

Module 1

Data Warehouse Concepts and Architectures

Lesson 6: Data Warehouse Examples



Lesson Objectives

- Discuss data warehouse requirements in large retail firms
- Discuss data warehouse requirements in K-12 education
- Reflect on maturity of data warehouse development in retail and education



Data Warehouses in Retail

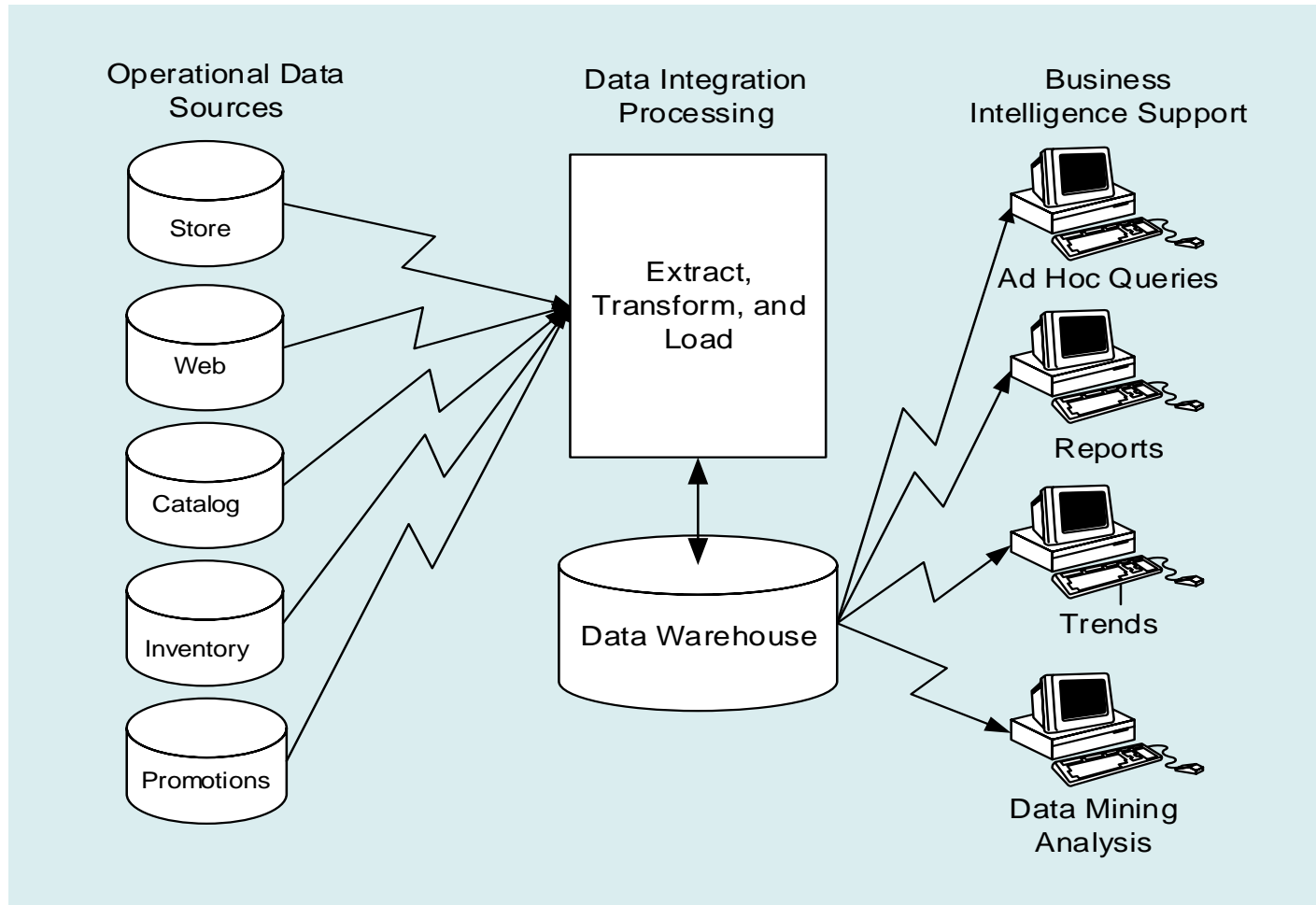
Pioneering data warehouse deployment led by Walmart

