

# Establishing a Climate of Analytics

## Saint Paul Public Schools

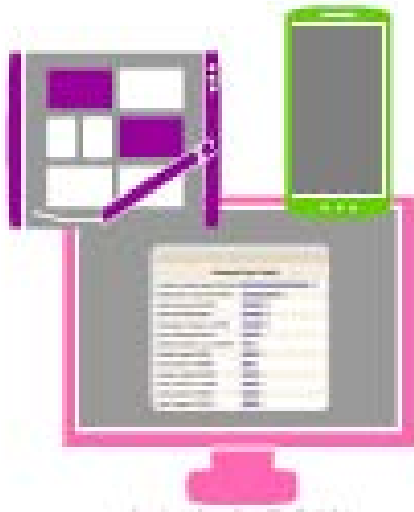
Research, Evaluation and Assessment  
Dr. Stacey Gray Akyea, Director

July 2017



Office of Accountability  
Research, Evaluation & Assessment

# What is BOLT?



- Tableau software
  - Software to create /modify reports and dashboards
- Tableau server software
  - website with user licenses to access reports and dashboards
- CIC templates
  - templates built for use with CAMPUS and Tableau
- Campus Student Information System



# The Case for Refinement

- Consistent data reporting application
- Data reporting solution
  - Merge dynamic live reporting with static reporting
  - Merge various reporting strategies
- Facilitates use of data for inquiry, exploration and analysis at school or program level for decision making
- Allows for interactive exploration of data
- Introduces ability to combine data categories domains (demographic, perception, student learning and school program/process), in a comprehensive way



# The Road to BOLT

2004 SwiftKnowledge – Instructional Technology

2005 SPPS Data Center- Strategic Planning

2006 SPPS Data Center – REA

2005 SPPS Data Coaching – Center for Professional Development

2009 RFP for Data Warehouse

2011 Oracle SPA – Operations (IT)/ Accountability (REA)

2014 BOLT – IT/REA



# System of Self-Service Analytics...

- Ethical and responsible data use
- Student Privacy
- Data Literacy
- Data to the People
- Process to Explore
- Suite of Tools





# The Tableau Drive Manual

A practical roadmap for scaling  
your analytic culture



# Data Literacy

Comfort/Ease/Joy/Pleasure/in the

- a. creation,
- b. collection,
- c. access,
- d. analysis,
- e. interpretation,
- f. understanding,
- g. synthesis,
- h. evaluation,
- i. use and
- j. discourse

of information relevant to one's perspective



# Protecting Private Information

The Family Educational Rights and Privacy Act (FERPA) is a federal law that affords parents the right to have access to their children's education records, the right to seek to have the records amended, and the right to have some control over the **disclosure** of **personally identifiable information** from the education records.





# Infrastructure for BOLT

- Developers
- Center Of Excellence (CoE)
- StudioB
- TS/REA ongoing communication
- User Orientation
- Test/Production Environment



# Challenges

- Authorization
- Table / Infrastructure
- Organizational Alignment
- Scale Up
- Managing Expectations
- Data Literacy
- Documentation / Quality Assurance



# Sites

- 1 main
- 12 specific



# Dashboards

- Enrollment
- Assessment
- Grades
- Secondary Absence
- Facilities
- Title I Homeless
- Dual Language
- Senior Survey
- Integration Task Force
- Early Childhood

Select a Site

- 5Essentials
- Advanced Courses STUDIO B
- Bolt
- Dual Language Assessment STUDIO B
- Early Childhood Screening STUDIO B
- Facilities
- FocusOnFreshman STUDIO B
- Homeless STUDIO B

