## Leveraging State Longitudinal Data Systems and Collaboration to Conduct Equity-Based Research

2024 SHEEO Higher Education Policy Conference 08/06/2024 2:00p-3:00p



# Kentucky Center for Statistics



Uniting our data.

Informing our Commonwealth.



## **KYSTATS GOVERNING BOARD**

Education & Labor
Cabinet Secretary
Chair

Kentucky Department of Education (KDE)

Commissioner

Council on Postsecondary Education (CPE)

President

Kentucky Higher
Education
Assistance
Authority
(KHEAA)
Executive
Director

Cabinet for Health and Family Services (CHFS)

Secretary

#### Kentucky Education and Labor Cabinet

- K12 Students
- K12 Teachers
- K12 Staff
- Career/Technical Education
- Teacher/Education Certification
- Governor's Scholar Program
- Office of Adult Education
- Unemployment Insurance (UI) Claims & Wages
- Apprenticeships

#### Council on Postsecondary Education

• Public & Independent Postsecondary

#### **Industry Certification**

- National Institute for Automotive Service Excellence (ASE)
- Computing Technology Industry Association (CompTIA)

#### **Department of Workforce Investment**

- Workforce Training
- Office for the Blind & Vocational Rehab
- Job Seekers
- Focus

#### Kentucky Board of Nursing Medical Licensure Board

Nursing Licenses

#### Finance & Administration Cabinet

- Revenue Data
- Financial Aid Kentucky Higher Education Assistance Authority

#### **Judicial Branch**

• Administrative Office of the Courts

## KYSTATS

#### Cabinet for Health and Family Services

- Early Learning Child Care
- Supplemental Nutrition Assistance Program (SNAP)
- Temporary Assistance For Needy Families (TANF)
- SNAP Employment & Training Program (SNAP E&T)
- Medicaid Eligibility and Claims
- Vital Statistics
- TWIST Foster Care & Adoption
- HANDS

#### Justice and Public Safety Cabinet

- Corrections
- Justice and Public Safety Cabinet Department of Juvenile Justice

#### **Bureau of Labor Statistics**

• Labor Market Information

#### **Other Data Sources**

- Kentucky Chamber of Commerce Talent Pipeline Management
- Governor's Office Of Early Childhood Head Start
- Coleridge Initiative Out of State Education and Employment and Wage Data

