



# Digging Into SLEDs:

## Using the data to inform institutional policy and practice

**Megan Peterson** | Lakes Country Service Cooperative / SLEDs Network

**Meredith Fergus** | Office of Higher Education / SLEDs Coordinator

**Danielle Dupuis** | Center for Applied Research in Educational Improvement (CAREI),  
University of Minnesota / SLEDs Network

AIRUM 2017

# What is SLEDs?

sleds.mn.gov

PK-12

Higher Ed




Workforce





# SLEDS Goals

- 
- Created to assist in identifying the most viable pathways for individuals in achieving successful outcomes in education and work
  - Helps to gauge effectiveness of current programs
  - Guides development of targeted improvement strategies to help students

# Where Does the Data Come From?

- Research tab

**Data Source Matrix of Available Years of Data**

Data Sources	Agency	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
CIP	DEED		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Employment	DEED					X	X	X	X	X	X	X	X	X	X	X	X	X	X
Employment Organization	DEED					X	X	X	X	X	X	X	X	X	X	X	X	X	X
Workforce Training	DEED					X	X	X	X	X	X	X	X	X	X	X	X	X	X
ACT	MDE							X	X	X	X	X	X	X	X	X	X	X	X
Adult Basic Education (ABE)	MDE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Advanced Placement	MDE								X	X	X	X	X	X	X	X	X	X	X
Career and Technical Education (CTE)	MDE									X	X	X	X	X	X	X	X	X	X
GED Recipients	MDE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
International Baccalaureate	MDE										X	X	X	X	X	X	X	X	X
K-12 Assessment	MDE								X	X	X	X	X	X	X	X	X	X	X
K-12 Child Count	MDE							X	X	X	X	X	X	X	X	X	X	X	X
K-12 Enrollment	MDE							X	X	X	X	X	X	X	X	X	X	X	X
MDE Organization	MDE							X	X	X	X	X	X	X	X	X	X	X	X
Minnesota Common Course Catalogue (MCCC)	MDE													X	X	X	X	X	X
National Student Clearinghouse	MDE								X	X	X	X	X	X	X	X	X	X	X

<http://sleds.mn.gov/#research>

Information
Home
Outreach
Research
Privacy
Data in Use
High School Graduates
High School Academics
Enrollment
Completing College
Developmental Education
Course Taking
Electives to ACT Results
College Students
New Student Demographics
New Student Enrollment
College Graduates
Employment

About Minnesota SLEDs

Minnesota has developed the Minnesota Statewide Longitudinal Education Data System (SLEDs) matching student data from pre-kindergarten through completion of postsecondary education and into the workforce. By bridging existing data with other incoming data a range of education programmatic and delivery questions can be answered to gauge the effectiveness of current programs and design targeted improvement strategies to help students.



SLEDs brings together data from education and workforce to:

- Identify the most viable pathways for individuals in achieving successful outcomes in education and work;
- Inform decisions to support and improve education and workforce policy and practice, and
- Assist in creating a more seamless education and workforce system for all Minnesotans.

The Minnesota P-20 Education Partnership governs the SLEDs system. The project is managed jointly by the [Minnesota Office of Higher Education \(OHE\)](#), [Minnesota Departments of Education \(MDE\)](#), and [Employment and Economic Development \(DEED\)](#)

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To sign up for updates or to access your subscriber preferences, please enter your contact information below.

Subscription Type

Email

\* Email Address (Required)

http://sleds.mn.gov/

Submit

Contact Us

If you have comments, questions, or suggestions, do not hesitate to send us a message at [sleds.support@state.mn.us](mailto:sleds.support@state.mn.us).

Meredith Fergus

Manager of Financial Aid Research | SLEDs Coordinator

Minnesota Office of Higher Education  
1450 Energy Park Drive Suite 350  
St. Paul, MN 55108  
651-259-3963  
[meredith.fergus@state.mn.us](mailto:meredith.fergus@state.mn.us)

Rachel Vilsack

Agency Performance Manager | SLEDs Coordinator

Minnesota Department of Employment and Economic Development  
332 Minnesota Street - Suite E200  
St. Paul, MN 55101  
651-259-7403  
[rachel.vilsack@state.mn.us](mailto:rachel.vilsack@state.mn.us)

Kara Arzamendia

Data Analytics Supervisor | SLEDs Coordinator

Minnesota Department of Education  
1500 Highway 36 West  
Roseville, MN 55113  
651-582-8599  
[kara.arzamendia@state.mn.us](mailto:kara.arzamendia@state.mn.us)

Feedback

Please provide SLEDs with your feedback, [take our survey](#).



# Accessing SLEDs Data



- Your **organization** can request access to your data.
- If you need access to individual level data for a specific **research** project, you can request that through SLEDs.
  - Six-month wait time
- The **public** site is available to everyone!

# Post-Secondary Research Data Mart

## Secure Reports

The Statewide Longitudinal Education Data System (SLEDs) Secure Reports site contains student level de-identified data from K-12 and postsecondary education. Data are linked at the individual student level from K-12 to postsecondary but no identifying information is included. SLEDs was developed to match student data from pre-kindergarten through completion of postsecondary education and into the workforce. By bridging existing data with other incoming data a range of education, programmatic, and delivery questions can be answered to gauge the effectiveness of current programs and design targeted improvement strategies to help students.

### K-12 Secure Reports

This data is provided to LEAs around the state to answer questions specific to their student populations so that data can be used to drive decision-making and program improvement. These reports can be customized and opened directly in Excel. The starting cohort includes public high school graduates and drop outs (starting in 9th grade). The columns are labeled with definitions for each variable but users can refer to the attachment of [data element descriptions](#) or the [SLEDs Data Dictionary](#) located on the [SLEDs analytics website](#) for further information.

For LEAs who would like to gain access to the K-12 Secure Report for their district and schools, please see the [data sharing agreement document](#). Once filled out and signed, it should be scanned and e-mailed to Kara Arzamendia at [kara.arzamendia@state.mn.us](mailto:kara.arzamendia@state.mn.us).

