Business Intelligence For Education

A Journey Worth Taking

TPS CIO 2007-2017
Tacoma Public Schools

CITY OF 200,000

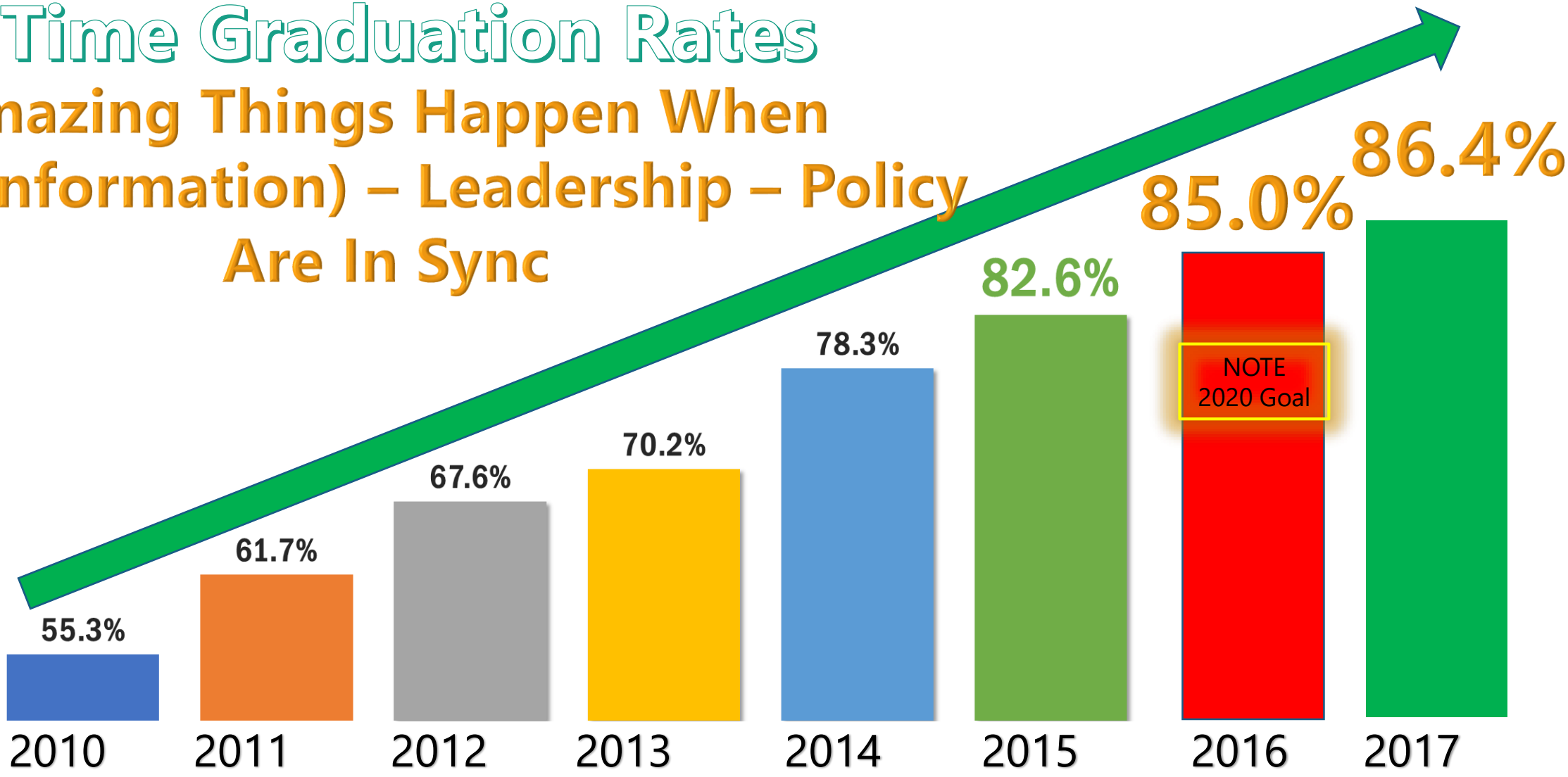
50+ LANGAUGES SPOKEN IN OUR SCHOOLS

INNOVATION DISTRICT

3rd LARGEST SCHOOL DISTRICT IN WASHINGTON

4 Year
On-Time Graduation Rates

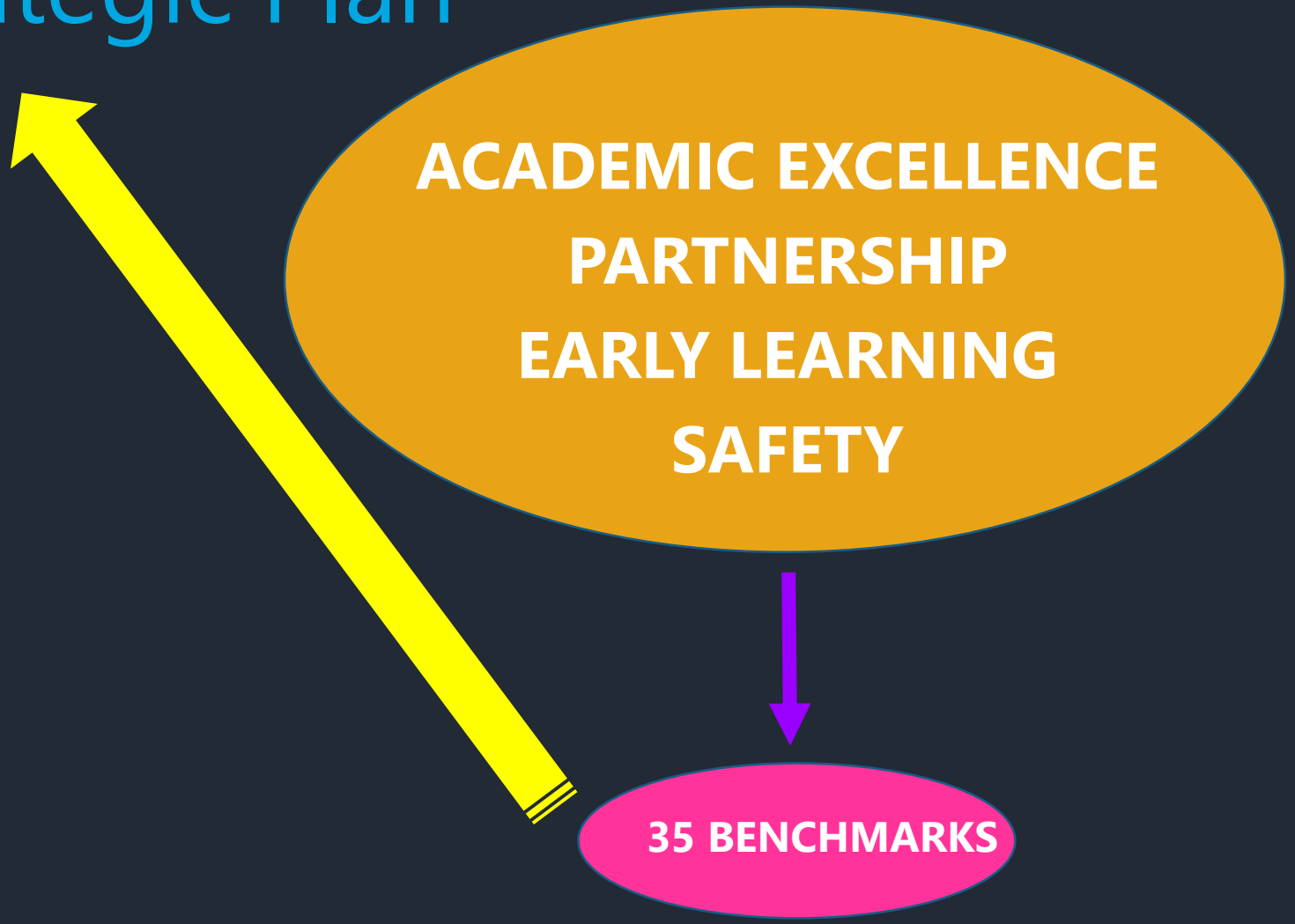
Amazing Things Happen When Data (information) – Leadership – Policy Are In Sync

