BREAKING DOWN SILOS

Building a Data and Analytics Ecosystem to Support Next Generation Learning

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Katy Independent School District

KATY INDEPENDENT SCHOOL DISTRICT

5th Largest School District in Texas ≈ 84,000 students

Ranked #1 School District in the Houston area by Niche, 2019

Named Top Ten US Schools for Digital Curriculum by the Learning Counsel

Named Top Ten Digital Schools (#2) by the Center for Digital Education & National School Boards Association

Named District of Distinction for Improving Access to Data for All Users by District Administration Magazine

WHAT DID WE DO?

WHY DID WE DO IT?

STRUGGLES & ROADBLOCKS

IMPACTS TO DECISION-MAKING

WHERE WE GO FROM HERE?

WHAT DID WE DO?

- Star Schema Data Warehouse (based on the Kimball dimensional model)
- Information Delivery Portal (Performance Management Portal)
- Secure Dashboards

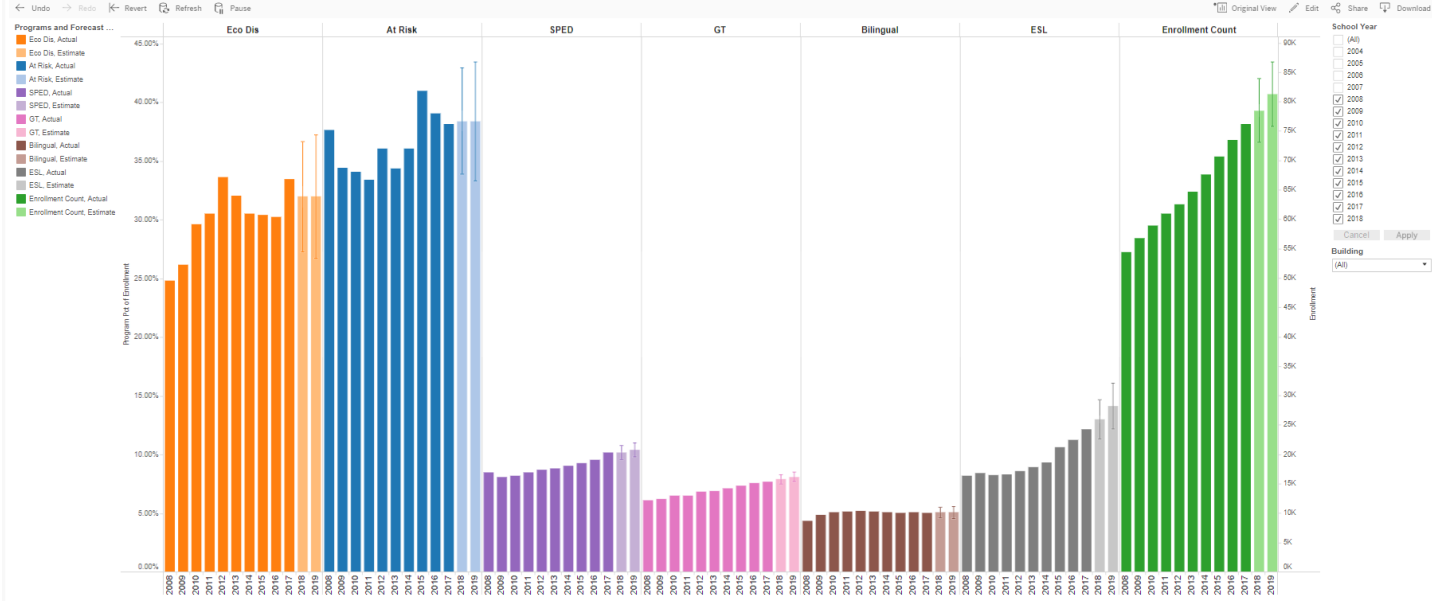# WHY DID KATY ISD CHOOSE TO FOCUS ON BUILDING A DATA AND ANALYTICS ECOSYSTEM?

