

Abstract:

This poster presentation showcases North Dakota's interactive public education dashboards at "ND Insights" (<https://insights.nd.gov/>), created through a unique inter-agency collaboration among the North Dakota University System, North Dakota Department of Public Instruction, and the North Dakota Information Technology Department. This publicly available website leverages data from the Statewide Longitudinal Data System (SLDS) to provide a 360 degree view of the public K-12 institution student learning experience featuring metrics such as student enrollment, average daily attendance, student achievement proficiency levels and participation rate, graduation rate, dropout rate, National Assessment of Educational Progress (NAEP) performance, and teacher education level. The website includes state, district, and school measures with demographic displays allowing for analysis of student subgroups and grade level comparisons. Upon a successful Phase I release in November designed in accordance with No Child Left Behind (NCLB) Act standards, preparations are underway for the Phase II release in February featuring the new Every Student Succeeds Act (ESSA) standards. Phase III and IV of dashboard development will feature additional metrics. Striving toward the goal of informing policy makers, agencies, communities, and researchers about education and workforce development, future plans include adding North Dakota University System, Career and Technical Education, Job Service of North Dakota, and Department of Commerce data to the ND Insights website.

Background:

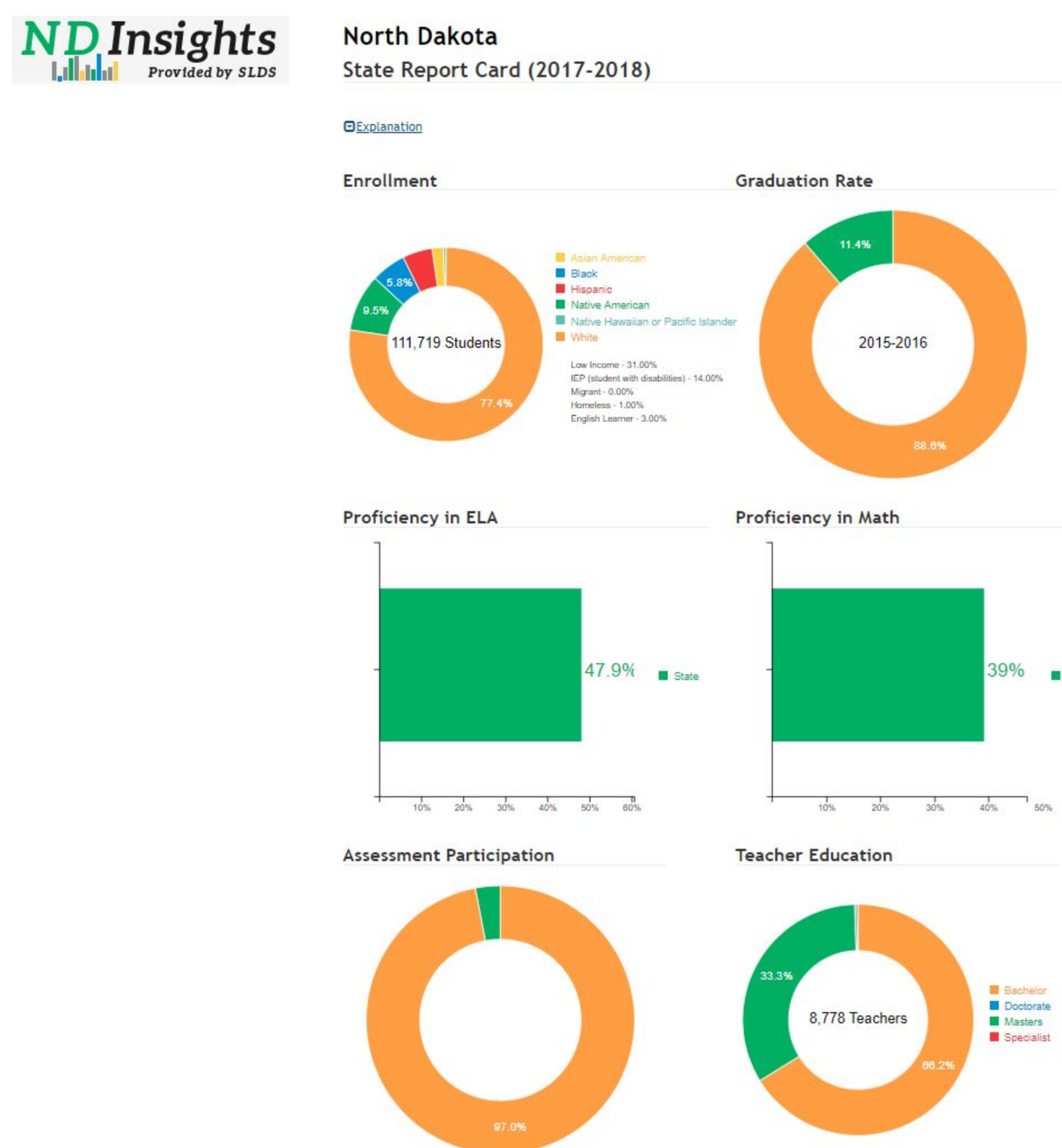
- Collaborating Organizations:
 - NDDPI MIS Division: Lead operational role
 - NDUS: Institutional Research expertise, structure, validation, and data contextualization
 - ND ITD: Interactive reporting dashboard visualization development and SLDS warehouse management
 - Otis Educational Systems, Inc.: Project management accountability reporting support
- Preparation and requirement gathering: July 2017
- Conceptualization and development: August 2017
- Two distinct data reporting environments:
 - ND Insights: Public data display at the state, district, and school levels, suppressing low cell counts in accordance with FERPA guidelines.
 - North Dakota SLDS Portal: Administrator portal intended for state, school, and district leaders, provides displays similar to ND Insights, without low cell count suppression.
- Four-Phase Reporting Process Timeline:
 - Phase I: Report Cards/Profiles - NCLB (November 2017)
 - Phase II: Accountability Dashboard (Spring 2018)
 - Phase III: Expanded Report Cards/Profiles (November 2018)
 - Phase IV: Expanded Dashboard (August 2019)

