

The logo for Renaissance Learning, featuring the word "RENAISSANCE" in a bold, sans-serif font with a white swoosh above it, followed by "LEARNING™" in a smaller, all-caps font.

RENAISSANCE LEARNING™

# Building Open Data Pipelines

*September Conference*

*“Data is just like crude. It’s valuable, but if unrefined it cannot be used. It has to be changed into gas or chemicals to create a valuable entity that drives profitable activity; so must data be broken down, analyzed for it to have value.”*

*(commentator Michael Palmer)*

The background of the image shows several oil pumpjacks in silhouette against a sky with a purple and blue gradient. The pumpjacks are positioned on the right side of the frame, with their long, angled arms extending towards the left. The overall scene is dark and industrial, suggesting an oil field at dusk or dawn.

DATA

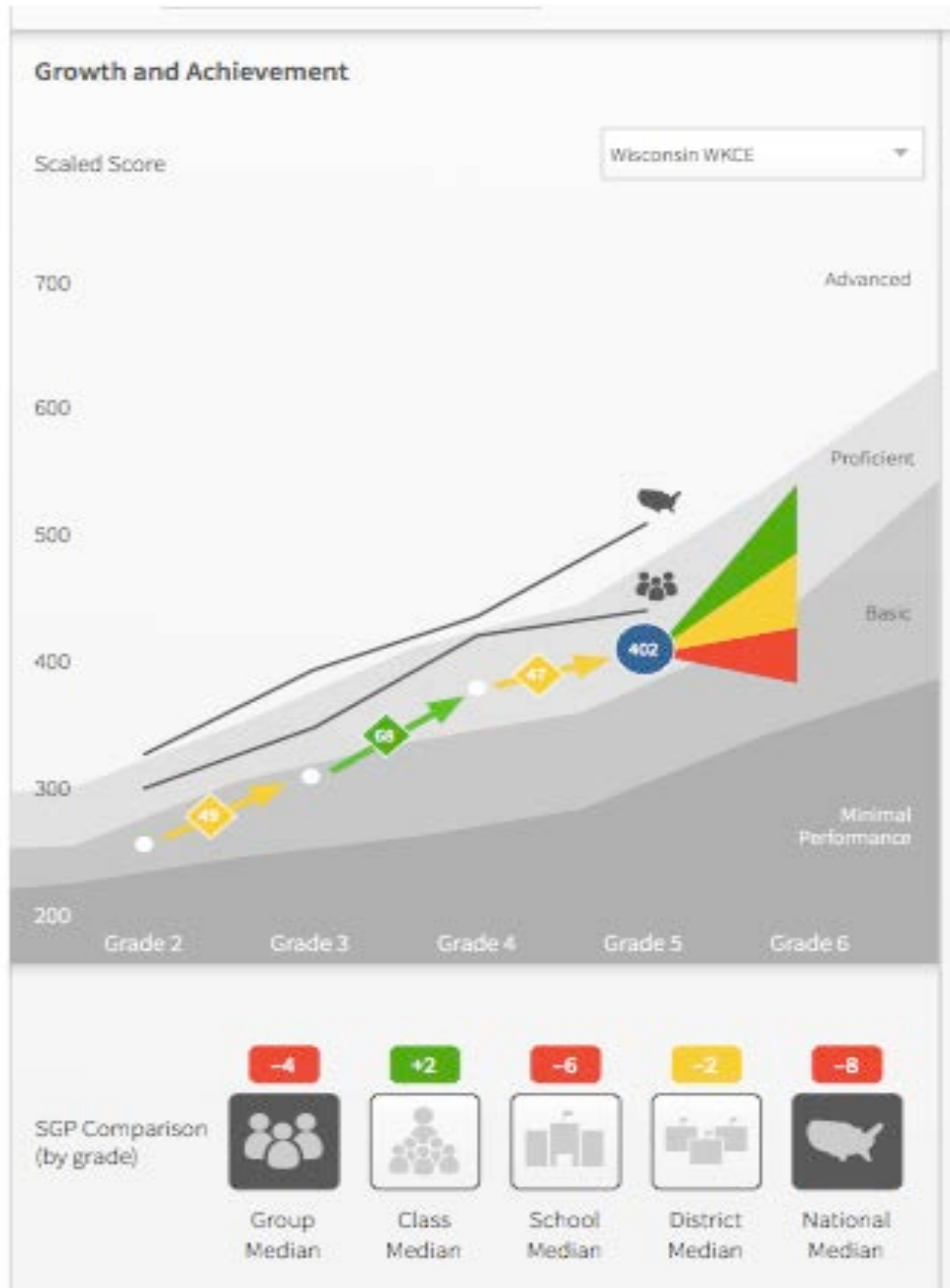
is the new oil



**data > visualized > insight > growth**

# SGP Visualized:

## Growth At A Glance



Teacher Identify via SSO

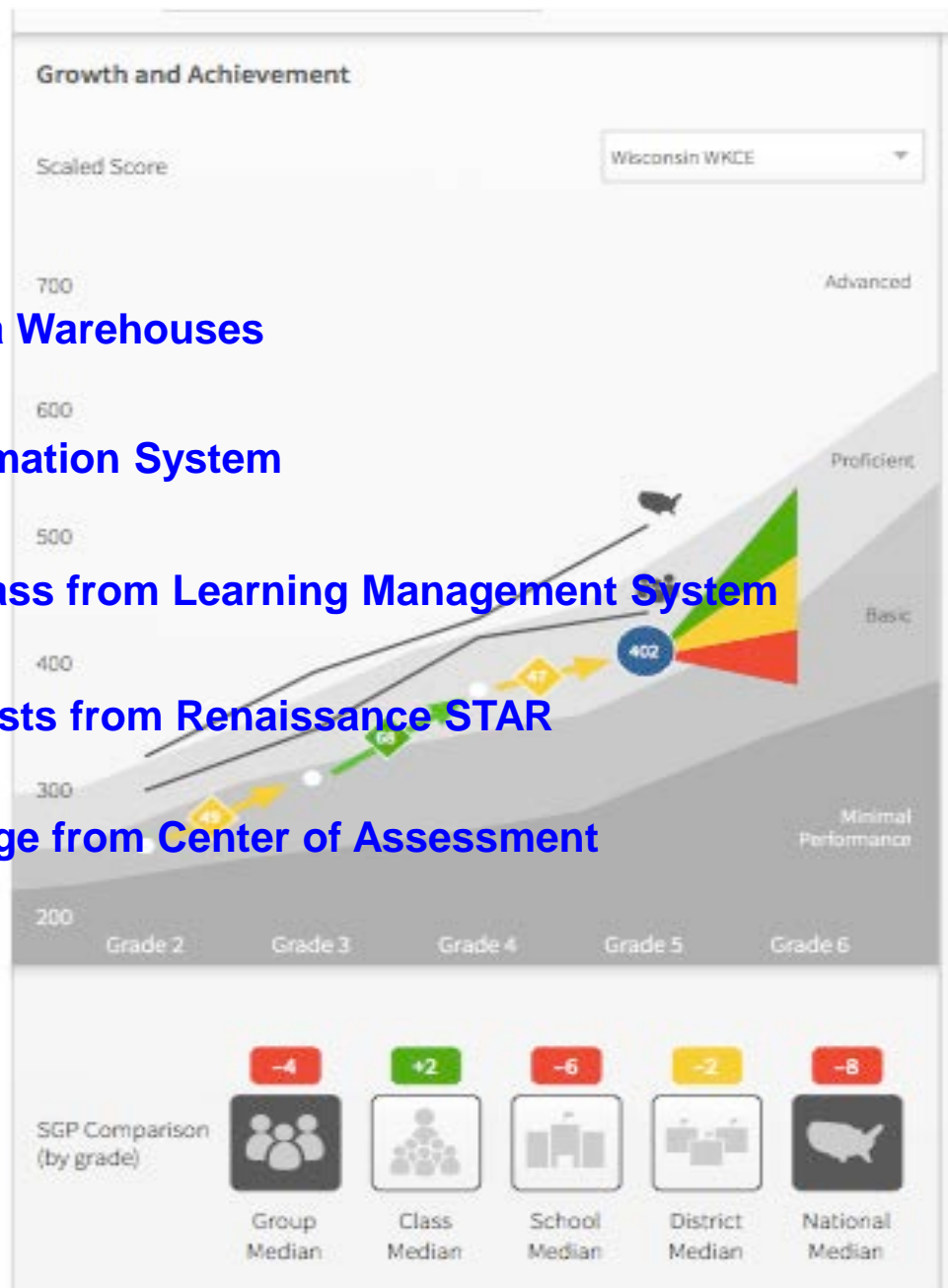
Benchmarks from District Data Warehouses