- **Empower our Stakeholders and Provide Transparency**

- Manage Growth and Demographic Shift

- Create a Single Source of Truth
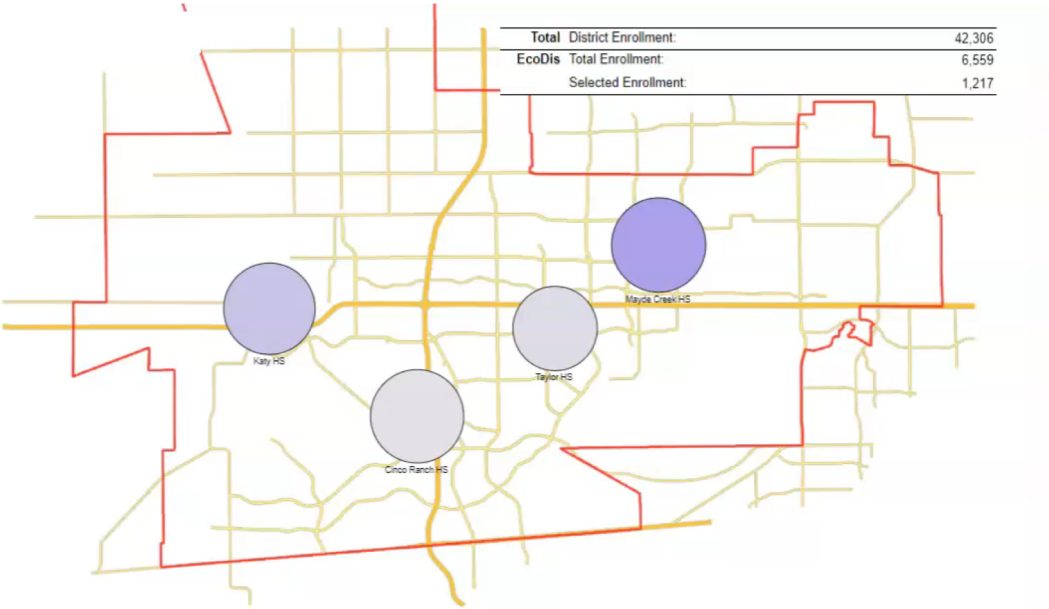
I. EMPOWER OUR STAKEHOLDERS & PROVIDE TRANSPARENCY
