

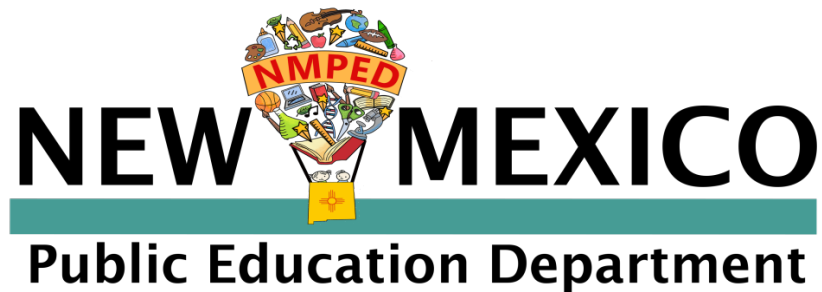
## Accountability

**Jeanho Rodriguez**

November 21, 2019

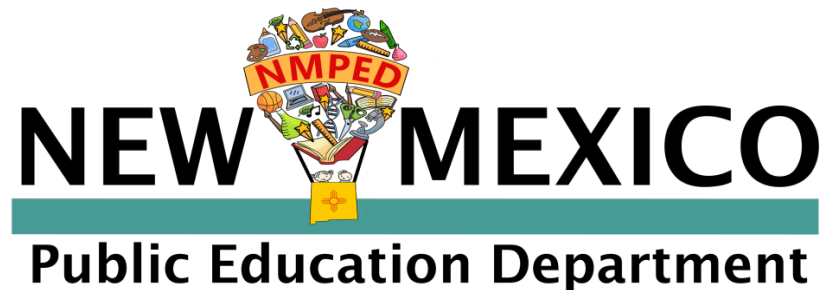
# Introduction

- PED(Accountability Bureau)
- [Jeanho.Rodriguez2@state.nm.us](mailto:Jeanho.Rodriguez2@state.nm.us)
- I like building data products.



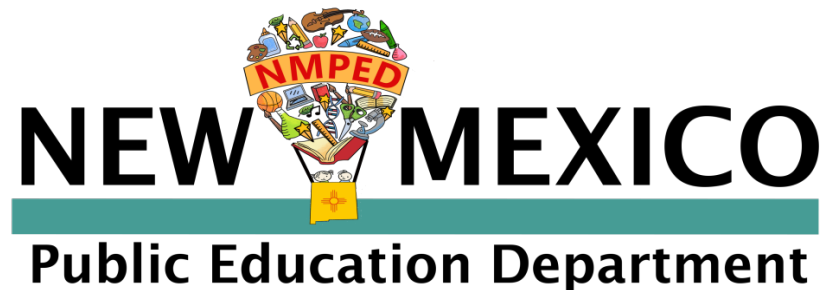
# MAP

- Introduction
- Data Rich Information Poor
- Building a Data Team
- Data Pipeline
- Dashboard: New Mexico Student Spotlight
- Building a Data-Informed Organization
- Questions



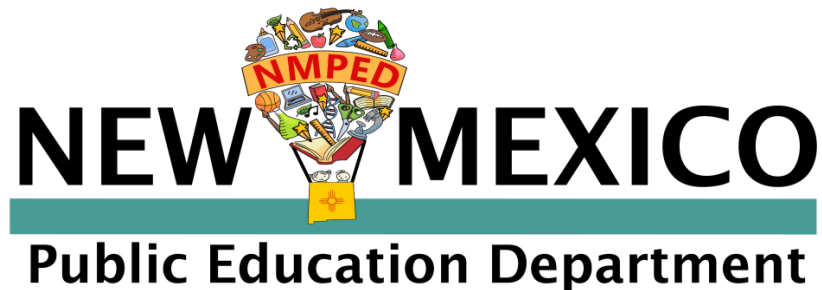
# Data Rich Information Poor

- Declining computing costs, improved connectivity, and powerful data tools create opportunities to data mine and build data products.
- An organization's ability to make informed decisions and policy is impacted by how successfully it applies analytics to data sets to drive insights.

