Education Analytics
A Maturity Model And Success Story

Content provided by Microsoft
Education Analytics
A maturity model and success story
Presenters

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Agenda

1. Welcome and introduction
2. Education Analytics: A Maturity Model
3. Introduction to St. Lucie
4. The St. Lucie approach and outcome
5. Go-do’s
Welcome and introduction

Mark Sparvell
Education Leader
Microsoft

@sparvell
Education Analytics: A Maturity Model

Dr. Cathy Cavanaugh
Principal Program Manager
Microsoft

@cathycavannah
Who is at greater risk?
Who is at greater risk?
Challenges to harnessing data effectively

**Siloed data** impedes leaders’ and teachers’ ability to understand and predict student outcomes.

**Lack of insights** makes it hard to identify needs and target support to all students.

Absence of **unified views** of data prevents schools from optimizing resources.
Education Transformation Framework

https://aka.ms/etf
Educational analytics maturity model

01 Entry level countries
02 Emerging level countries
03 Advanced level countries
04 Transformative level countries
What is your vision?
How will you measure success?
Intro to St. Lucie

Dustin Ryan
Data Platform Solutions Architect
Microsoft

@SQLDusty
Challenges

Disconnected data sources

Difficult to create flexible, dynamic data visualization

Users unable to efficiently access data

No self-serve or data exploration

Data not in optimal format for advanced analytics
Requirements

- Provide users with real-time access to organizational data sources with greater ease, speed, and efficiency.
- Provide users with the ability to ask their own questions of the data.
- The ability to tap into existing data sources that may or may not be in an optimal format (i.e. relational databases, Excel files, text files).
- Also provide the foundation to be the visualization platform for St. Lucie’s long-term data initiatives.
The Solution

The Microsoft data platform in Azure provides the services and products necessary for creating an advanced analytics solution that could meet the requirements of SLPS and lay the foundation for their modern analytics ecosystem.
The St. Lucie Approach and Outcome

Terence O’Leary, Chief Information Officer
Dr. Jon Prince, Deputy Superintendent
St. Lucie Schools, Port St. Lucie, FL

@1SLPS
St. Lucie Public Schools

The mission of the St. Lucie Public Schools is to ensure all students graduate from safe and caring schools, equipped with the knowledge, skills, and desire to succeed.
District at a glance

Race / Ethnicity

- Hispanic: 30%
- White: 33%
- Black: 31%
- Multiracial: 4%
- Asian: 2%

Free and Reduced Lunch

- 75.2% FRL

Organization

- 5,400 Staff
- 39,500 Students

Other statistics:

- 308 Buses
- 6,000,000 Miles/year
- 23,000 Students transported/day
# 2-Year Gains from 2015-16 to 2017-18

<table>
<thead>
<tr>
<th>ELA (FSA, FSAA)</th>
<th>Mathematics (FSA, FSAA, EOCs)</th>
<th>Science (NGSSS, FSAA, EOCs)</th>
<th>Social Studies (EOCs)</th>
<th>Graduation Rate</th>
<th>Acceleration Success</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achievement 51 (+4)</td>
<td>Achievement 53 (+7)</td>
<td>Achievement 58 (+6)</td>
<td>Achievement 69 (+6)</td>
<td>4-Year Grad Rate 90 (+15)</td>
<td>High School 60 (+6)</td>
</tr>
<tr>
<td>Learning Gains 54 (+4)</td>
<td>Learning Gains 56 (+9)</td>
<td></td>
<td></td>
<td></td>
<td>Middle School 75 (+18)</td>
</tr>
<tr>
<td>Bottom 25% 49 (+6)</td>
<td>Bottom 25% 49 (+10)</td>
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664 Points +91 Over 2 Years
SLPS ranked 1st in improvement over the last 3 years for districts with more than 15,000 students.

SLPS ranked 2nd in improvement between 2017 and 2018 for districts with more than 20,000 students.
Graduation Rate - District Comparisons

<table>
<thead>
<tr>
<th>District</th>
<th>Graduation Rate</th>
<th>Number of Graduates</th>
<th>FRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gilchrist</td>
<td>93.4%</td>
<td>156</td>
<td>90.3%</td>
</tr>
<tr>
<td>2. Nassau</td>
<td>90.9%</td>
<td>874</td>
<td>49.2%</td>
</tr>
<tr>
<td>3. St. Johns</td>
<td>90.9%</td>
<td>2,552</td>
<td>24.1%</td>
</tr>
<tr>
<td>4. Suwannee</td>
<td>90.5%</td>
<td>342</td>
<td>92.5%</td>
</tr>
<tr>
<td>5. St. Lucie</td>
<td>90.1%</td>
<td>2,761</td>
<td>75.2%</td>
</tr>
<tr>
<td>6. Dixie</td>
<td>89.5%</td>
<td>102</td>
<td>97.6%</td>
</tr>
<tr>
<td>7. Leon</td>
<td>88.6%</td>
<td>1,978</td>
<td>58.0%</td>
</tr>
<tr>
<td>8. Seminole</td>
<td>88.6%</td>
<td>4,680</td>
<td>48.6%</td>
</tr>
<tr>
<td>9. Clay</td>
<td>88.4%</td>
<td>2,672</td>
<td>49.4%</td>
</tr>
<tr>
<td>10. Collier</td>
<td>88.2%</td>
<td>2,995</td>
<td>64.9%</td>
</tr>
</tbody>
</table>
In 3 years, graduation rates have soared from 76% to 92%.
What do we measure that creates transformation?

- Equity in grades and discipline
- Instructional time
- Accountability in attendance
- Accountability in scheduling
- Common assessments
- Leadership development
- Equity in grades and discipline
- Platform providing immediate, actionable data
How do we measure what creates transformation?

Working collaboratively internally to create a platform providing immediate, actionable data.

The work began with graduation rate.
Example insights from the data

Which juniors are in Advanced ELA courses?

Increasing college and career readiness

AP  IB  AICE  DE  CTE

86.24%

13.76%
Visit aka.ms/st-lucie-education-analytics

Watch the St. Lucie video
Read the St. Lucie case study
Download the Data and Education Transformation white paper
Thank you!