The State of State Postsecondary Data Systems

Do Statewide Longitudinal Data Systems Measure Up?

New England Board of Higher Education

Weston, MA
October 16, 2014

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Vice President for Research and Information Resources
State Higher Education Executive Officers

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Today's Agenda

- Overview of the federal state longitudinal data systems (SLDS) program

- Strong Foundations – SHEEO's look at the state of state postsecondary data systems

- Benefits – potential and realized

- Challenges and disappointments

- Conversation

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Legislative Background

- Authorized in 2002 by the Education Sciences Reform Act and the Educational Technical Assistance Act

- The grants are cooperative agreements—more active federal government involvement than in typical grants

- Administered by the Institute of Education Sciences (IES) of the U.S. Department of Education

Eligible Applicants

Eligible applicants include the **state education agencies** of:

- 50 States

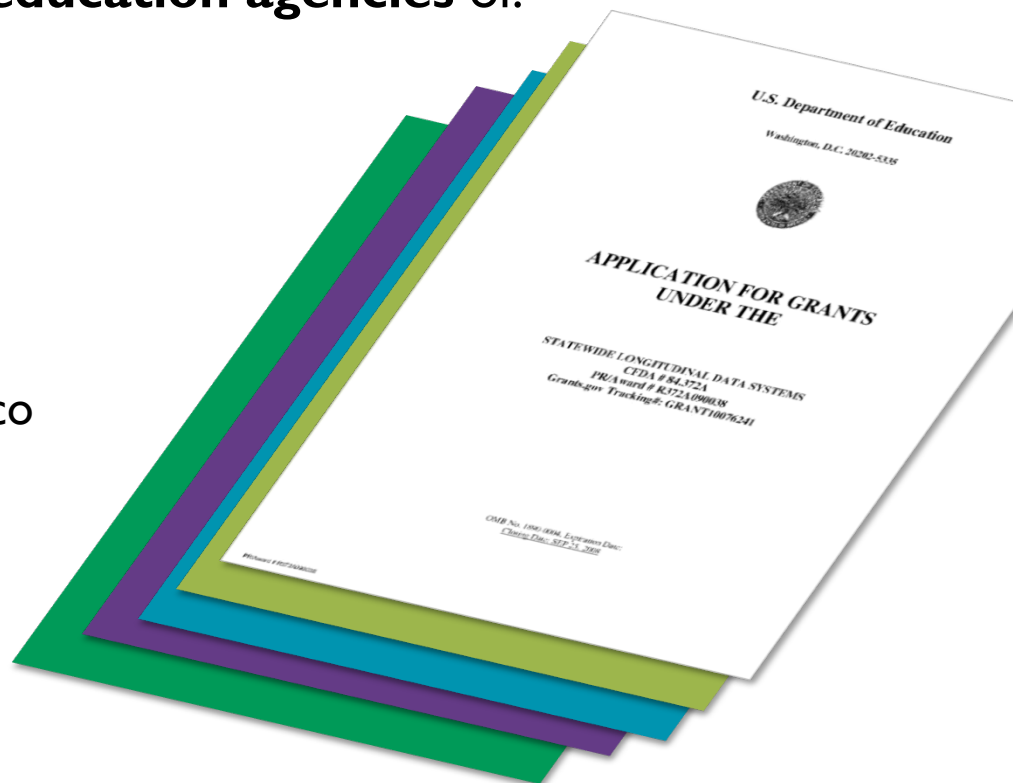- District of Columbia

- Commonwealth of Puerto Rico

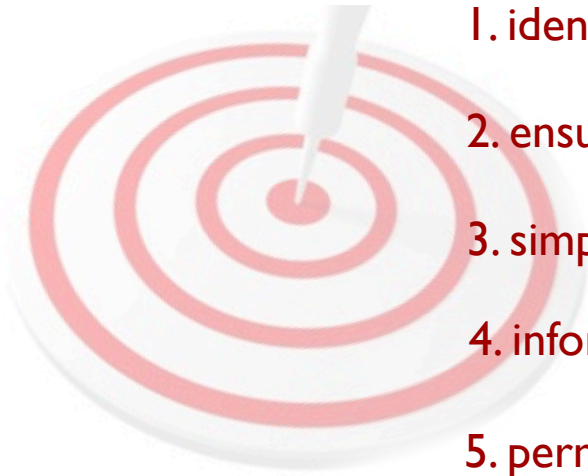- U.S. Virgin Islands

- American Samoa

- Guam

- Commonwealth of the Northern Mariana Islands

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Goals of the Program

Enable grantees to design, develop, and implement SLDSs to *efficiently and accurately manage, analyze, disaggregate, report, and use individual student P-20W (early childhood through workforce) data*.

Long-term goals of the program are to:

1. identify what works to improve instruction

2. ensure grads are equipped for long-term success

3. simplify reporting and increase transparency

4. inform decisionmaking at all levels of education

5. permit creation and use of accurate, timely P-20W data

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Grant Awards Status

To date, 47 states, DC, PR, and VI have been awarded SLDS grants totaling $613M:

- **1st Round (FY06)**: Nov. 2005 – 14 grantees awarded over $52M

- **2nd Round (FY07)**: June 2007 – 13 grantees awarded over $62M

- **3rd Round (FY09)**: April 2009 – 27 grantees awarded over $150M

- **4th Round (FY09 ARRA)**: May 2010 – 20 states awarded $250M under American Reinvestment and Recovery Act (ARRA)

- **5th Round (FY12)**: May 2012 – 24 grantees awarded over $97M

Pie chart segments:
- FY06 $52M
- FY07 $62M
- FY09 $150M
- FY09 ARRA $250M
- FY12 $97M

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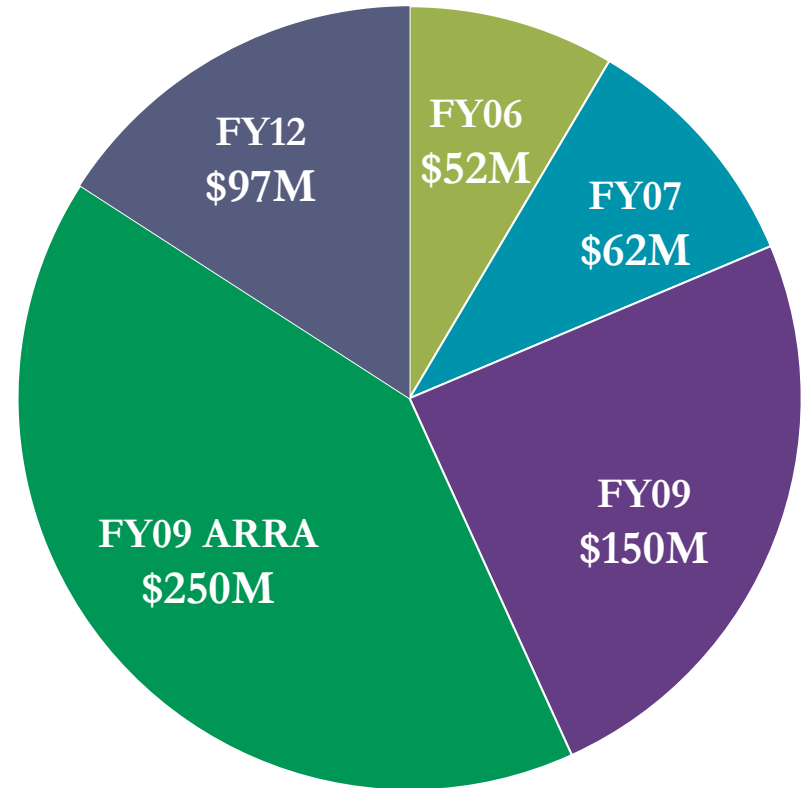
SLDS Grants - Round 5

- Three priorities in FY 2012 (one only):
  - design, develop, and implement a statewide, longitudinal kindergarten through grade 12 (K-12) data system
  - develop and link early childhood data with the State's K-12 data system
  - develop and link postsecondary and/or workforce data with the State's K-12 data system.
- 3-year grants of no more than $5 million for Priority 1 and no more than $4 million for Priorities 2 and 3.
- FY2009 ARRA grantees not eligible for grants under this competition (20 states).
- Applications from SEAs only.

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Grant Awards Status
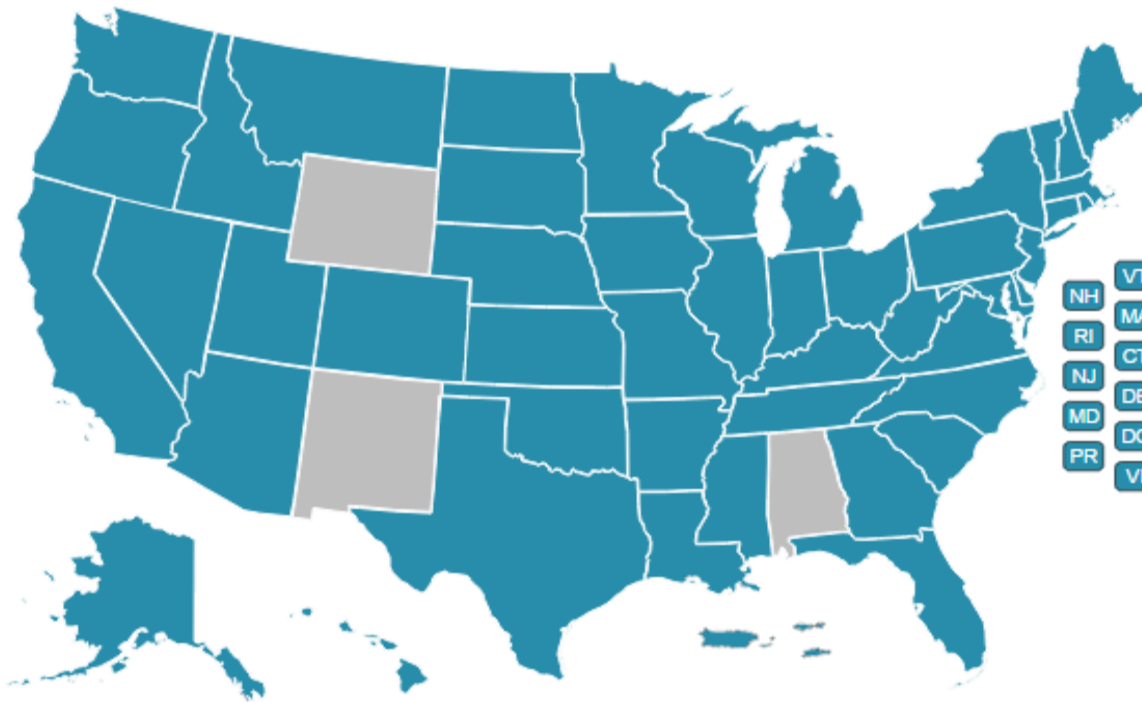
Connecticut:	2009	$2,937,416	2006	$1,500,714
Maine:	2009 ARRA	$7,315,000	2007	$3,227,231
Massachusetts:	2009 ARRA	$12,972,730	2009	$5,993,464
New Hampshire:	2012	$4,989,391	2007	$3,176,272
Vermont:	2012	$4,947,261		

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Best Practices Resources

SLDS publications designed to meet state needs:

- stakeholder engagement

- alternative sources of support

- vendor engagement

- early warning systems

- regional service centers

- P-20W data modeling

- effective use of early childhood data
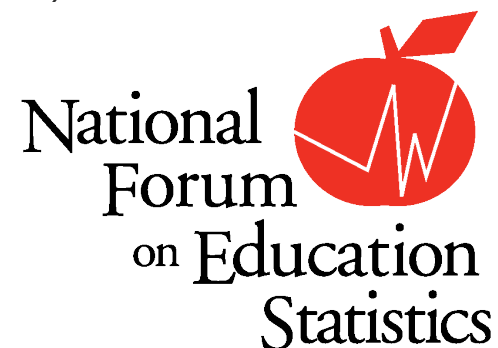
- statewide standardized course codes

    …and more.

