Project 1: SAT and ACT Analysis

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Scope

- Problem statement
- Analysis of Data
- State of Interest- OHIO
- Conclusion

Problem Statement

How can we increase participation for states with a low participation rate?

What data we had?

- Participation Rates by State
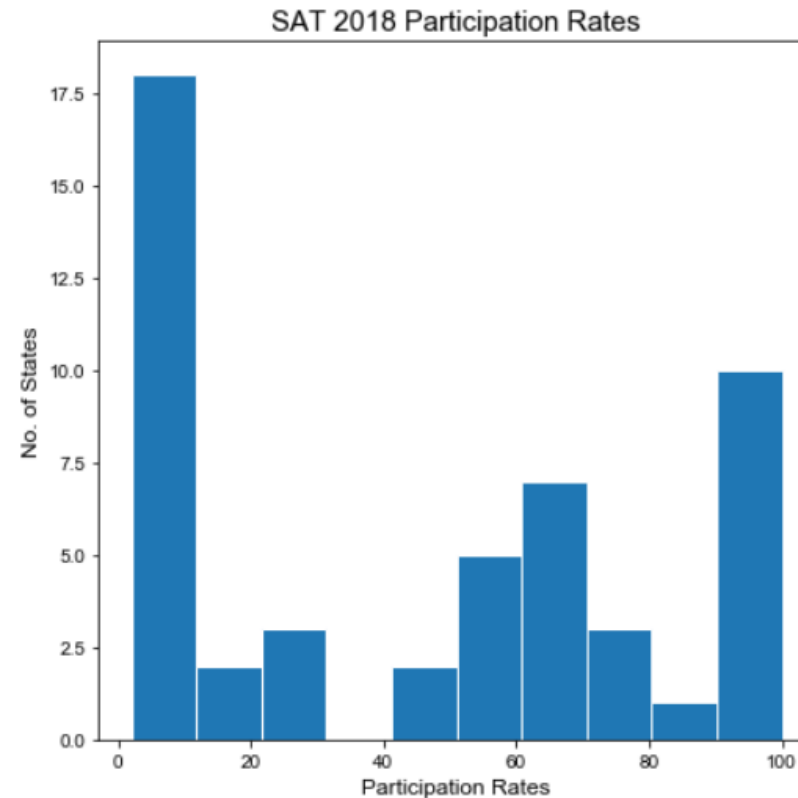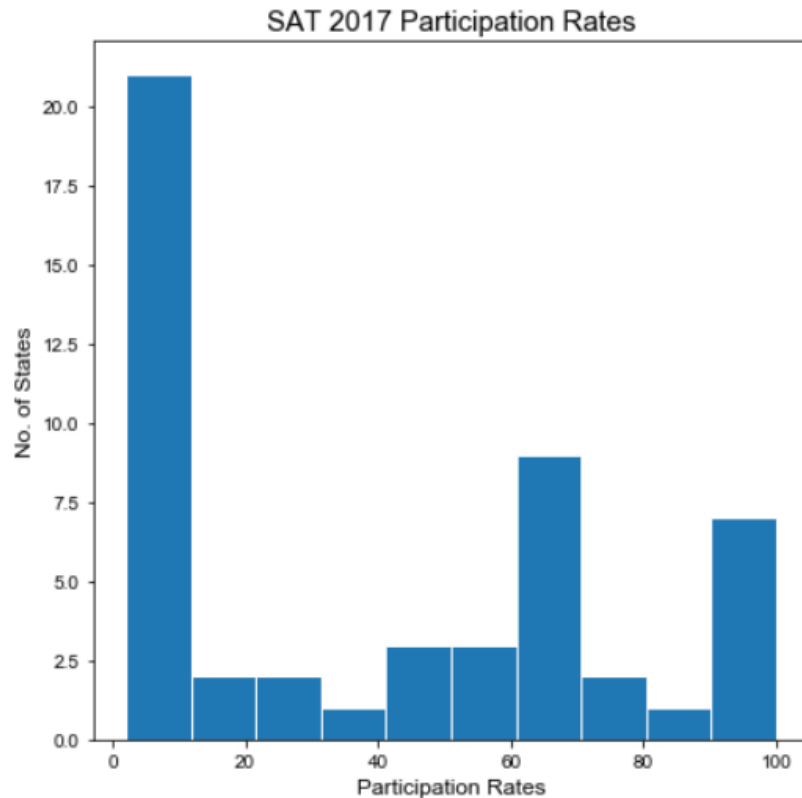- Mean Test Scores
- Mean Subject Scores

