

A Modern Approach To Monitoring Transportation Network Performance

ITS WA 2018



Presentation Overview



Many Data Types and Sources



All This Data Creates Challenges

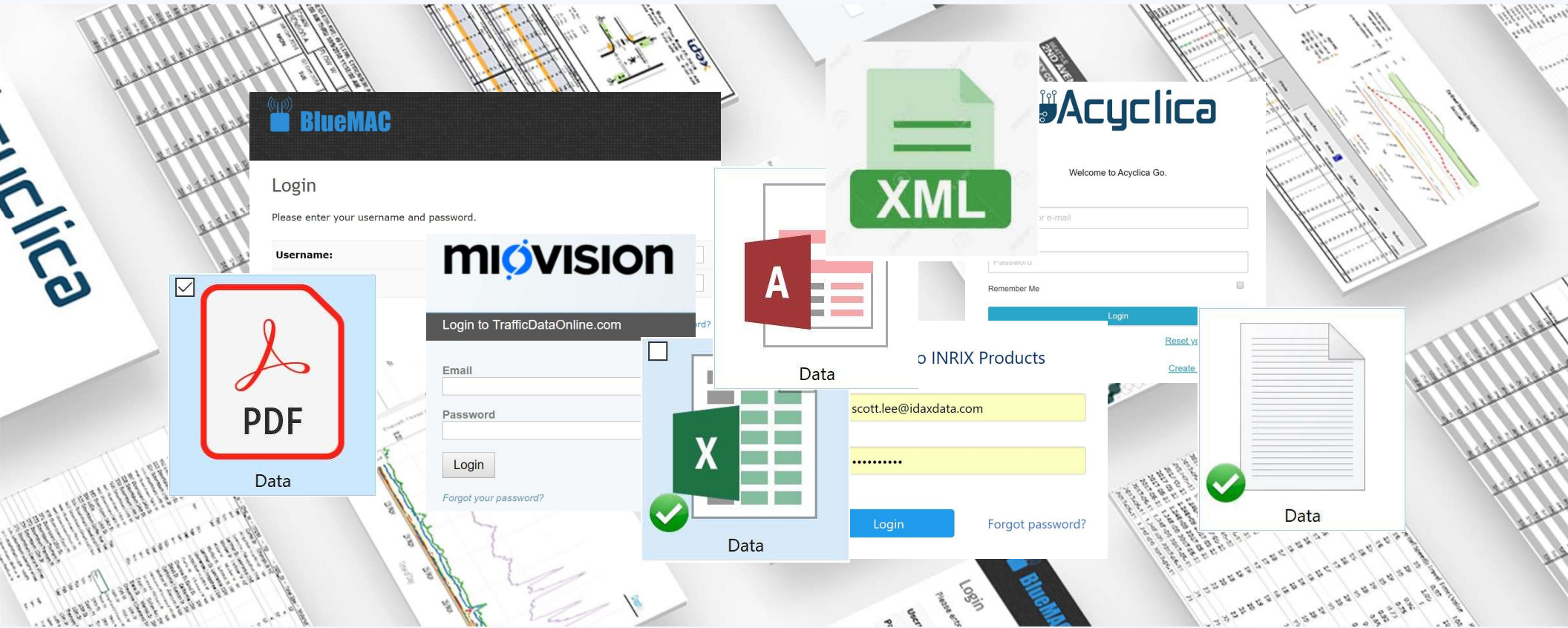


Platform Approach To Managing Data