For PDFs, visit: http://nces.ed.gov/programs/SLDS/best_practices.asp.

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Best Practices Resources *(continued)*

Traveling Through Time:

The Forum Guide to LDSs (series)

National
Forum
on Education
Statistics

- What is an LDS?

- Planning and Developing an LDS

- Effectively Managing LDS Data

- Advanced LDS Usage

For PDFs and **free** copies, visit: http://nces.ed.gov/forum/publications.asp.
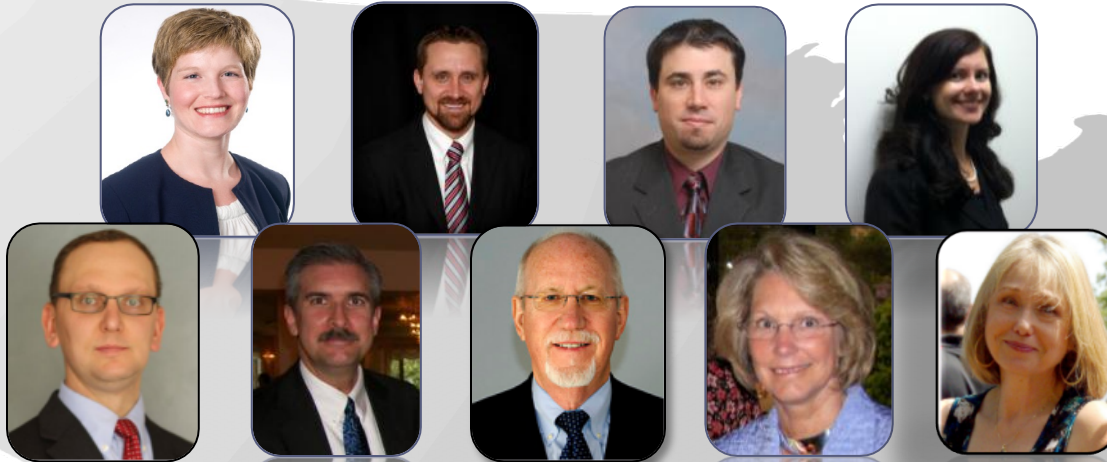
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Personnel Exchange Network
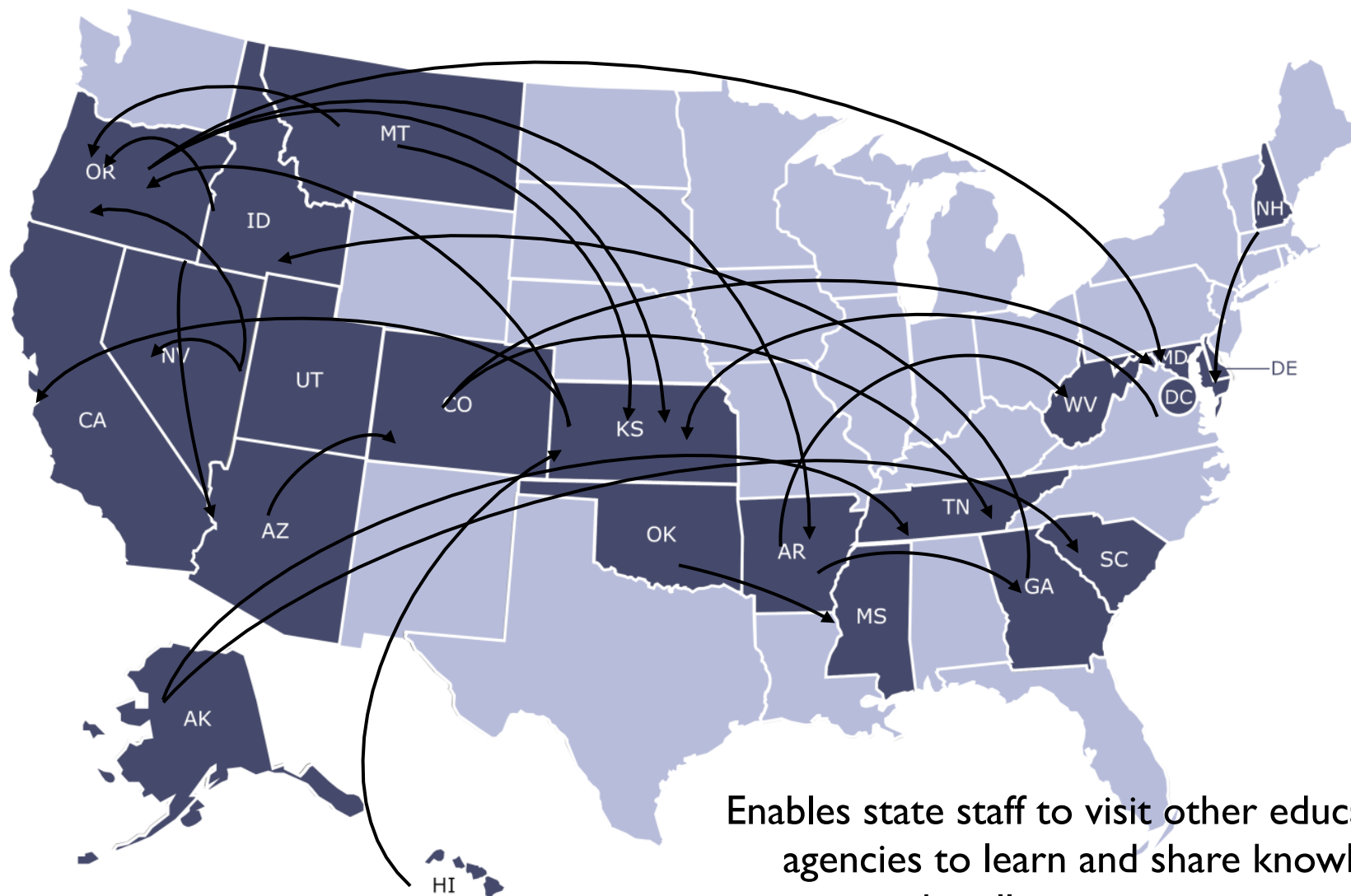
Enables state staff to visit other education agencies to learn and share knowledge with colleagues across state lines.

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State Support Team (SST)

Technical assistance is available to all states from a team of
data systems experts.

State Support Team (SST)
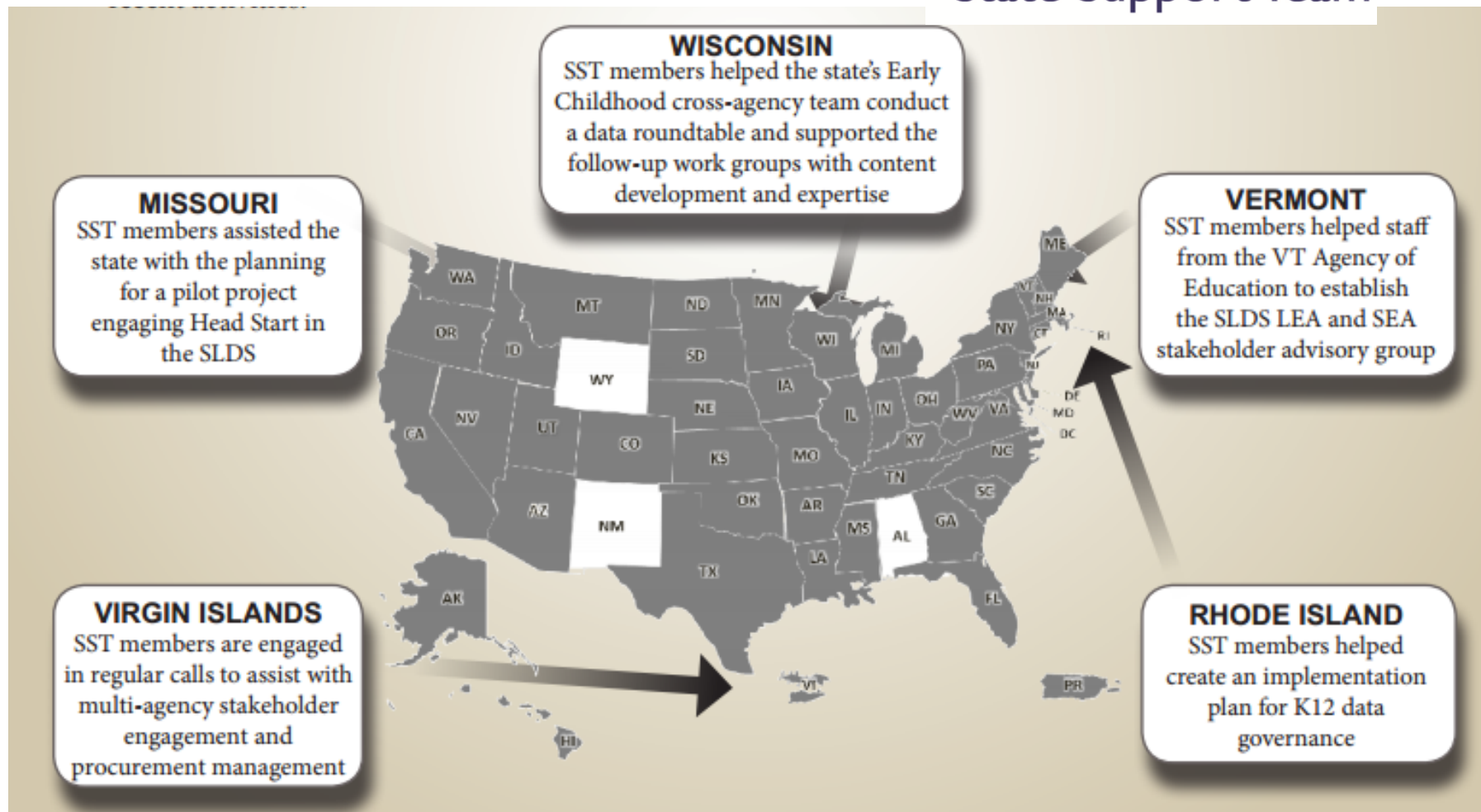
Topical Workgroups

- States collaborate on areas of common interest.

- States convene to identify challenges & solutions, and share best practices.

- Publications for broader SLDS community often result.