} SAT & ACT (2017 & 2018)

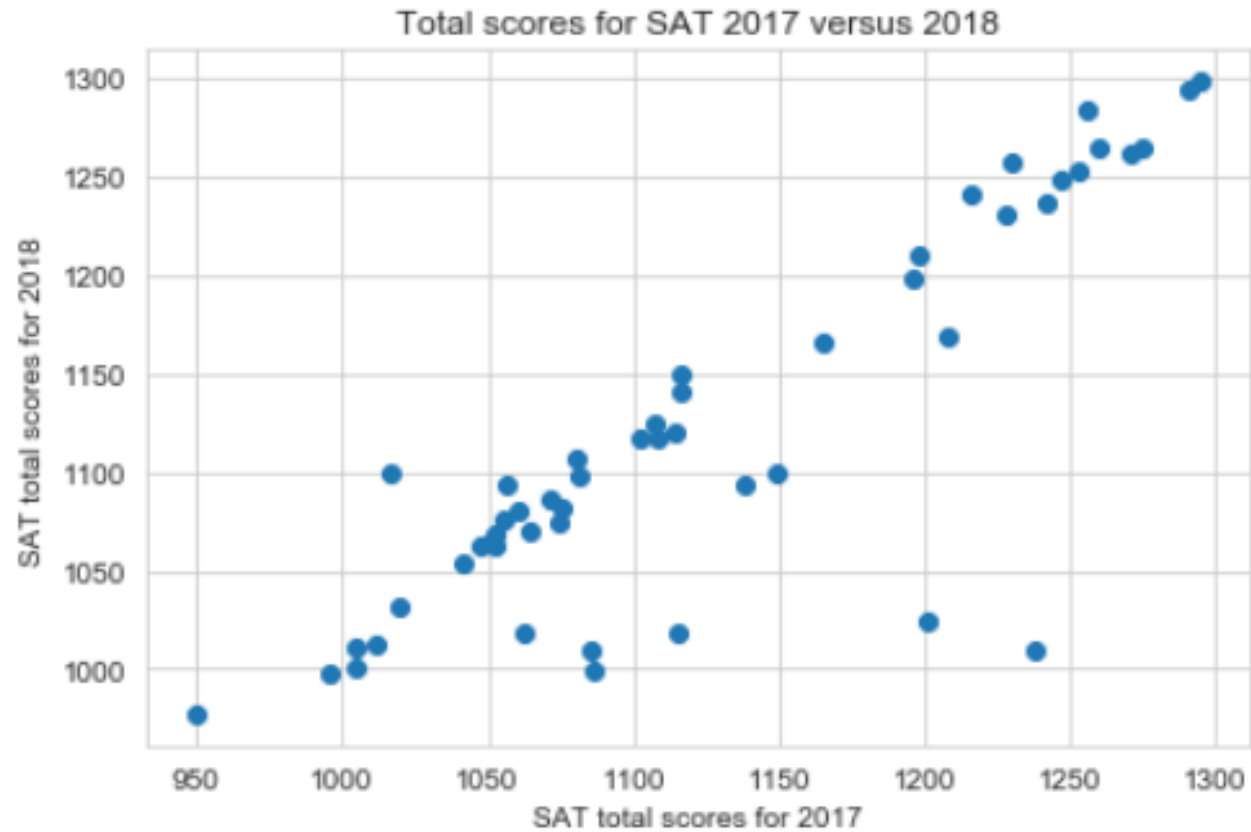|	State	Participation	Evidence-Based Reading and Writing	Math	Total
0	Alabama	5%	593	572	1165
1	Alaska	38%	547	533	1080
2	Arizona	30%	563	553	1116
3	Arkansas	3%	614	594	1208
4	California	53%	531	524	1055
5	Colorado	11%	606	595	1201
6	Connecticut	100%	530	512	1041
7	Delaware	100%	503	492	996

Processing the data...