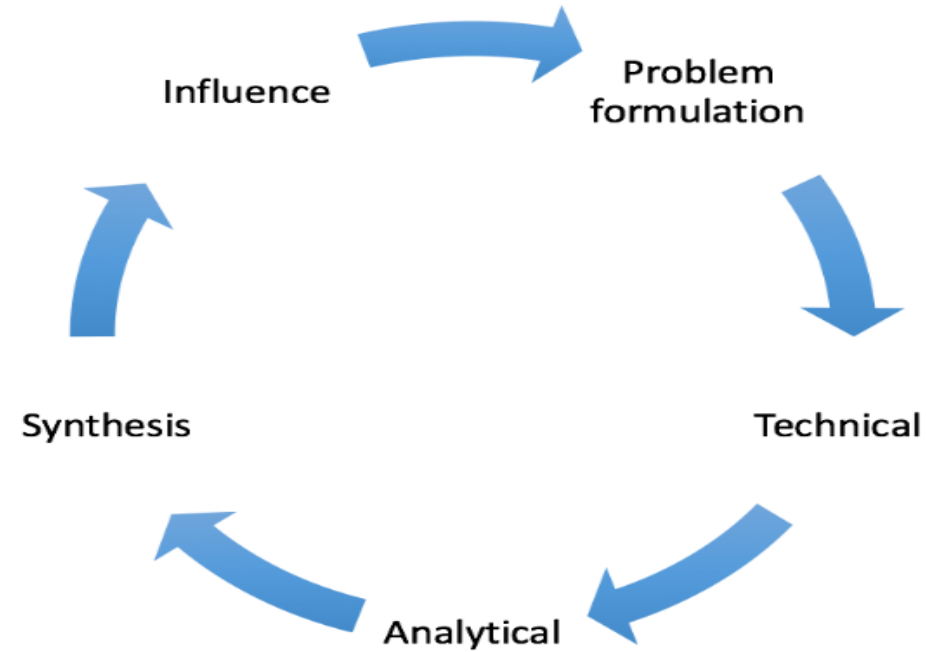


# Building a Data Team

- High achievers who love well defined, hard challenges.
- A strong growth mindset.
- Able to find creative solutions to hard problems.
- Take great amount of ownership and accountability in the work they do.



# 5 Core Skills



# Data Pipeline

MS SQL



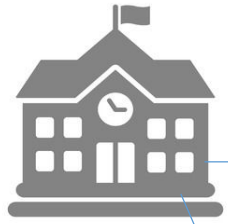
Graduation Data



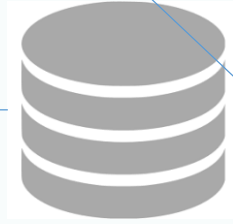
DASHBOARD



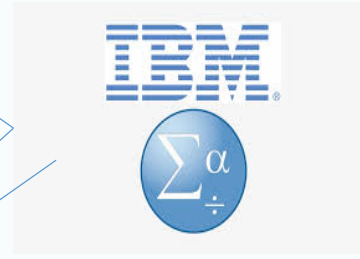
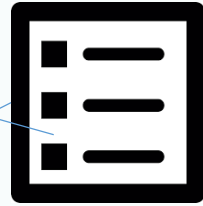
SOAP



Schools &  
Districts

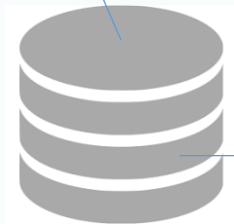
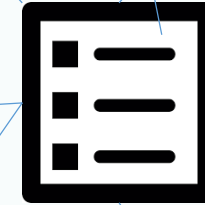