### Postsecondary Secure Reports

This data is provided to postsecondary institutions around the state to answer questions specific to their student populations. The data can be used to drive decision-making and program improvement. These reports can be customized and are available as text files. The starting cohort includes students enrolled in a postsecondary institution starting in 2003 or completing a certificate or degree starting in 2007 and continues to the present enrollment class. The columns are labeled with definitions for each variable but users can refer to the attachment of [data element descriptions](#) or the [SLEDs Data Dictionary](#) located on the [SLEDs analytics website](#) for further information.

For institutions who would like to gain access to the Postsecondary Secure Report for their institution, please see the [data sharing agreement document](#). Once filled out and signed, it should be scanned and e-mailed to Meredith Fergus at [meredith.fergus@state.mn.us](mailto:meredith.fergus@state.mn.us).

### SLEDs Secure Reports

[K-12 Research Data Marts](#)

[Postsecondary Research Data Mart](#)

[Workforce Training Data Mart](#)



<http://w20.education.state.mn.us/MDEAnalytics/Sleds.jsp>

# Enrolled Students

- 1 record /enrolled student /FY selected per college

# Completers

- 1 record/ award/ completer/ FY selected per college

The screenshot shows a web browser window with the title "Postsecondary Research Data Mart" and a "Signed in as" indicator. Below the header, a paragraph explains that the data mart provides student level information for each institution in the state, including demographic characteristics from K-12 and workforce activity. It mentions that users can select and deselect data elements for download in a linked text file (CSV format). The interface includes several dropdown menus for filtering: "System" (University of Minnesota), "Year" (2015), "Format" (CSV), "College" (All), and "Status" (Enrolled). A "Download File" button is located to the right of these filters. Below the filters, there are three sections for selecting attributes: "K-12 Attributes" (listing High School State Accountability Test Math, Reading, Science, and ACT), "PS Enrollment Attributes" (listing OHE Code, Student Level, Race, and Gender), and "PS Completers Attributes" (listing First, Second, and Third Completion). Each section has a list of attributes on the left, a set of double arrows (right and left) in the middle, and a selection box on the right.

Postsecondary Research Data Mart

Signed in as

The Postsecondary Research Data Mart files provide student level information for each institution in the state. These files include demographic characteristics from K-12, and workforce activity for all students enrolled. The list below allows users to select and deselect the data elements to be included in a linked text file that can be downloaded to a computer. For more information about the data available, see the [Postsecondary Data Mart Field List for Enrolled Students/Completers](#).

System: University of Minnesota Year: 2015 Format: CSV Download File

College: All Status: Enrolled

**K-12 Attributes**

- Make Selection -

High School State Accountability Test Math

High School State Accountability Test Reading

High School State Accountability Test Science

ACT

**PS Enrollment Attributes**

- Make Selection -

OHE Code

Student Level

Race

Gender

**PS Completers Attributes**

- Make Selection -

First Completion

Second Completion

Third Completion



## Student-level Data for Colleges

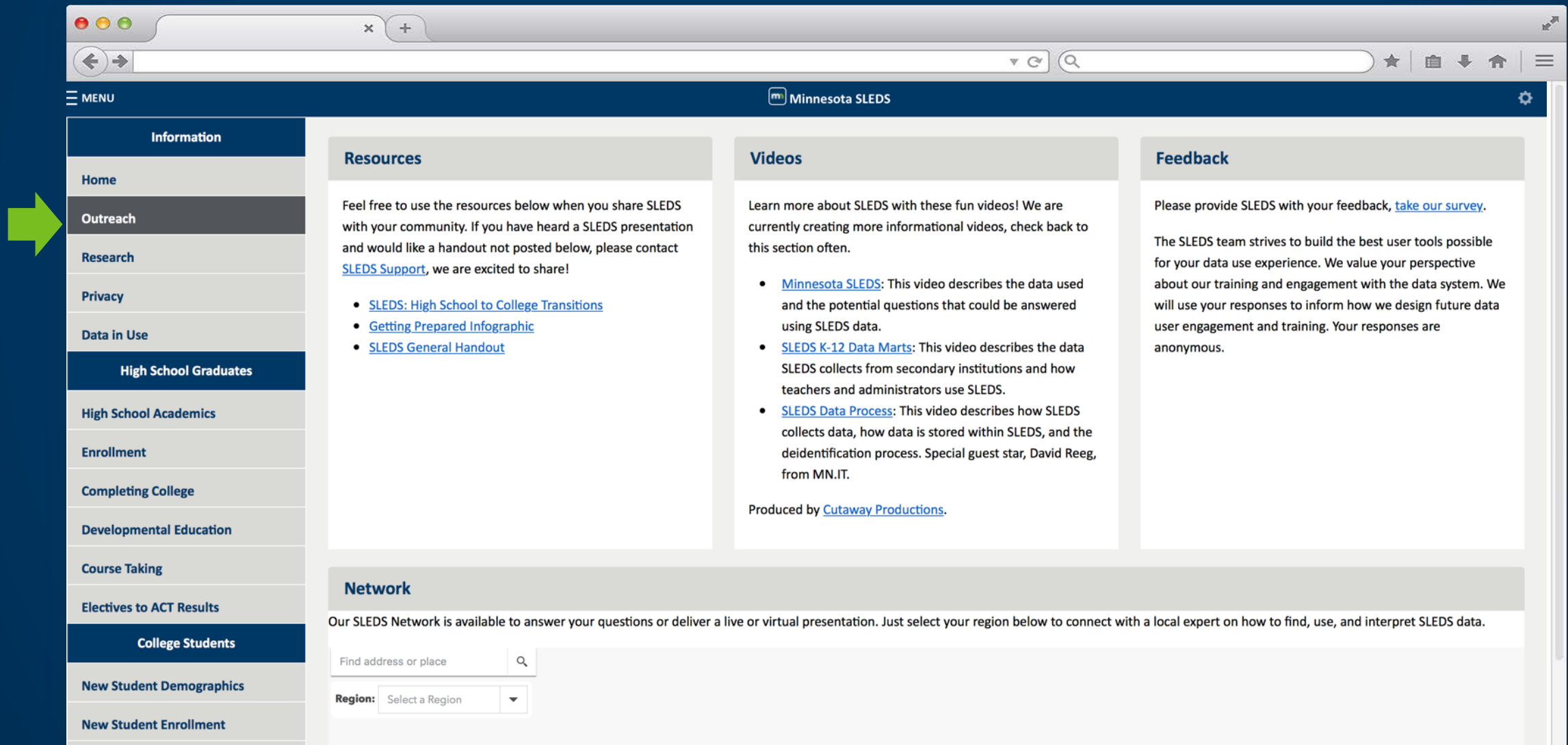
- Data:
- De-identified student level records
- SLEDS ID matches across files (91% accuracy)
- Population limited (e.g. current or former students)
- Data Suppression
- Format:
- CSV or Excel