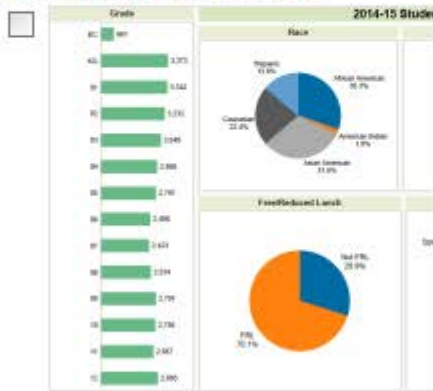


## Views

Delete Permissions Tag

Sort By: Name ↑ Project Sheet# Modified Publisher

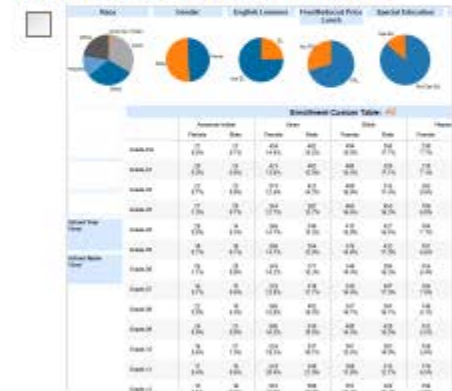
### Demographic Analysis



### Enrollment Analysis - All Students



### Enrollment: Custom Table



- Admin
- Content**
- Projects 2
- Workbooks 3
- Views** 3
- Data Sources 0

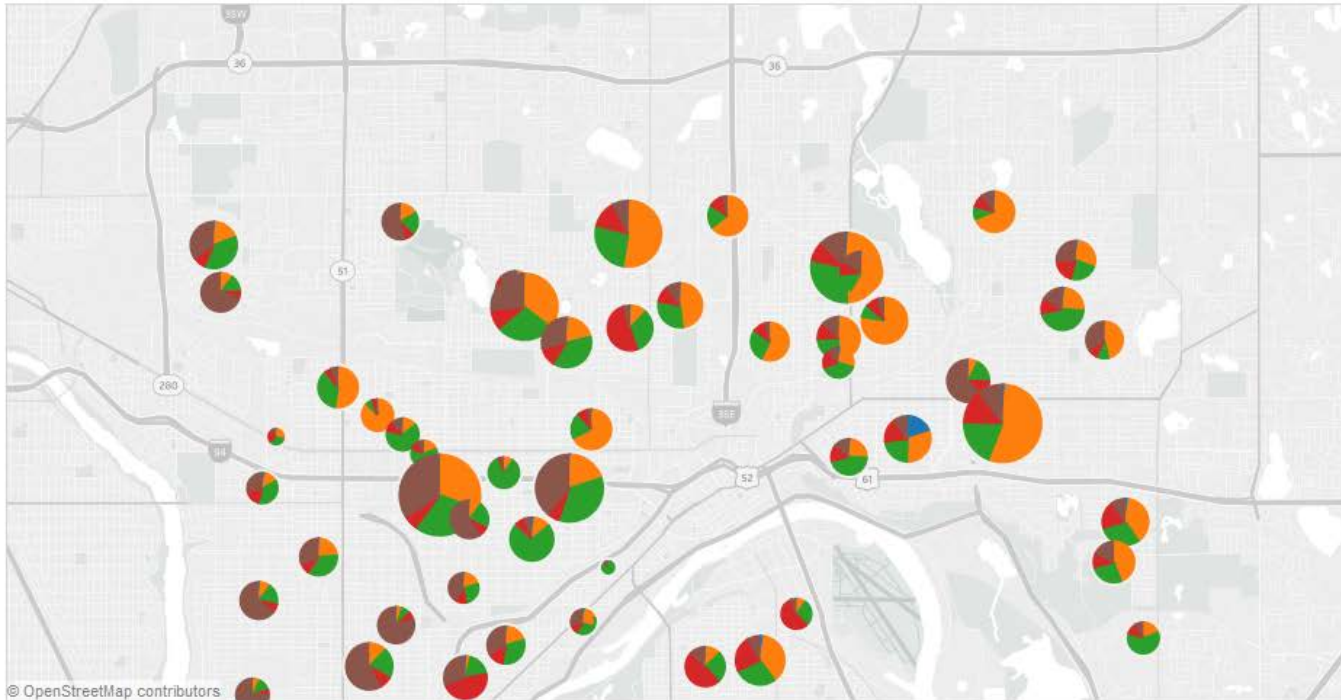
Filters

- PROJECT
- Any Project
- PUBLISHER
- Any Publisher
- TAG
- Any Tag
- MODIFIED ON OR AFTER
- Any Date