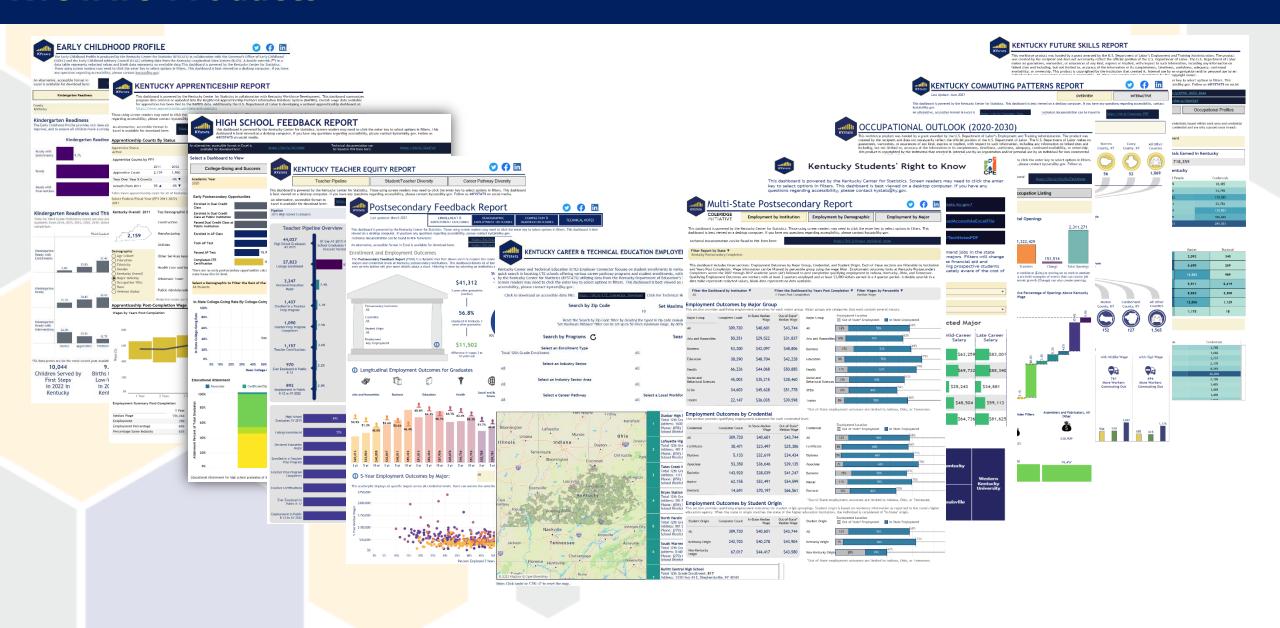
### **Kentucky Transportation Cabinet**

• Driver Licensing

#### **In-Progress Relationships**

• Commission on Proprietary Education - Proprietary Colleges

## **KYSTATS Products**



Adult Learners Pursuing Postsecondary Credentials



## Motivation: How Can We Meet Our Lumina Goal?

College-Going and Success

College Enrollment and Outcomes

Loans and Wages

Select an Academic Year to Filter the State-Level Metrics and District Maps. 2021

### State Level College-Going or College Success Metrics

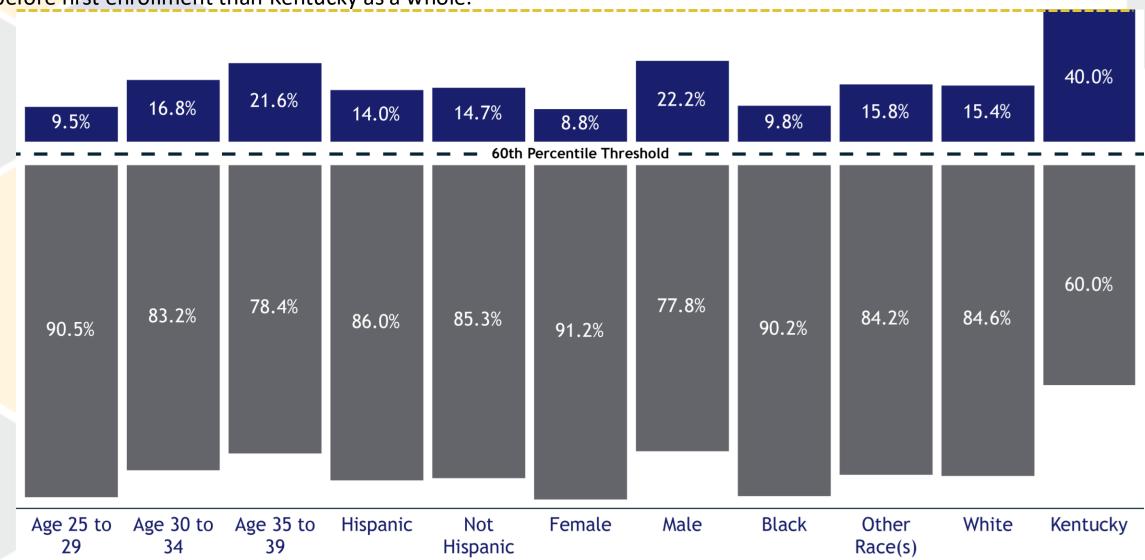
ACT	HIGH	HIGH SCHOOL	POSTSECONDARY	FAFSA
COMPOSITE	SCHOOL GPA	GRAD RATE	READINESS	COMPLETION RATE
19.2	3.02	92.3%	No Data	61.1%
MEAN KEES	COLLEGE CREDIT WHILE IN HIGH SCHOOL	COLLEGE-GOING	FIRST YEAR	FIRST YEAR COLLEGE
MONEY EARNED		RATE	COLLEGE GPA	CREDIT HOURS EARNED
\$1,169	50.8%	51.5%	2.47	20