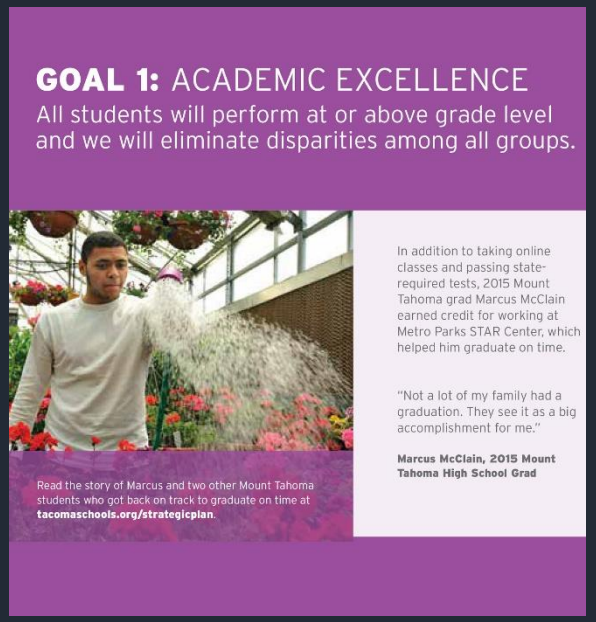


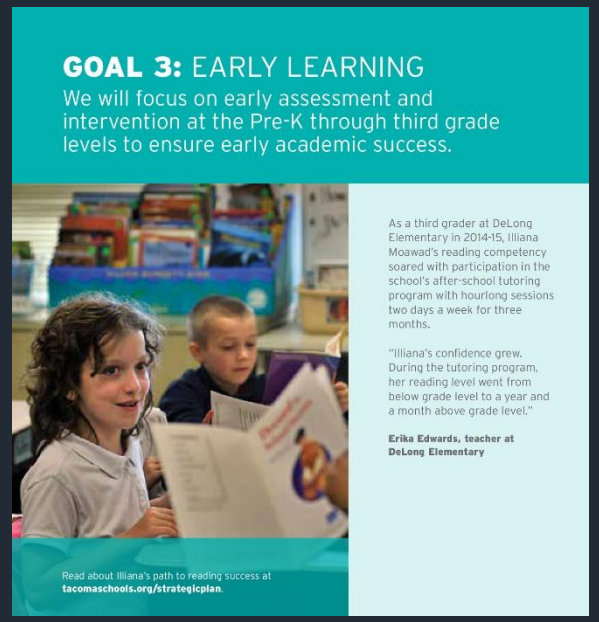
School Board Translated
Strategic Plan into Measurable Benchmarks

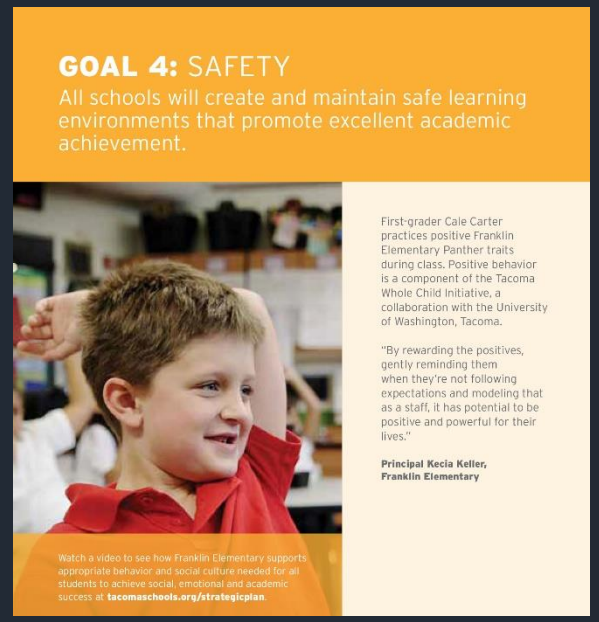
You Get
What You Measure

Strategic Plan









Board Adopts Benchmarks

To Support Strategic Goals

Policy + LEADERSHIP + Business Intelligence

=

RESULTS FOR KIDS

Must Provide
Courageous Leadership

Don't Shy Away From Low Numbers

Must Be Patient
And Consistent

Data will Help Guide Changes in Policies And Practices

Business Information Vs Business Intelligence

BI ≠ BI

THE DIFFERENCES

Business Information BI

INFORMATIVE

- Benchmarks between similar organizations
  - Top 10 comparisons of student performance
    - By program; By school; By …..
- Benchmarks on Annual Results - Often Not Actionable
- Comparative Analysis and Trends on a High Level

BI Business Intelligence

INFORMATIVE & ACTIONABLE

- Helps to determine specific course of action
- Possibly identify a needed intervention in a real time basis
  - Before it is too late to act effectively
- Possibly identify specific PD for specific staff that has a demonstrated success pattern in the classroom.