Support business intelligence on sites, products, pricing, inventory, and vendors

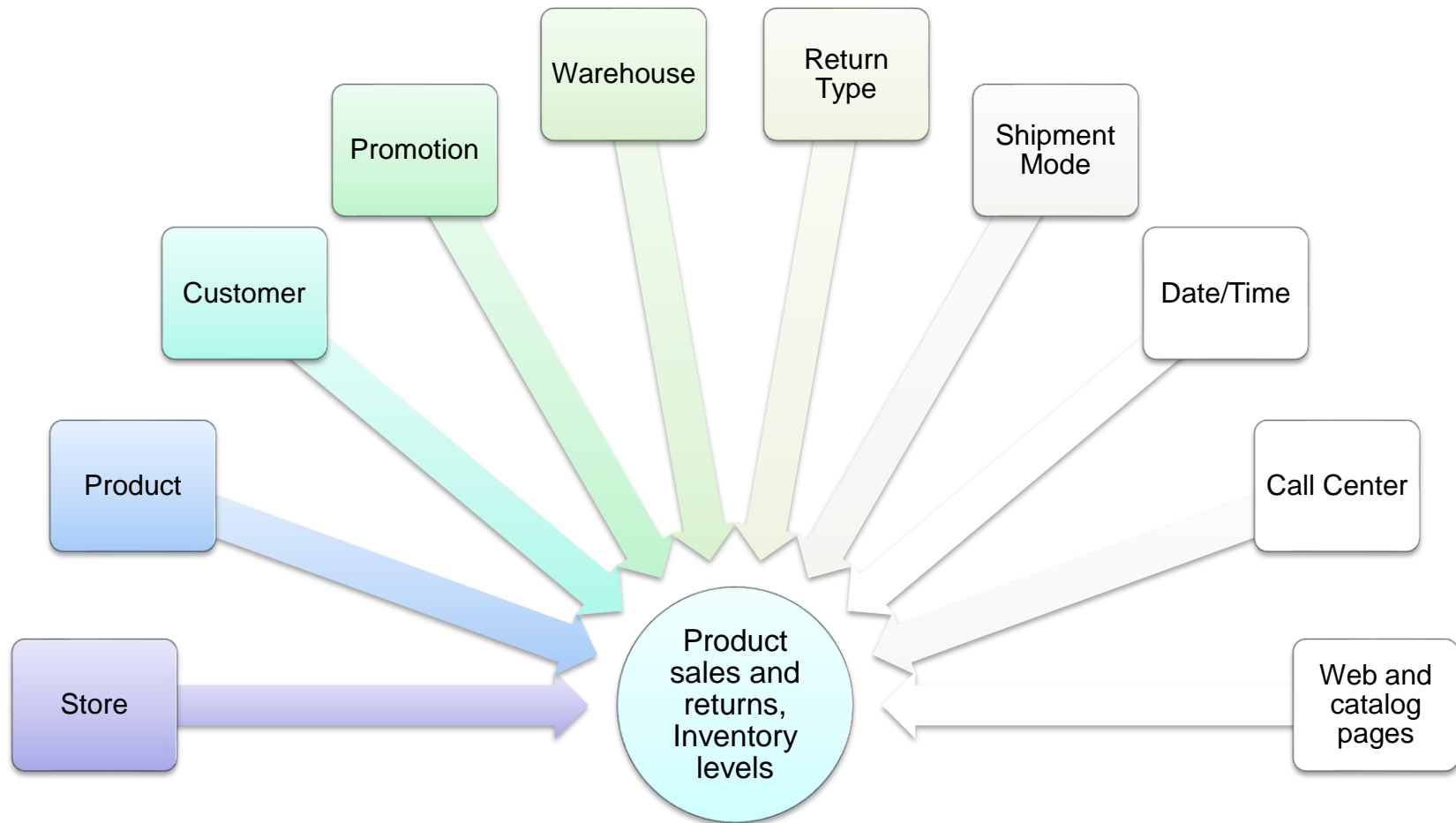
Customized data warehouse solutions by major DBMS vendors