Student Data via Student Information System

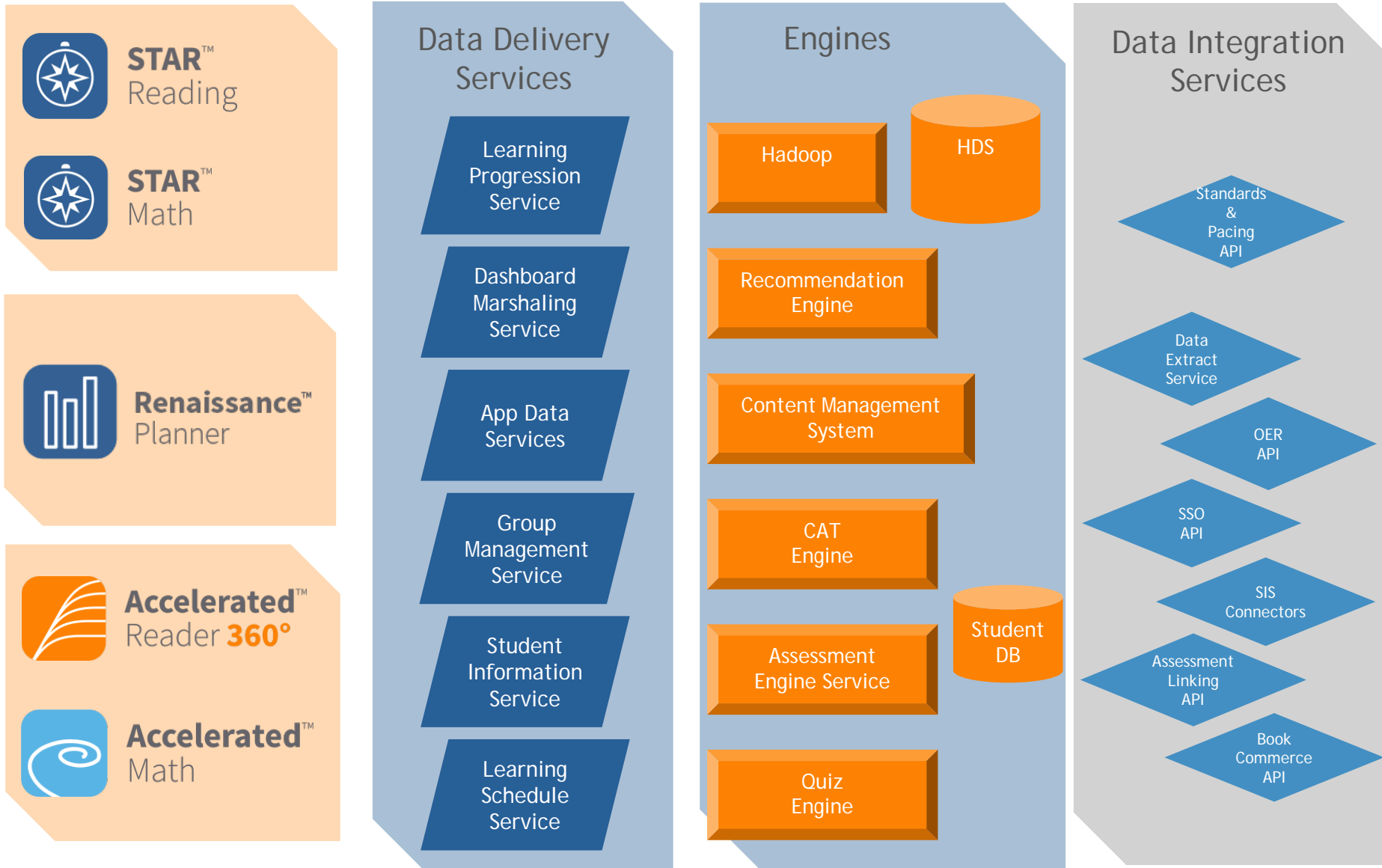
Aggregations to Group and Class from Learning Management System