- Identifying trends, outliers and correlations:
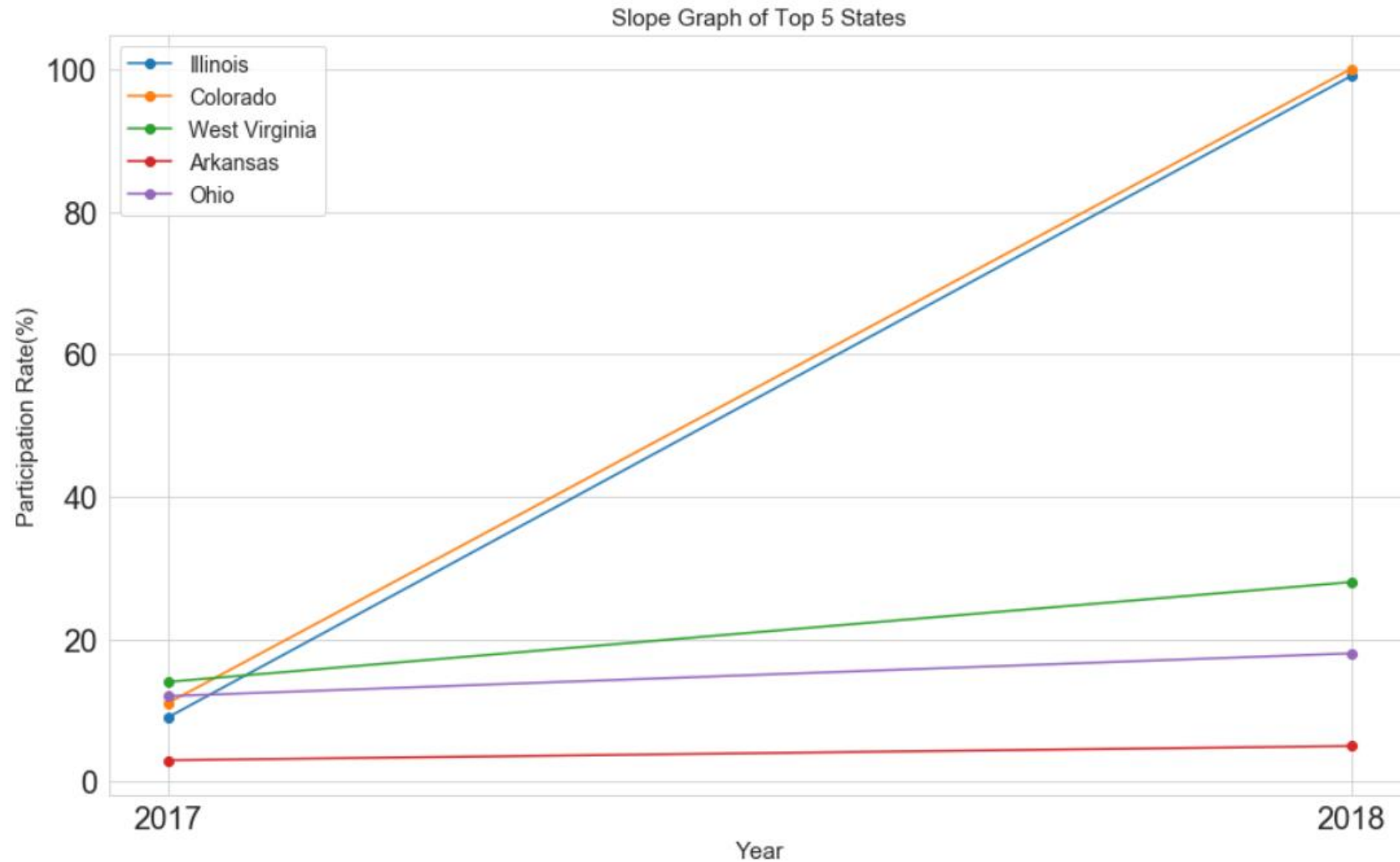
Processing the data…

- Identifying trends, outliers and correlations:

Total scores for SAT 2017 versus 2018

How did the SAT fare?