STARS

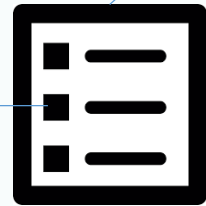


SPSS

Indicators



Vendor  
Database



Assessment Data

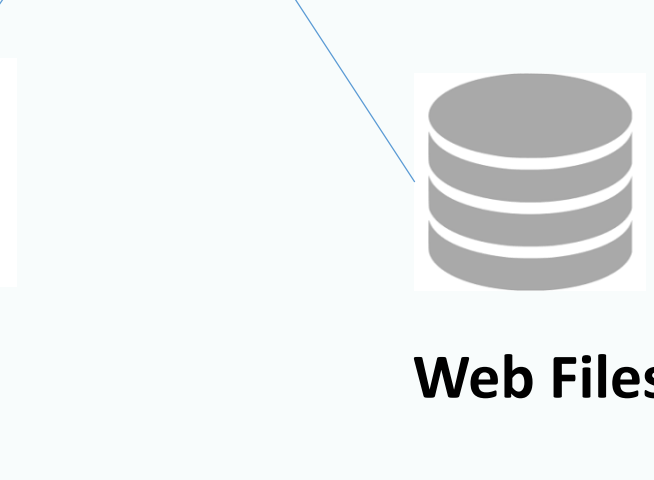
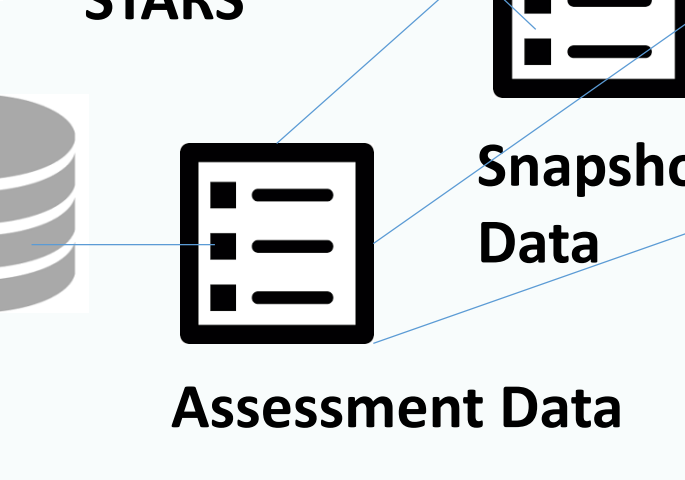
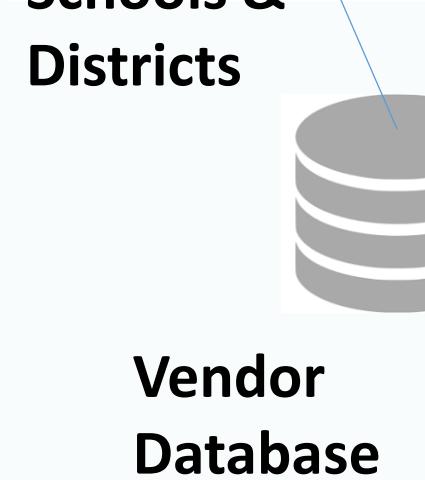
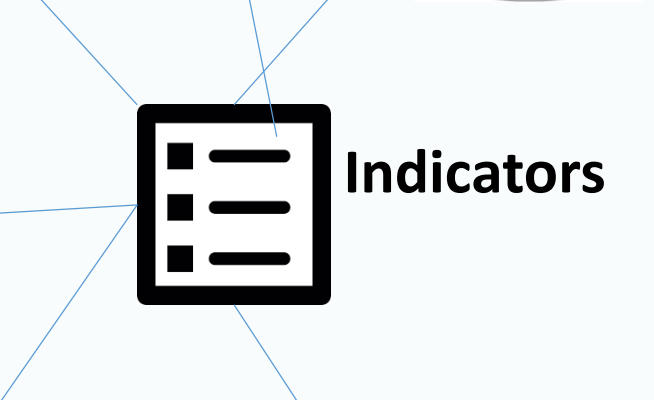
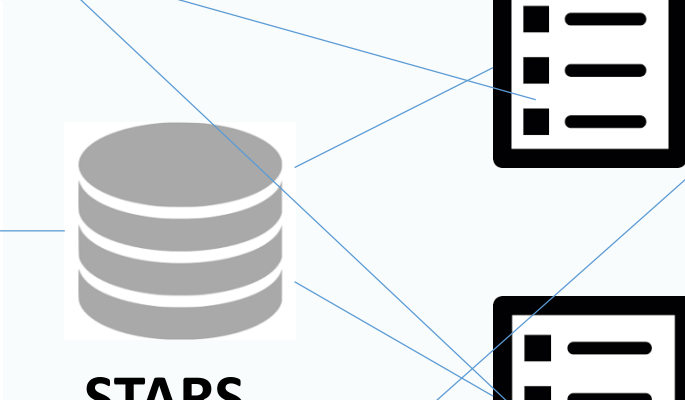
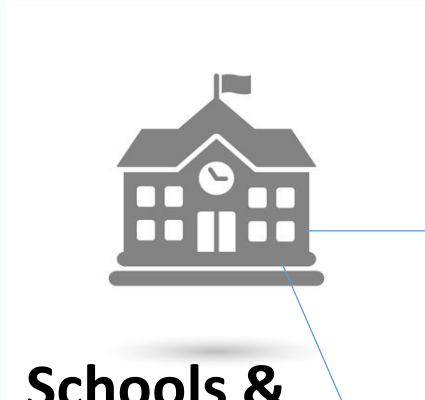
Snapshot  
Data



