Establishing a Climate of Analytics
Saint Paul Public Schools

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

July 2017
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 domaines (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
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

<table>
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<tr>
<th>Focus Factor</th>
<th>Overall Average Grade in Points</th>
<th>Challenge Factor (# advanced courses)</th>
<th>Year/Term - Student Number</th>
<th>LastName</th>
<th>FirstName</th>
<th>Grade</th>
<th>Count of All Course Fas</th>
<th>Count of Core Fas</th>
<th>Overall Letter Grade</th>
<th>Lowest Course Grade</th>
<th>Lowest Dept L Grade</th>
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