	•	•	•	•	•	•	•	•	•
California - CSU	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
California - UCOP	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Colorado		•	•	•	•	•	•								•	•	•	•	•	•	•	•
Connecticut	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Florida	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Georgia	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Hawaii	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Idaho		•	•	•	•	•	•								•	•	•	•	•	•	•	•
Illinois	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Indiana	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Iowa - BOR			•	•	•										•	•	•	•	•	•	•	•
Kansas	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
Kentucky	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•

LIST OF DATA ELEMENTS COLLECTED, BY AGENCY:  
4-YEAR PUBLIC CONTINUED

State	Student metrics										Financial aid										
	Admissions scores	Placement scores	Prior college(s) attended	Transfer credit(s)	Retention by term or year	Enrollment status (first-time, transfer, continuing)	Degree-seeking status	Full-time / part-time status	Term student first enrolled (fall, spring, summer)	Program / major	Dependency status	Family income	Federal financial aid	State financial aid	Institutional financial aid	Ment-based financial aid	Need-based financial aid	Other financial aid	FAFSA fields	Cost of postsecondary education (what student actually pays)	Student tuition and fees
Alabama			•	•	•	•	•	•	•	•											•
Alaska	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
Arizona		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Arkansas		•	•									•	•	•	•	•	•	•	•		•
California - CSU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
California - UCOP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Colorado	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Connecticut	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Florida	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Georgia	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hawaii	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Idaho			•	•	•	•	•	•	•	•		•	•	•	•	•	•	•			•
Illinois	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Indiana			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
Iowa - BOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kansas	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kentucky	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

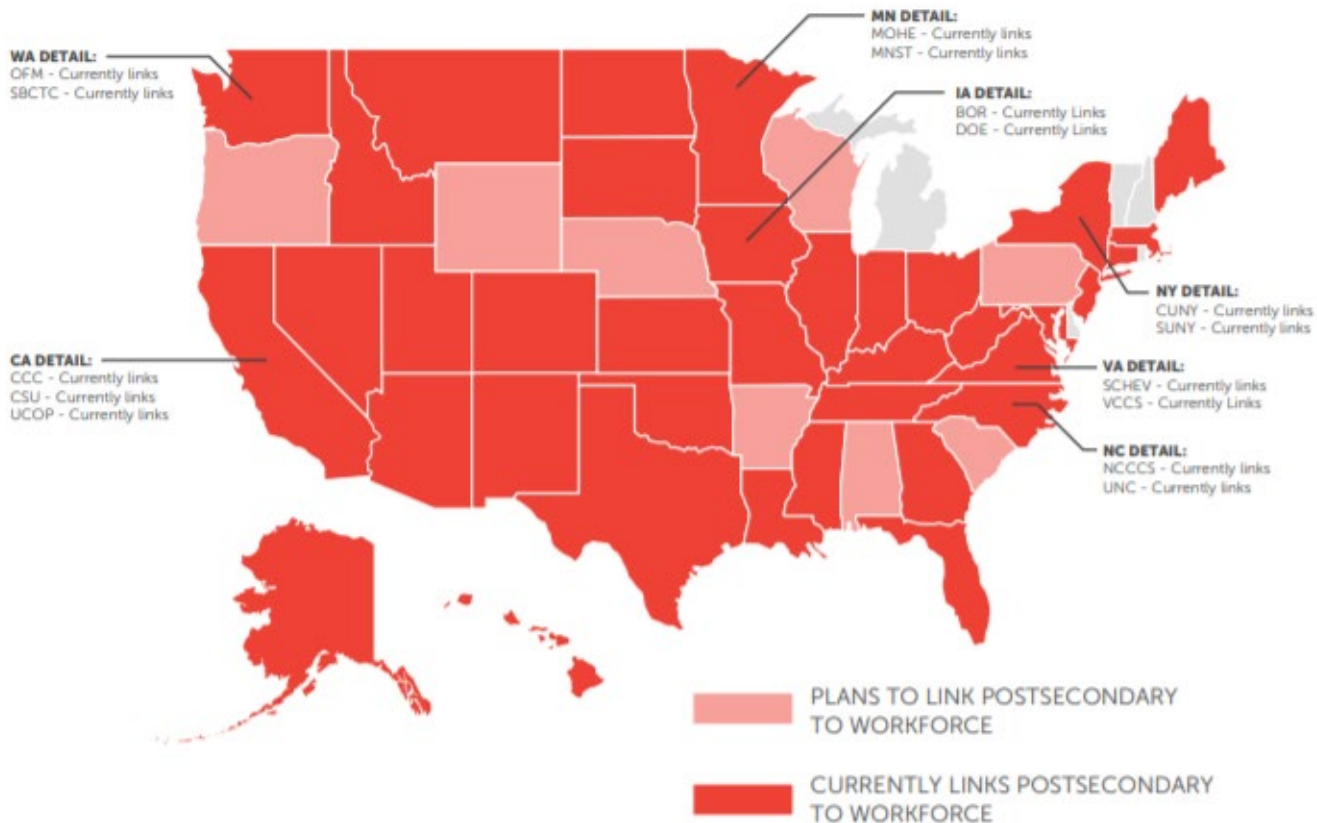
# Linkages with Other Data Systems – K-12

## 47 AGENCIES IN 44 STATES CURRENTLY LINK OR PLAN TO LINK POSTSECONDARY DATA TO K-12 DATA



# Linkages with other Data Systems - Workforce

**51 AGENCIES IN 46 STATES CURRENTLY LINK OR PLAN TO LINK POSTSECONDARY TO WORKFORCE DATA**





## 36 AGENCIES IN 32 STATES CURRENTLY HAVE ACCESS TO K-12 AND WORKFORCE DATA