TPC-DS Data Warehouse



Retail Entities and Facts



Data Warehouses in USA Education

Influenced by learning standards at higher government levels

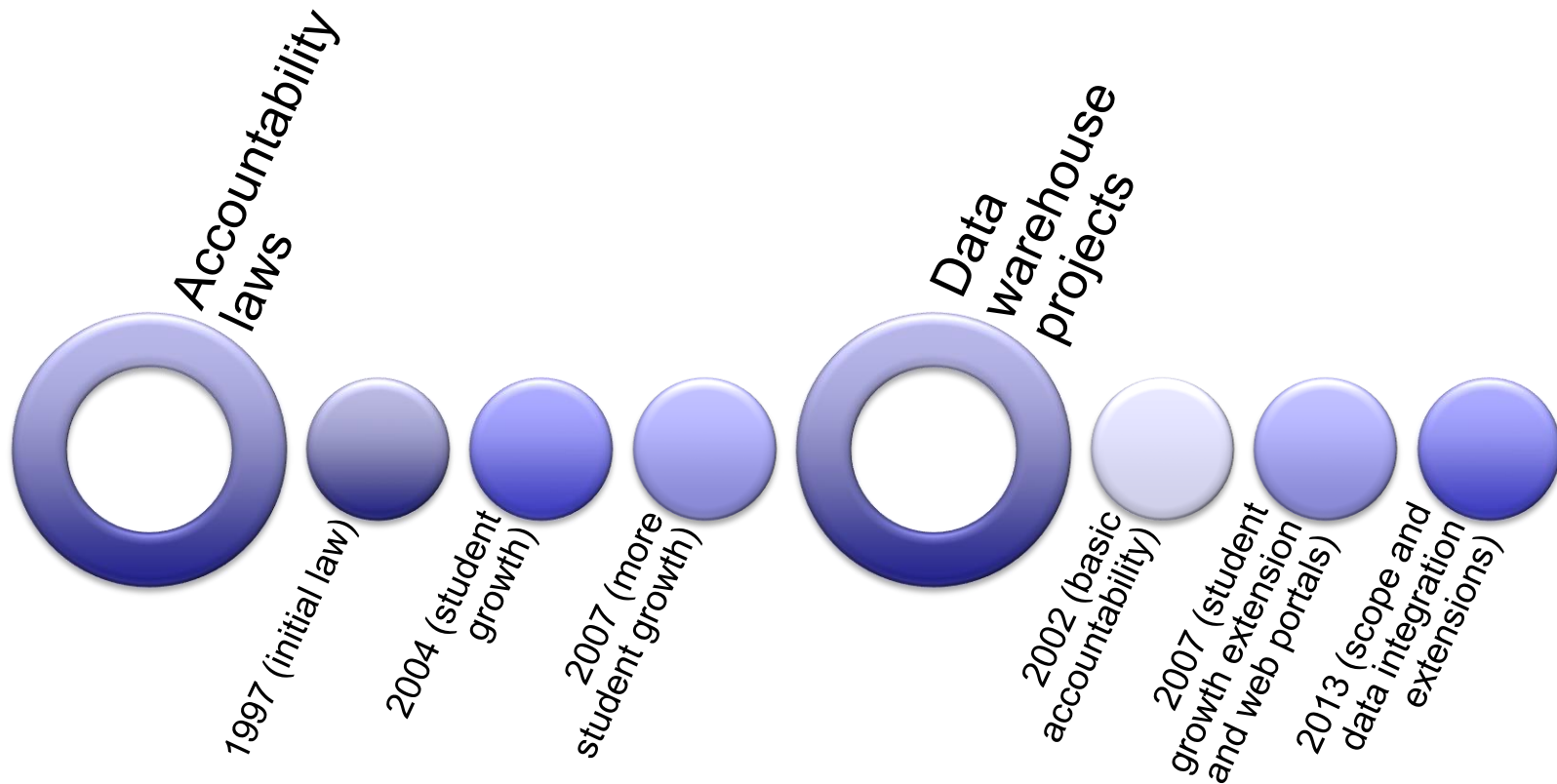
Local school districts with autonomy