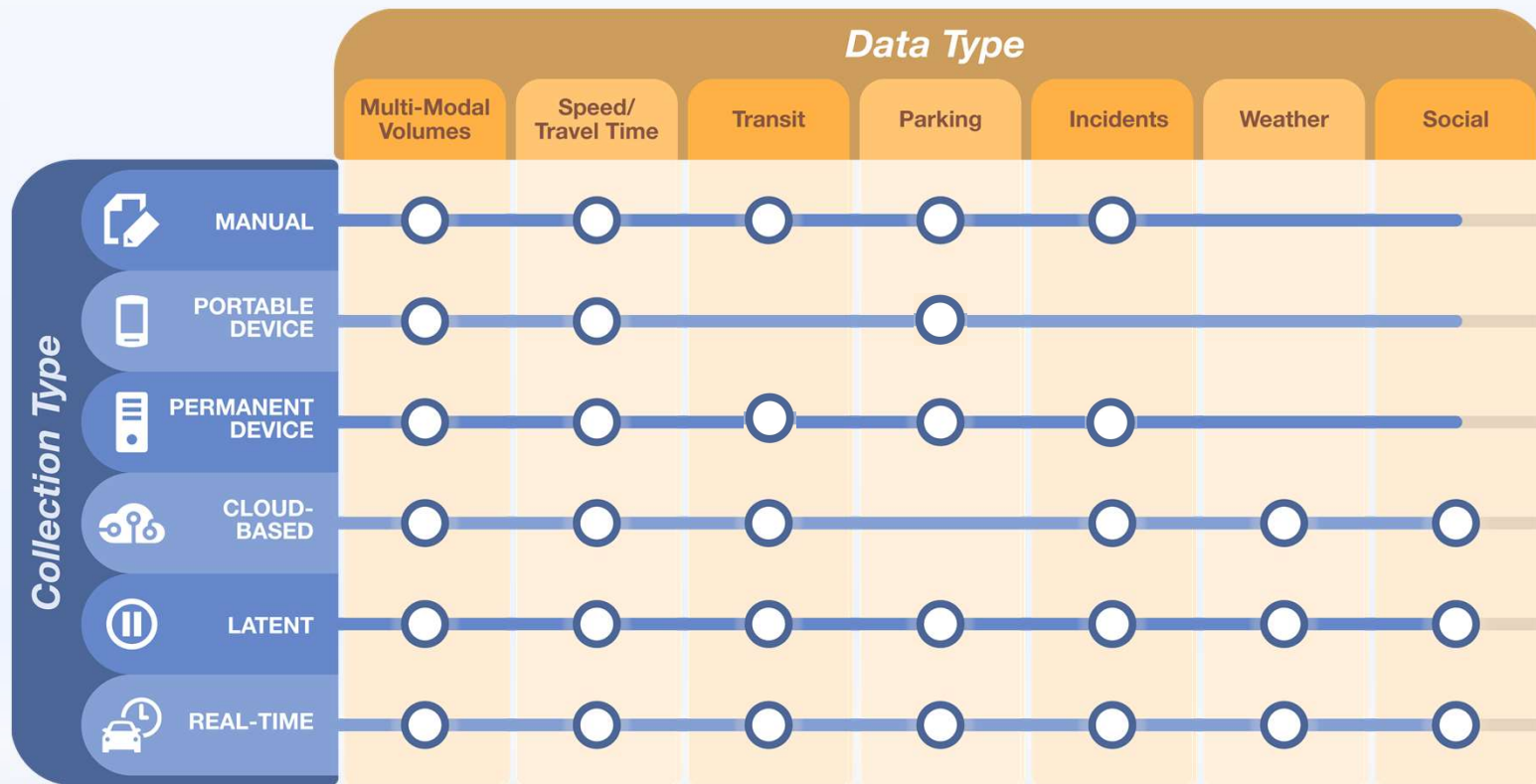


Case Study

Many Different Types and Sources of Data



Many Different Types and Sources of Data



All This Data Creates Challenges



Accessibility



**Ingestion/
Aggregation**



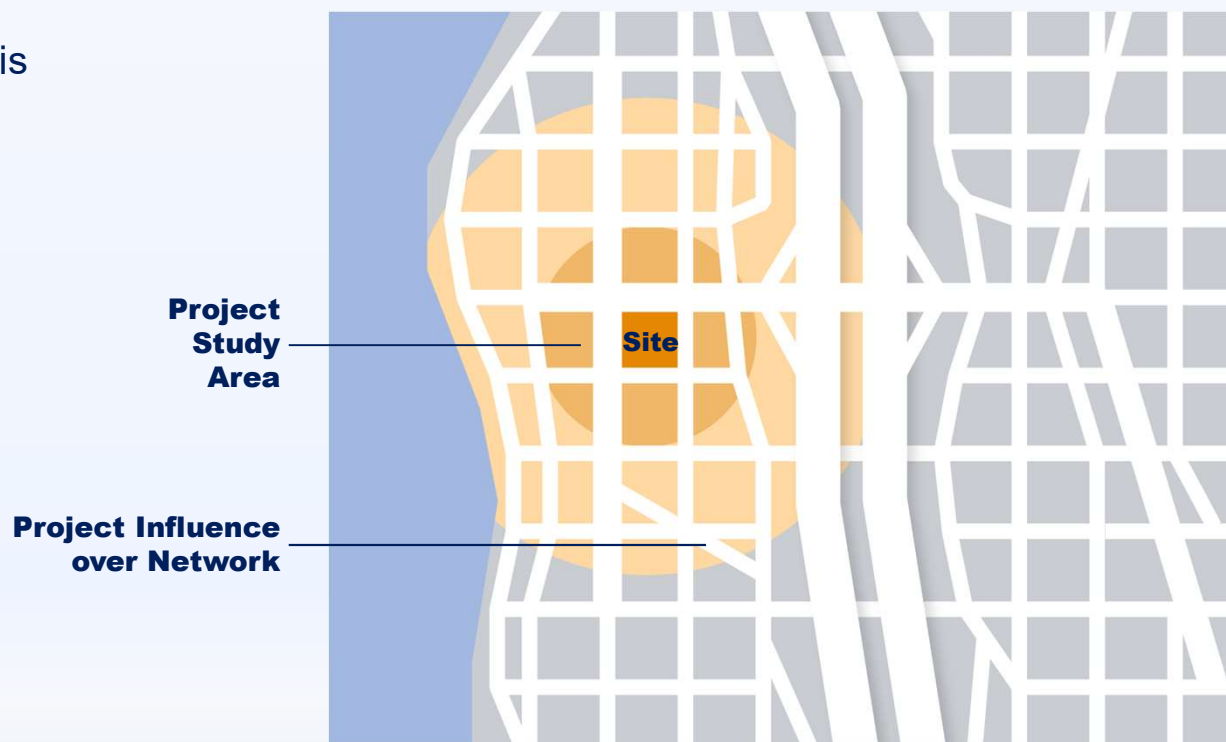