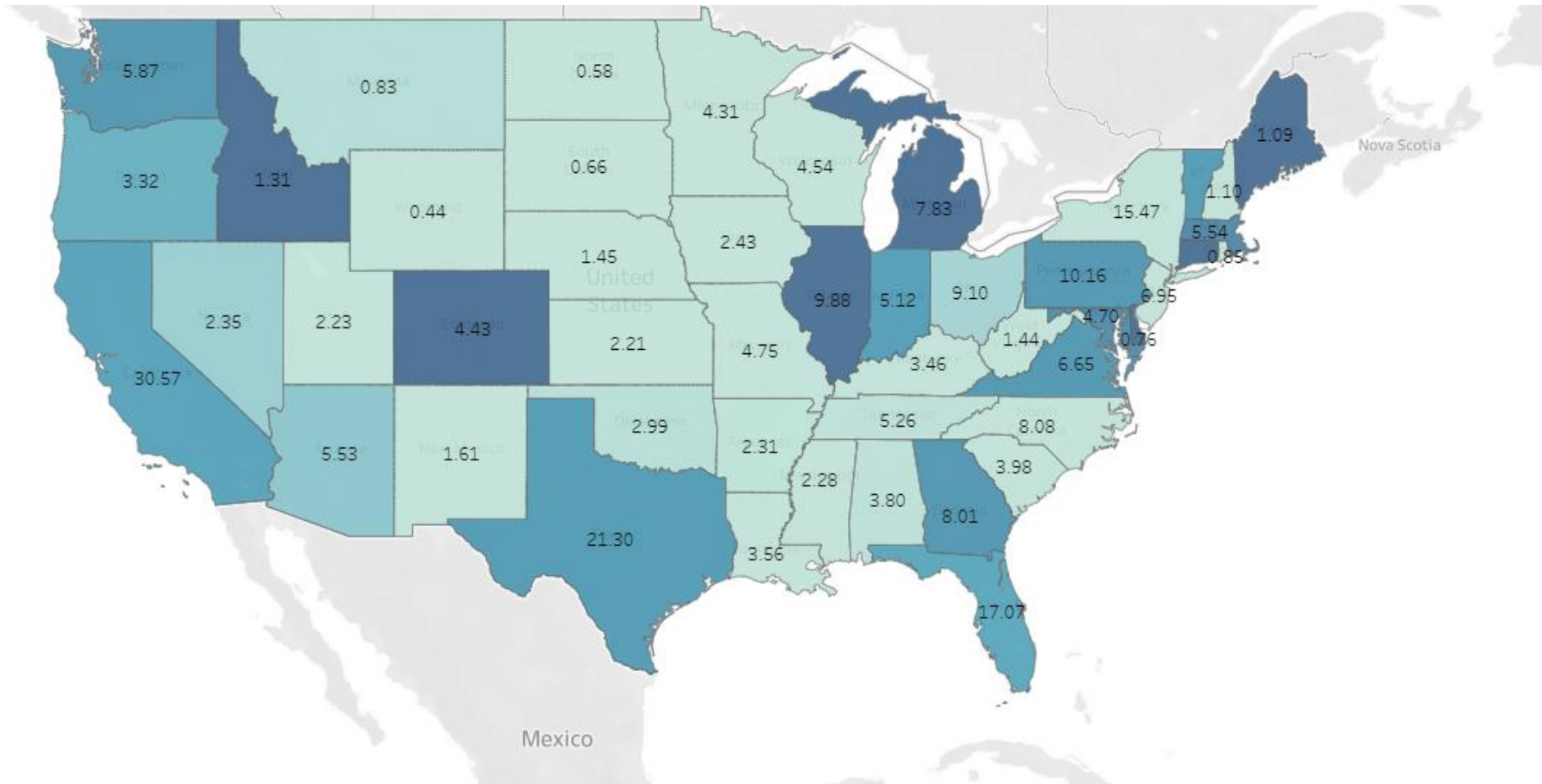Comparison of SAT and ACT Participation Rates for 2017 and 2018
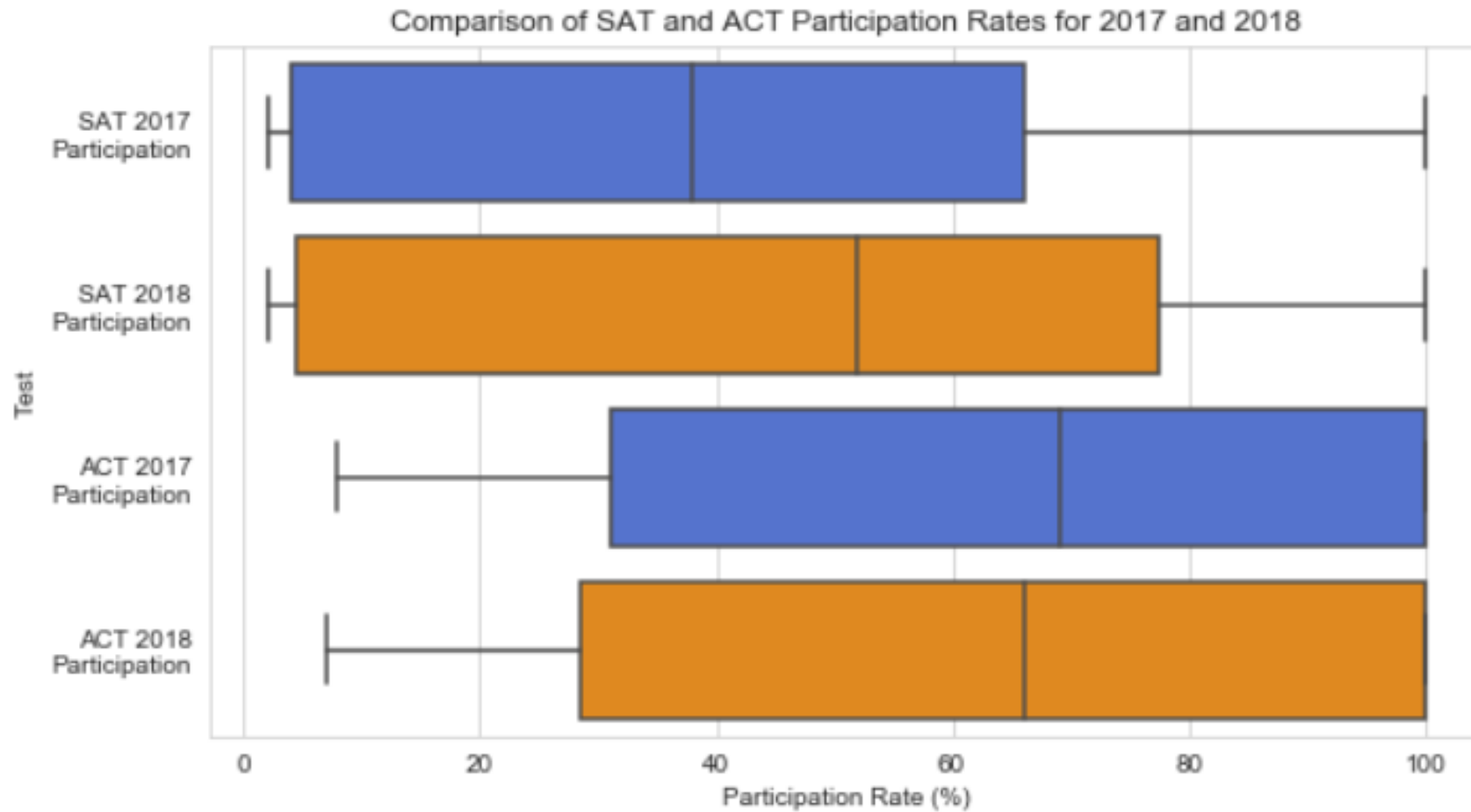
Top Changes in Participation Rates by State

Other observations..

- Participation rates by state (reflected by intensity) vs Population above 18 years old in millions

State of Ohio

- State can choose to administer either SAT or ACT to juniors

What has paid off?

- Delaware, Michigan and Connecticut (participation rates of 100% for both 2017 and 2018)

- SAT School Day

Conclusion

- The ACT has been outperforming the SAT in terms of participation rates for the year of 2017 and 2018.

- The ACT and SAT participation rates also mirror one another with each state choosing one over the other.

- States with consistent participation rates of 100% and high increase in participation rates are due to state policies

- Ohio as a potential state to increase participation