Alignment of the Stars

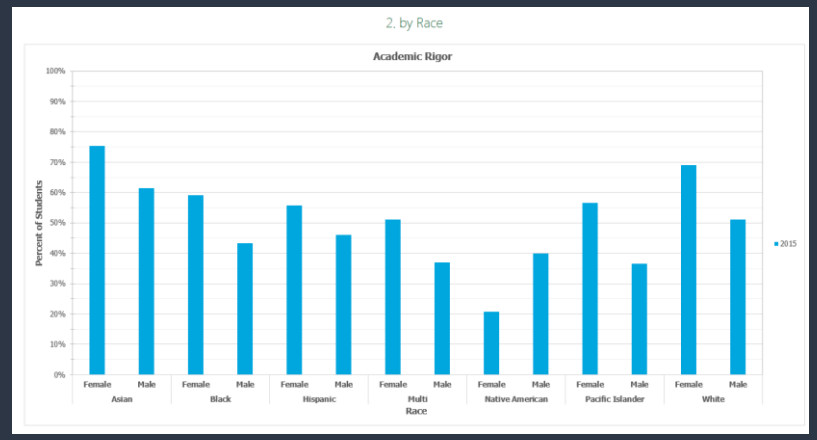
School Board Policies And Guidance

District Data Driven Leadership

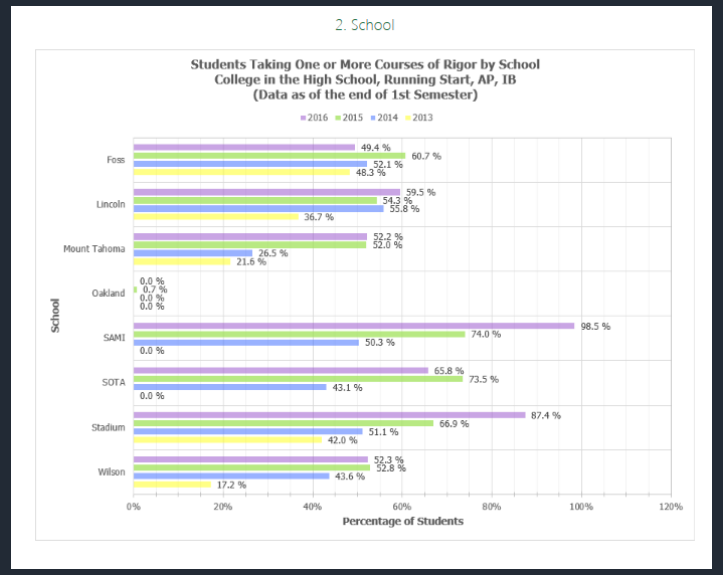
Technology Tools

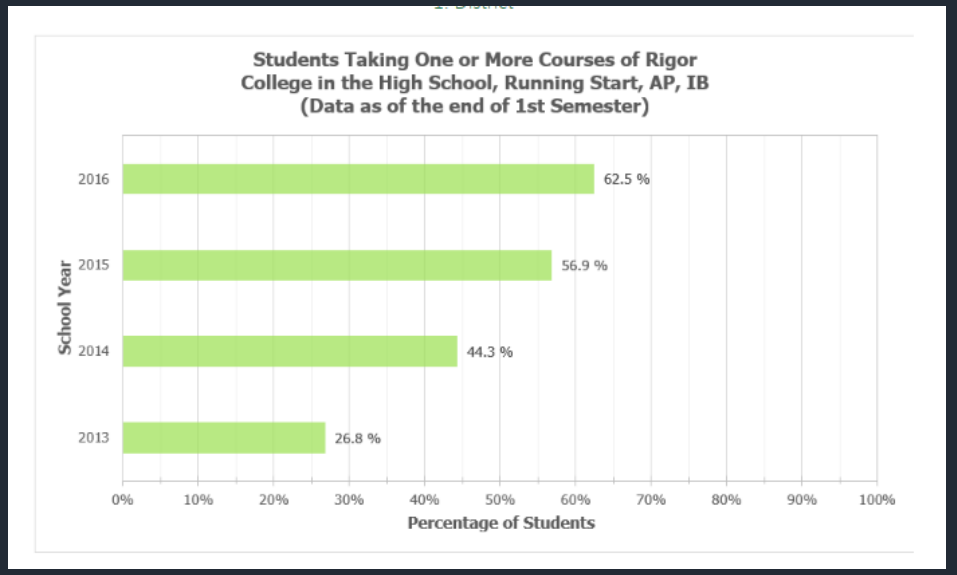
DATA DRIVEN CONVERSATION

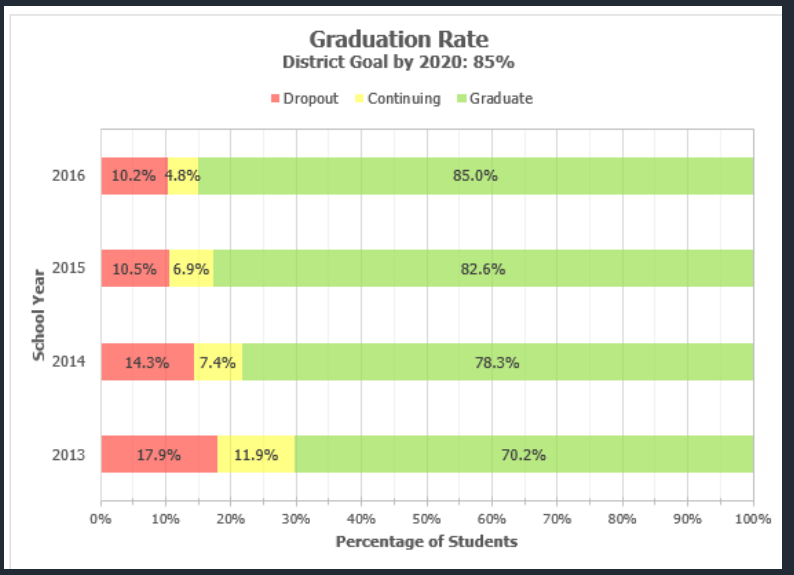
- Transparency is the Key
- The Journey
  - Determining the Right Data Needs
  - Capturing the Right Data
  - Sharing with ALL **to Change the Conversation**
- Once the Data is Ready – Time to Display the Data and Teach What it is Saying