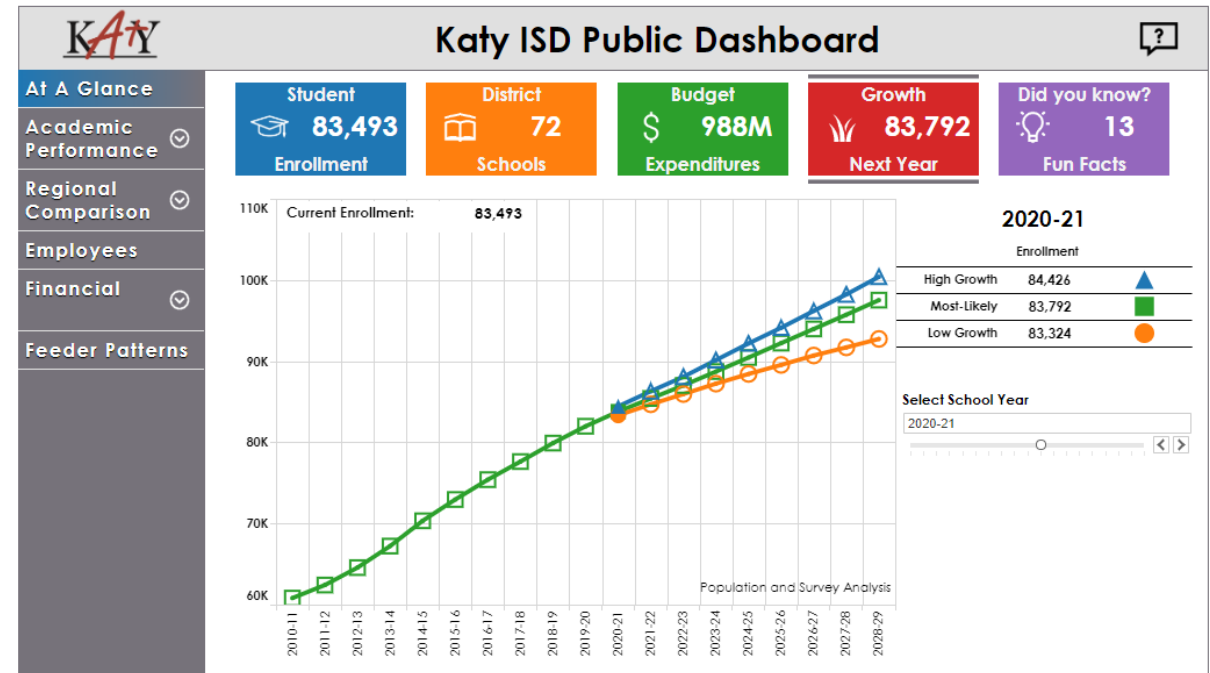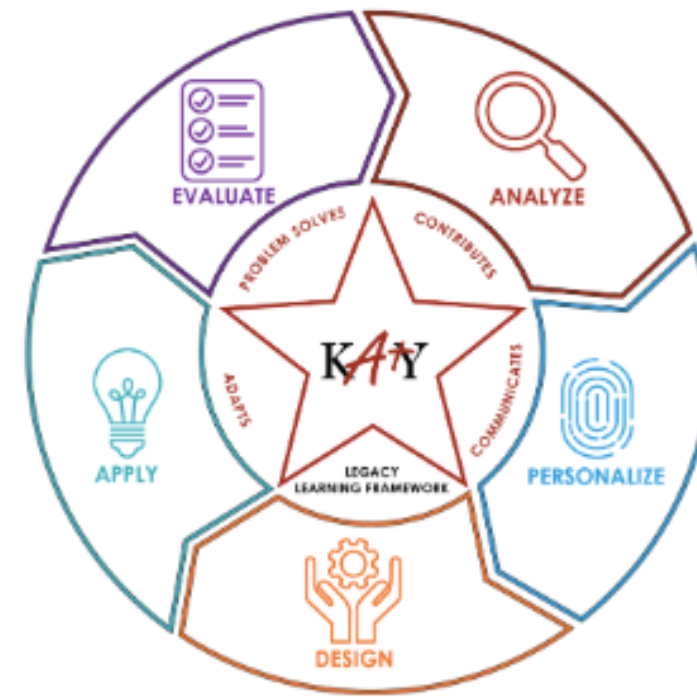
Why did Katy ISD choose to focus on building a data and analytics ecosystem?
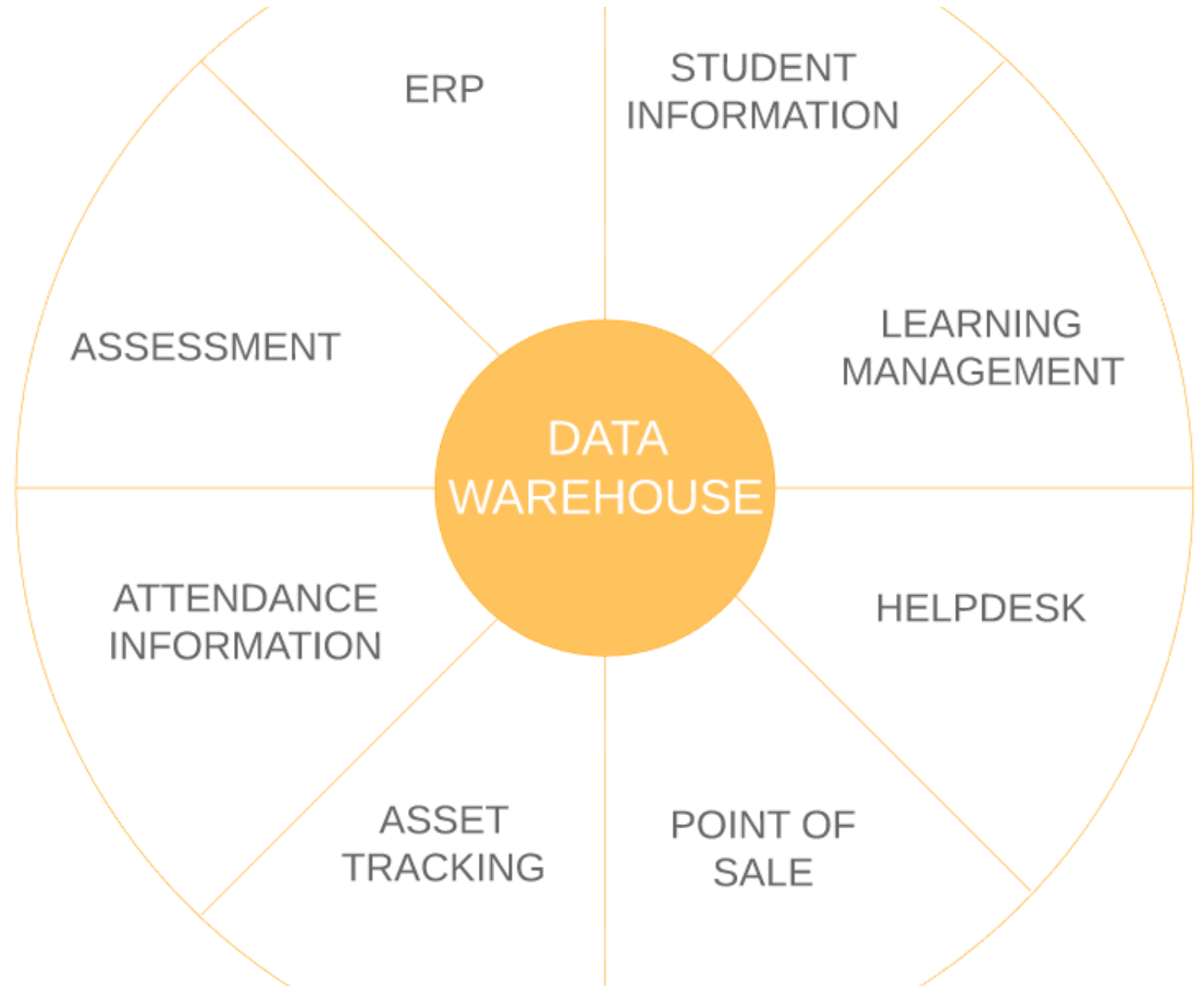
II. MANAGE GROWTH & DEMOGRAPHIC SHIFT