- Workgroups have addressed:
  - ✓ early childhood project planning and management
  - ✓ instructional improvement systems
  - ✓ student growth
  - ✓ interoperability
  - ✓ e-transcripts
  - ✓ P-20W

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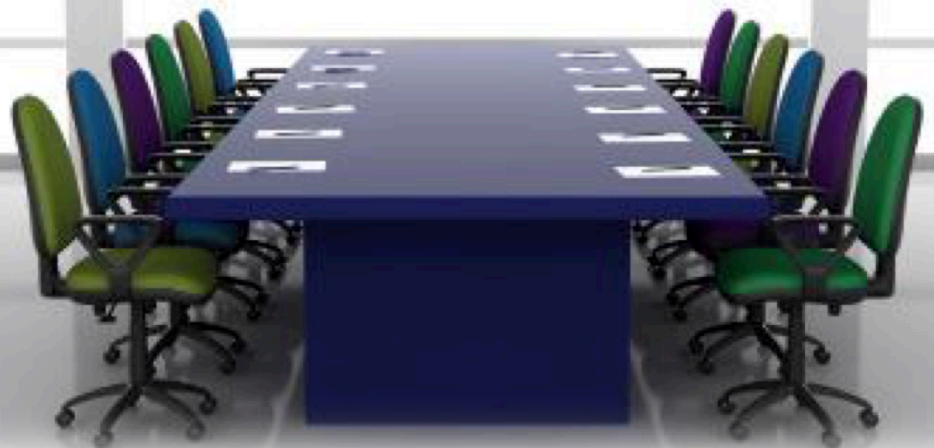
Lessons Learned:
Successful Strategies for SLDS Development

"It's not just an IT project"

"State-managed, locally-operated"

"Policy drives IT, not the other way around"

"Know who your customers are"

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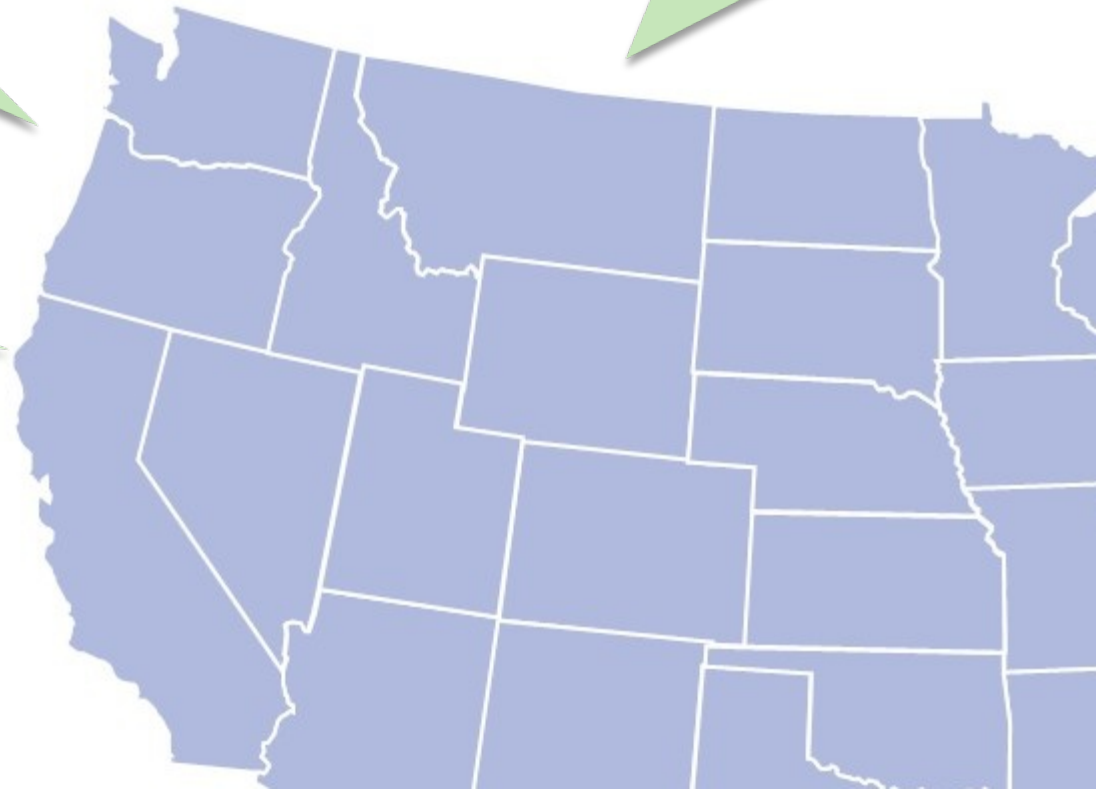
Living in the Era of Big Data
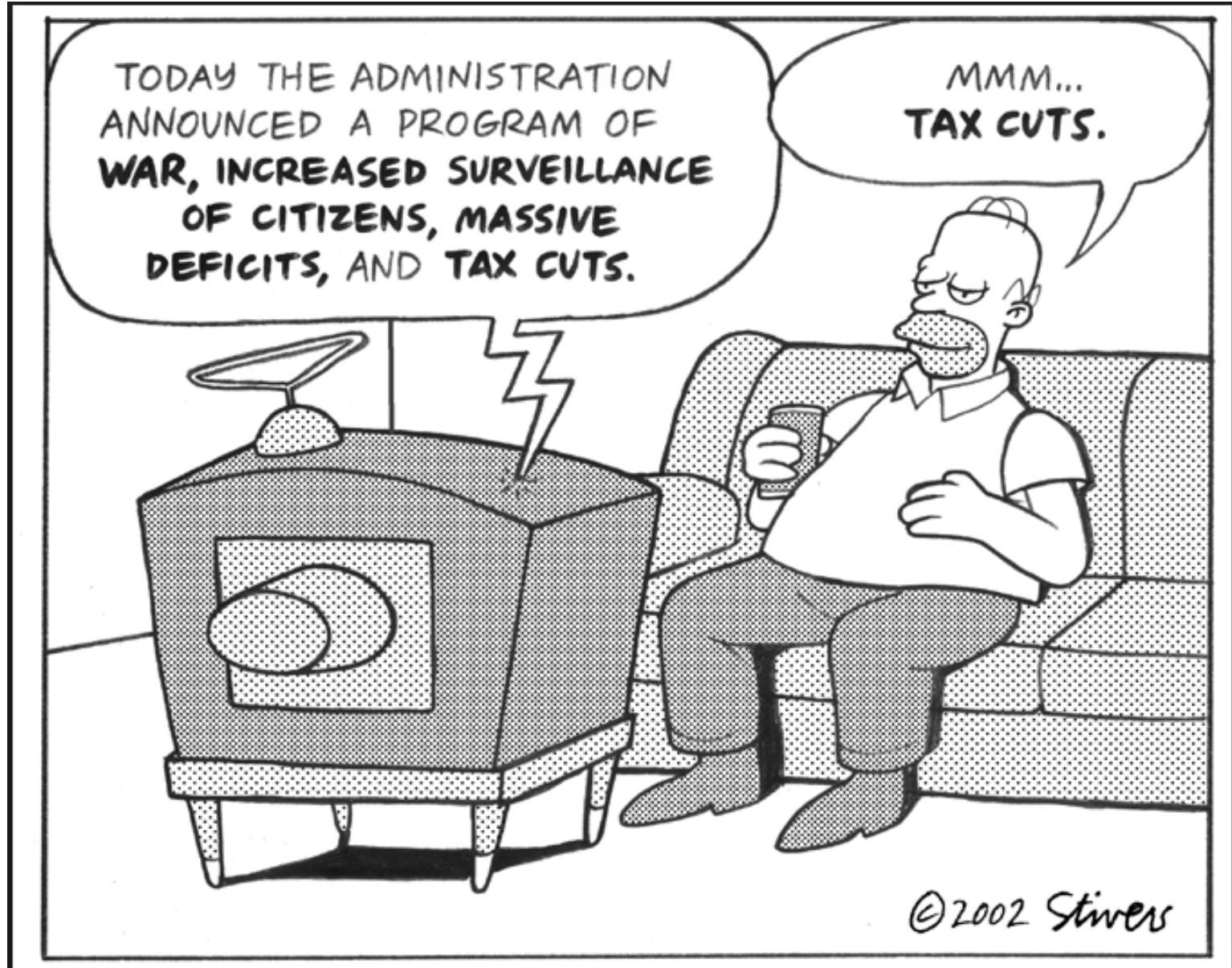
The State of

State Postsecondary

Data Systems

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State Postsecondary Unit Record Data Systems:
Where and What?

State postsecondary SUR data systems are found within:

– state boards of higher education (coordinating and governing boards)

– state boards of education

– state financial aid agencies/entities

– state budget agencies, and

– state labor/workforce agencies

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Age of Systems is Wide Ranging