Current Status and historical tests from Renaissance STAR

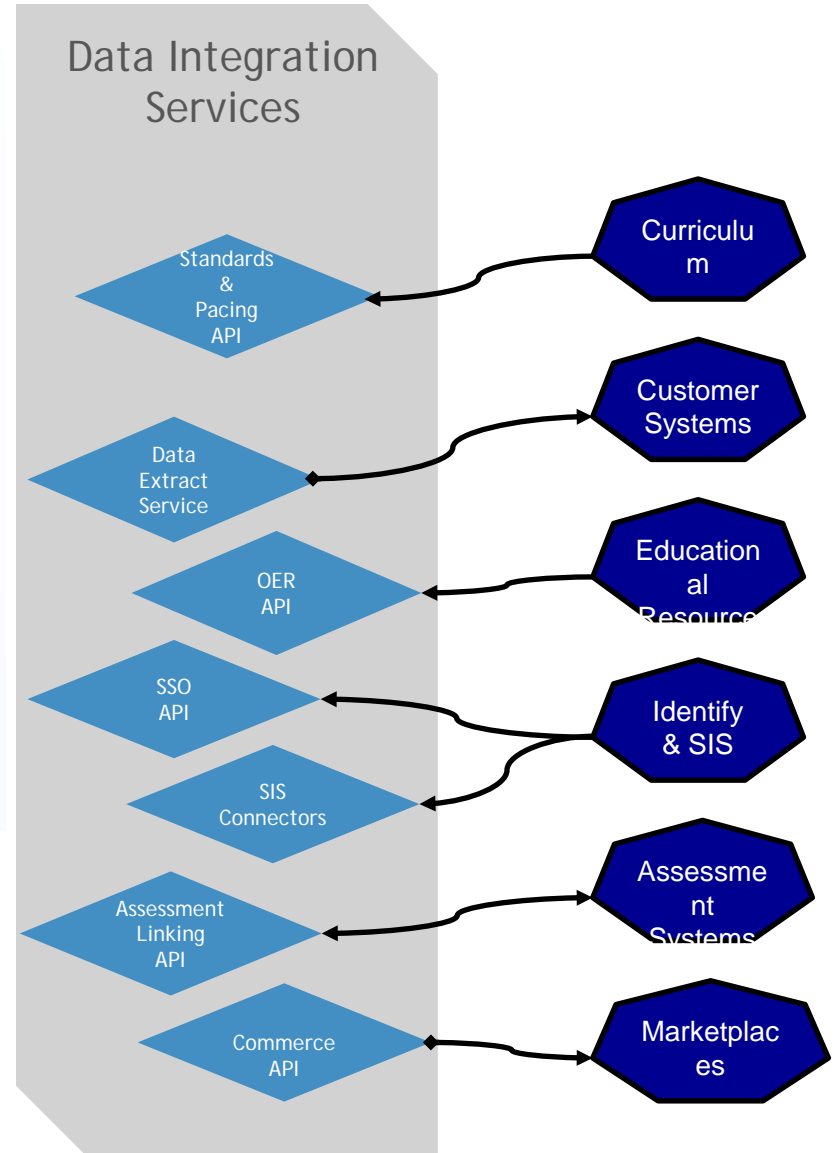
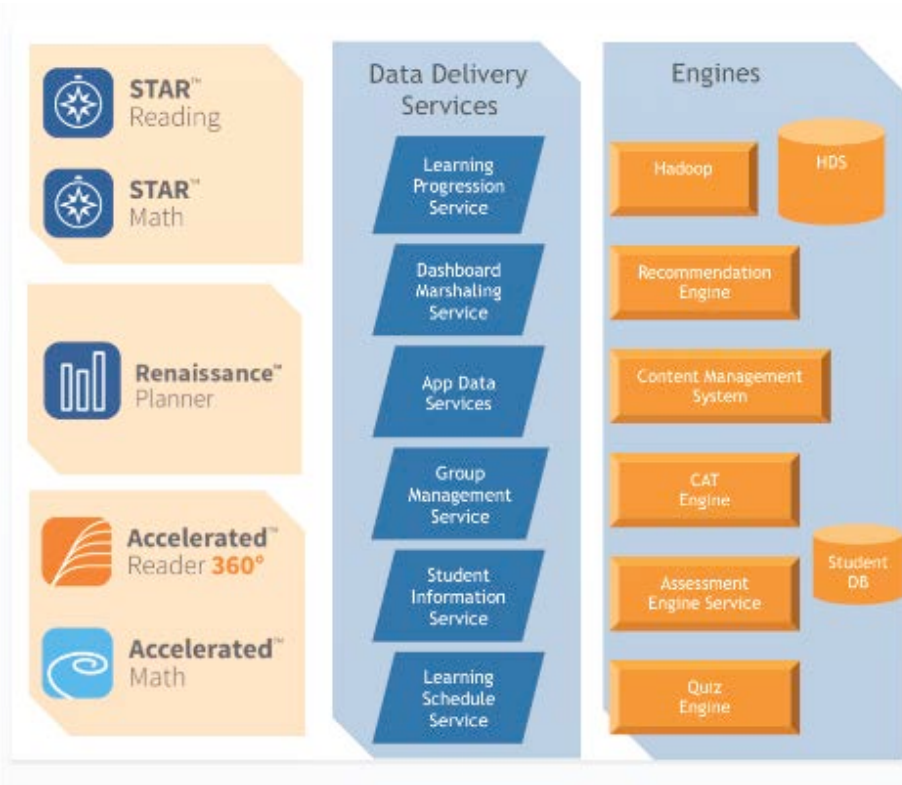
SGP Calculations from R package from Center of Assessment