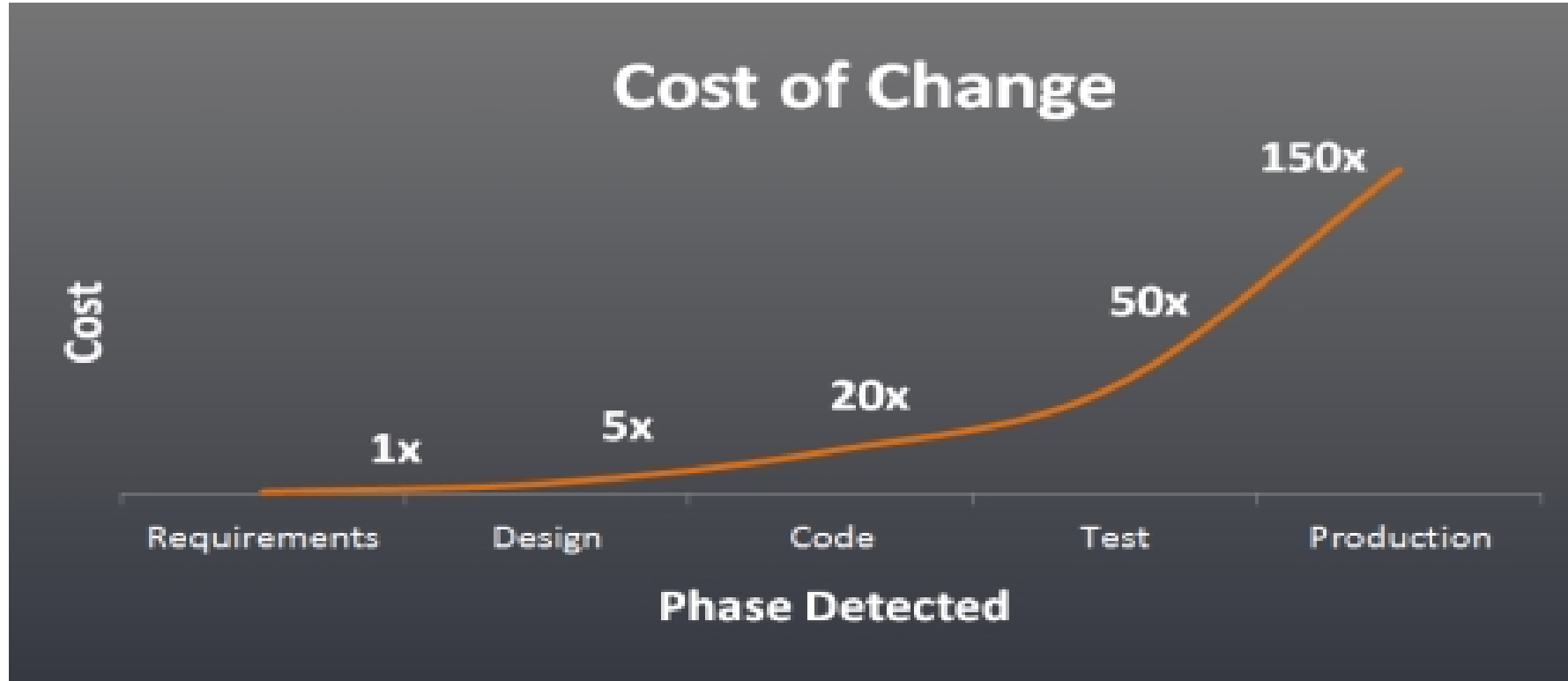
Data Tools



Web Files



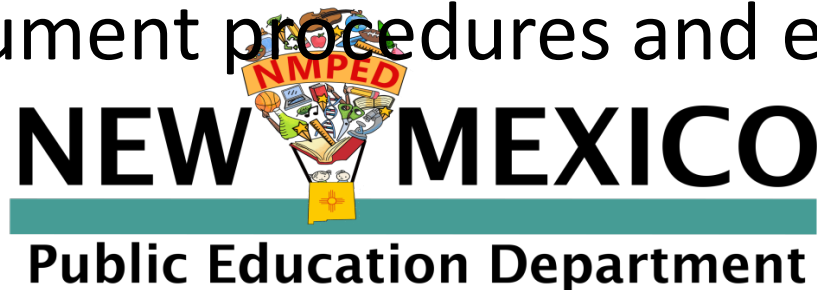
# QC



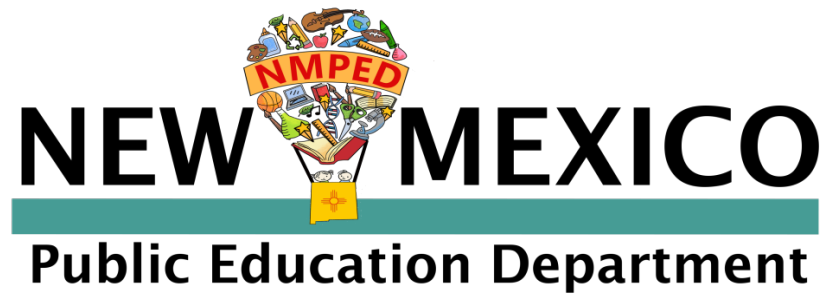


# QC Practice

- Address data issues by building robust data validation earlier in the phase cycle to reduce costs.
- Create feedback loops between data team and engineers and infrastructure to build QC telemetry.
- To address data transformation issues use dual programming to ensure results are consistent. Heavily document procedures and encourage code reviews.




# Dashboard: New Mexico Student Spotlight



Lorem ipsum dolore.

# Euismod non elit.

Learn all about your school.

 Enter your school's name



You can also...

[Browse New Mexico schools](#)



And you can...

[Browse New Mexico school districts](#)

- **Every student** has the ability to **succeed** in their future college, career, and civic endeavors and our schools can prepare them to do so.
- In compliance with *ESSA*, the NMPED is replacing the existing A–F school grading system with a dashboard that shifts the philosophy from identifying schools as “failing” to providing support for schools in need, and celebrating success.



The screenshot shows the homepage of the New Mexico Public Education Department. At the top left is the logo with the text "NEW MEXICO Public Education Department". To the right are navigation links for "Schools", "Districts", "State", and "About", along with a search bar and a language toggle for "Español".

The main content area features a large banner with the text "Every school is unique." followed by the headline "What's your school's story?". Below this is a search bar with the placeholder text "Enter your school's name". To the right of the search bar is an illustration of a family (mother, father, and two children) holding hands, set against a background of a desert landscape with mountains and a sunset.

Below the banner are two columns of options:

- On the left, a schoolhouse icon is followed by the text "You can also..." and a link: [Browse New Mexico schools](#).
- On the right, a building icon is followed by the text "And you can..." and a link: [Browse New Mexico school districts](#).