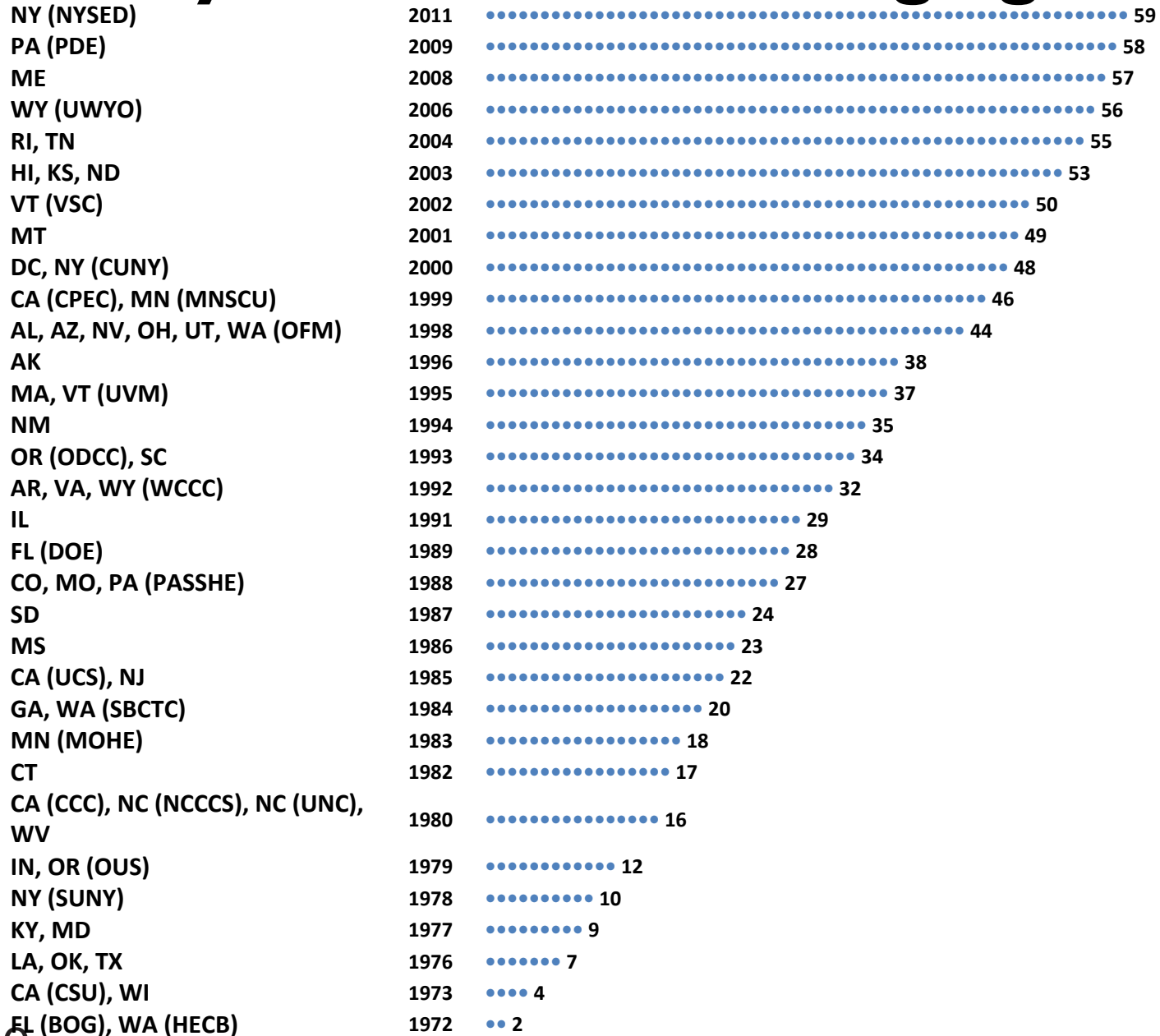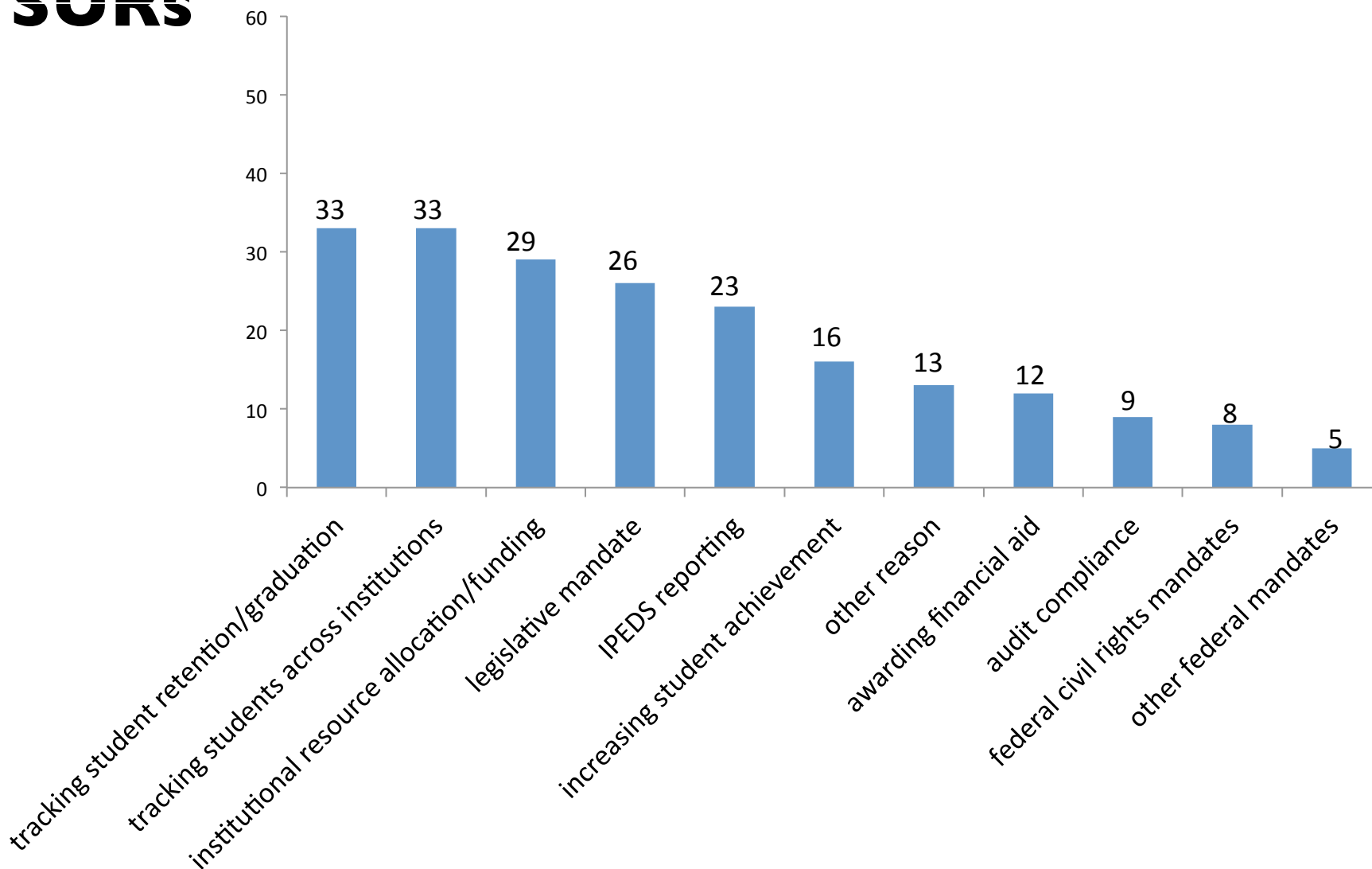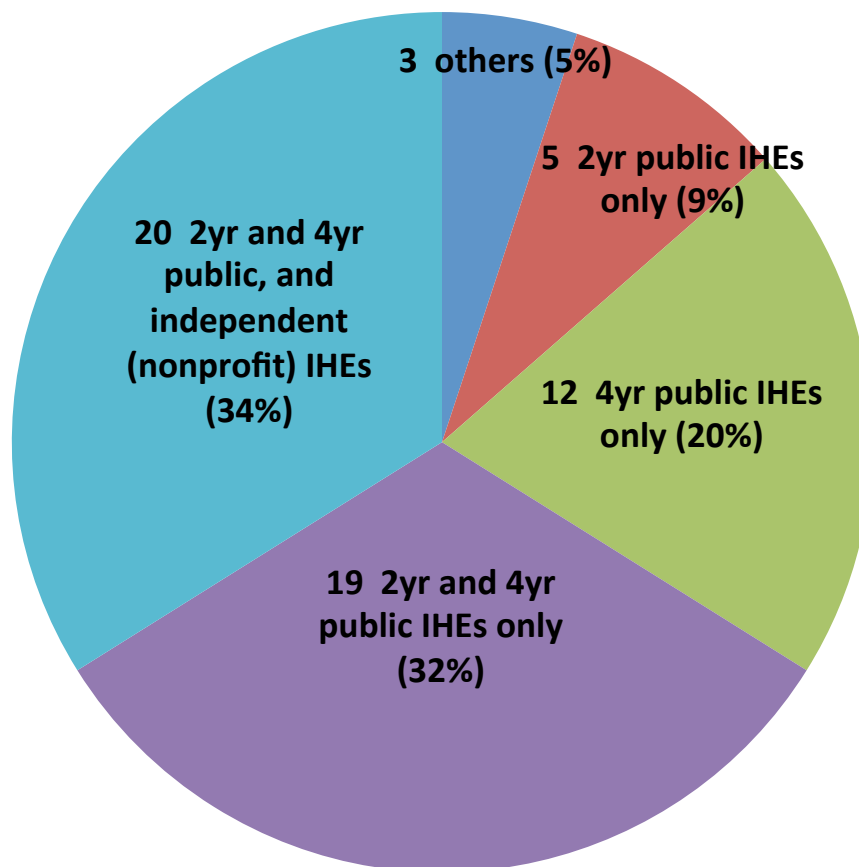| System	Year		Count
NY (NYSED)	2011	••	59
PA (PDE)	2009	••	58
ME	2008	•••	57
WY (UWYO)	2006	••	56
RI, TN	2004	••	55
HI, KS, ND	2003	••	53
VT (VSC)	2002	••	50
MT	2001	••	49
DC, NY (CUNY)	2000	•••	48
CA (CPEC), MN (MNSCU)	1999	•••	46
AL, AZ, NV, OH, UT, WA (OFM)	1998	••	44
AK	1996	•••••••••••••••••••••••••••••••••••••	38
MA, VT (UVM)	1995	••••••••••••••••••••••••••••••••••••	37
NM	1994	•••••••••••••••••••••••••••••••••	35
OR (ODCC), SC	1993	••••••••••••••••••••••••••••••••	34
AR, VA, WY (WCCC)	1992	••••••••••••••••••••••••••••••	32
IL	1991	•••••••••••••••••••••••••••	29
FL (DOE)	1989	••••••••••••••••••••••••••	28
CO, MO, PA (PASSHE)	1988	•••••••••••••••••••••••••	27
SD	1987	••••••••••••••••••••••	24
MS	1986	•••••••••••••••••••••	23
CA (UCS), NJ	1985	••••••••••••••••••••	22
GA, WA (SBCTC)	1984	••••••••••••••••••	20
MN (MOHE)	1983	••••••••••••••••	18
CT	1982	•••••••••••••••	17
CA (CCC), NC (NCCCS), NC (UNC), WV	1980	••••••••••••••	16
IN, OR (OUS)	1979	••••••••••	12
NY (SUNY)	1978	•••••••••	10
KY, MD	1977	••••••••	9
LA, OK, TX	1976	•••••••	7
CA (CSU), WI	1973	••••	4
FL (BOG), WA (HECB)	1972	••	2

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Multiple Reasons for Creating State SURs

Reason	Count
tracking student retention/graduation	33
tracking students across institutions	33
institutional resource allocation/funding	29
legislative mandate	26
IPEDS reporting	23
increasing student achievement	16
other reason	13
awarding financial aid	12
audit compliance	9
federal civil rights mandates	8
other federal mandates	5