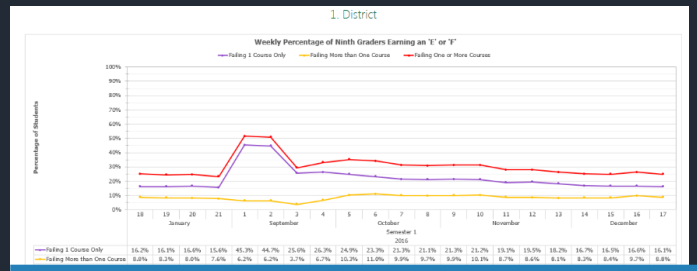


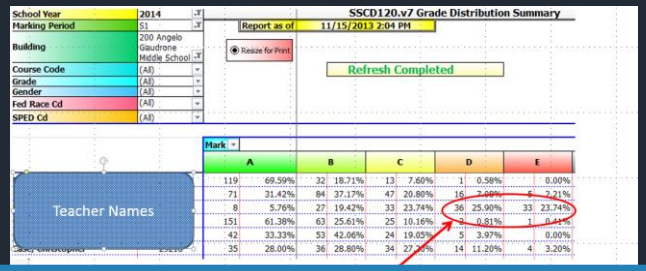
Measure What You Can Impact



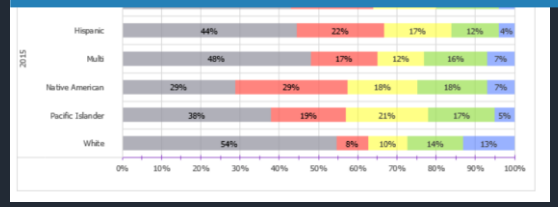


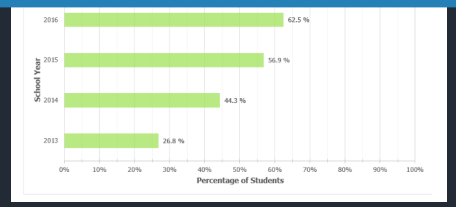


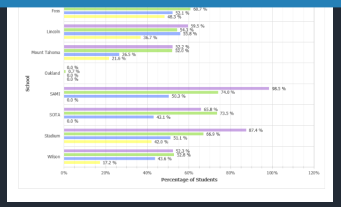


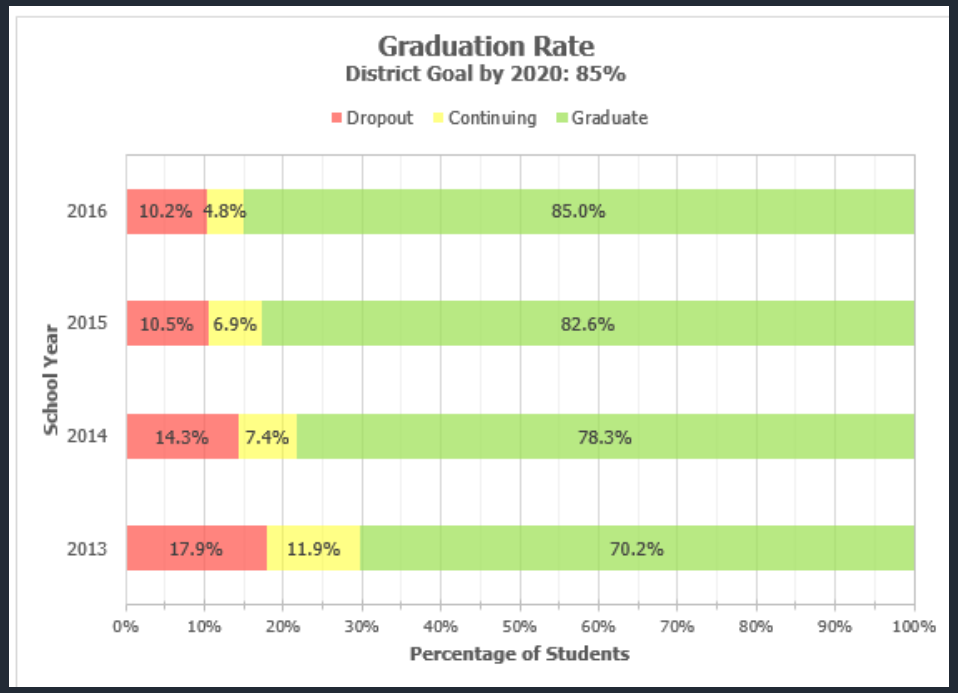


Major Influencing Operational Reports

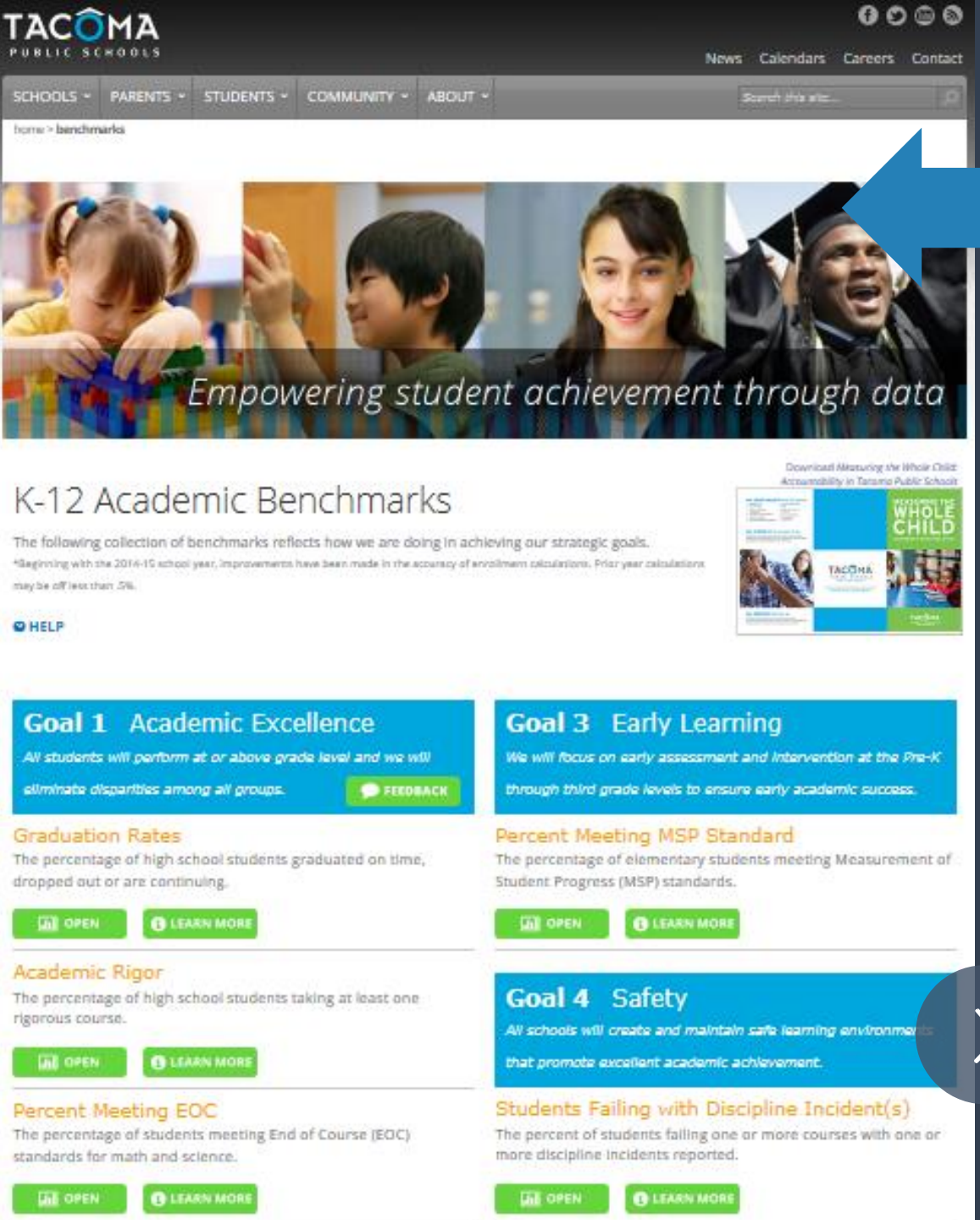