# When Is SLEDs Data Uploaded?

- Twice a year (June and November).
- Data typically lags by about a year (12 months)
- 2016 HS grads are available June of 2017
- Students enrolling in college in the Fall of 2016 are loaded in November of 2017



# SLEDS Resources



The screenshot shows the Minnesota SLEDS website interface. A green arrow points to the 'Outreach' menu item in the left sidebar. The website has a dark blue header with the 'Minnesota SLEDS' logo and a settings gear icon. The main content area is divided into three columns: Resources, Videos, and Feedback. The Resources column contains a paragraph about sharing SLEDS data and a list of three links: 'SLEDS: High School to College Transitions', 'Getting Prepared Infographic', and 'SLEDS General Handout'. The Videos column contains a paragraph about SLEDS videos and a list of three links: 'Minnesota SLEDS', 'SLEDS K-12 Data Marts', and 'SLEDS Data Process'. The Feedback column contains a paragraph about providing feedback and a link to 'take our survey'. At the bottom, there is a 'Network' section with a search bar and a dropdown menu for selecting a region.

**Information**

- Home
- Outreach**
- Research
- Privacy
- Data in Use

**High School Graduates**

- High School Academics
- Enrollment
- Completing College
- Developmental Education
- Course Taking
- Electives to ACT Results

**College Students**

- New Student Demographics
- New Student Enrollment

**Resources**

Feel free to use the resources below when you share SLEDS with your community. If you have heard a SLEDS presentation and would like a handout not posted below, please contact [SLEDS Support](#), we are excited to share!

- [SLEDS: High School to College Transitions](#)
- [Getting Prepared Infographic](#)
- [SLEDS General Handout](#)

**Videos**

Learn more about SLEDS with these fun videos! We are currently creating more informational videos, check back to this section often.

- [Minnesota SLEDS](#): This video describes the data used and the potential questions that could be answered using SLEDS data.
- [SLEDS K-12 Data Marts](#): This video describes the data SLEDS collects from secondary institutions and how teachers and administrators use SLEDS.
- [SLEDS Data Process](#): This video describes how SLEDS collects data, how data is stored within SLEDS, and the deidentification process. Special guest star, David Reeg, from MN.IT.

Produced by [Cutaway Productions](#).

**Feedback**

Please provide SLEDS with your feedback, [take our survey](#).

The SLEDS team strives to build the best user tools possible for your data use experience. We value your perspective about our training and engagement with the data system. We will use your responses to inform how we design future data user engagement and training. Your responses are anonymous.

**Network**

Our SLEDS Network is available to answer your questions or deliver a live or virtual presentation. Just select your region below to connect with a local expert on how to find, use, and interpret SLEDS data.

Find address or place

Region:



# Research Tab: Data Dictionary & Data Interpretation Guide

The screenshot shows the Minnesota SLEDs website interface. On the left is a dark blue sidebar menu with a 'MENU' icon at the top. The menu items are: Information, Home, Outreach, Research (highlighted with a green arrow), Privacy, Data in Use, High School Graduates, High School Academics, Enrollment, Completing College, Developmental Education, and Course Taking. The main content area has a dark blue header with the 'Minnesota SLEDs' logo. Below the header, there are three main sections: 'Governance', 'Data Access and Use', and 'SLEDs Reports'. The 'Governance' section contains text about the Minnesota P-20 Education Partnership and a bulleted list of governance details. Below this is a button labeled 'Access full data governance information'. The 'Data Access and Use' section contains text about interpreting data, a link to the 'Data Interpretation Guide' (highlighted with a green arrow), a list of required information for data access, and a link to 'Instructions to access to SLEDs Secured Reports'. Below this is a button labeled 'Data Dictionary' (highlighted with a green arrow). The 'SLEDs Reports' section contains a list of links for Minnesota and National reports, including 'Getting Started', 'Graduate', 'College Clearinghouse', 'Minnesota College', 'Minnesota', 'National Report', 'Statewide Learning', 'U.S. Department of Education', 'Workforce Development', and 'Data Quality'.

**Information**

- Home
- Outreach
- Research**
- Privacy
- Data in Use

**High School Graduates**

- High School Academics
- Enrollment
- Completing College
- Developmental Education
- Course Taking

**Governance**

The Minnesota P-20 Education Partnership governs the SLEDs system. On April 14, 2010, the Minnesota P-20 Education Partnership adopted the following governance structure for the SLEDs system:

- The SLEDs Governance Committee will oversee all work with the data system.
- The SLEDs Research and Data Advisory Committee will review and develop research and evaluation proposals, provide technical expertise on data structure and linkages, and make recommendations to the Governance Committee.
- The SLEDs Coordinators and SLEDs IT staff will coordinate work of the committees and report to the Governance Committee on the research, evaluation and technical operations of SLEDs.

[Access full data governance information](#)

**Data Access and Use**

For information about interpreting and using the data in SLEDs reports and on the SLEDs website, please see the [Data Interpretation Guide](#).

The following information is required for access to SLEDs data:

- [Data Access Management Policy](#)
- [SLEDs Data Access Request](#)
- [Data Access Request Process and Timeline](#)
- [Scoring Template and Rubric](#)

[Instructions to access to SLEDs Secured Reports](#)

To search variables within SLEDs data, please use the data dictionary.

[Data Dictionary](#)

**SLEDs Reports**

**Minnesota**

- [Getting Started](#)
- [Graduate](#)
- [College Clearinghouse](#)
- [Minnesota College](#)
- [Minnesota](#)

**National Report**

- [Statewide Learning](#)
- [U.S. Department of Education](#)
- [Workforce Development](#)
- [Data Quality](#)



A person wearing a blue long-sleeved shirt is shown from the chest up. They are holding a white smartphone in their right hand and a white disposable coffee cup with a black lid in their left hand. A black strap, likely for a bag, is visible across their chest. A blue circular graphic is overlaid on the right side of the image, containing white text. The background is a blurred outdoor scene with green foliage.