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Institutional Coverage

Pie chart:
- 3 others (5%)
- 5 2yr public IHEs only (9%)
- 12 4yr public IHEs only (20%)
- 19 2yr and 4yr public IHEs only (32%)
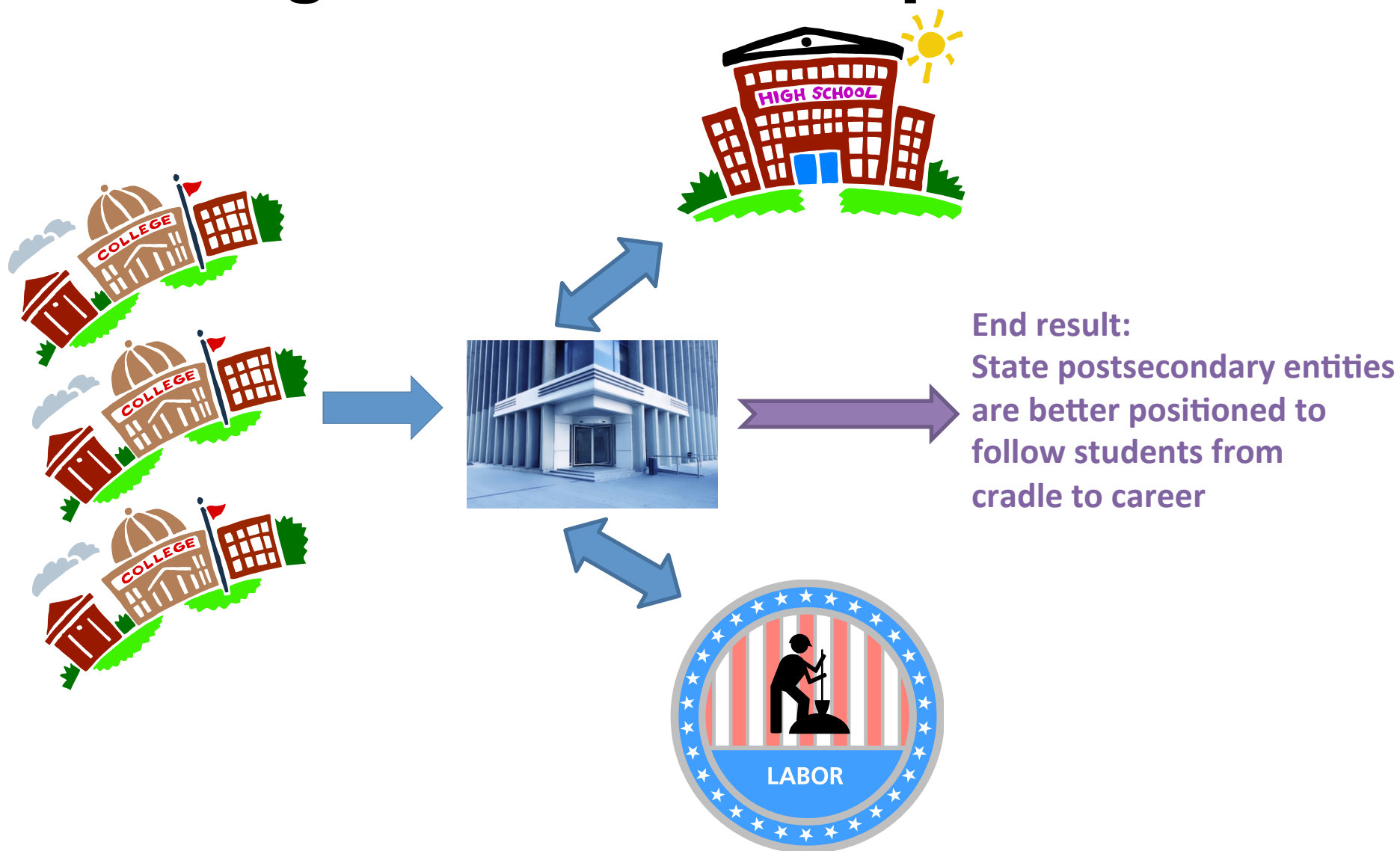- 20 2yr and 4yr public, and independent (nonprofit) IHEs (34%)
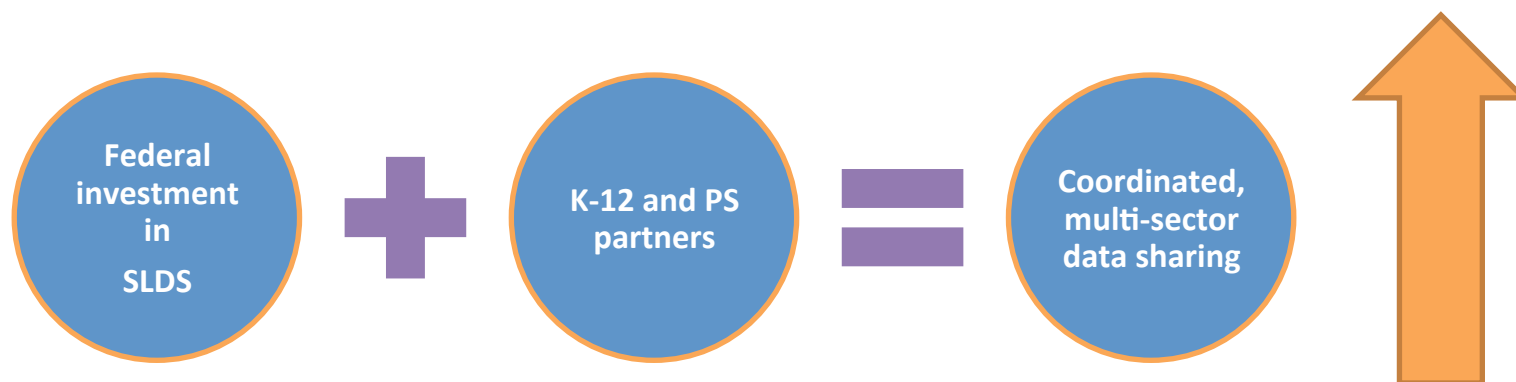
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2012 Update: Background and Scope

- Focus of the update was on data sharing activities

- 58 respondents from 44 states and the District of Columbia

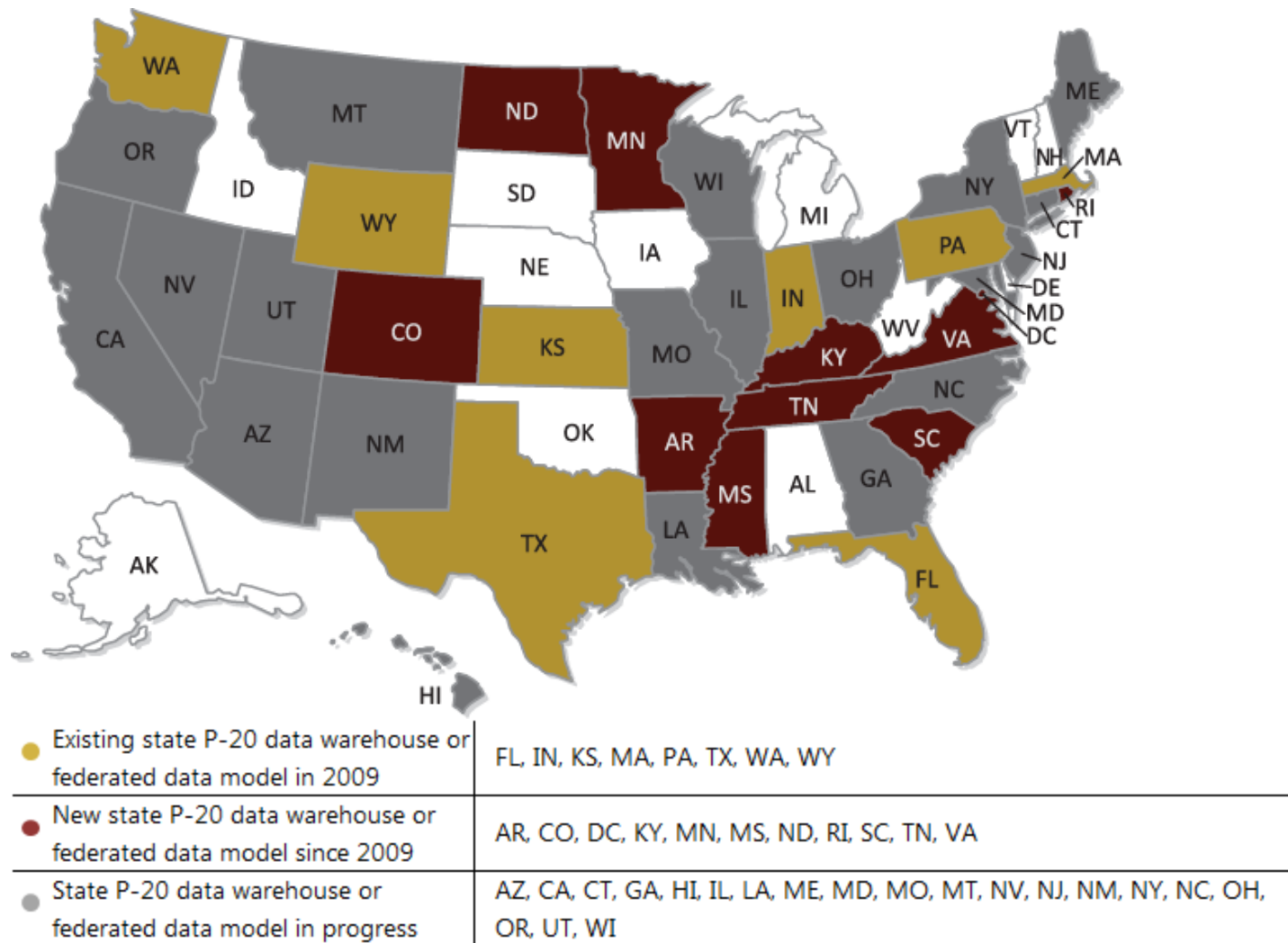- Includes 9 states with more than one state postsecondary agency/entity

WA 3

WY 2

OR 2

MN 2

NY 3

PA 2

VT 2

NC 2

FL 2

Findings from the 2012 Update

End result:
State postsecondary entities are better positioned to follow students from cradle to career

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Findings from the 2012 Update

Federal investment in SLDS **+** **K-12 and PS partners** **=** **Coordinated, multi-sector data sharing**

In at least **30 of 39** states with coordinated data sharing, the influence of SLDS grants <u>cannot</u> be understated in the creation of state P-20 data warehouses or federated data models

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Coordinated, multi-sector data sharing, 2009-2012

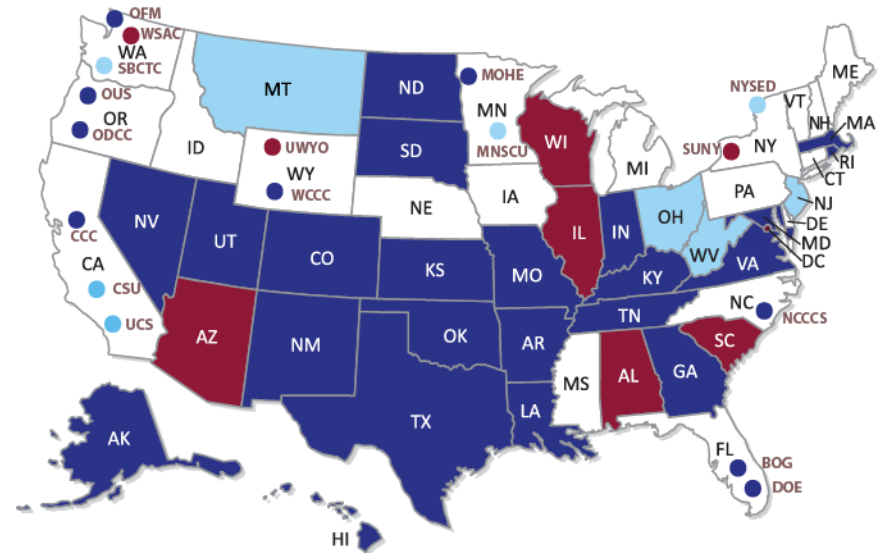|	
● Existing state P-20 data warehouse or federated data model in 2009	FL, IN, KS, MA, PA, TX, WA, WY
● New state P-20 data warehouse or federated data model since 2009	AR, CO, DC, KY, MN, MS, ND, RI, SC, TN, VA
● State P-20 data warehouse or federated data model in progress	AZ, CA, CT, GA, HI, IL, LA, ME, MD, MO, MT, NV, NJ, NM, NY, NC, OH, OR, UT, WI

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Extent of postsecondary data sharing across the board

State Postsecondary Agencies/Entities Engaged in Data Sharing with Other State Agencies/Entities	Number of States	Number of SURs
One or more agencies/entities within state	45	56
State education agency (K-12)	40	46
State labor/workforce agency	38	44
State financial aid agency	16	19
Other agency/entity	13	15
Coordinating/governing board of higher education	13	15
Pre-K/early childhood agency	8	8
Human services agency	8	9
Foster care agency	5	6
Motor vehicle division/department	5	5
Health agency	4	4
Juvenile detention	3	3
Corrections	3	3
Child protective services agency	2	2

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Data sharing with K-12, labor, or both

2009...that was then

● K-12 only	AL, DC, HI, LA, MA, NY(CUNY), OR(OUS), PA(PASSHE), SD, WY(UWYO)
● Labor only	IN, MN(MNSCU), MS, MT, OH, OK, RI, VA, WA(SBCTC), WV
● Both	AK, CA(CCC), FL(BOG,DOE), GA, KS, KY, MD, MO, NV, NM, NC(NCCCS), ND, OR(ODCC), TX, UT, WA(OFM)

2012...this is now

● K-12 only	AL, AZ, DC, IL, NY(SUNY), SC, WA(WSAC), WI, WY(UWYO)
● Labor only	CA(CSU,UCS), MN(MNSCU), MT, NJ, NY(NYSED), OH, WA(SBCTC), WV
● Both	AK, AR, CA(CCC), CO, FL(BOG,DOE), GA, HI, IN, KS, KY, LA, MD, MA, MN(MOHE),MO, NV, NM, NC(NCCCS), ND, OK, OR(ODCC,OUS), RI, SD, TN, TX, UT, VA, WA(OFM), WY(WCCC)