Why did Katy ISD choose to focus on building a data and analytics ecosystem?

III. A SINGLE SOURCE OF TRUTH

Why did Katy ISD choose to focus on building a data and analytics ecosystem?

ERP

STUDENT INFORMATION

ASSESSMENT

LEARNING MANAGEMENT

DATA WAREHOUSE

HELPDESK

ATTENDANCE INFORMATION

ASSET TRACKING

POINT OF SALE

WHAT STRUGGLES & ROADBLOCKS DID KATY ISD ENCOUNTER?

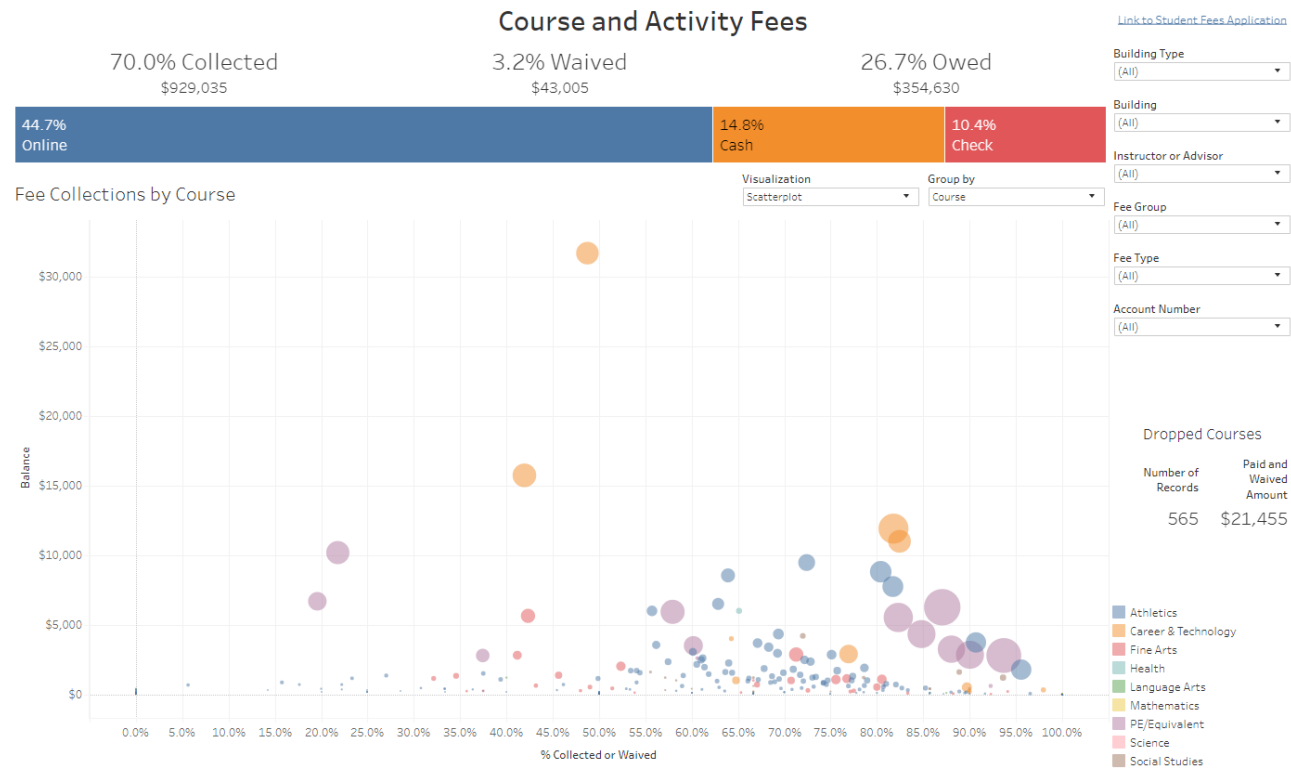- Technical / Security

- Buy-In

- Ownership

I. TECHNICAL / SECURITY

What struggles and roadblocks did we encounter?

II. BUY IN – LEARN TO WALK BEFORE YOU RUN
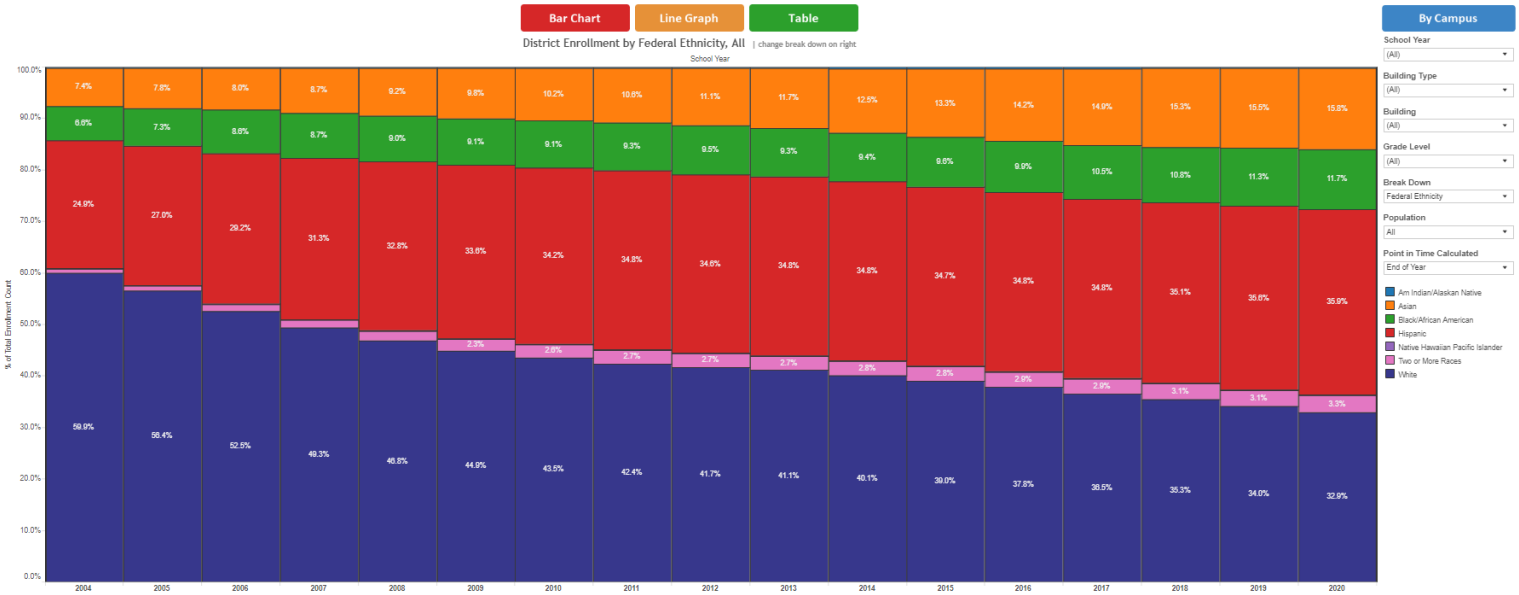
What struggles and roadblocks did we encounter?