Thumbnails per page:  Pages: 1 / 1 Prev Next



- Student Group**
- American Indian
  - Asian
  - Black
  - Hispanic
  - White



**School Year22**

- 12
- 13
- 14
- 15
- 16
- 17

**Student Group**

- American Indian
- Asian
- Black
- Hispanic
- Total
- White

Apply Cancel



## OVERVIEW

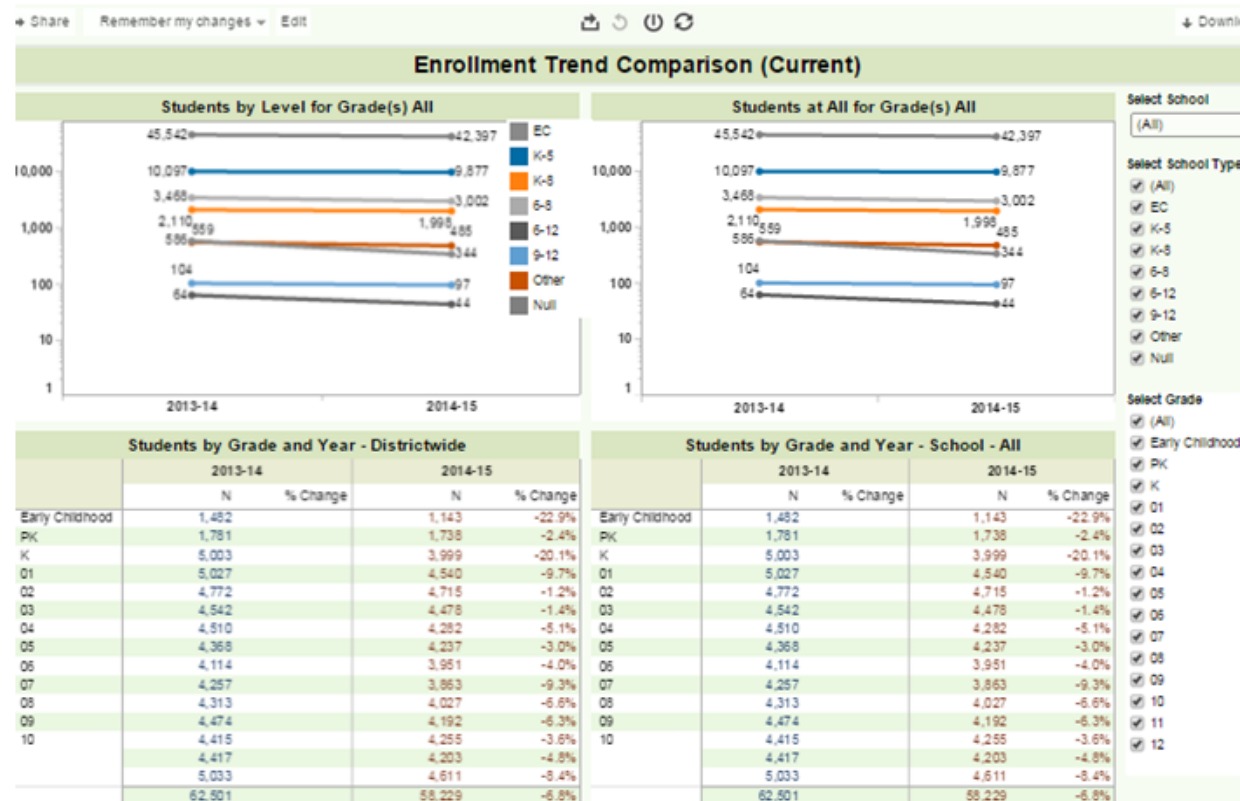
### Enrollment: Trend Comparison (Current)

Compare numbers of students at different levels across multiple years

Dashboard comprised of four main visualizations that compare the trend in enrollment between the district and selected groups of schools/grades.