**51.5%** College-Going Rate for High School Graduates

Source: Kentucky Center for Statistics, https://kystats.ky.gov/Latest/HSFR, Accessed 05/13/2024

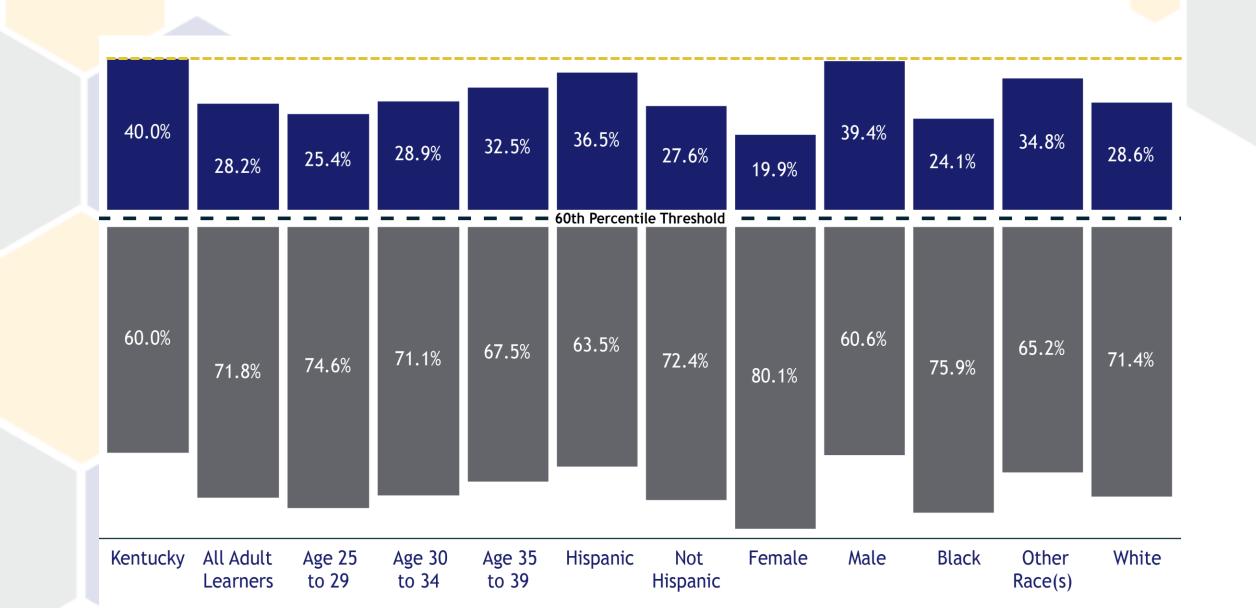
## What was the proportion of the adult learner populations above and below the threshold in the year prior to enrollment?

All subgroups of adult learners had a lower proportion of workers above the threshold the year before first enrollment than Kentucky as a whole.