III. OWNERSHIP

What struggles and
roadblocks did we encounter?

Course and Activity Fees

70.0% Collected — $929,035
3.2% Waived — $43,005
26.7% Owed — $354,630

Fee Collections by Course

Fountas & Pinnell BAS and STAAR Reading

WHAT IMPACTS HAVE ANALYTICS MADE ON INSTRUCTIONAL, OPERATIONAL AND STRATEGIC DECISION MAKING?
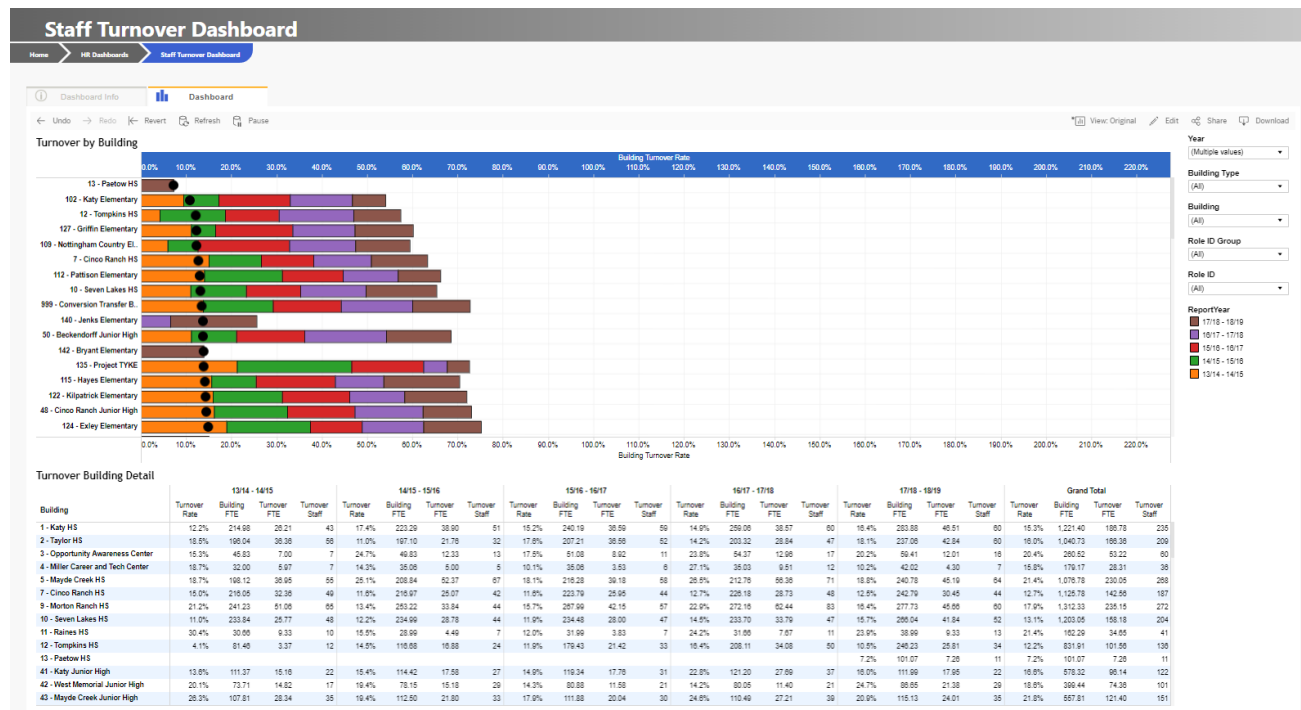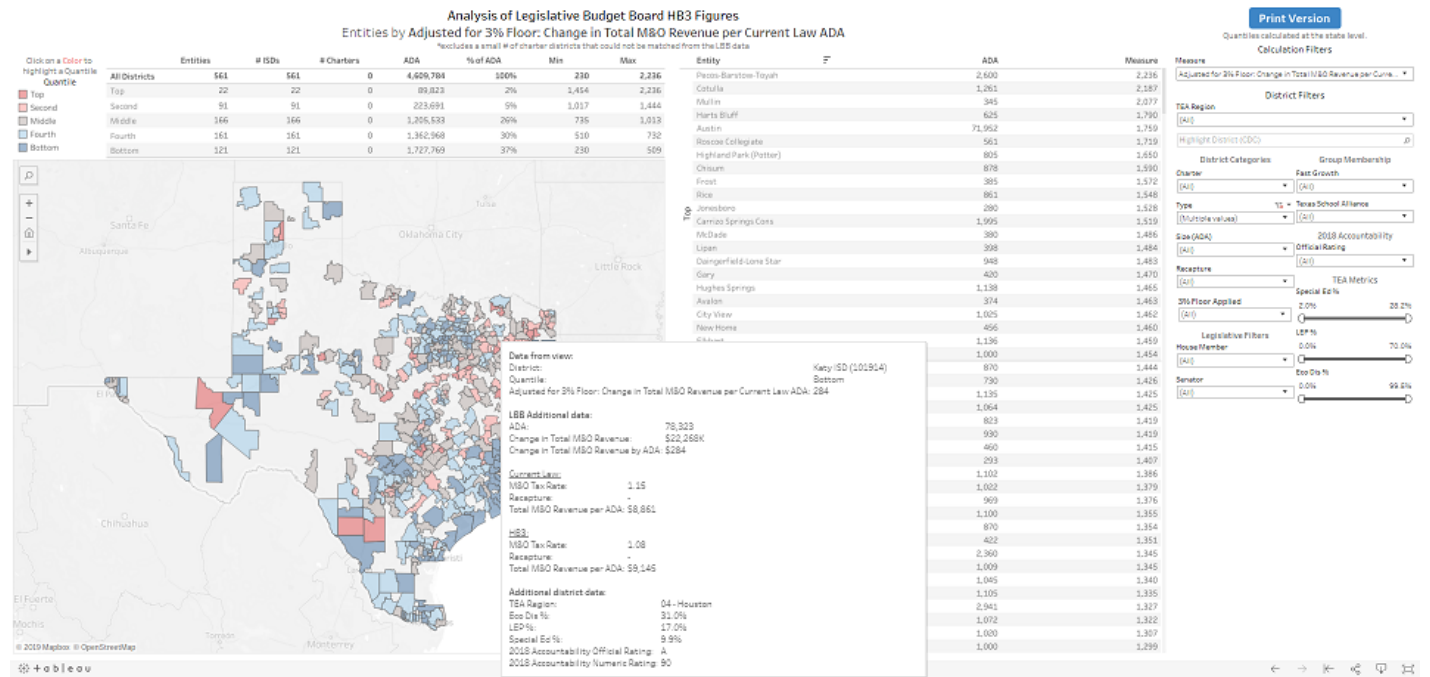
- Personalized Learning