Cooperation across school districts to satisfy reporting requirements

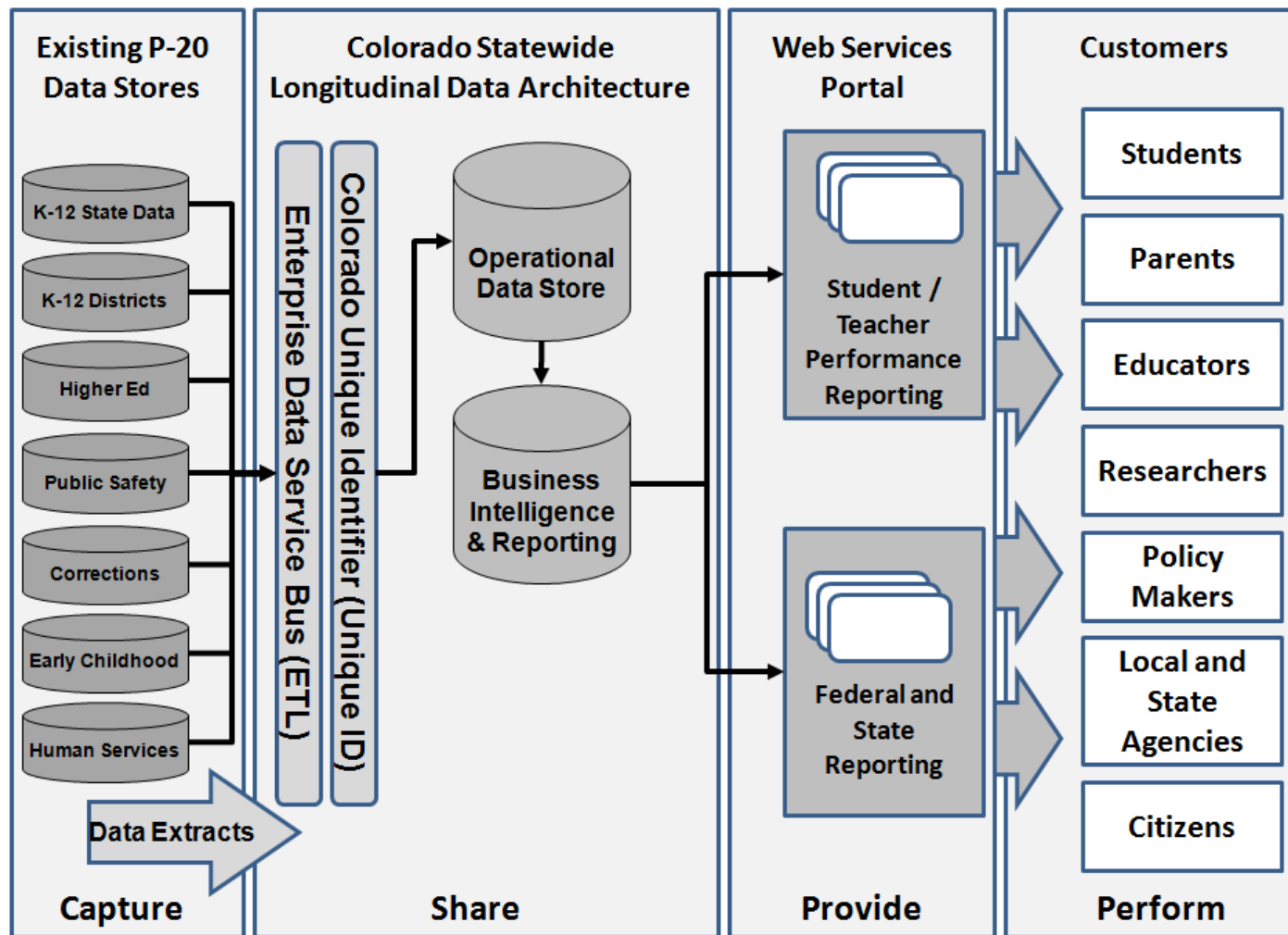
Federated data warehouse approach



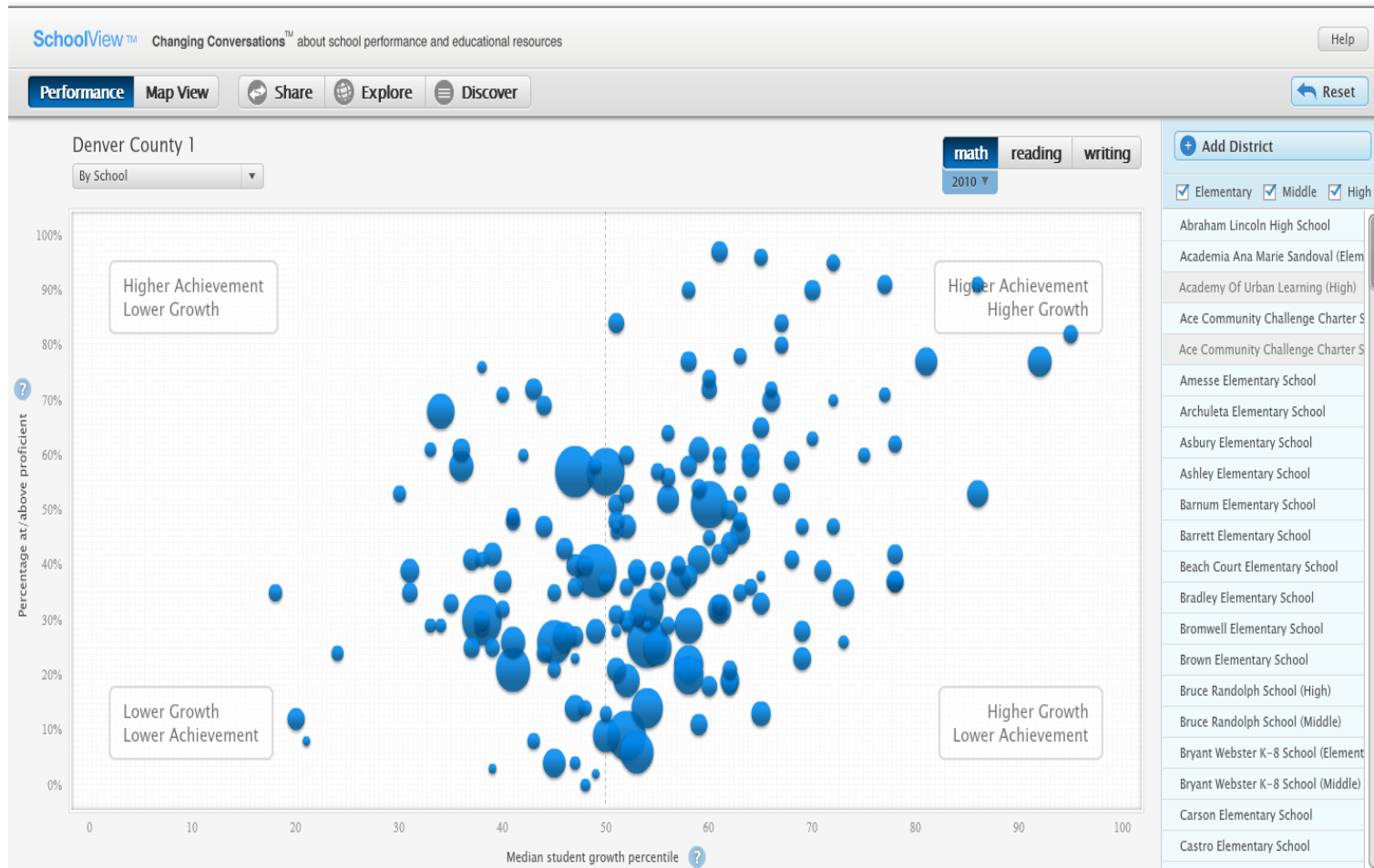
Accountability Laws in Colorado