# Post- Secondary Mobile Analytics



# SLEDS College Students Reports (1)

## New Student Demographics

### Statewide

Entering Year : 2015



Freshmen or Transfer	
New Enrollment by Race/Ethnicity	
New Enrollment by Gender	
New Enrollment by Age	
New Enrollment by State of Residence	
Top Ten Minnesota Counties	
More Information	

## New Student Enrollment

### Statewide

Entering Year : 2015



Awards Sought	
Top Ten Majors	
Time Since High School Graduation	
Credits Taken in First Term	
Transfer Credits at Entry	
More Information	

# SLEDs College Students Reports (2)

## College Graduates

### Statewide



New Graduates by Race/Ethnicity	
New Graduates by Gender	
New Graduates by Age	
Awards	
Top Ten Majors	
More Information	

## Employment

### Statewide

Graduation Year : 2013 Award : All Awards



Hourly Wage Trends	
Annual Wages and Employment	
More Information	

A man with a beard, wearing a blue and white striped shirt and a blue tie, is seated at a table and gesturing with both hands while speaking. He is looking towards the left. In the foreground, the back of another person's head and shoulders, wearing a light blue shirt, are visible. The background is a bright, out-of-focus office space with white shelves and a small potted plant.

# Graduate Employment Outcomes Data Tools

# Graduate Employment Outcomes (GEO): Post-Secondary

The screenshot shows a web browser window displaying the Minnesota Employment and Economic Development website. The page title is "GRADUATE EMPLOYMENT OUTCOMES IN MINNESOTA". The navigation bar includes "Labor Market Information", "Data Home", and "GEO Home". The main content area features a search interface with the following elements:

- Navigation Links:** "Graduate Employment Outcomes Home", "Report Interpretation And Methodology", and "Glossary".
- Graduation Year:** A dropdown menu set to "July 2013-June 2014".
- School Location:** A dropdown menu set to "Minnesota Statewide".
- Award Type:** A row of checkboxes for "Certificates (less than Bachelor's Degrees)", "Associate Degree", "Bachelor's Degree", "Graduate (Certificates and Degrees)", and "All Awards" (which is checked).
- Institution Type:** A dropdown menu set to "All Institution Types".
- School:** A dropdown menu set to "All Schools".
- Instructional Program:** A dropdown menu with the following options: "All Programs, Grand Total", "All Programs, Subtotals", "Agriculture, agriculture operations, and related sciences", "Architecture and related services", "Area, ethnic, cultural, gender, and group studies", and "Biological and biomedical sciences". The "All Programs, Subtotals" option is currently selected.
- OR Program Keyword:** A text input field at the bottom left.

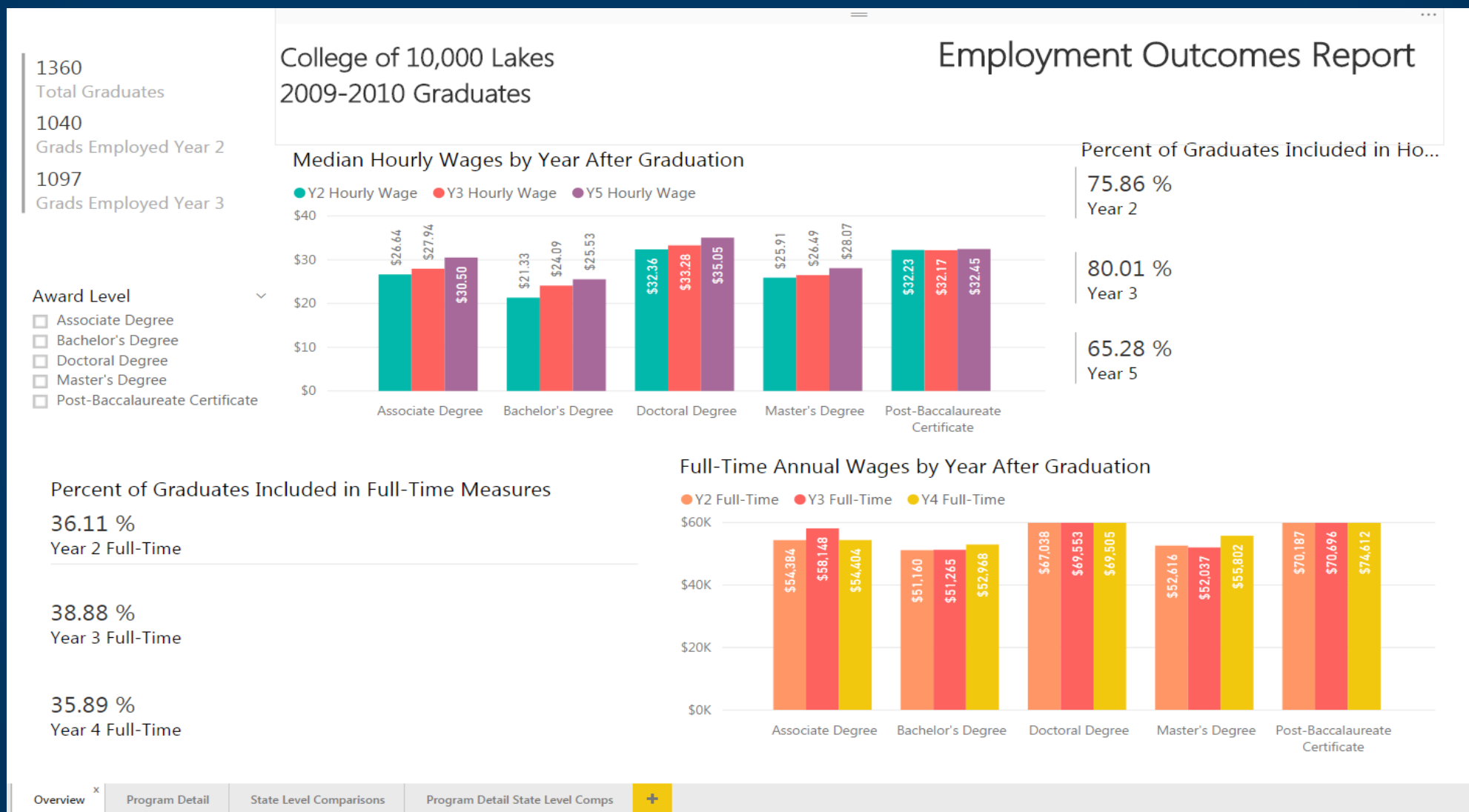
# Demo on Using the PS Data Mart

We  
created an  
Employment  
Outcomes  
Dashboard!