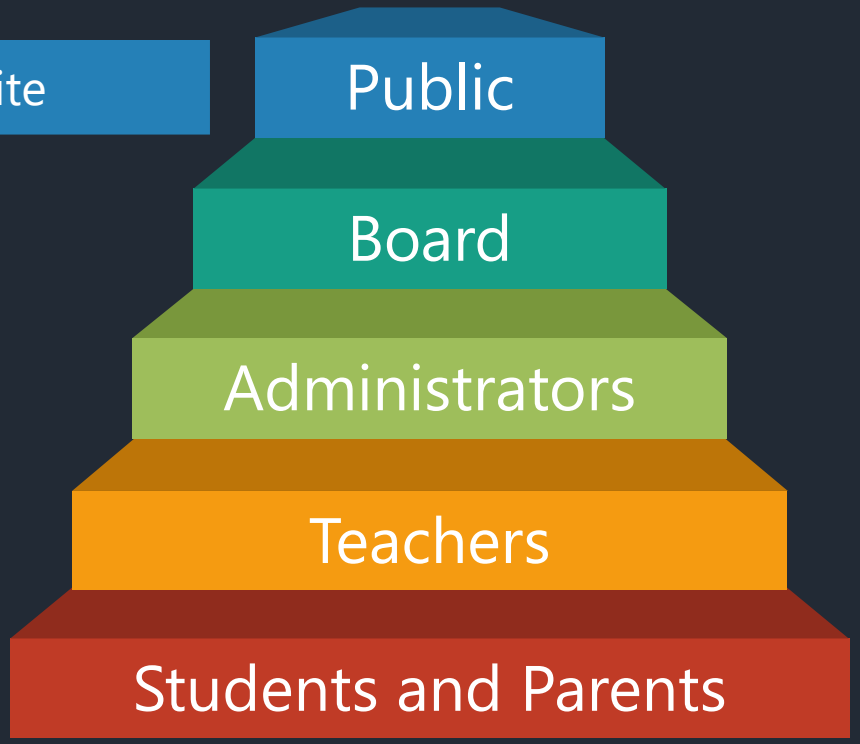




BENCHMARK



Public Web Site

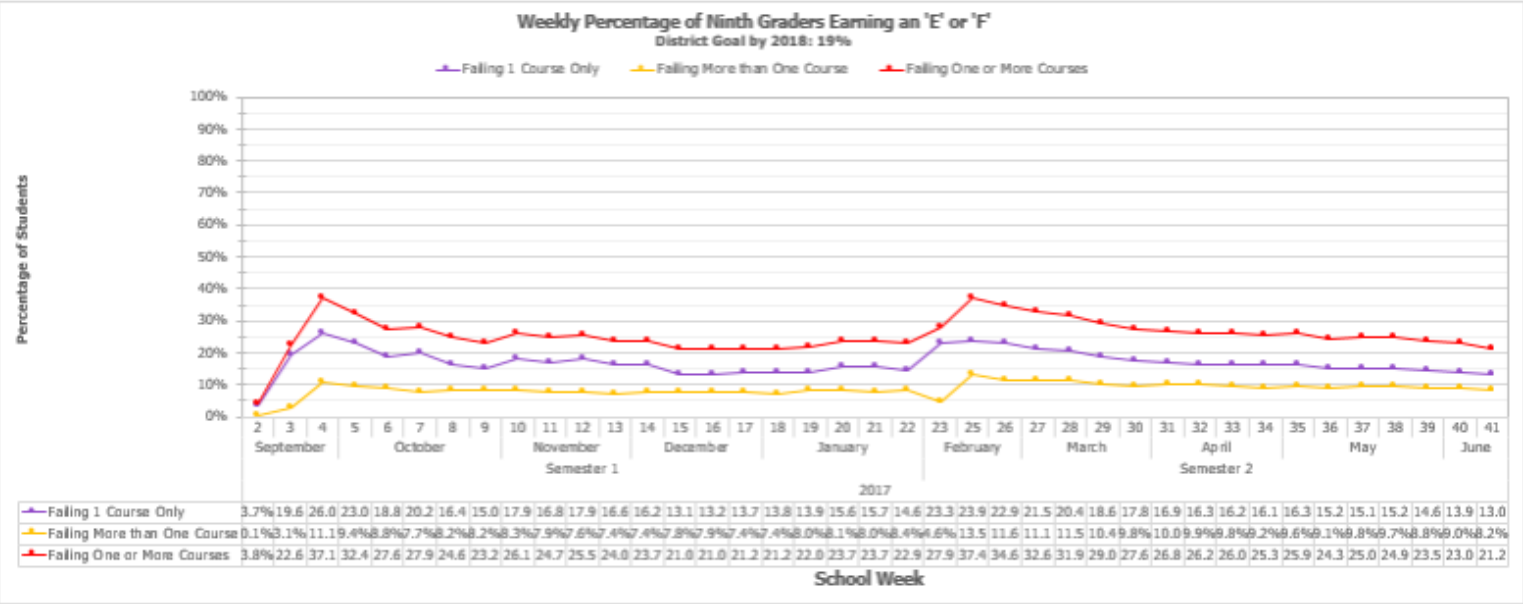


Official Benchmarks

Filters

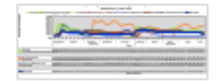
- School Year: June Endi...
  - 2018
  - 2017
  - 2016
  - 2015
  - 2014
- Semester
- School
- Race
- Gender
- English Language Lear...
- Free Reduced Lunch