- Operational Decision Making

- Social Emotional Learning

I. PERSONALIZED LEARNING
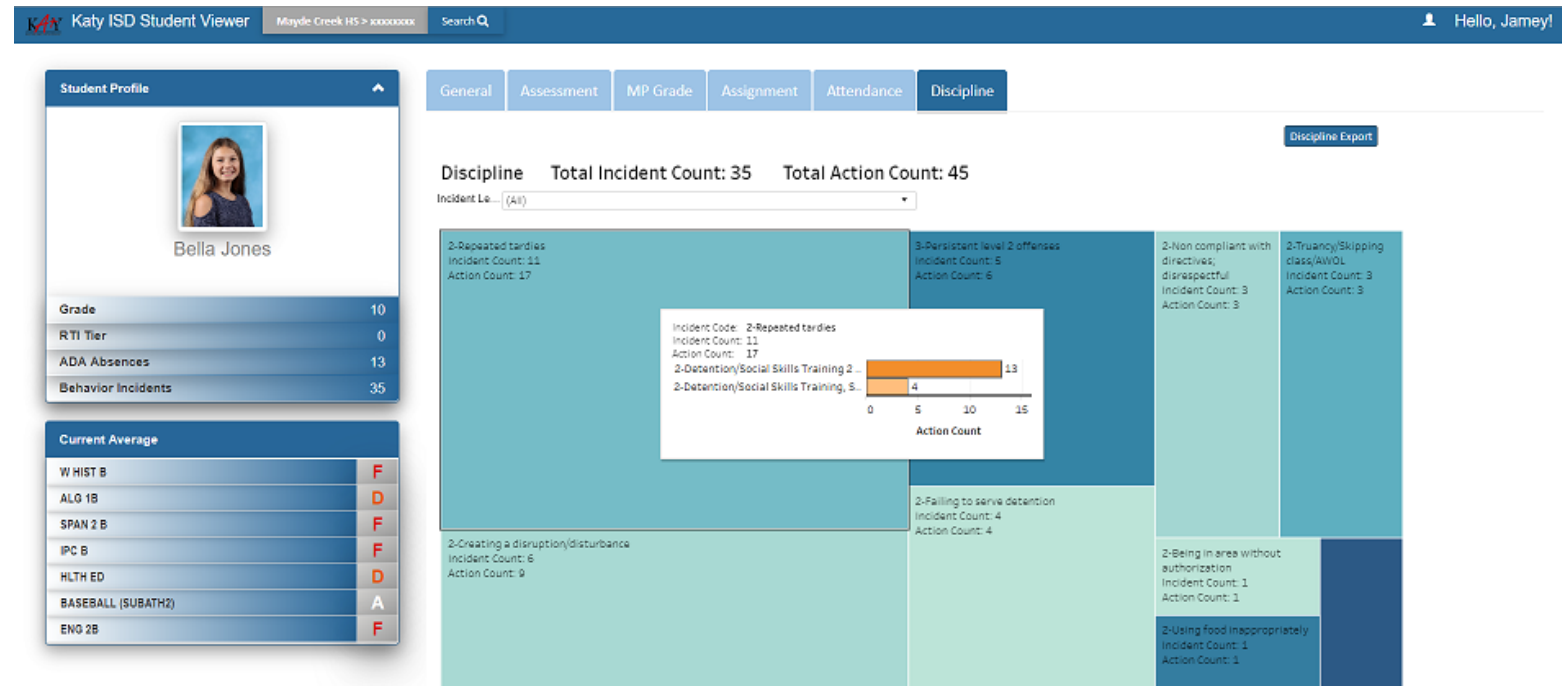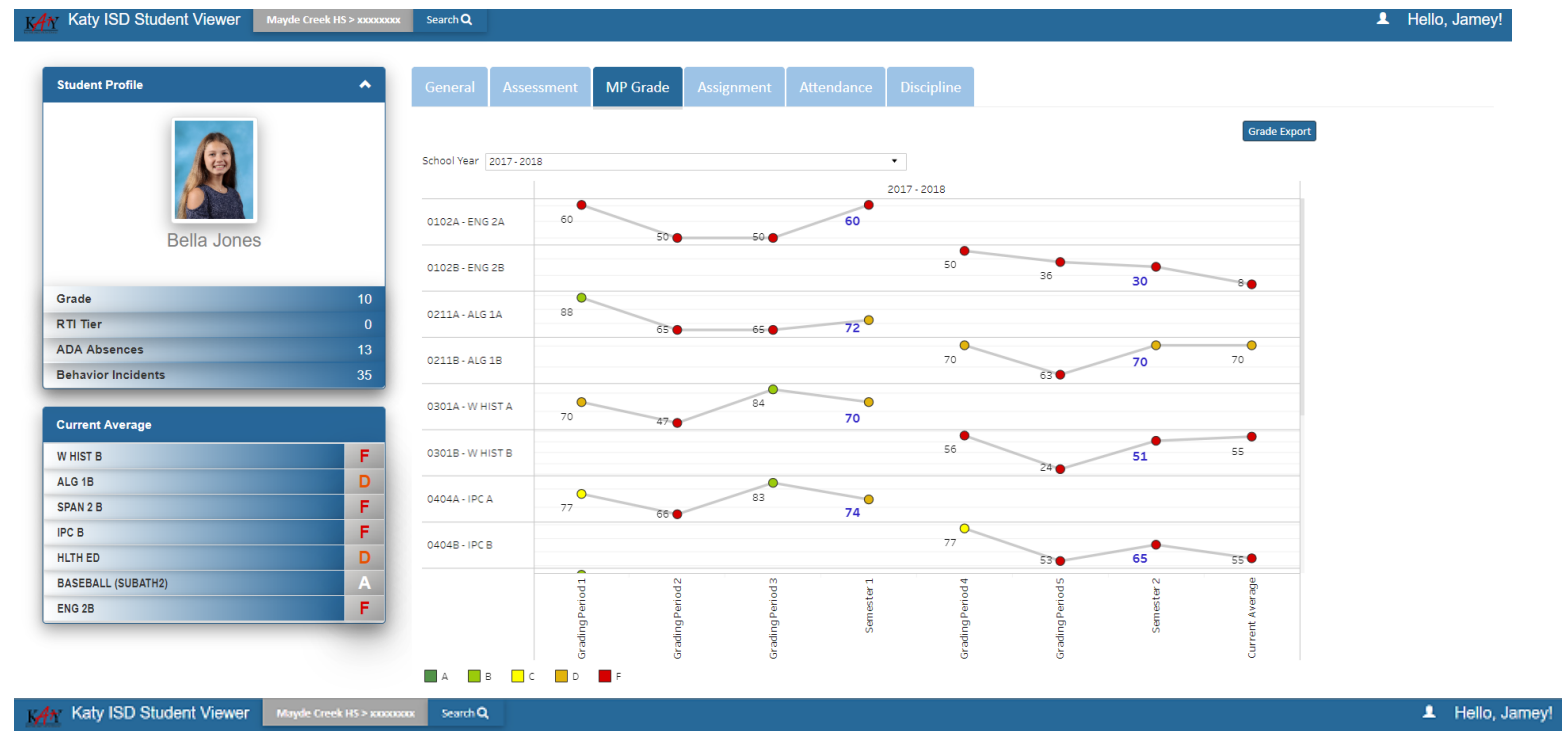
WHAT IMPACTS HAVE ANALYTICS MADE ON INSTRUCTIONAL, OPERATIONAL AND STRATEGIC DECISION MAKING?