- Utilizes a Power BI platform
- Data tables from 4 sources:
  - SLEDs PS Data Mart for the College
  - GEO website downloads
  - CIP table
  - Award level table



# Demo: Employment Outcomes 1



Percent of Graduates Included in Full-Time Measures

36.11 %  
Year 2 Full-Time

38.88 %  
Year 3 Full-Time

35.89 %  
Year 4 Full-Time

Full-Time Annual Wages by Year After Graduation

Y2 Full-Time

Y3 Full-Time

Y4 Full-Time

Award Level	Y2 Full-Time	Y3 Full-Time	Y4 Full-Time
Associate Degree	\$54,384	\$58,148	\$54,404
Bachelor's Degree	\$51,160	\$51,265	\$52,968
Doctoral Degree	\$67,038	\$69,553	\$69,505
Master's Degree	\$52,616	\$52,037	\$55,802
Post-Baccalaureate Certificate	\$70,187	\$70,696	\$74,612

Overview

Program Detail

State Level Comparisons

Program Detail State Level Comps

+

# Demo: Employment Outcomes 2

College of 10,000 Lakes  
2009-2010 Graduates

## Employment Outcomes - Program Detail

Award Level

- ☐ Associate Degree
- ☐ Bachelor's Degree
- ☐ Doctoral Degree
- ☐ Master's Degree
- ☐ Post-Baccalaureate Certificate

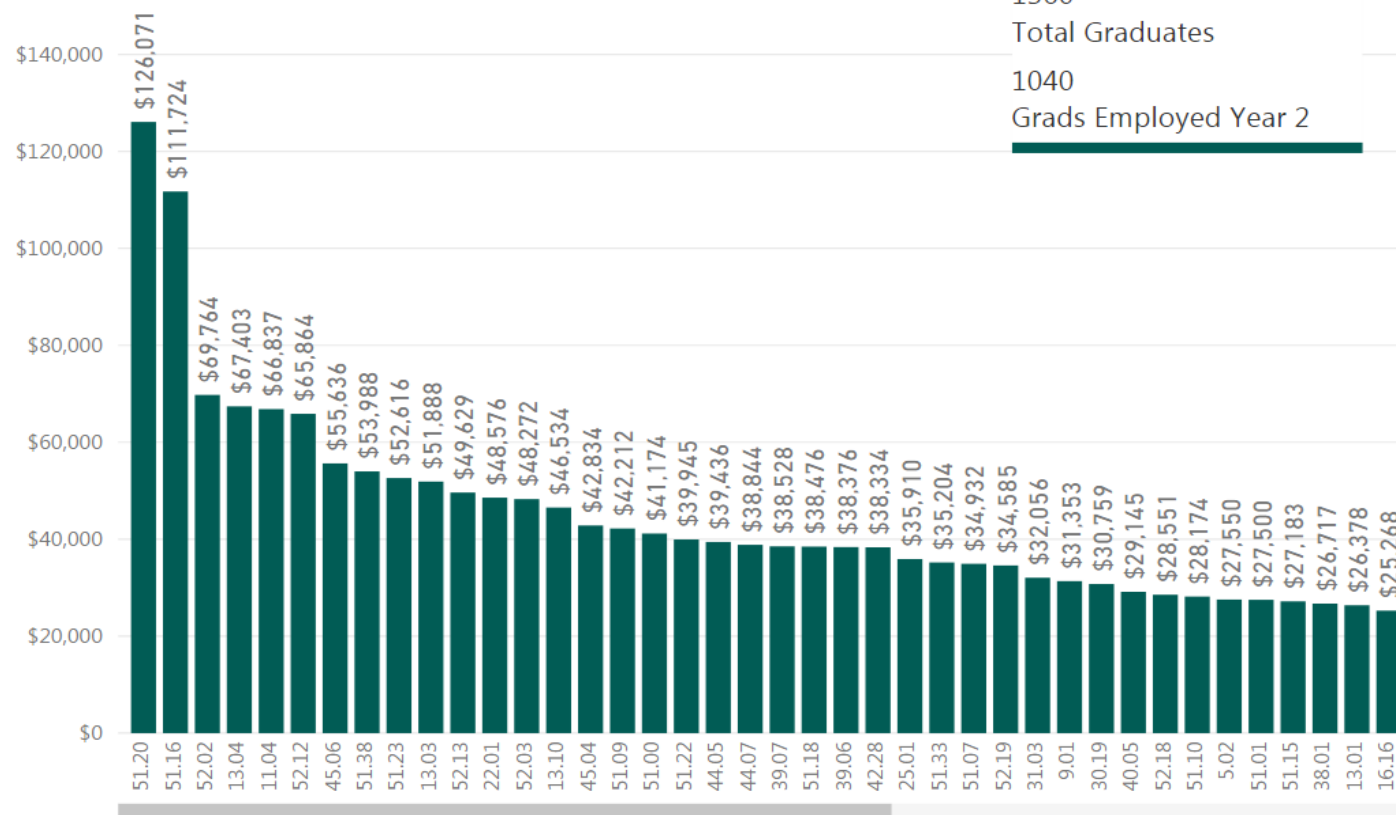
2 Digit CIP Code

- ☐ 1
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 9
- ☐ 10
- ☐ 11
- ☐ 12

Major Family (2 Digit CIP Code)

- ☐ AGRICULTURE, AGRICULTURE OPERATIONS, AND...
- ☐ ARCHITECTURE AND RELATED SERVICES.
- ☐ AREA, ETHNIC, CULTURAL, GENDER, AND GROUP...
- ☐ BASIC SKILLS AND DEVELOPMENTAL/REMEDIAL ...
- ☐ BIOLOGICAL AND BIOMEDICAL SCIENCES.
- ☐ BUSINESS, MANAGEMENT, MARKETING, AND RE...
- ☐ CITIZENSHIP ACTIVITIES.
- ☐ COMMUNICATION, JOURNALISM, AND RELATED ...
- ☐ COMMUNICATIONS TECHNOLOGIES/TECHNICIA...
- ☐ COMPUTER AND INFORMATION SCIENCES AND ...