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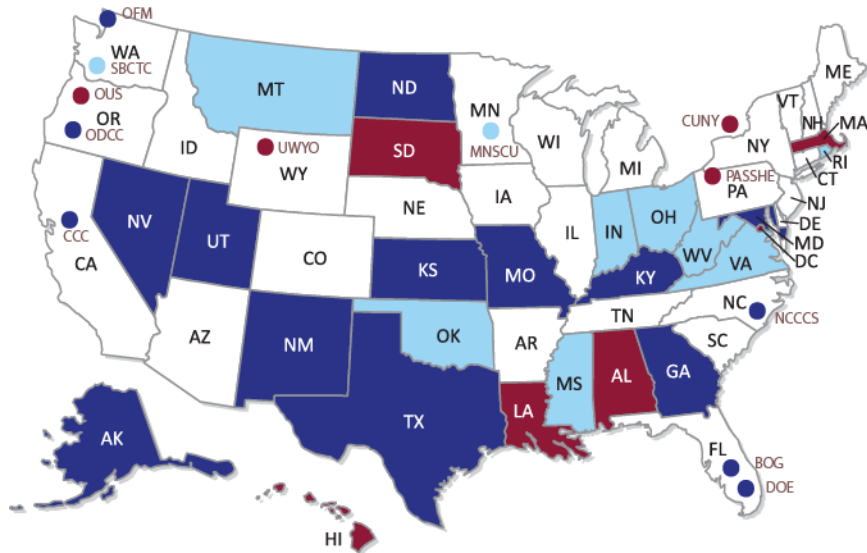
Data sharing _in progress_ (in 2012) with K-12, labor, or both

2009...that was then
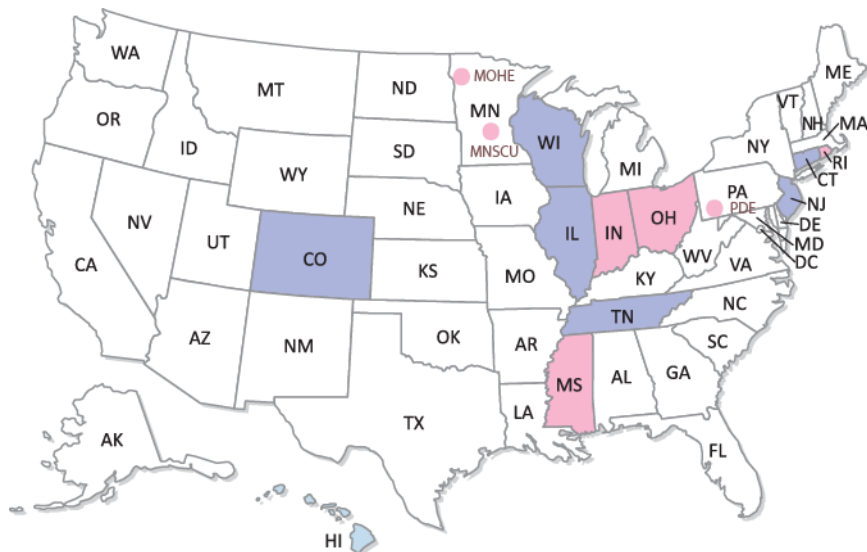
● K-12 in progress	IN, MN(MOHE,MNSCU), MS, OH, PA(PDE), RI
● Labor in progress	HI
● Both in progress	CO, CT, IL, NJ, TN, WI

2012...this is now
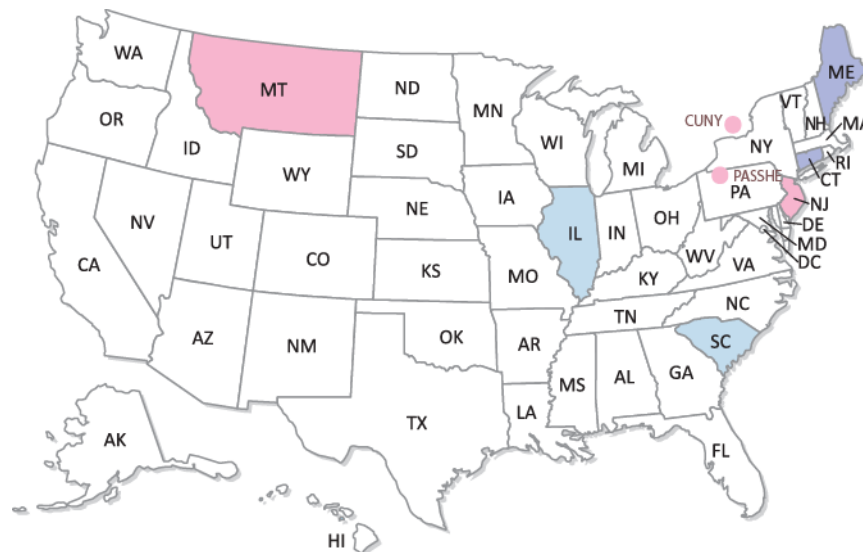
● K-12 in progress	MT, NJ, NY(CUNY), PA(PASSHE)
● Labor in progress	IL, SC
● Both in progress	CT, ME

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States with access to elements from K-12

2009...that was then
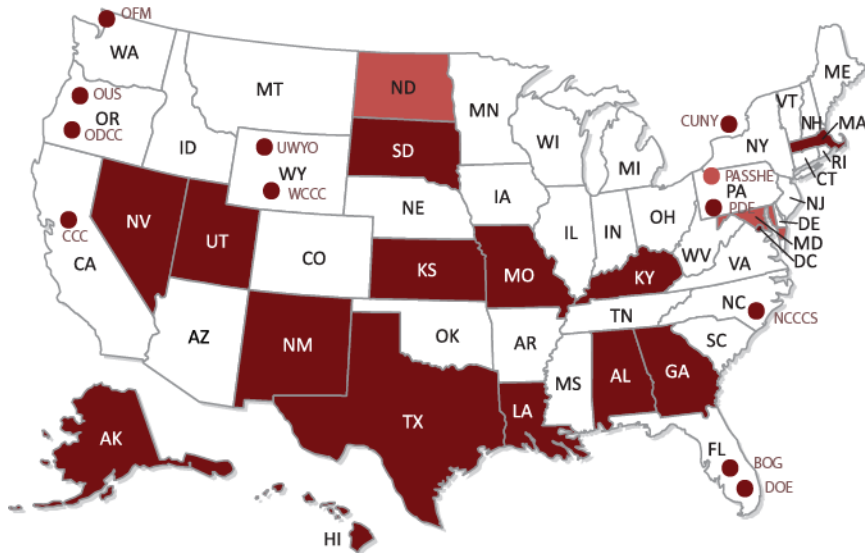
2012...this is now

Access to K-12 agency data elements	AL, AK, CA(CCC), DC, FL(BOG,DOE),GA, HI, KS, KY, LA, MA, MO, NV, NM, NY(CUNY), NC(NCCCS), OR(ODCC,OUS), PA(PDE), SD, TX, UT, WA(OFM), WY(UWYO,WCCC)
Share data with K-12 agency, but no access to elements from agency	MD, ND, PA(PASSHE)
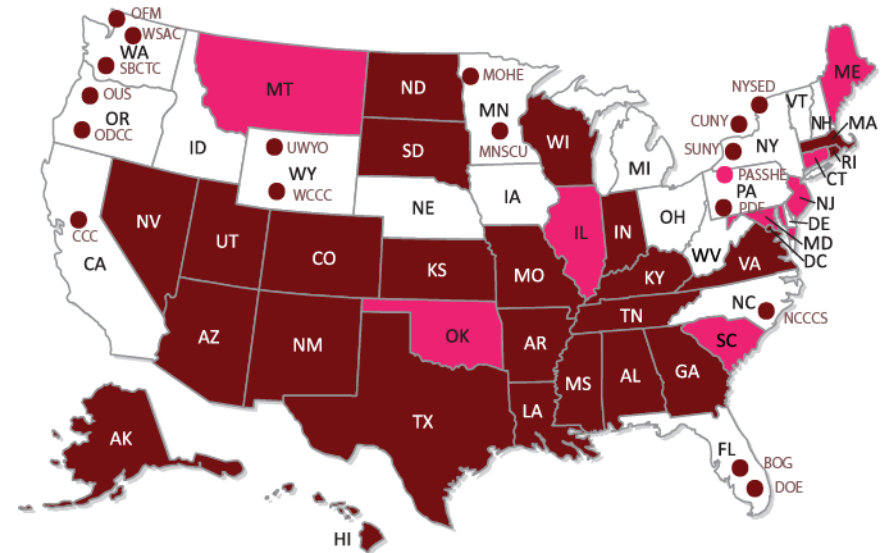
|	
Access to K-12 agency data elements	AL, AK, AZ, AR, CA(CCC), CO, DC, FL(BOG,DOE), GA, HI, IN, KS, KY, LA, MA, MN(MOHE,MNSCU), MS, MO, NV, NM, NY(CUNY, NYSED,SUNY), NC(NCCCS), ND, OR(ODCC,OUS), PA(PDE), RI, SD, TN, TX, UT, VA, WA(OFM,SBCTC,WSAC), WI, WY(UWYO,WCCC)
In the process of obtaining access to K-12 agency data elements	CT, IL, ME, MD, MT, NJ, OK, PA(PASSHE), SC

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States with access to elements from labor

2009…that was then
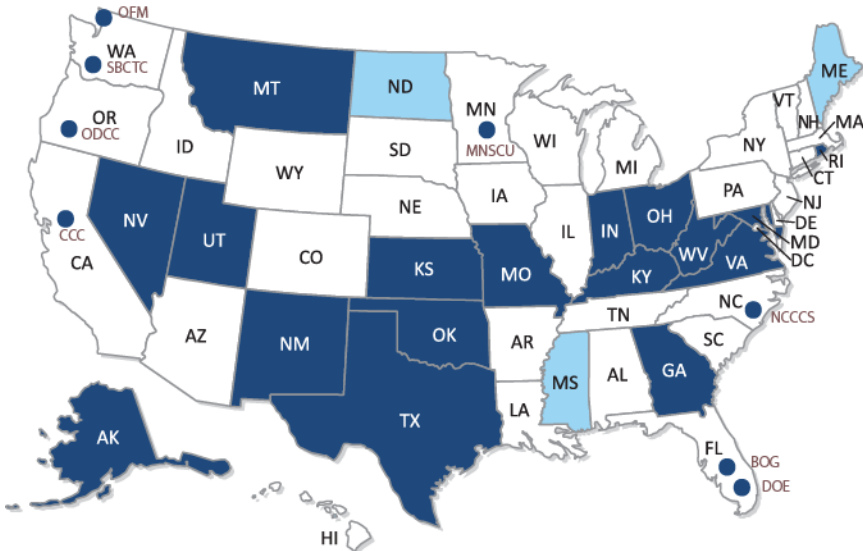
|	
● Access to labor agency data elements	AK, CA(CCC), FL(BOG,DOE), GA, IN, KS, KY, MD, MN(MNSCU), MO, MT, NV, NM, NC(NCCCS), OH, OK, OR(ODCC), RI, TX, UT, VA, WA(OFM,SBCTC), WV
● Share data with labor agency, but no access to elements from agency	ME, MS, ND