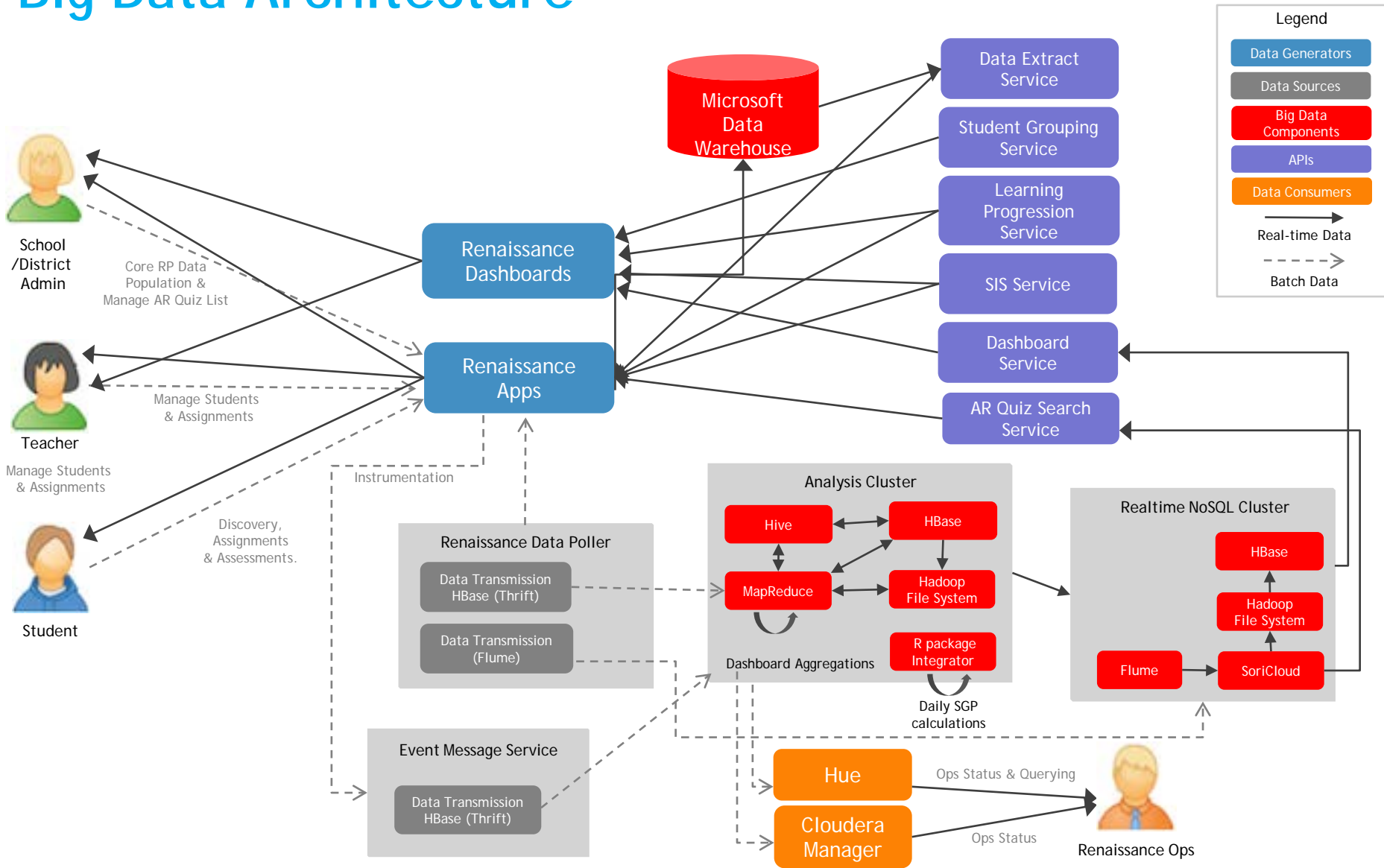
# Service Oriented & Data Defined Architecture



# Data: APIs & Services



# Big Data Architecture





# Moments of Insight. Continuous Growth.

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