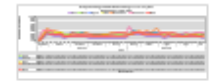
1. District



View

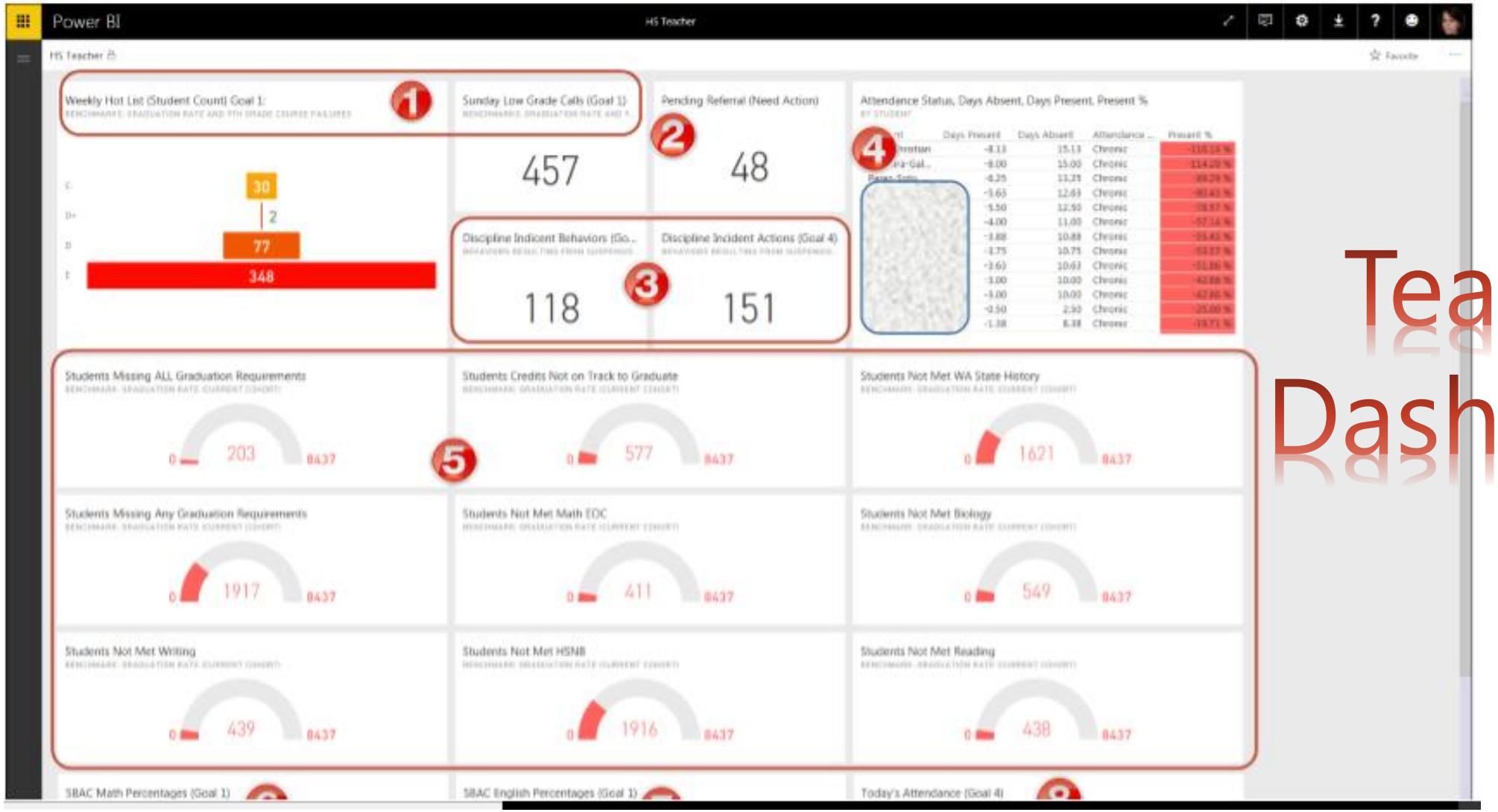
1. District


2. School

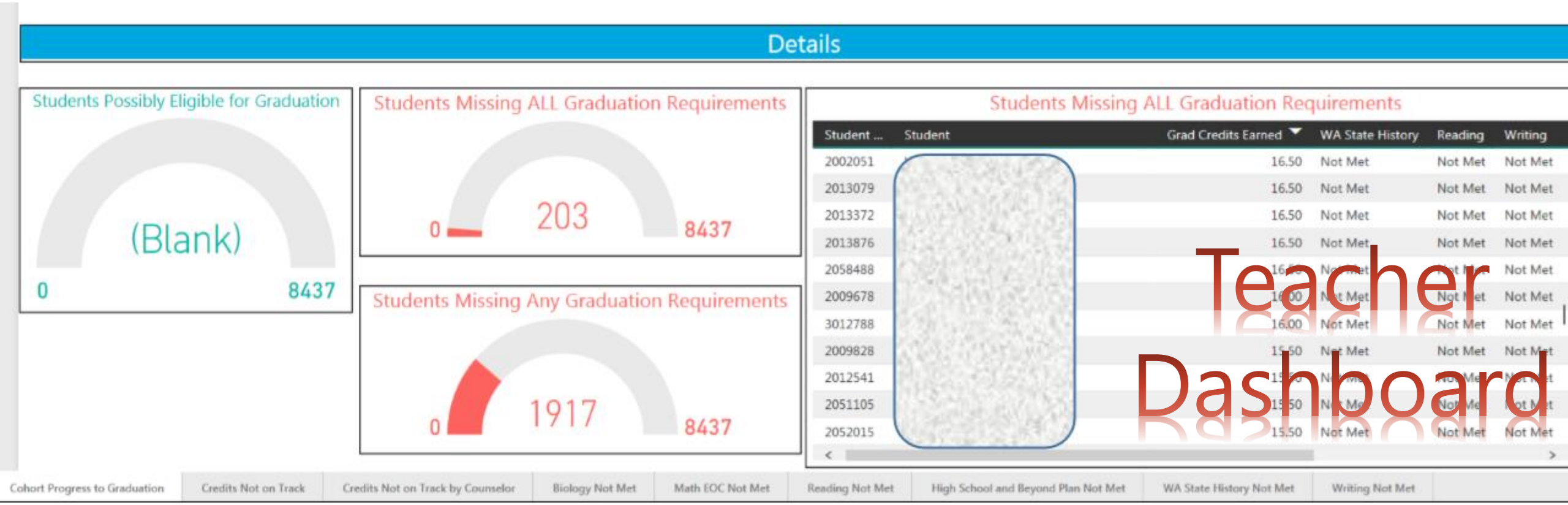

3. Race

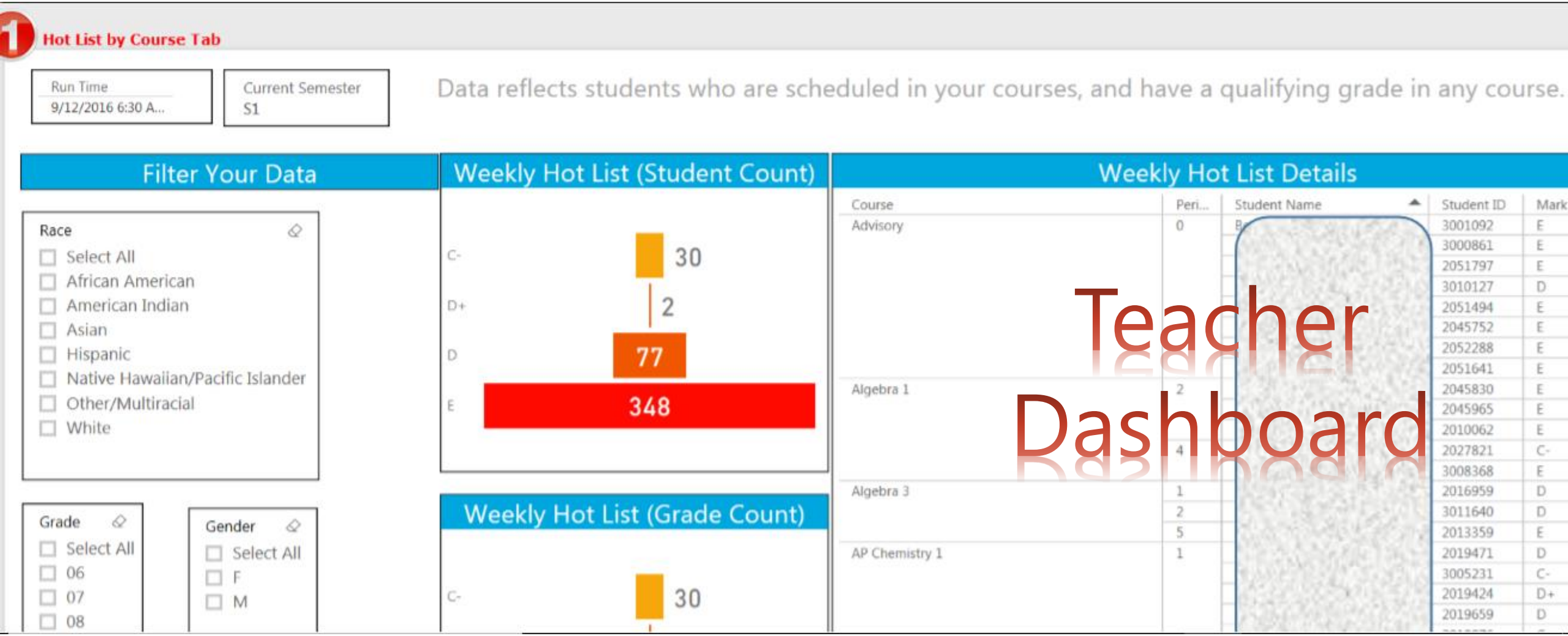
4. Trend 1 Failure

5. Trend >1 Failures



Teacher Dashboard


Details
Students Possibly Eligible for Graduation
(Blank)
0
8437
Students Missing ALL Graduation Requirements
0
203
8437
Students Missing Any Graduation Requirements
0
1917
8437
Students Missing ALL Graduation Requirements
Student ... Student Grad Credits Earned WA State History Reading Writing
2002051 16.50 Not Met Not Met Not Met
2013079 16.50 Not Met Not Met Not Met
2013372 16.50 Not Met Not Met Not Met
2013876 16.50 Not Met Not Met Not Met
2058488 Not Met
2009678 Not Met
3012788 16.00 Not Met Not Met Not Met
2009828 Not Met Not Met
2012541
2051105
2052015 15.50 Not Met Not Met Not Met
Teacher Dashboard
Cohort Progress to Graduation
Credits Not on Track
Credits Not on Track by Counselor
Biology Not Met
Math EOC Not Met
Reading Not Met
High School and Beyond Plan Not Met
WA State History Not Met
Writing Not Met


1
Hot List by Course Tab
Run Time
9/12/2016 6:30 A...
Current Semester
S1
Data reflects students who are scheduled in your courses, and have a qualifying grade in any course.
Filter Your Data
Race
Select All
African American
American Indian
Asian
Hispanic
Native Hawaiian/Pacific Islander
Other/Multiracial
White
Grade
Select All
06
07
08
Gender
Select All
F
M
Weekly Hot List (Student Count)
C-
30
D+
2
D
77
E
348
Weekly Hot List (Grade Count)
C-
30
Weekly Hot List Details
Course
Peri...
Student Name
Student ID
Mark
Advisory
0
3001092
E
3000861
E
2051797
E
3010127
D
2051494
E
2045752
E
2052288
E
2051641
E
Algebra 1
2
2045830
E
2045965
E
2010062
E
4
2027821
C-
3008368
E
Algebra 3
1
2016959
D
2
3011640
D
5
2013359
E
AP Chemistry 1
1
2019471
D
3005231
C-
2019424
D+
2019659
D
Teacher
Dashboard