State Report Card:

- The State Report Card is a dashboard summary of key details about North Dakota's public schools.
- Provides parents, educators, schools, districts and citizens with easy access to district and school information, test results, demographic information and other critical data in a centralized location.
- May assist in initiating discussions about areas targeted for improvement.
- Displays consistent and reliable information about each school and district directly to parents and community members.

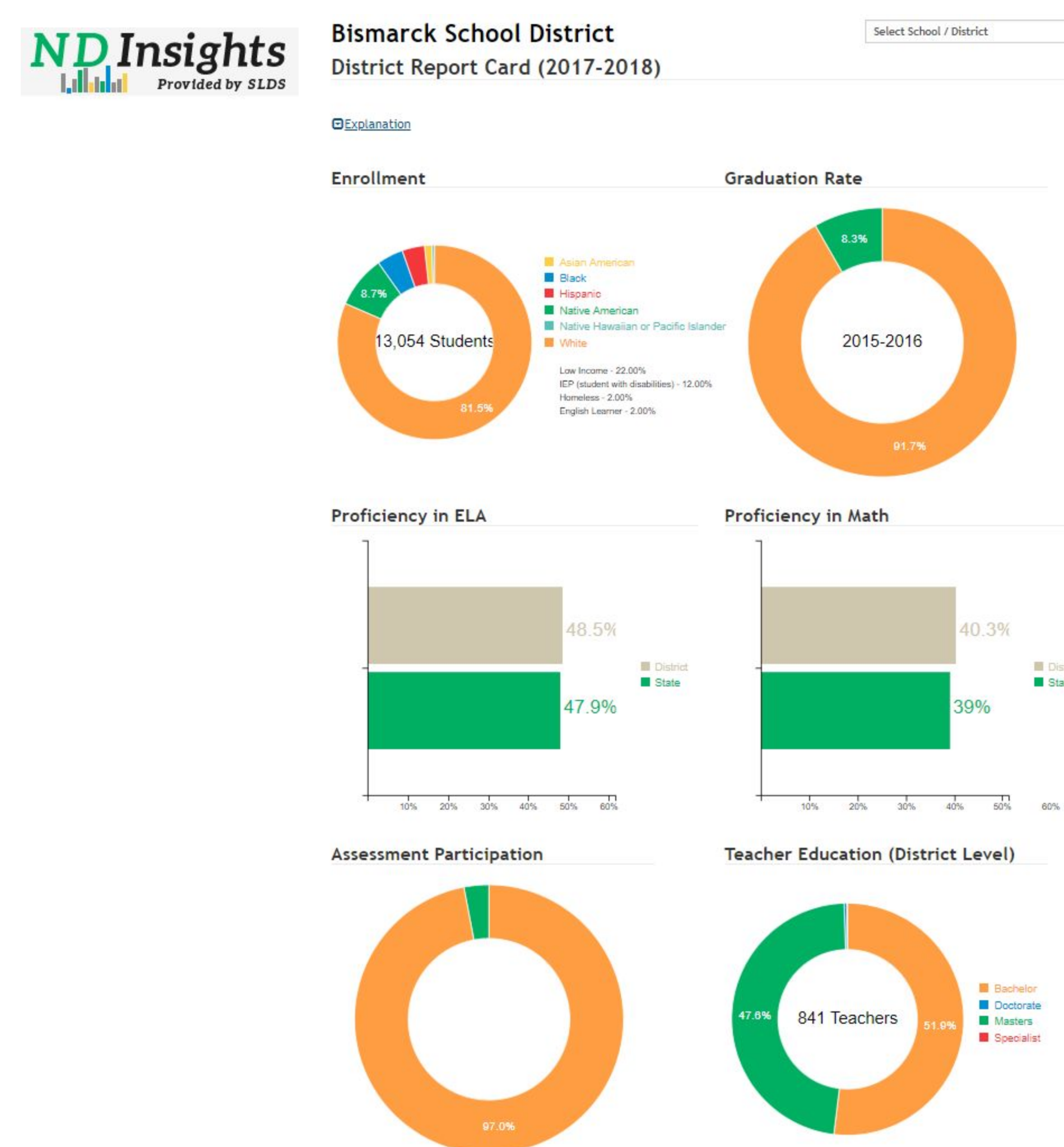
State Report Card:

- (Referenced with Permission)