2012…this is now
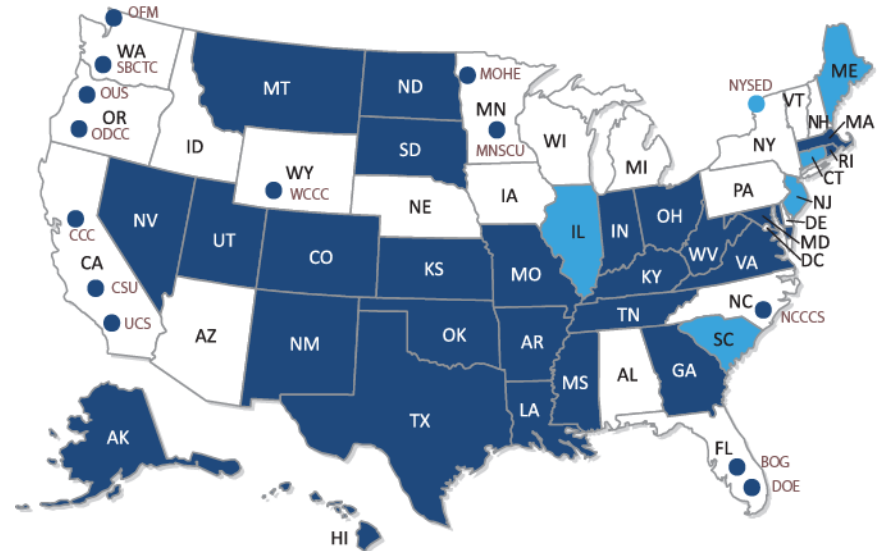
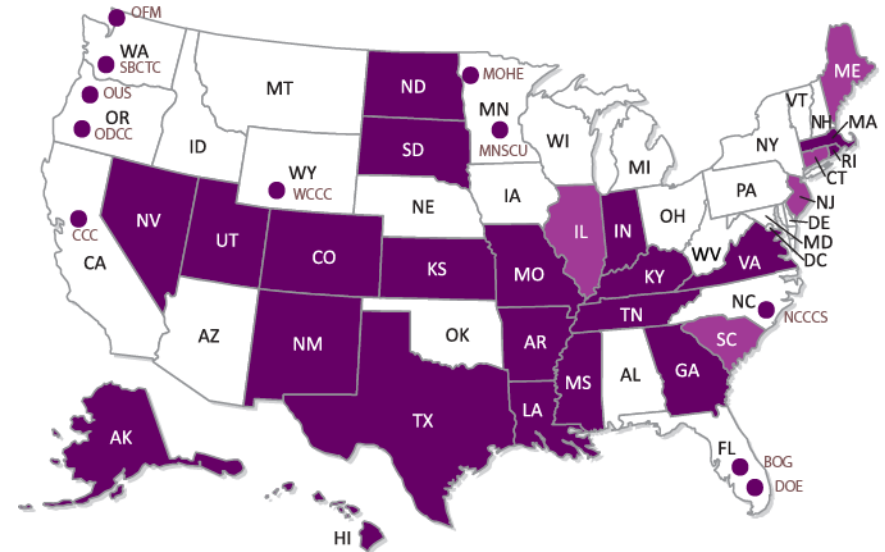|	
● Access to labor agency data elements	AK, AR, CA(CCC,CSU,UCS), CO, FL(BOG,DOE), GA, HI, IN, KS, KY, LA, MD, MA, MN(MOHE,MNSCU), MS, MO, MT, NV, NM, NC(NCCCS), ND, OH, OK, OR(ODCC,OUS), RI, SD, TN, TX, UT, VA, WA(OFM, SBCTC), WV, WY(WCCC)
● In the process of obtaining access to labor agency data elements	CT, IL, ME, NJ, NY(NYSED), SC

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Access to elements from both K-12 & labor

2009...that was then
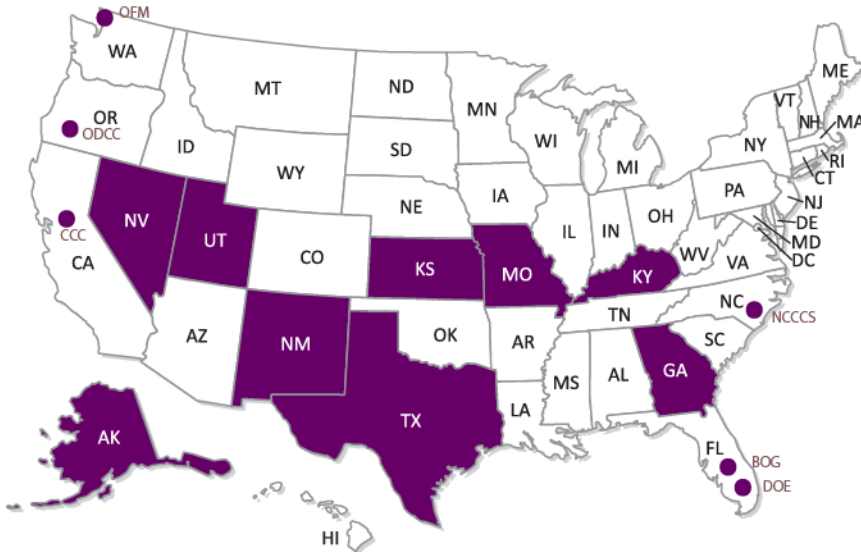
| ●	Access to K-12 and labor agency data elements	AK, CA(CCC), FL(BOG,DOE), GA, KS, KY, MO, NV, NM, NC(NCCCS), OR(ODCC), TX, UT, WA(OFM)
●	In the process of obtaining access to both K-12 and labor agency elements	not applicable (2009 survey did not include this question)

2012...this is now

| ●	Access to K-12 and labor agency data elements	AK, AR, CA(CCC), CO, FL(BOG,DOE), GA, HI, IN, KS, KY, LA, MA, MN(MOHE,MNSCU), MS, MO, NV, NM, NC(NCCCS), ND, OR(ODCC,OUS), RI, SD, TN, TX, UT, VA, WA(OFM,SBCTC), WY(WCCC)
●	In the process of obtaining access to both K-12 and labor agency elements	CT, IL, ME, NJ, SC

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Access to K-12 elements by the numbers
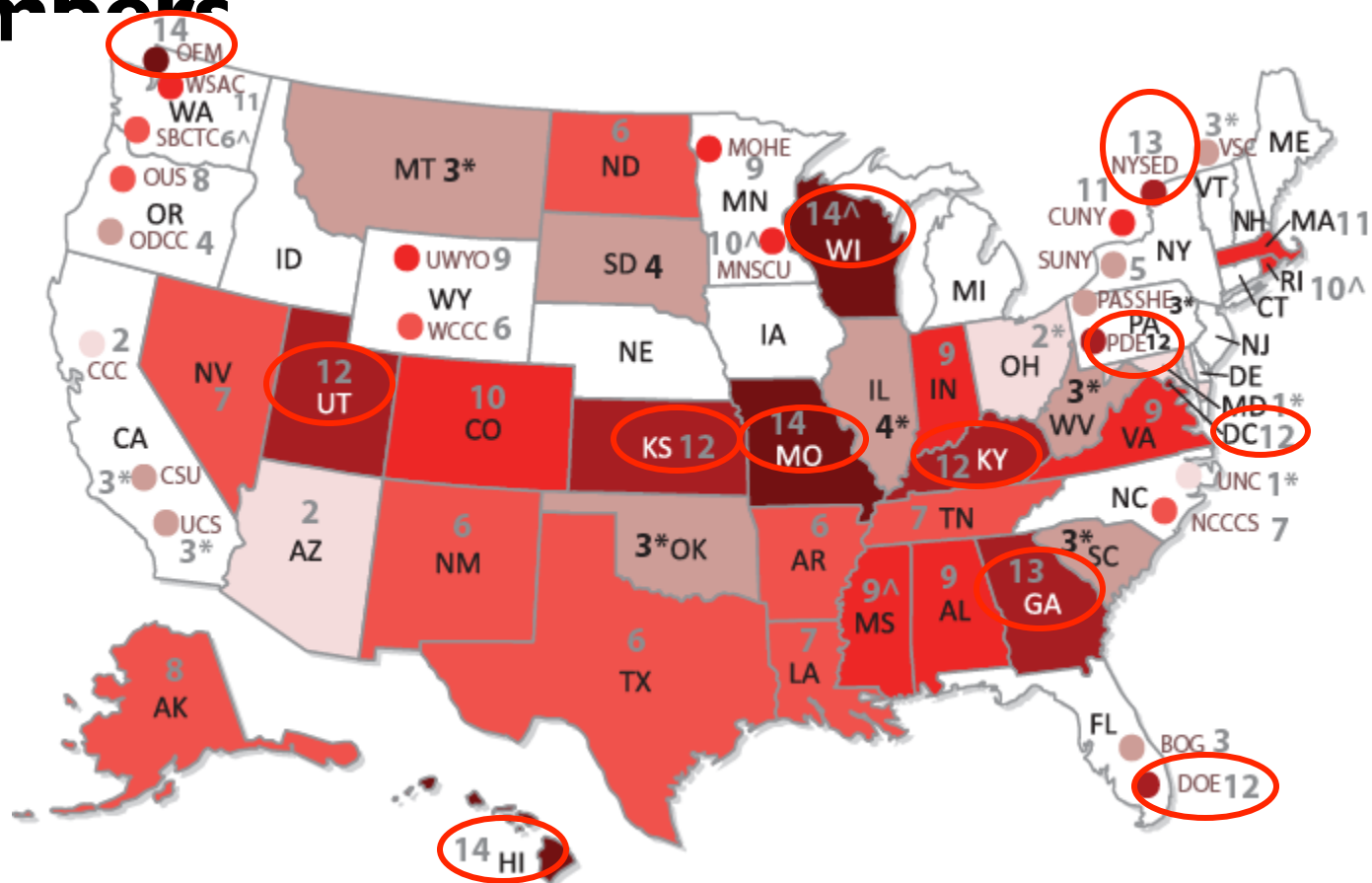
# of elements accessed	States
14	HI, MO, WA(OFM), WI
12 to 13	DC, FL(DOE), GA, KS, KY, NY(NYSED), PA(PDE), UT
9 to 11	AL, CO, IN, MA, MN(OHE,MNSCU), MS, NY(CUNY), RI, VA, WA(WSAC), WY(UWYO)
6 to 8	AK, AR, LA, NC(NCCCS), ND, NM, NV, OR(OUS), TN, TX, WA(SBCTC), WY(WCCC)
3 to 5	CA(CSU,UCS), FL(BOG), IL, MT, NY(SUNY), OK, OR(ODCC), PA(PASSHE), SC, SD, VT(VSC), WV
1 to 2	AZ, CA(CCC), ME, MD, NC, NJ, OH