At the bottom of the page, another banner reads "Every family is unique, too." followed by the headline "What stories matter most to you?". Below this headline is a paragraph of text: "Perhaps you're most interested in a school's improvement in reading or math. Or maybe what matters to you is the variety of programs a school offers, or diversity among its student body, or its overall educational climate. Whatever you're here for, we'll help you learn which schools best reflect your family's interests, values, and goals."

The **New Mexico Spotlight Dashboard**, to be released in November 2019, will:

- foster a system of **reciprocal accountability**,
- identify our highest performing schools,
- identify schools that the department will support with federal grant money, and
- provide families with an opportunity to learn more about their local schools.



The screenshot shows the homepage of the New Mexico Spotlight Dashboard. At the top left is the logo for the New Mexico Public Education Department. The navigation menu includes 'Schools', 'Districts', 'State', and 'About', along with a search bar and a language toggle for 'Español'. The main heading reads 'Every school is unique. What's your school's story?' Below this is a search bar with the placeholder text 'Enter your school's name'. To the right of the search bar is an illustration of a family (mother, father, and two children) holding hands. Below the search bar are two sections: 'You can also...' with a school icon and a link to 'Browse New Mexico schools', and 'And you can...' with a building icon and a link to 'Browse New Mexico school districts'. At the bottom, another heading reads 'Every family is unique, too. What stories matter most to you?' followed by a paragraph of text: 'Perhaps you're most interested in a school's improvement in reading or math. Or maybe what matters to you is the variety of programs a school offers, or diversity among its student body, or its overall educational climate. Whatever you're here for, we'll help you learn which schools best reflect your family's interests, values, and goals.'

To optimize academic performance and school quality, the NM PED will:

- collaborate with districts, schools, and communities to determine what resources are needed to support schools on their path to **student success**,
- **allocate federal resources** where they can make the most impact and help **every student** succeed.



The screenshot shows the homepage of the New Mexico Public Education Department website. At the top, the logo for 'NEW MEXICO Public Education Department' is on the left, and navigation links for 'Schools', 'Districts', 'State', and 'About' are on the right. A search bar and a language selector for 'Español' are also present. The main heading reads 'Every school is unique. What's your school's story?'. Below this is a search bar with the placeholder text 'Enter your school's name'. An illustration of a family (mother, father, and two children) is shown on the right side of the page. Below the search bar, there are two sections: 'You can also...' with a school icon and a link to 'Browse New Mexico schools', and 'And you can...' with a building icon and a link to 'Browse New Mexico school districts'. At the bottom, another heading reads 'Every family is unique, too. What stories matter most to you?'. Below this heading is a paragraph of text: 'Perhaps you're most interested in a school's improvement in reading or math. Or maybe what matters to you is the variety of programs a school offers, or diversity among its student body, or its overall educational climate. Whatever you're here for, we'll help you learn which schools best reflect your family's interests, values, and goals.'

# School Characteristics for Targeting Federal Funding Support

SUMMATIVE WEIGHTED POINTS			
ESSA Indicator	EL/MS	HS	ESSA Indicator Classification
Math and Reading Proficiency	30	25	Academic Achievement (AA)
Student Growth Q4	5	5	Academic Progress (ES) AA (HS)
Student Growth Q2-3	10	10	Academic Progress (ES) AA (HS)
Student Growth Q1	25	15	Academic Progress (ES) AA (HS)
English Language Proficiency	10	5	English Language Proficiency (ELP)
Science Proficiency	5	5	School Quality/Student Success
Chronic Absenteeism	5	5	School Quality/Student Success
College and Career Readiness	n/a	10	School Quality/Student Success
Educational Climate Survey	10	5	School Quality/Student Success
Growth in 4-Year Rate	n/a	5	School Quality/Student Success
4-Year Graduation Rate	n/a	5	Graduation Rate
5-Year Graduation Rate	n/a	3	Graduation Rate
6-year Graduation Rate	n/a	2	Graduation Rate
<b>Total Points</b>	100	100	

# Celebrating Success

Under this new approach, schools are also eligible to:

- earn **positive designations** of excellence to further celebrate success, and
- help families make school choice decisions aligned with their values.