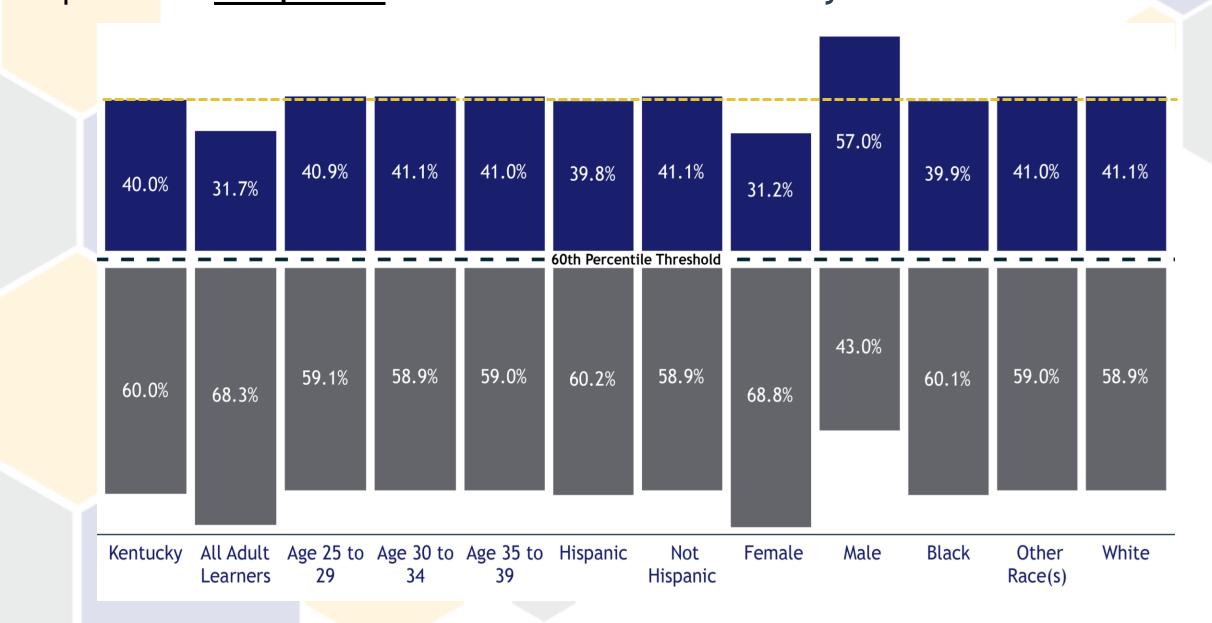
Postsecondary Adult Learners:

Proportion of Non-Completers above/below the threshold 8 years after enrollment?



Postsecondary Adult Learners:

Proportion of Completers above/below the threshold 8 years after enrollment?



## Multi-State Postsecondary Feedback Report: All

## Filter Report by State ▼ Kentucky Postsecondary Completers This dashboard includes three sections: Employment Outcomes by Major Group, Credential, and Student Origin. Each of these sections are filterable by Institution and Years Post Completion. Wage information can be filtered by percentile group using the wage filter. Employment outcomes looks at Kentucky Postsecondary.

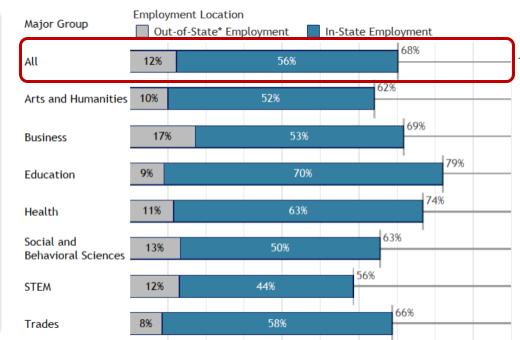
This dashboard includes three sections: Employment Outcomes by Major Group, Credential, and Student Origin. Each of these sections are filterable by Institution and Years Post Completion. Wage information can be filtered by percentile group using the wage filter. Employment outcomes looks at Kentucky Postsecondary Completers across the 2007 through 2017 academic years (AY) followed to post completion qualifying employment in Indiana, Kentucky, Ohio, and Tennessee. Qualifying Employment Outcomes are workers with at least 2 quarters employed and at least \$3,000 dollars earned in a 4 quarter period. A double asterisk in a data table represents redacted values, blank data represents no data available.

All ▼ 3-Years Post Completion ▼ Median Wage	Filter the Dashboard by Institution ▼	F	Filter the Dashboard by Years Post Completion ▼	,	Filter Wages by Percentile ▼	
	All ▼		3-Years Post Completion ▼		Median Wage	•

### **Employment Outcomes by Major Group**

This section provides qualifying employment outcomes for each major group. Major groups are categories that each contain several majors.