Examples of key questions the dashboard will answer:

1. How does my school compare to others in the district
2. How do schools compare?
3. How do areas compare?



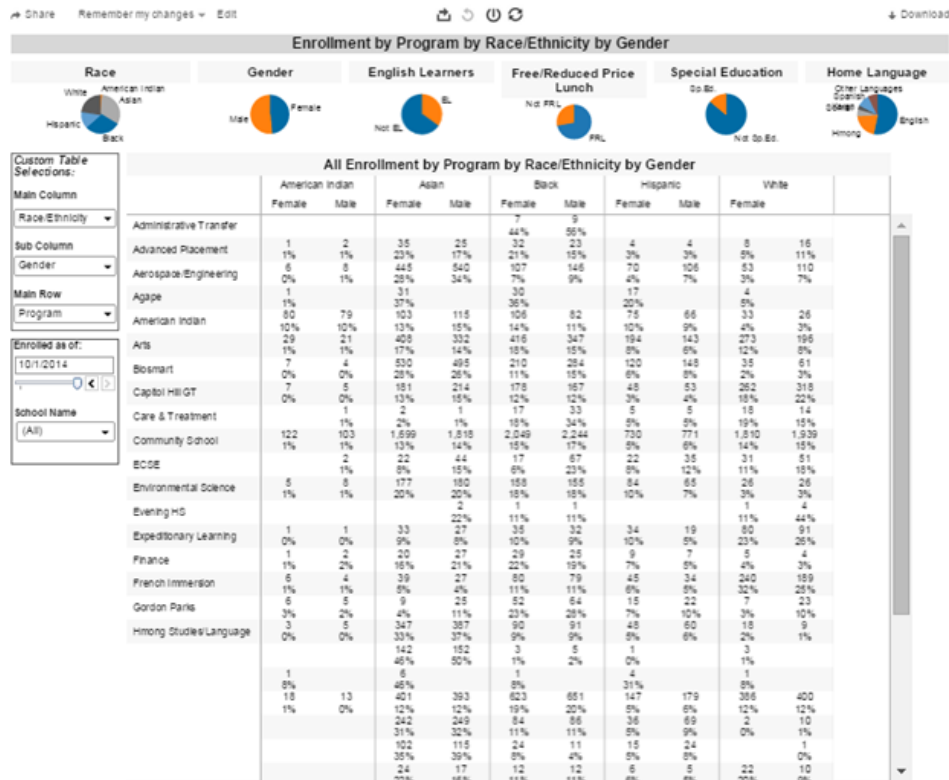
# Enrollment: Custom Table (Current)

Details of numbers of our students

Dashboard comprised of several small pie charts and one table that presents detailed numbers and percentages of students as determined by the selected filters.

Examples of key questions the dashboard will answer:

1. Who are our students? What are their characteristics, broken down into multiple categories?
2. What languages do they speak?
3. What Areas of St. Paul do they live in?
4. How many students in my school are classified in which programs for Transportation purposes?