### Median Year 2 Annual Wages by 4 Digit CIP Code



1360

Total Graduates

1040

Grads Employed Year 2

# Demo: Employment Outcomes 3

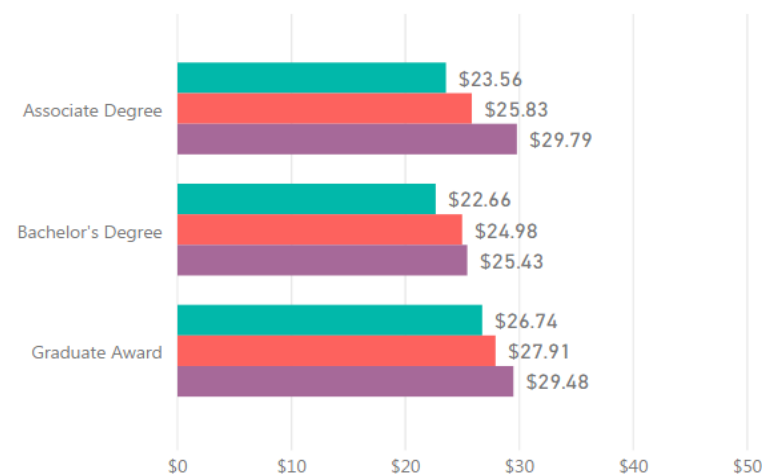
College of 10,000 Lakes  
2009-2010 Graduates

Highest Level Award

- Associate Degree
- Bachelor's Degree
- Graduate Award

College

Y2 Hourly Wage Y3 Hourly Wage Y5 Hourly Wage



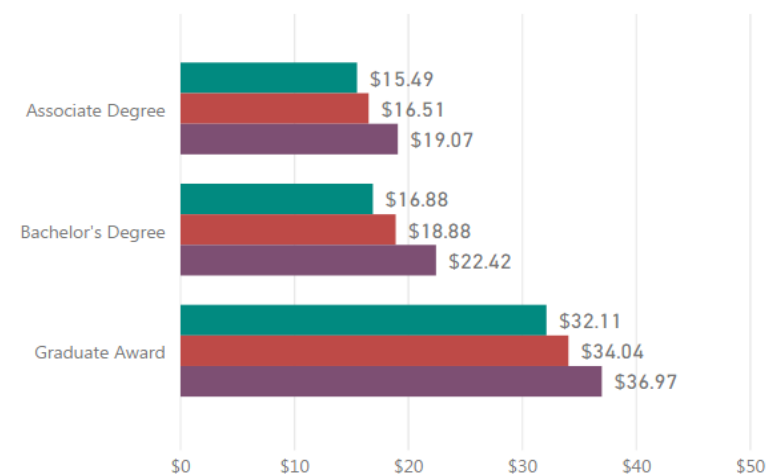
College Percent of Graduates Included

AwardLevelText	Year 2	Year 3	Year 5
Associate Degree	82.12 %	88.74 %	79.47 %
Bachelor's Degree	76.33 %	81.84 %	66.53 %
Graduate Award	74.25 %	76.99 %	61.51 %

Comparing College Level Employment Outcomes to State Outcomes  
Median Hourly Wages by Year After Graduation  
by the Student's Highest Award Obtained