Major Group	Completer Count	In-State Median Wage	Out-of-State* Median Wage	Major Group	Employ
All	309,720	\$40,601	\$43,744	All	12%
Arts and Humanities	50,251	\$29,522	\$31,837	Arts and Humanit	ies 10%
Business	53,200	\$42,097	\$48,806	Business	179
Education	38,290	\$48,704	\$42,228	Education	9%
Health	66,226	\$44,068	\$50,885	Health	11%
Social and Behavioral Sciences	45,003	\$35,215	\$38,460	Social and Behavioral Scienc	13%
STEM	34,603	\$45,628	\$51,778	STEM	12%
Trades	22,147	\$36,035	\$39,598	Trades	8%



\*Out-of-State employment outcomes are limited to Indiana, Ohio, or Tennessee.

Source: https://kystats.ky.gov/Latest/MSPSR

12% of KY
postsecondary
completers are
employed in our
surrounding states
3-years post
completion



## Multi-State Postsecondary Feedback Report: NKU

Filter the Dashboard by Years Post Completion ▼

Filter the Dashboard by Institution ▼

Northern Kentuck	ky University	•	3-Years Post Comp	letion	•	Median Wage			r	ostsecondary
Employment Outcomes by Major Group  This section provides qualifying employment outcomes for each major group. Major groups are categories that each contain					: each contain s	everal majors.		c	completers are employed in our	
Major Group	Completer Count	In-State Median Wage	Out-of-State* Median Wage	Major Group	Employment Out-of-St	Location ate* Employment	In-State	Employment	s	urrounding
All	21,603	\$46,563	\$47,518	All		41%	37		p	tates 3-years ost completion
Arts and Humanities	3,001	\$33,614	\$34,585	Arts and Humanities	3	38%	33%	71%		
Business	6,421	\$47,830	\$50,901	Business		47%		34%	81%	
Education	2,817	\$49,642	\$41,576	Education	27%		57%		849	6
Health	2,911	\$58,492	\$59,308	Health		47%		37%	84	%
Social and Behavioral Sciences	3,732	\$41,694	\$44,763	Social and Behavioral Sciences		41%	34%	7	75%	
STEM	2,019	\$50,292	\$54,552	STEM		44%	25%	69%		
Trades	702	\$37,318	\$37,406	Trades	339	6	51%	3	849	6

Source: https://kystats.ky.gov/Latest/MSPSR

\*Out-of-State employment outcomes are limited to Indiana, Ohio, or Tennessee.