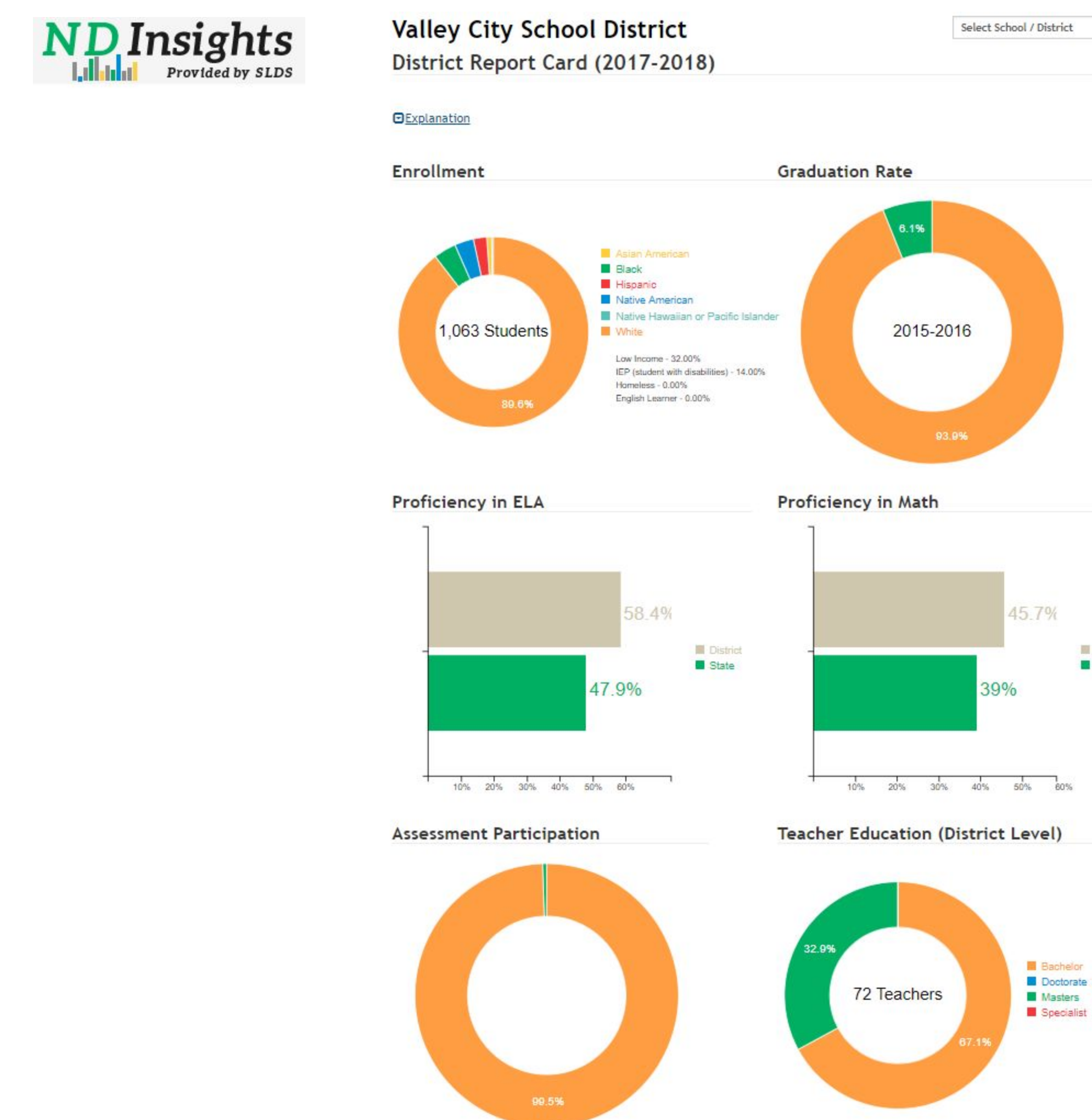
Bismarck Public School District Report Card:

- (Referenced with Permission)