II. OPERATIONAL DECISION MAKING

WHAT IMPACTS HAVE ANALYTICS MADE ON INSTRUCTIONAL, OPERATIONAL AND STRATEGIC DECISION MAKING?

III. SOCIAL EMOTIONAL LEARNING

WHAT IMPACTS HAVE ANALYTICS MADE ON INSTRUCTIONAL, OPERATIONAL AND STRATEGIC DECISION MAKING?
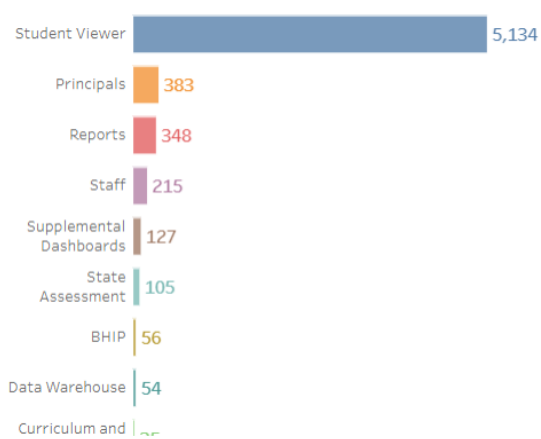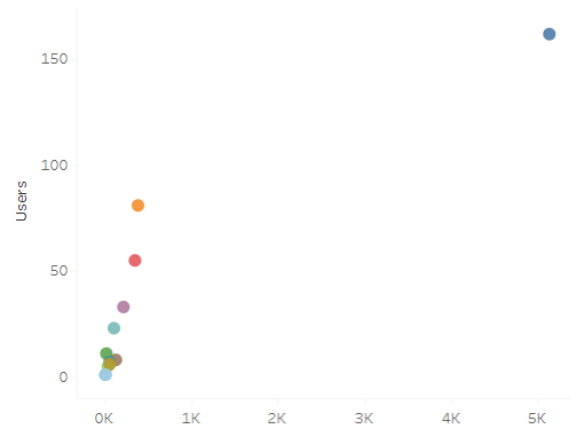
THE PATH FORWARD... WHERE KATY ISD GOES FROM HERE