* via institutions of higher education (IHE) only   ^ via K-12 agency and IHE

Access to labor elements by the numbers
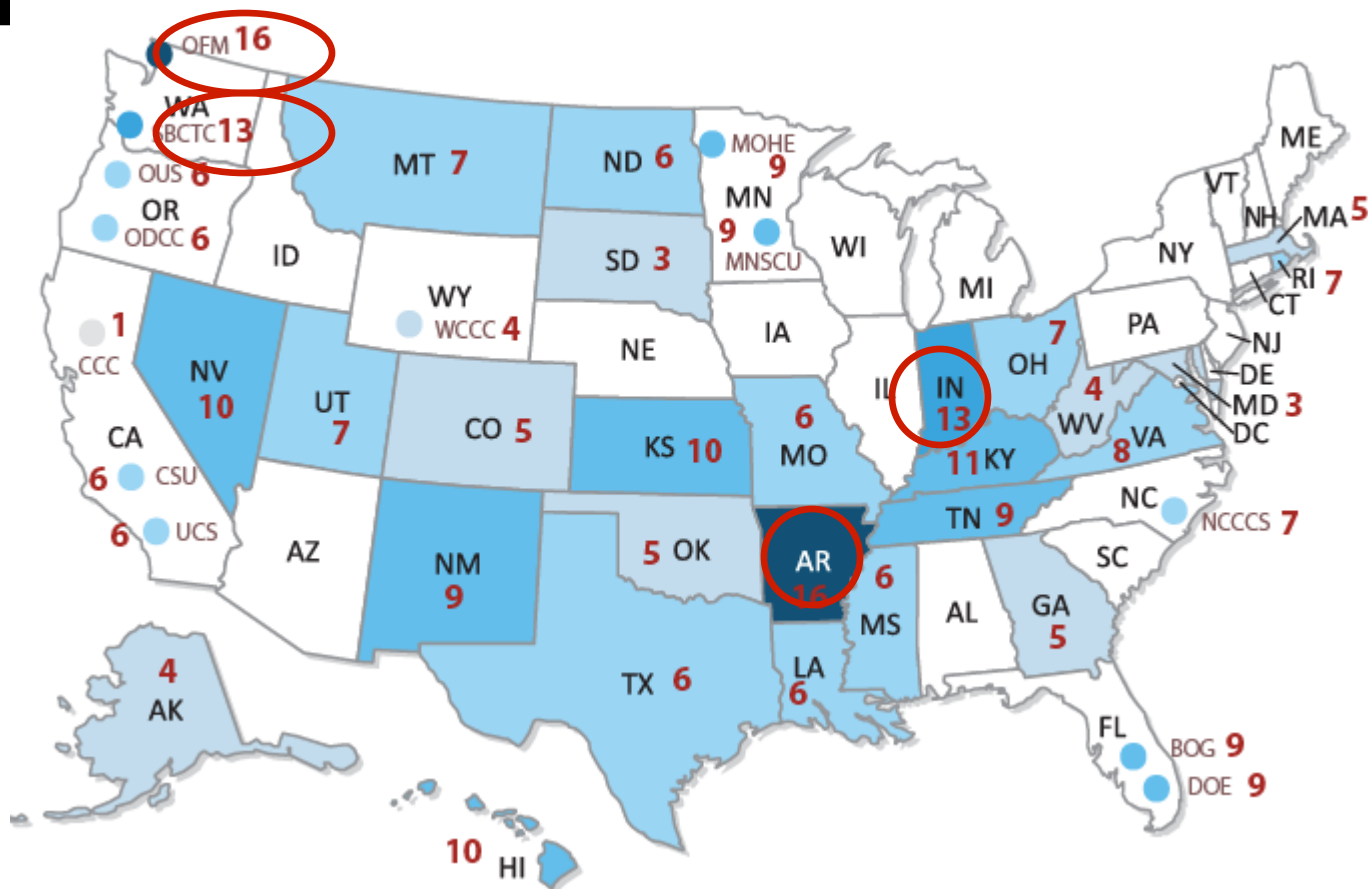
| # of elements accessed	States
16	AR, WA(OFM)
13	IN, WA(SBCTC)
9 to 11	FL(BOG,DOE), HI, KS, KY, MN(OHE,MNSCU), NM, NV, TN
6 to 8	CA(CSUS,UCS), LA, MS, MO, MT, NC(NCCCS), ND, OH, OR(ODCC,OUS), RI, TX, UT, VA
3 to 5	AK, CO, GA, MA, MD, OK, SD, WV, WY(WCCC)
1	CA(CCC)

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Roses and Thorns

Some examples using labor data

Average salaries of Arkansans 5 years after earning…

- a Technical Certificate $29,543

- an Associate's Degree $31,043

- a Bachelor's Degree $39,968

- a Master's Degree $50,598

ARKANSAS
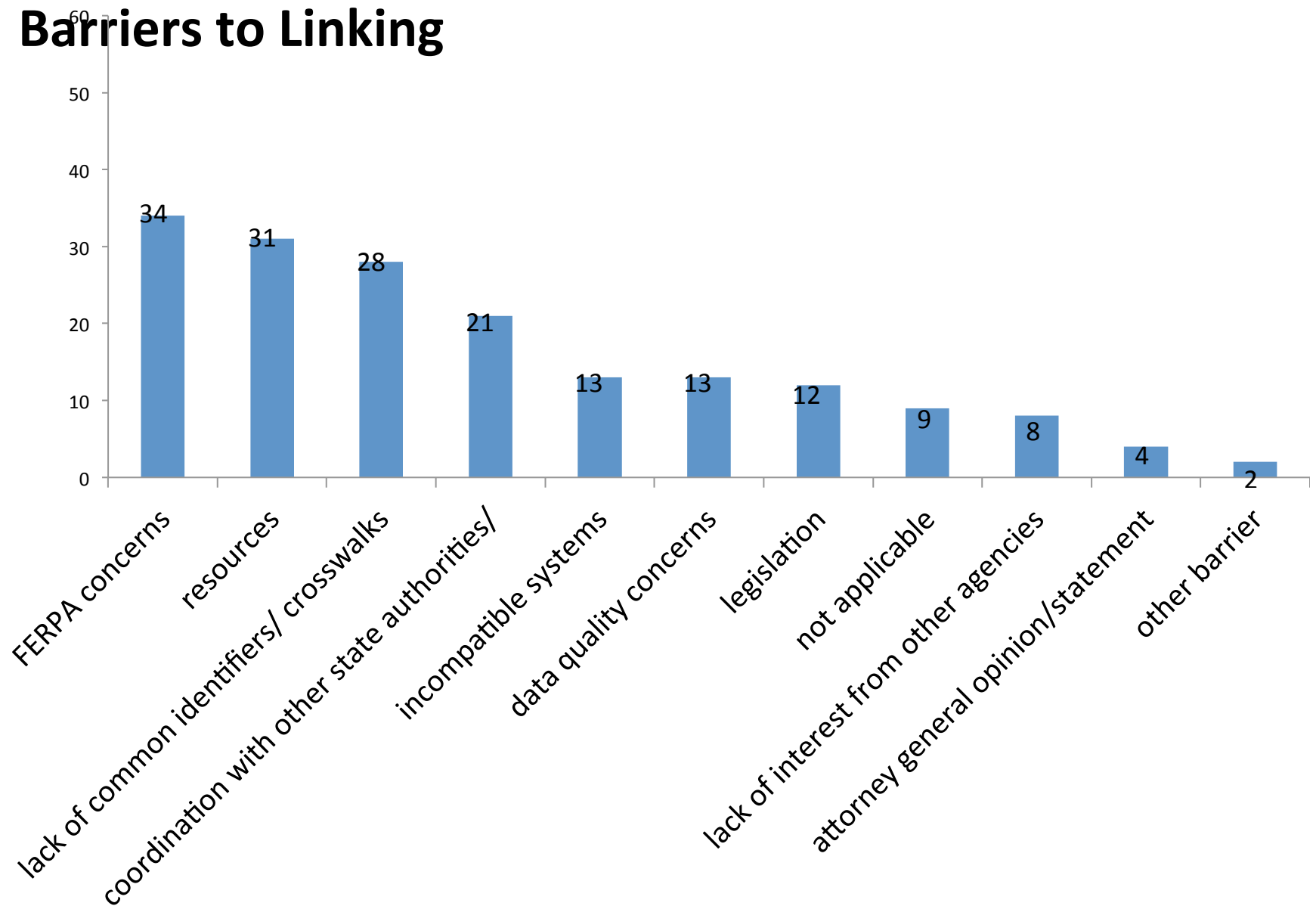RESEARCH CENTER

arc

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Utah's Health Graduates by Four Digit CIP into Industry Sectors
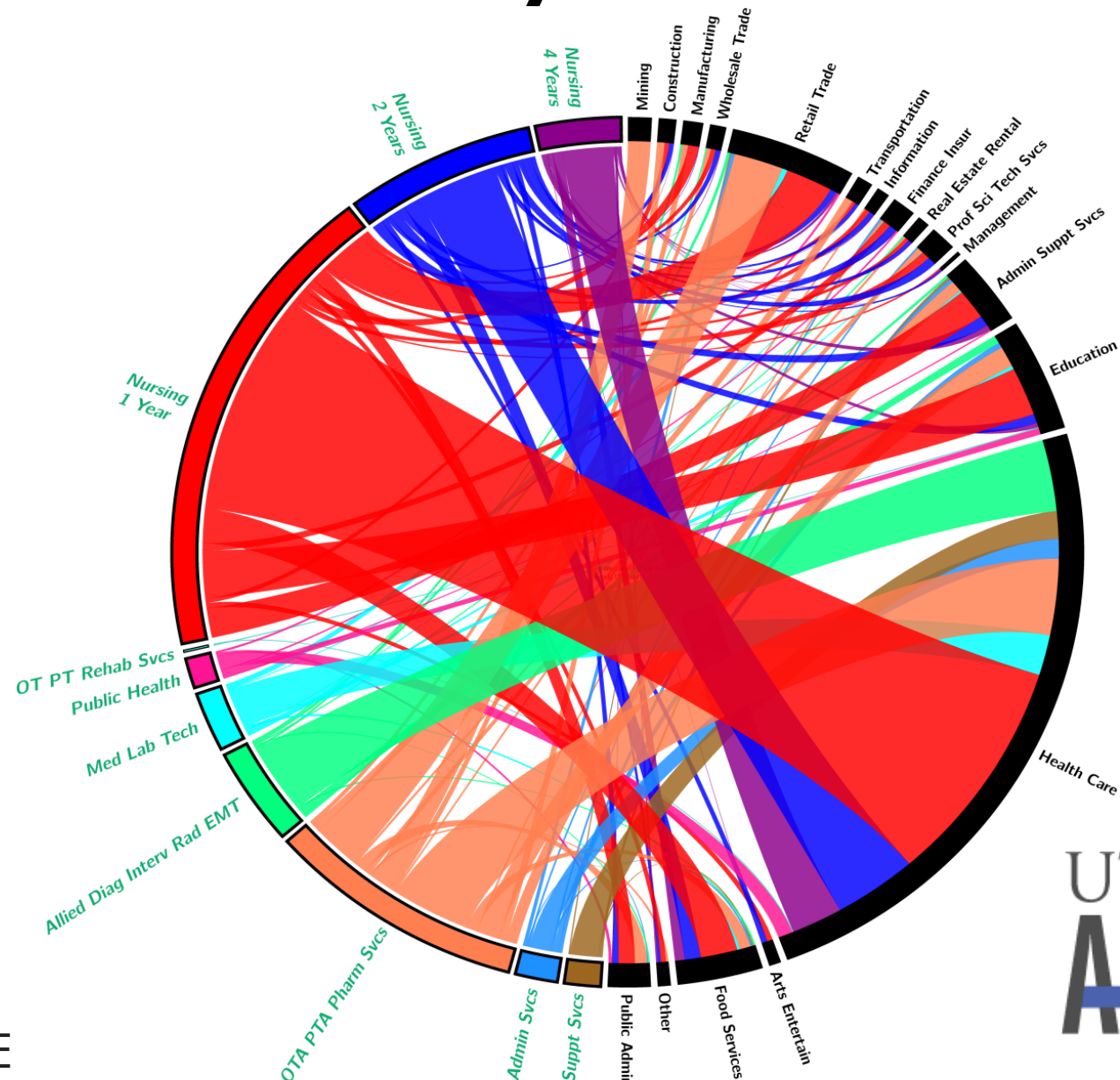
Conversation Time

2015 Update Underway

What would you find most useful?

Any questions, comments or feedback would be greatly appreciated!

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Thank You

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