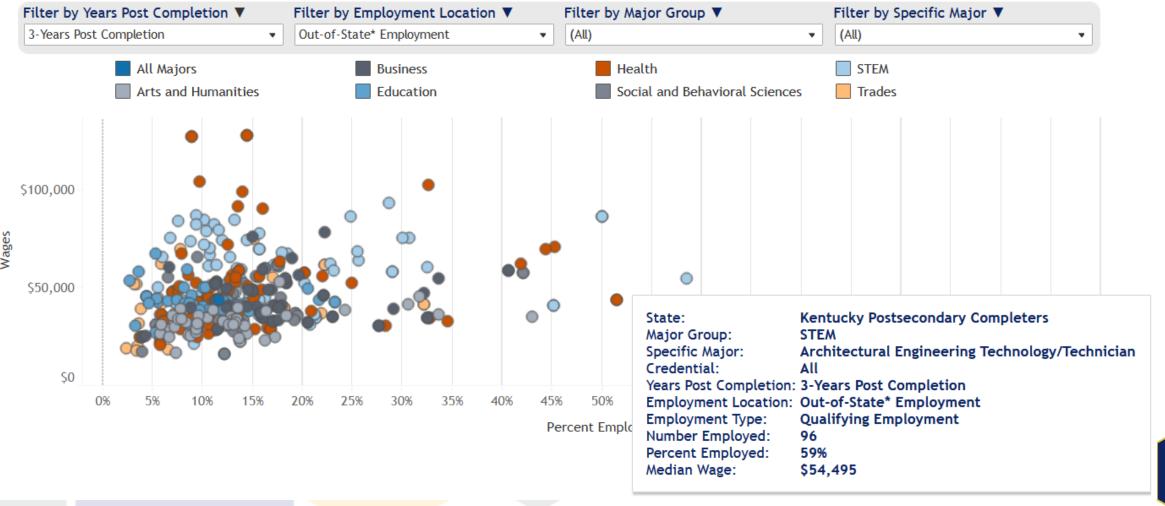
Filter Wages by Percentile ▼

**41%** of NKU

**KY**STATS

## Multi-State Postsecondary Feedback Report: 6-digit CIP

**Employment Outcomes by Specific Major** 





## Links



Scan the tag to visit the Multi-State Postsecondary Report (MSPSR)



Scan the tag to learn more about the University of Maryland Executive Certificate Course based on expanding the MSPSR

# Rhode Island Longitudinal Data System

Padmashri Saravanan



## Purpose



The Rhode Island Longitudinal Data System (RILDS) integrates and links data across sectors and over time to support research aligned with the state's priorities, **inform policymaking** and **program evaluation**, and improve the well-being of all Rhode Islanders. In short, RILDS is the state's central repository for linked, interagency, longitudinal data.

**EMPLOYMENT** 

CIVIC MANAGEMENT

HEALTH & HUMAN SERVICES

**EDUCATION** 

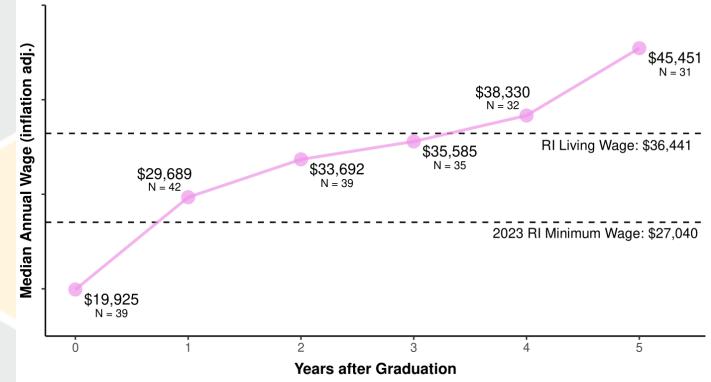
Centralizes data using a custom-built machine learning algorithm

## Data Story: Higher Education Outcomes of Youth involved with Foster Care



### Median Wages of Postsecondary Graduates by Year following Graduation

Median annual wages of youth involved in foster care who graduate from postsecondary exceed minimum wage one year following graduation and exceed living wage four years following graduation



**Note**: (1) Data includes youth involved in foster care who graduated from postsecondary by age 26 prior to September 2017. (2) Median annual wages are inflation adjusted to 2023 dollars. (3) RI Living Wage calculated using MIT Living wage (livingwage.mit.edu/)

- Cohort of 3,562 individuals
- 5 critical questions:
  - Demographics
  - Enrollment patterns at postsecondary institutions
  - Persistence rates in postsecondary enrollment
  - Attainment of certificates or degrees
  - Employment landscape comparison
- Data Contributing Agencies:
  - 1. Department of Children, Youth & Families
  - 2. National Student Clearinghouse data from the Rhode Island Department of Education
  - 3. Office of the Postsecondary Commissioner
  - 4. Department of Labor and Training





\*all icons for illustration purposes only.