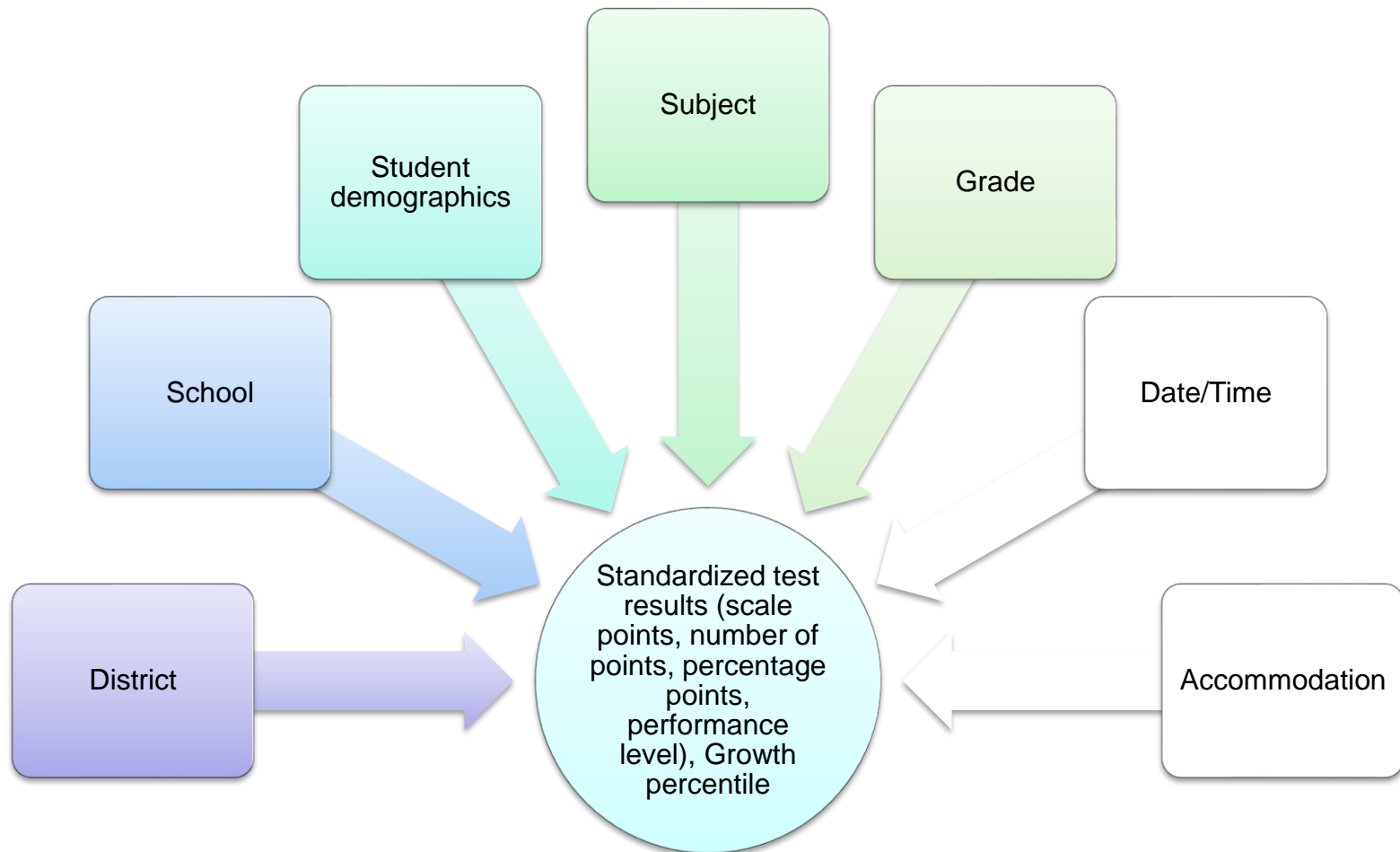
Federated Architecture



SchoolView Portal



School Entities and Facts



Summary

- Prominent examples of data warehouses in retail and education
- Retail dominated by large firms with distributed stores and multiple sales channels
- Education dominated by highly decentralized school districts and standards imposed by higher levels of government
- High level of maturity in both areas