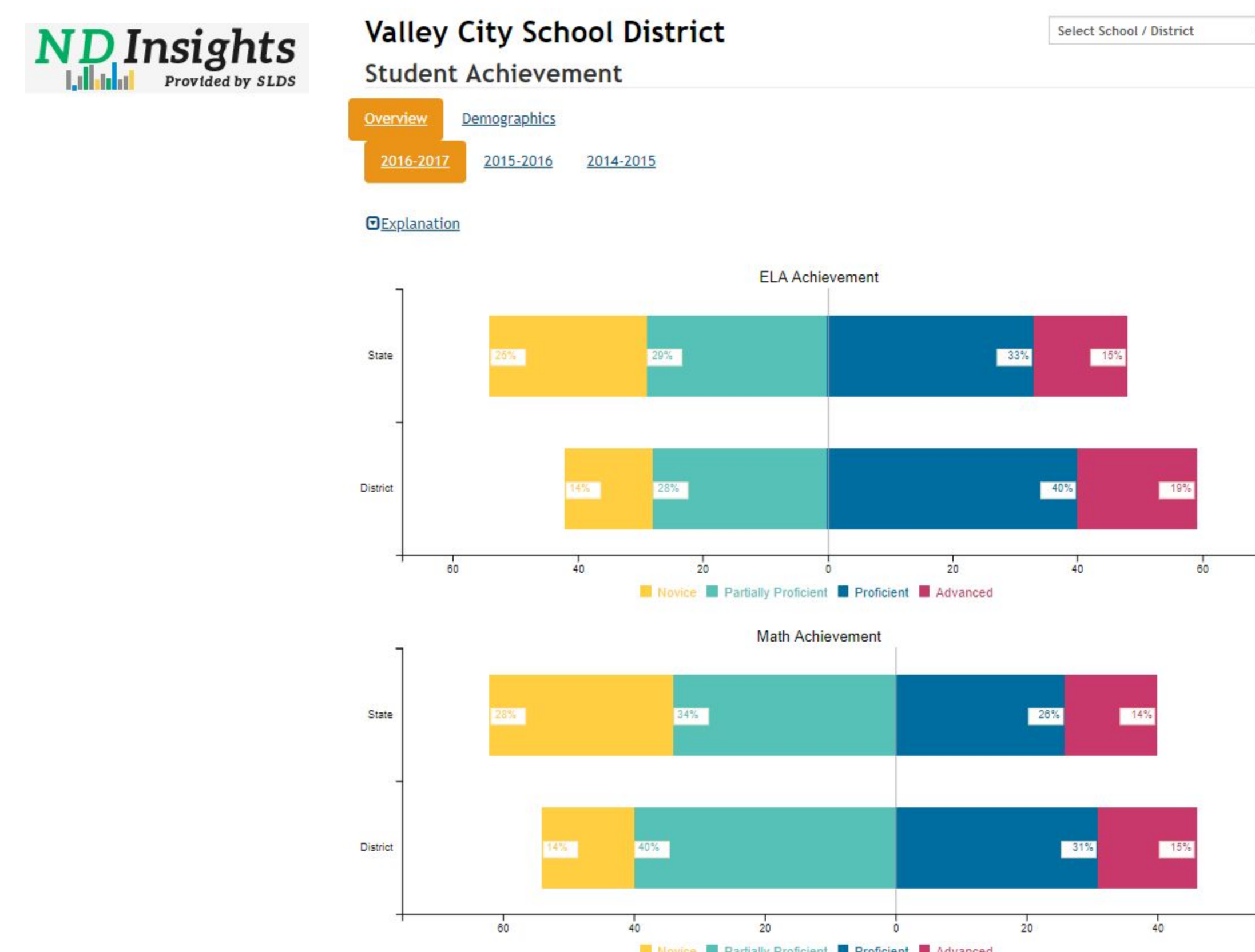
Valley City Public School District Report Card:

- (Referenced with Permission)