Designation	How Designation is Determined
Designations of New Mexico Excellence and Relevance	Schools scoring above the 90th percentile on any indicator
Designations of School Quality and Student Success	Schools scoring above a set standard on any indicator



# Features of the New Mexico Student Spotlight

The NM PED values the development of the whole child and equitable conditions for learning. New metrics to be included in the dashboard include:

- chronic absenteeism rates
- per pupil expenditures
- teacher licensure levels
- number of counselors at the school
- afterschool and summer enrichment opportunities
- progress toward English Language Proficiency
- Science proficiency, and
- new survey of school climate that evaluates school safety, culture, and responsiveness to community needs.

Schools will also have an opportunity to write a **narrative** that tells the story of the school and describes the school's mission, vision, values, and programmatic offerings.

- Initially (by November), data will be presented at the school-, district-, and state-level.
- Eventually, authorized District personnel will be able to drill down to the classroom-, student-, and even standard-level.
- The data that populate the dashboard contents will initially be snapshot-based, but we are looking to implement a real-time data system that will report up-to-date information throughout the year.
- Users can view the data graphically, and can also access summary statistics, such as total counts and percentages at the school, district, and state levels.
- Content Management System will allow LEAs to add narratives, and other media content.

A school's performance is about more than test scores.

## What's your school's performance story?

The New Mexico Public Education Department (NM PED) believes that every student has the ability to succeed in their future college, career, or civic endeavors, and that every New Mexico school has the potential to prepare them to do so. In support of this belief, it's important to understand how schools can improve, and in what ways they are succeeding. But a school's success is defined by more than simple test scores. This year, NM PED has revised its system for rating schools to embrace a fuller portrait of individual school success.



### Learning environment

Because there's more to learning than math and reading, we survey school climate to evaluate school safety, culture, and responsiveness to community needs, as well as student attendance.



### Student progress

To understand how much academic progress students are making, we measure year-over-year performance on state tests. For students not yet proficient, growth is a critical path to grade-level performance.