request





report insights

WAIVER PROGRAM







LEGISLATURE

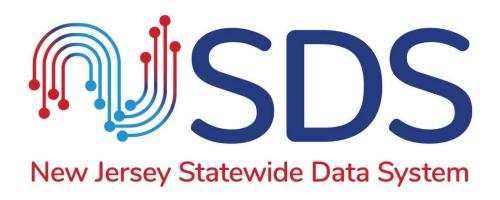
allocate resources

STATE

AGENCIES



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**NJSDS Overview** 



## Introduction



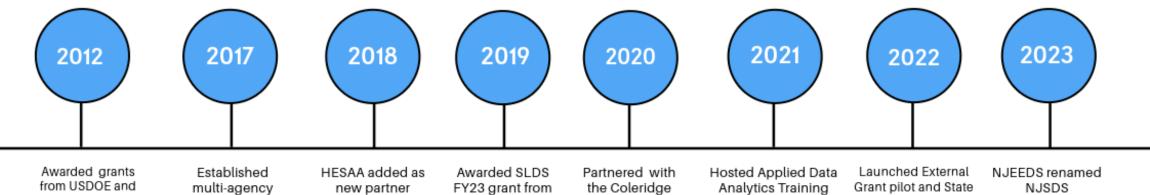
The New Jersey Statewide Data System (NJSDS) is the State of New Jersey's centralized longitudinal data system for administrative data. Formed in 2012, NJSDS connects people to data to improve policy outcomes by providing access to information in support of research and evaluation.





## History of NJSDS





USDOL to establish NJEEDS

Memoranda of Understanding with data owners

Launched NJEEDS website

USDOE

Awarded Round 7 WDQI grant from USDOL ETA

Initiative on ADRF

Established Eastern States Longitudinal Data Collaborative

Data Policy Internship programs

NJSDS website launched

Awarded SLDS FY23 grant from USDOE





## **Governing Bodies**



Executive Leadership Committee

Data Stewards Work Group

Data Advisory Council

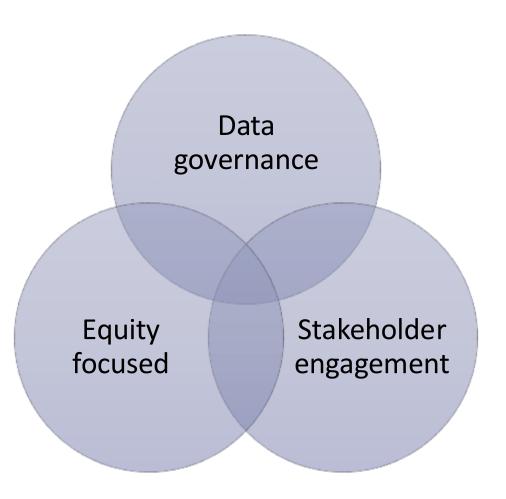
Longitudinal Data Advisory Committee





## Current Research Agenda

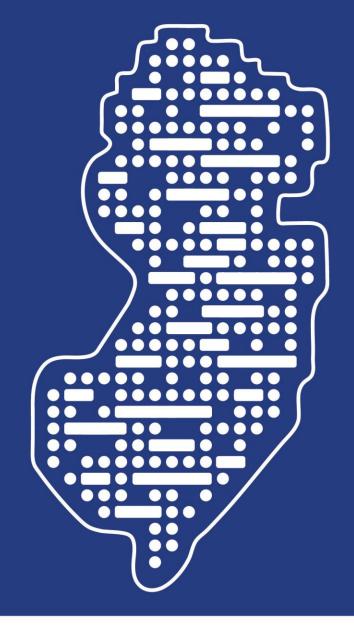








**NJSDS** Projects





## Project Spotlight





## Financial Aid Outcome



### **Tuition Aid Grant (TAG)**

Output: graduation rate
Input: TAG vs general student

population

Control: degree level, enrollment

year

Product: dashboard

### **Tuition Aid Grant (TAG)**

Output: graduation rate
Input: TAG vs comparable
student population
Control: demographics, socioeconomics, enrollment, award
characteristics, institution
characteristics
Product: white paper

### **Enhanced financial aid**

Output: persistence, transfer, graduation, and employment Input: types of financial aid Control: demographics, institution characteristics

Product: dashboard





THANK YOU!