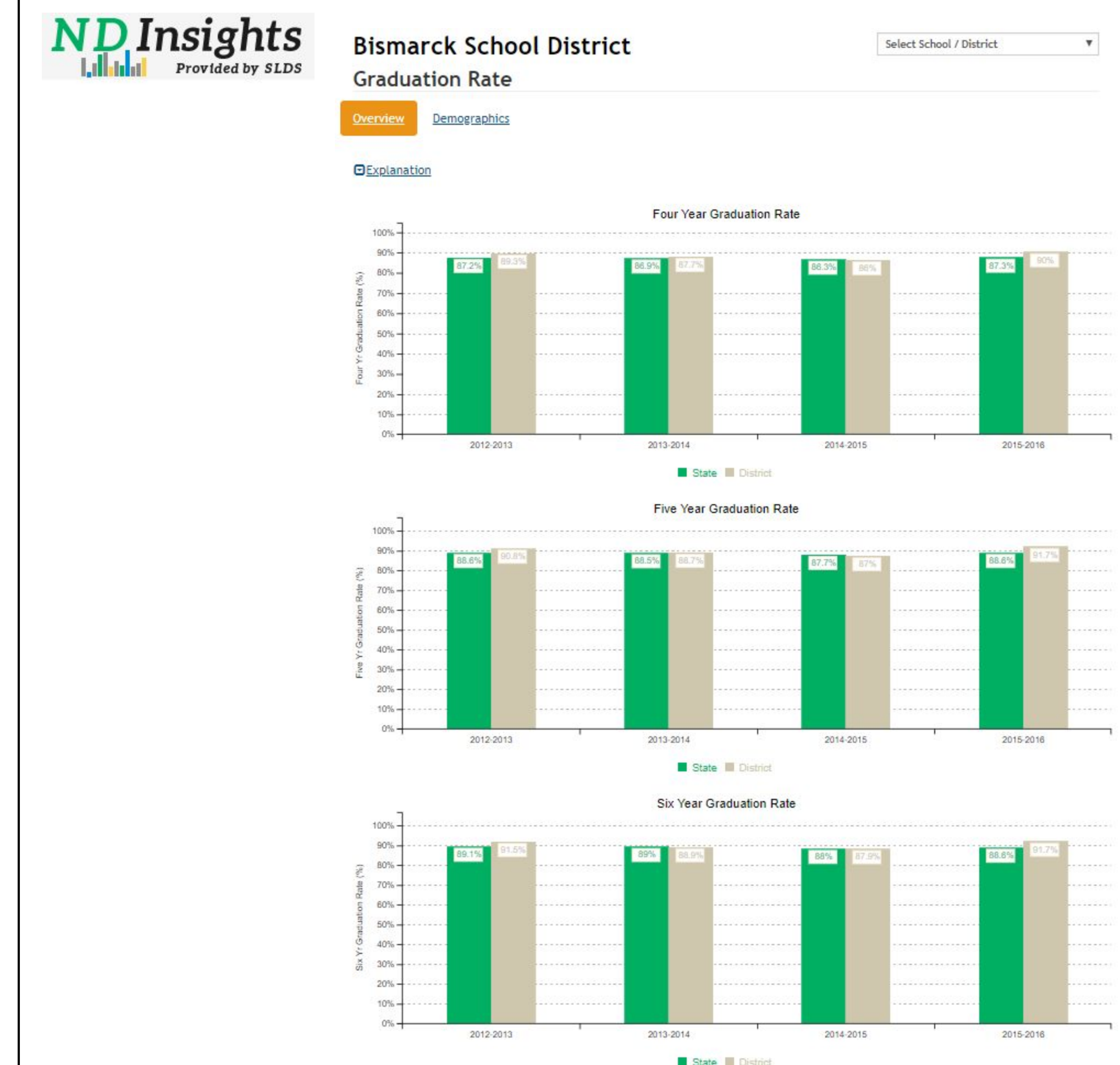
Student Achievement

- NDSA and NDAA Proficiency Rates (Grades 3-8 and 11)
- Proficiency Levels:
 - Advanced.** Demonstrates exemplary understanding and exceeds expected level of performance.
 - Proficient.** Demonstrates understanding and meets expected level of performance.
 - Partially Proficient.** Demonstrates an emerging or developing level of understanding and performance.
 - Novice.** Attempt made; however, lack of understanding and performance is evident.



Graduation Rate

- The first graph shows the percentage of students who graduated from high school within 4 years. The next two graphs show the percentage of students who graduated within 5 or 6 years. Each percentage comes from a different group of students who started 9th grade together. To see graduation rates by demographic groups, click on View by Demographics. The 6-year graduation rate is a new metric that was not measured prior to the 2016 school year. Graduation rate is calculated based using federal guidance.



Highlights:

- Model for collaborative, inter-agency collaboration
- Interactive public dashboard for K-12 public schools
- Utilizes data held in the North Dakota Statewide Longitudinal Data System (SLDS) (<https://slids.ndcloud.gov/SitePages/Default.aspx>)
- Facilitates K-12 public education research in North Dakota
- Plans for including data visualizations for other North Dakota agencies

Questions:

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