### Student performance

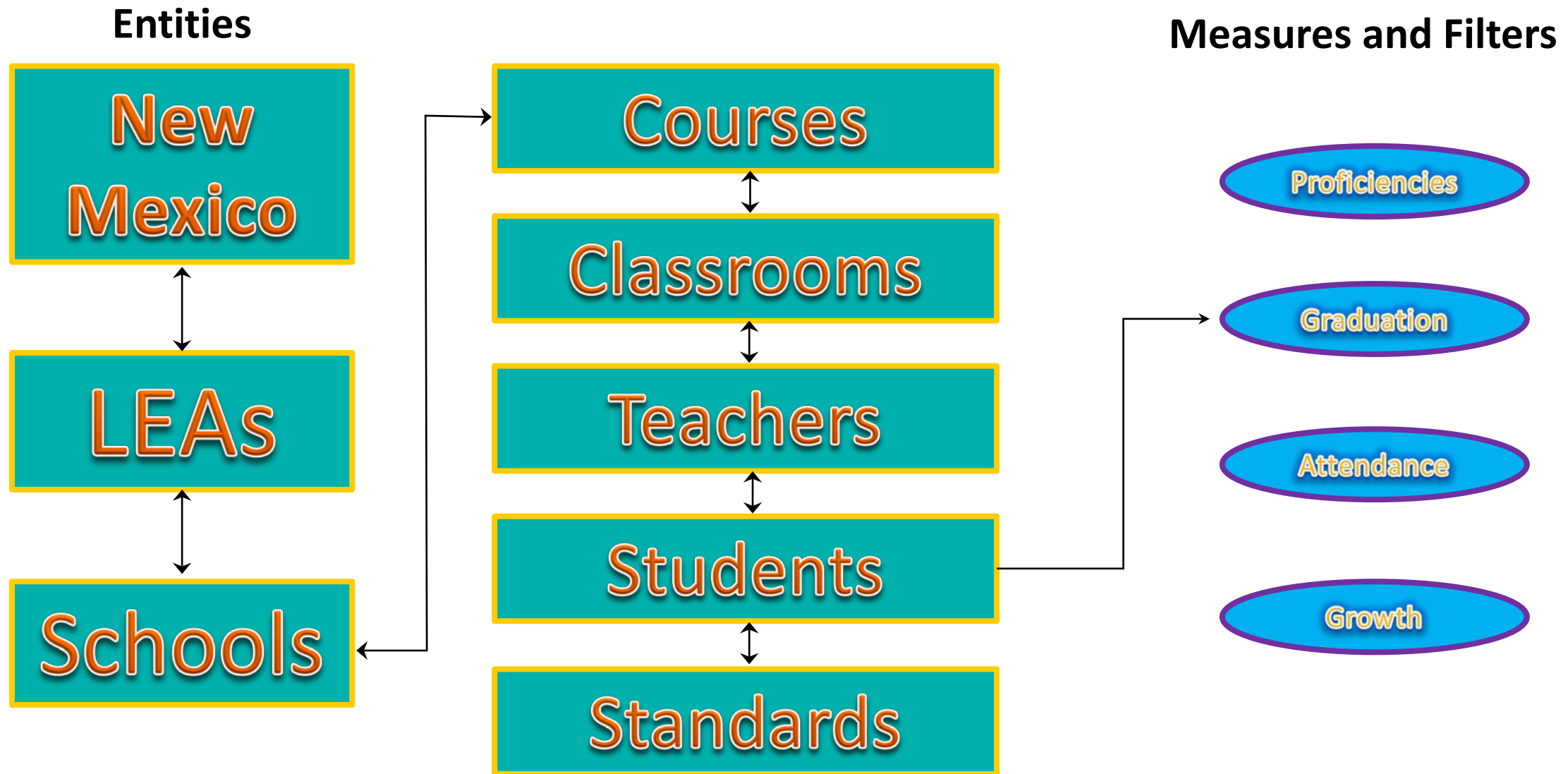
In addition to the other stories our accountability system can tell, we measure students' performance on a selection of statewide tests in the area of math, reading, and science.



### College and career readiness

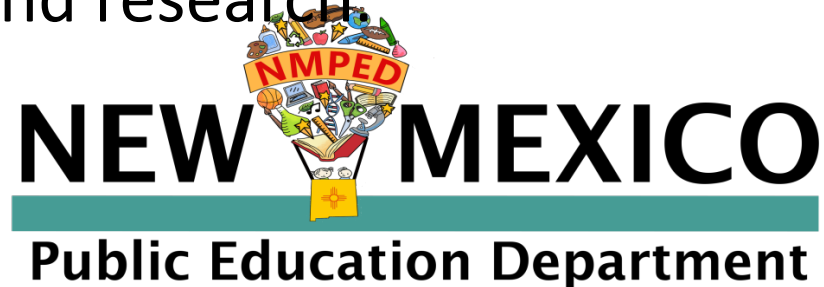
To ensure students graduating high school are prepared for their next step, we analyze four-, five-, and six-year graduation rates, as well as how many students participate and succeed in college and career opportunities.

# New Mexico Student Spotlight, 2020



# Building a Data-Informed Organization

- Focus time and energy on actionable insights.
- Build telemetry to track KPI for internal operations, data infrastructure and education system.
- Select a single and actionable metric that sums up the organization's vision and to prioritize work and achieve highest potential.
- Relentlessly measure impact and encourage experimentation and research.



# Thank you!

Please email any questions pertaining to the New Mexico Student Spotlight to Alexis Álvarez ([alexis.alvarez@state.nm.us](mailto:alexis.alvarez@state.nm.us)).

Jeanho Rodriguez ([Jeanho.Rodriguez2@state.nm.us](mailto:Jeanho.Rodriguez2@state.nm.us)).