### End of Term Final Marks and Grade-Based Focus Factor for Students in Grade 09 at Central Sr in 2016-17 Qtr1

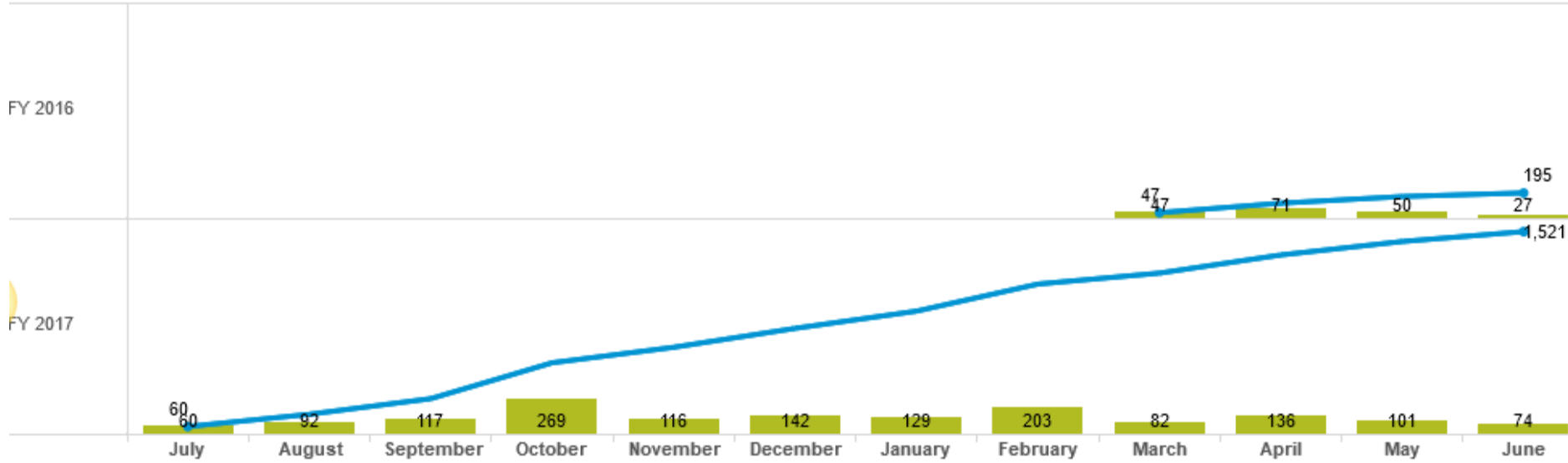
Focus Factor	Overall Average Grade in Points	Challenge Factor (# advanced courses)	Year/Term - Student Number	LastName	FirstName	Grade	Overall Average Letter Grade	Count of All Course Fs	Count of Core Fs	Lowest Course Grade	Lowest Dept L Grade	Lowest Dept M Grade	Lowest Dept H Grade	Lowest Dept S Grade	
13	0.00	0	2016-17 Qtr1 638535	Lema	Melina	09	F	7	5	NC	NC	NC	NC	NC	13
12	0.00	0	2016-17 Qtr1 742883	Gulley	Dyon	09	F	6	5	NC	NC	NC	NC	NC	12
			2016-17 Qtr1 740045	Seivers	Jianni	09	F	6	5	NC	NC	NC	NC	NC	12
			2016-17 Qtr1 656819	Martin	Heaven	09	F	7	4	NC	NC	NC	NC	NC	12
			2016-17 Qtr1 651321	Kolb	Kenshell	09	F	6	5	NC	NC	NC	NC	NC	12
			2016-17 Qtr1 637888	Gunn	Jacob	09	F	7	4	NC	NC	NC	NC	NC	12
			2016-17 Qtr1 627208	Whitlock-White	Caleb	09	F	6	5	NC	NC	NC	NC	NC	NC
11	0.00	0	2016-17 Qtr1 760012	Nur	Safi	09	F	6	4	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 710868	Brown	Clarence	09	F	5	5	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 656337	Acon	Sharay	09	F	6	4	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 651606	Collins	Ashanti	09	F	5	5	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 639594	Coleman	Teyonna	09	F	5	5	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 740832	Calvin	Keyairra	09	F	6	4	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 642367	Schmidt	Alexander	09	F	5	5	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 641549	Howell	La Donna	09	F	6	4	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 719153	Ciriaco-Martinez	Pablo	09	F	5	5	NC	NC	NC	NC	NC	11
			2016-17 Qtr1 668492	Henderson	Athena	09	F	6	4	NC	NC	NC	NC	NC	11
0.45	0	2016-17 Qtr1 657486	Oliver	Coryontay	09	F	5	5	NC	NC	NC	NC	NC	11	





# Tableau Server Log Information: Last Log in on 6/23/2017

Logins by Month and Total Logins



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