entrance EDUCATIONAL DATA MATURITY MODEL FOR TEXAS PUBLIC CHARTER SCHOOLS

Ensuring the right people have access to appropriate data in a way that maximizes insight and aids decision making.

Point Solutions, Data Silos

- ▲ Data is stored in separate systems; disconnected
- ▲ Reporting is manual and time consuming
- ▲ Solutions might exist on-premises or in the cloud
- ▲ Some data managed in Excel

Some Integration

- ▲ Systems begin to talk to each other
- ▲ Begin to limit manual moving of data between systems
- ▲ Central identity provider aids in secure access to appropriate data

Robust Integration, Data Warehouse

- ▲ Readily produce static reports useful for a variety of roles
- ▲ Automated reporting to TEA and other compliance entities
- ▲ Unified view of core entities, especially the student
- ▲ Roll-up of data from campuses to school system

Advanced Visualizations

- ▲ Interactive visualizations allow for ad-hoc insights
- ▲ Enabling of end-users to create visualizations
- ▲ Real-time dashboards
- ▲ Data reuse without IT involvement

Advanced Data Analysis

- ▲ Statistical inference to guide decision making
- ▲ Machine learning
- ▲ Student cohort analysis
- ▲ Predictive behavioral intervention opportunities

Physical & Network Security

FERPA/IDEA/PPRA Compliance

This model is a generalization, and schools might not progress in a linear fashion. For instance, it's possible to have a suite of siloed systems that don't share data, but still implement advanced visualizations for one of these systems.

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