Senior Leadership
Walks the Talk

For Kids

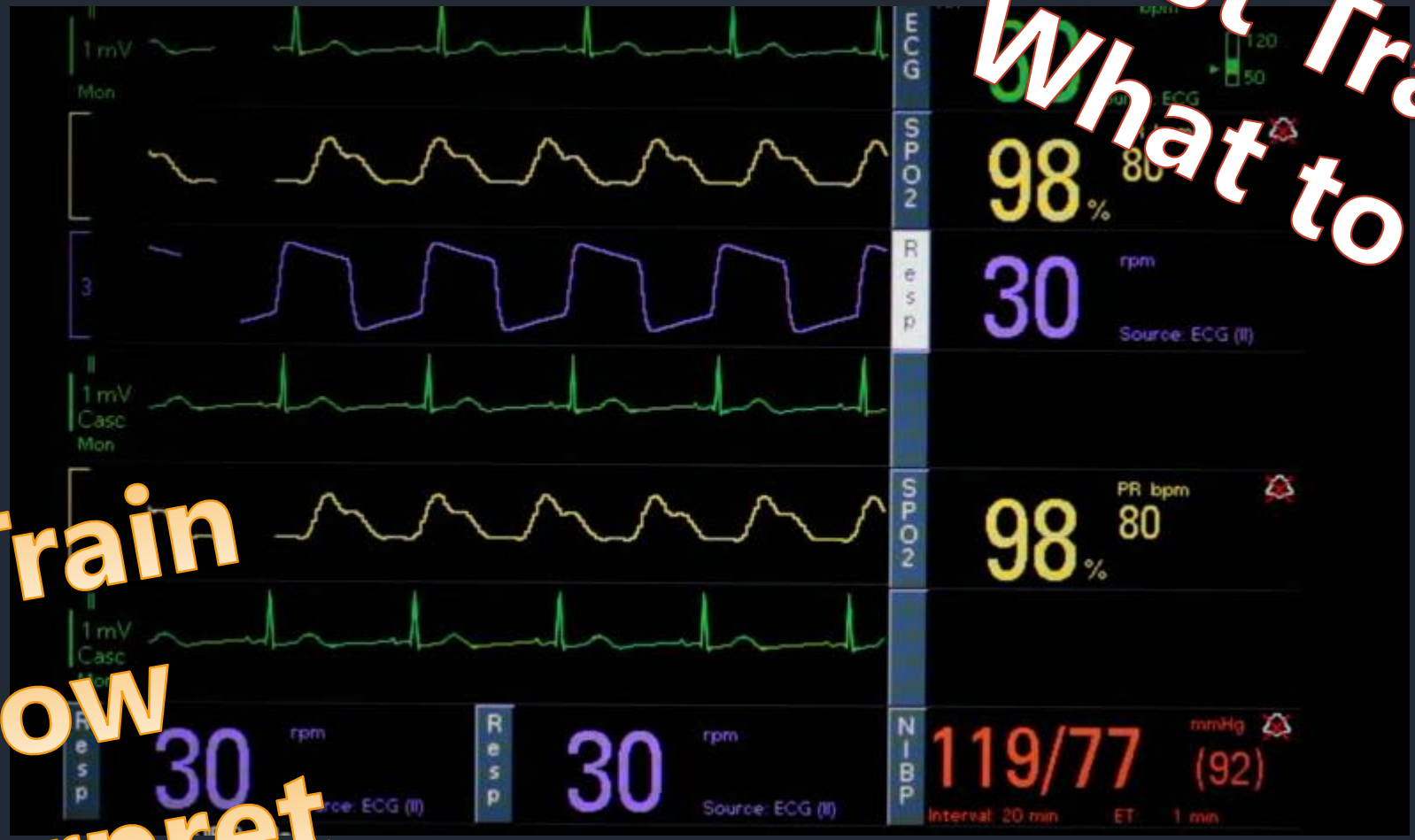
Every Meeting
Every Opportunity

School Leadership
Constantly Engages Staff around Data

Teaming for Success With a Common View

For Kids

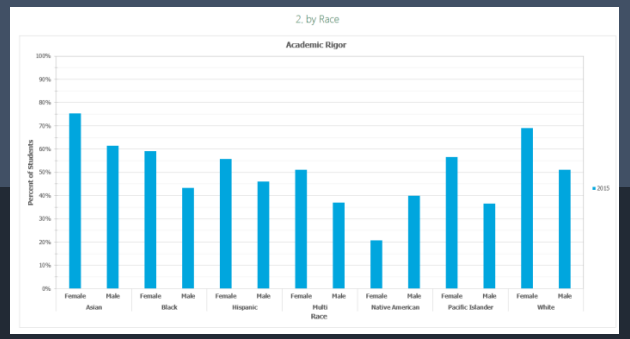
Must Train on What to Do.

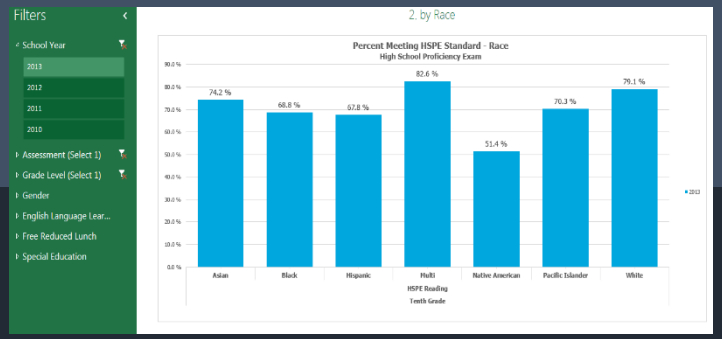


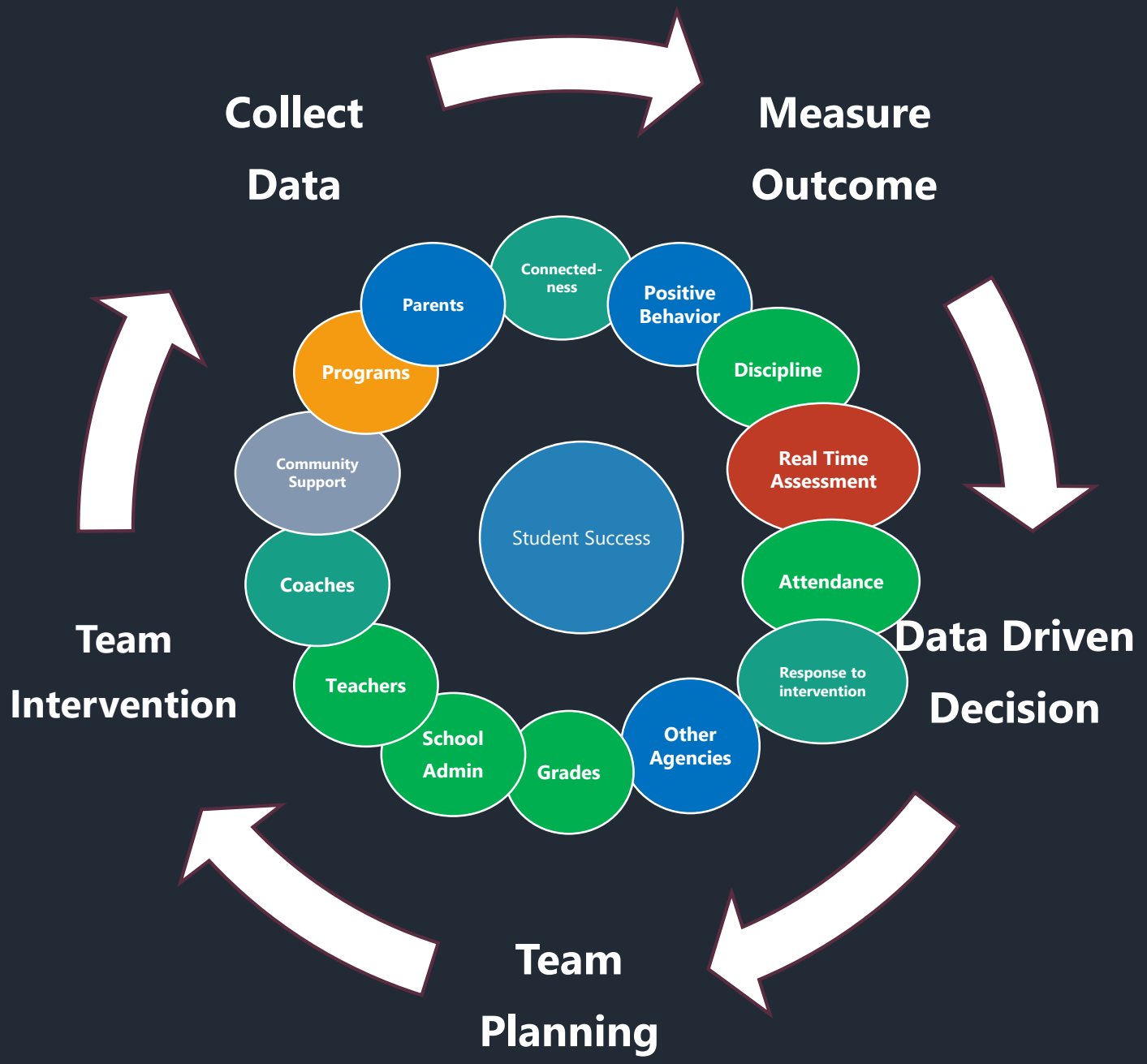
Must Train On How To Interpret

AGILE DEVLOPMENT METHOD

THE STORY IS IN THE DATA






Collect Data
Measure Outcome
Data Driven Decision
Team Planning
Team Intervention
Student Success
Parents
Connected-ness
Positive Behavior
Discipline
Real Time Assessment
Attendance
Response to intervention
Other Agencies
Grades
School Admin
Teachers
Coaches
Community Support
Programs

QUESTIONS