Statewide

Y2 Hourly Wage Y3 Hourly Wage Y5 Hourly Wage



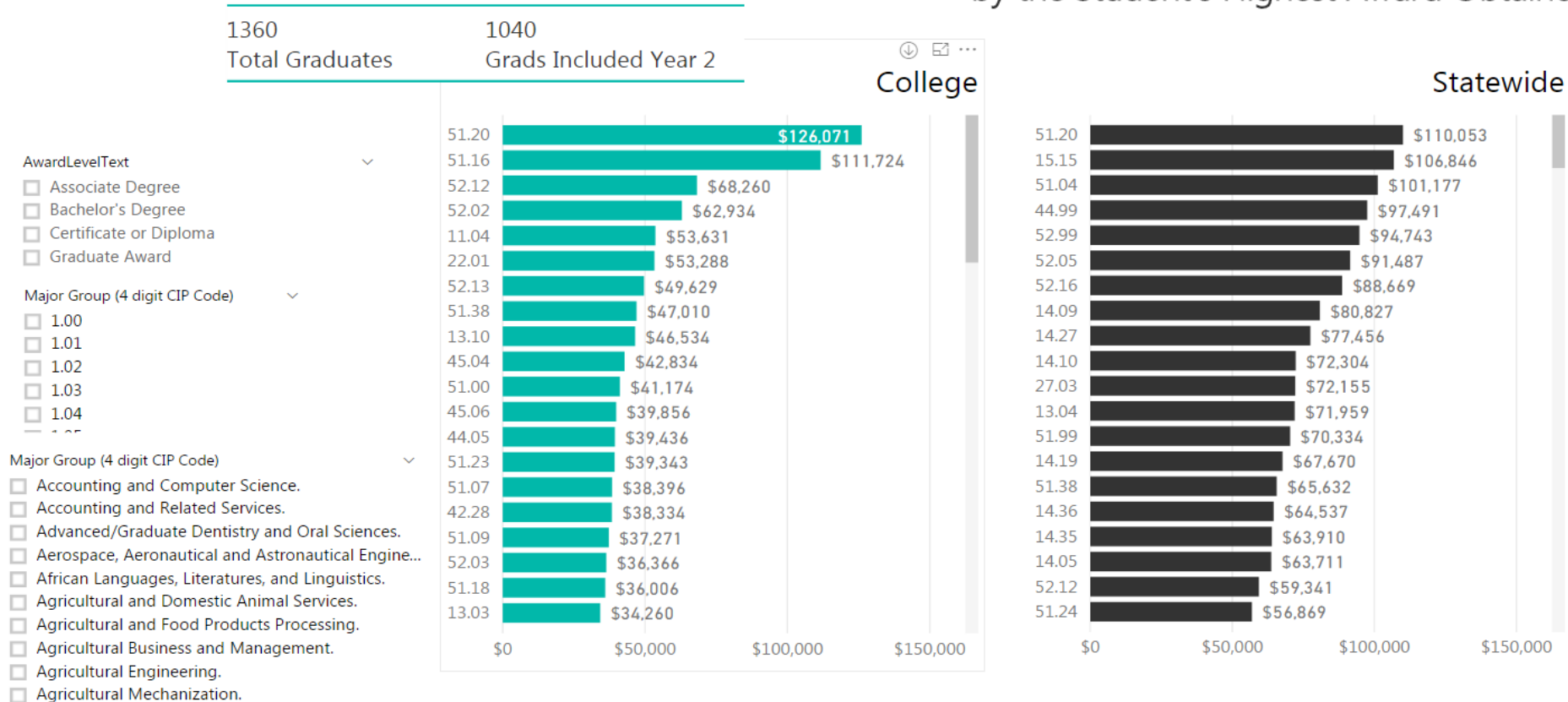
Statewide Percent of Graduates Included

AwardLevelText	Year 2	Year 3	Year 5
Associate Degree	72.45 %	72.35 %	69.27 %
Bachelor's Degree	64.00 %	62.33 %	58.15 %
Graduate Award	64.73 %	63.42 %	57.25 %

# Demo: Employment Outcomes 4

College of 10,000 Lakes  
2009-2010 Graduates

Comparing College Level Employment Outcomes to State Outcomes  
Median Year 2 Annual Wages by 4 Digit CIP Code  
by the Student's Highest Award Obtained

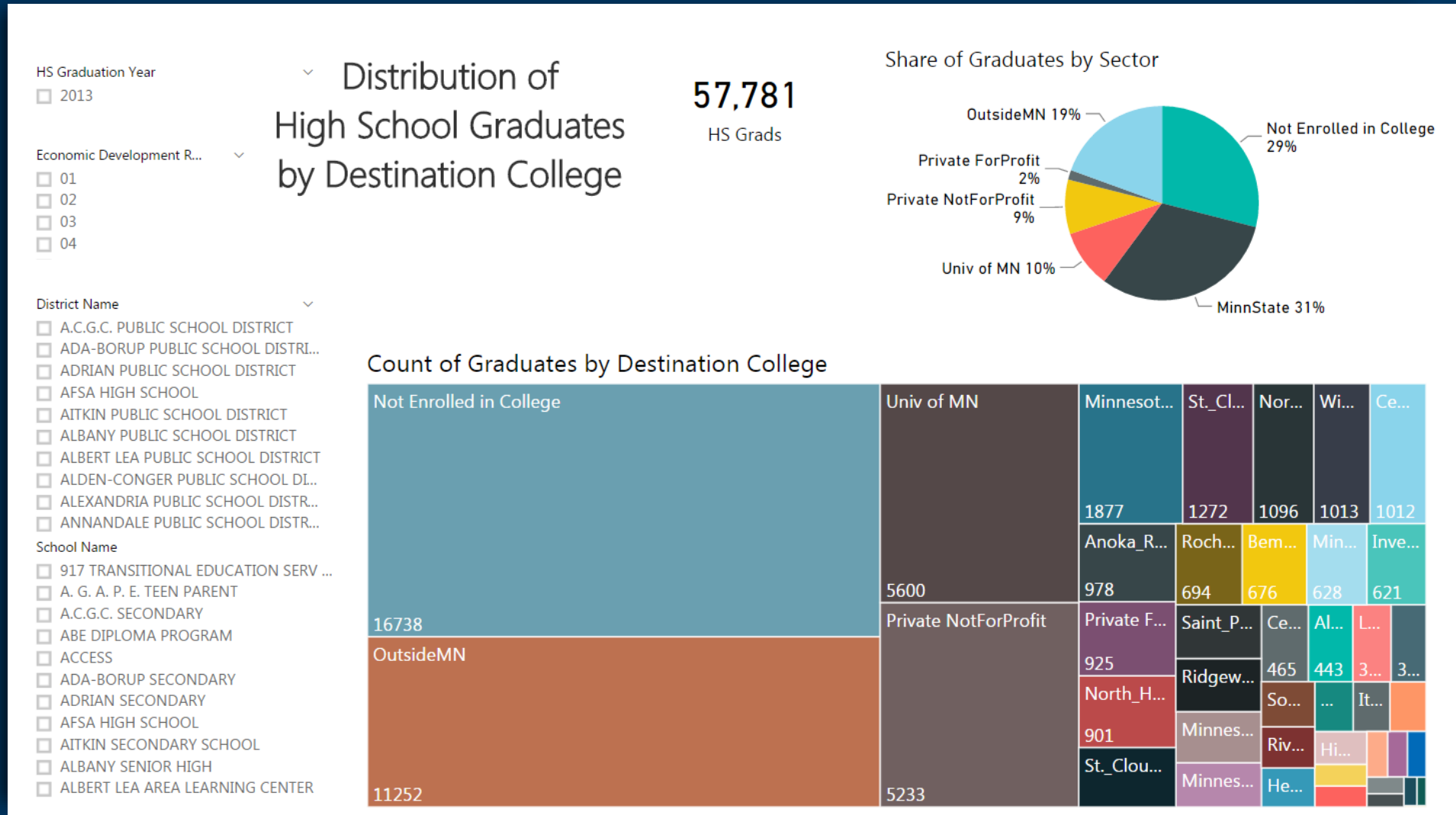


We  
created a  
High School  
to College  
Dashboard!