- Standardization
- Hosted Data & Services
- **Predictive Analytics**

Usage and users for published views on Tableau Server
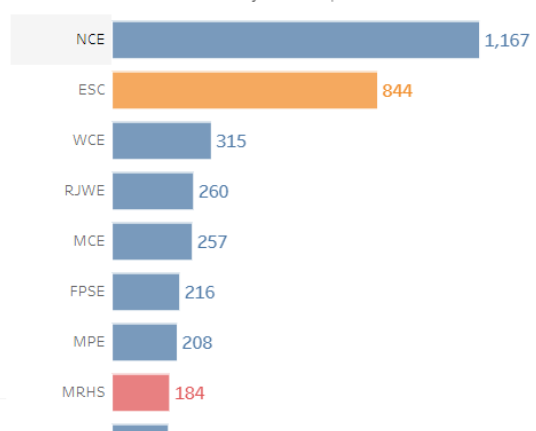Academic, Assessment, Business and 5 more **for the last 30 days**
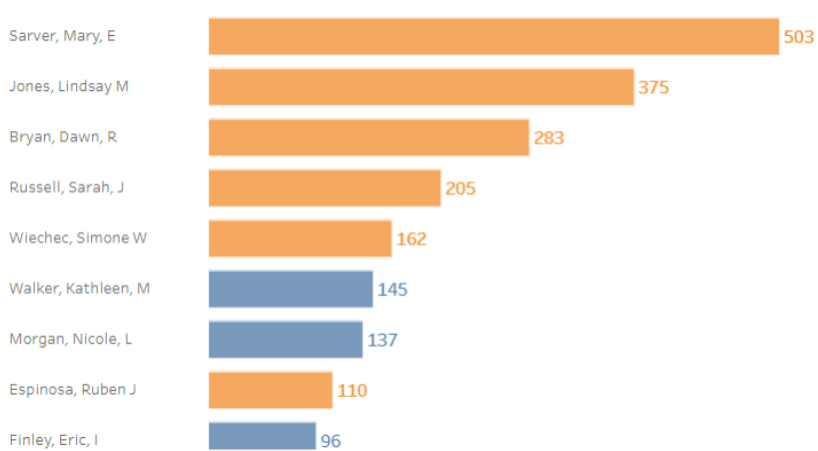
Total views by Project | click to filter

Project	Views
Student Viewer	5,134
Principals	383
Reports	348
Staff	215
Supplemental Dashboards	127
State Assessment	105
BHIP	56
Data Warehouse	54
Curriculum and	

Number of Views & Distinct Users by Project | click to filter

Total views by location | click to filter

Location	Views
NCE	1,167
ESC	844
WCE	315
RJWE	260
MCE	257
FPSE	216
MPE	208
MRHS	184

Top users | click to filter

User	Views
Sarver, Mary, E	503
Jones, Lindsay M	375
Bryan, Dawn, R	283
Russell, Sarah, J	205
Wiechec, Simone W	162
Walker, Kathleen, M	145
Morgan, Nicole, L	137
Espinosa, Ruben J	110
Finley, Eric, I	96

Usage by time / day | click to filter
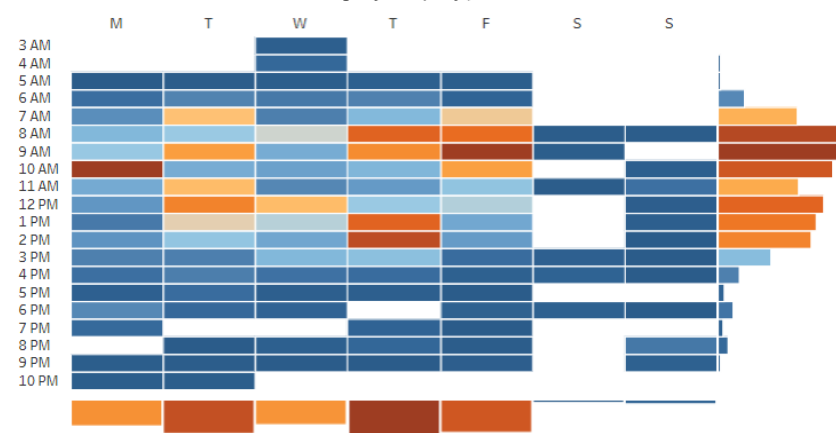
6,490 | Total views

Filters

Project	User
Measure	**Exclude Devs**
Total views	Yes
Detail By	**Group**
Project	(All)
Timeframe	**User**
Last 30 days	(All)
Site	**Location by Security**
(All)	(All)
Project	
(All)	
Workbook	
(All)	
View	
(All)	

User type is based on groups. 'Other' contains staff with only user access.

- **All** - 286 users at 64 locations with 6,490 views
- **AP** - 81 users at 48 locations with 1,347 views
- **Campus** - 116 users at 47 locations with 4,130 views
- **ESC** - 54 users at 1 locations with 767 views
- **Principal** - 28 users at 29 locations with 169 views
- **Other** - 7 users at 1 locations with 77 views