- Utilizes a Power BI platform
- Data tables from 2 sources:
  - Special file created by Meredith
  - MDE website downloads



# Demo: High School to College 1



# Demo: High School to College 2

## Profile of Upcoming High School Graduates, 2016-2017 Enrollees

EconomicDevelopmentRegion

- ☐ 01
- ☐ 02
- ☐ 03
- ☐ 04

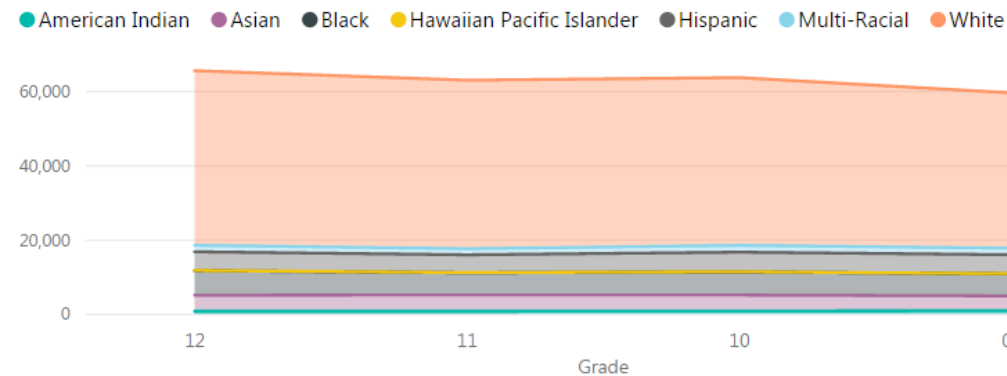
DistrictName

- ☐ A.C.G.C. PUBLIC SCHOOL DISTRICT
- ☐ ADA-BORUP PUBLIC SCHOOL DISTRICT
- ☐ ADRIAN PUBLIC SCHOOL DISTRICT
- ☐ AFSA HIGH SCHOOL
- ☐ AITKIN PUBLIC SCHOOL DISTRICT
- ☐ ALBANY PUBLIC SCHOOL DISTRICT

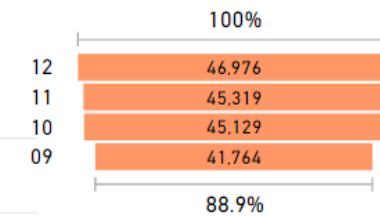
SchoolName

- ☐ 917 TRANSITIONAL EDUCATION SERV ALT
- ☐ A. G. A. P. E. TEEN PARENT
- ☐ A.C.G.C. SECONDARY
- ☐ ABE DIPLOMA PROGRAM
- ☐ ACCESS
- ☐ ADA-BORUP SECONDARY
- ☐ ADRIAN SECONDARY
- ☐ AFSA HIGH SCHOOL
- ☐ AITKIN SECONDARY SCHOOL
- ☐ ALBANY SENIOR HIGH
- ☐ ALBERT LEA AREA LEARNING CENTER
- ☐ ALBERT LEA SENIOR HIGH
- ☐ ALC EVENING HIGH SCHOOL
- ☐ ALC EXTENDED DAY
- ☐ ALC INDEPENDENT STUDY

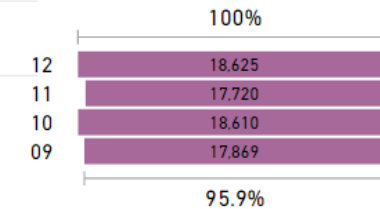
Enrollment by Race and Grade, 2016-2017 Academic Year



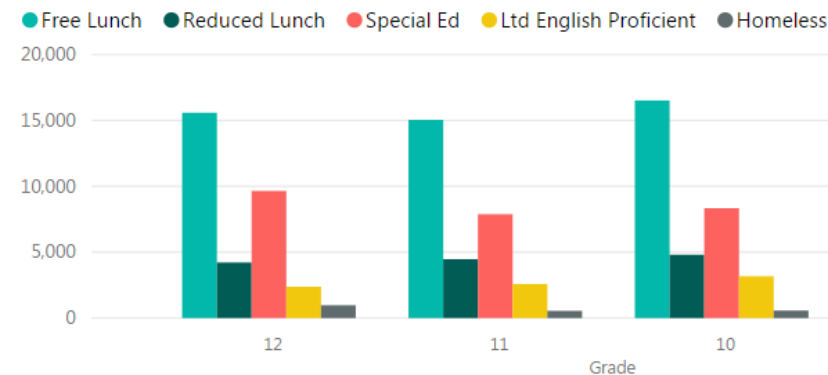
White Students by Grade



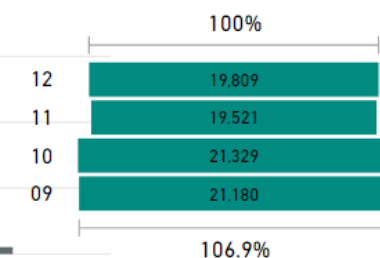
Students of Color by Grade



Enrollment by Special Population and Grade, 2016-2017 Academic Year



Free or Reduced Lunch by Grade







# SLEDs Technical Assistance Network



# SLEDS Technical Assistance Network

- Provide training and support to SLEDS users
- The regional experts awarded grants are:
  - Southwest West Central Service Cooperative (SWWC)
  - Lakes Country Service Cooperative (LCSC)
  - Century College
  - Center for Applied Research and Educational Improvement (CAREI)





# SLEDS Technical Assistance Network

- Local technical assistance
  - Support in accessing SLEDS data
  - Support in understanding SLEDS data
  - Support using SLEDS data for your own institution
- Local research
  - Support using SLEDS data for your own institution
- Local partnerships across K-12, post-secondary, and workforce
  - Partner with other local institutions to address shared questions, needs, etc.
  - Regional research and analyses





# SLEDs Technical Assistance Network

- SLEDs Experts can work with local organizations to use SLEDs Data
  - **CAREI:** Rochester Cradle to Career: workforce patterns of high school graduates
  - **Lakes Country:** The impact of gender disparities in postsecondary enrollment/completion for NW Minnesota
  - **Southwest:** Brain Drain/Migration patterns of high school graduates
  - **Century College:** Assisting colleges in using SLEDs data for institutional planning, evaluation and research
- Data coaching: Facilitate access for users, etc.

# Thank you!

**Megan Peterson**

Technology Integration Coordinator  
Lakes Country Service Cooperative / SLEDs Network  
[mpeterson@lcsc.org](mailto:mpeterson@lcsc.org) // 218-737-6544

**Meredith Fergus**

MN Office of Higher Education / SLEDs Coordinator  
[meredith.fergus@state.mn.us](mailto:meredith.fergus@state.mn.us) // 651-259-3963

**Danielle Dupuis**

Center for Applied Research in Educational Improvement (CAREI),  
University of Minnesota / SLEDs Network  
[ddupuis@umn.edu](mailto:ddupuis@umn.edu) // 612.626.7896