**Management/
Monitoring**



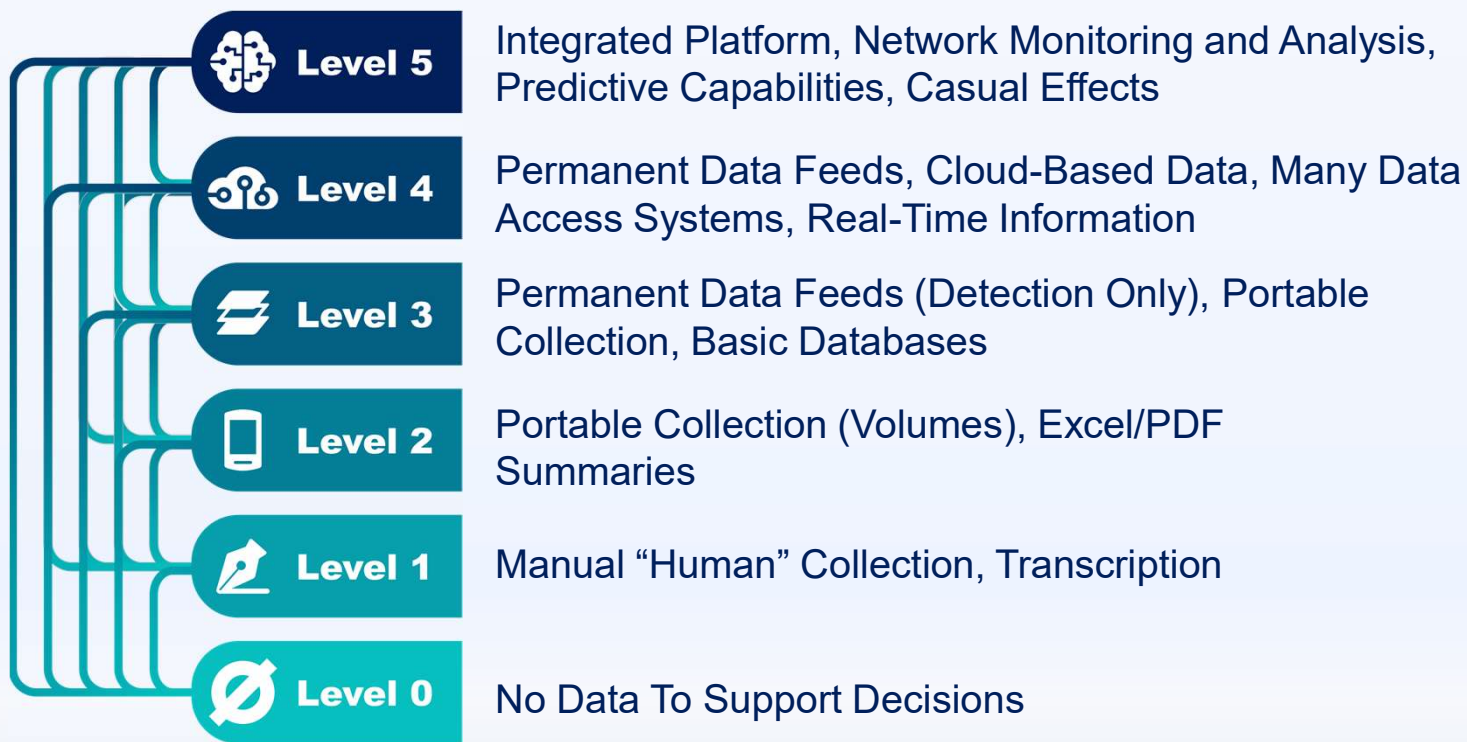
**Analysis/
Analytics**

Project Versus Network Performance

- Typically Project Focused Analysis
- Network Impacts / Performance Often Not Realized



So Where Do You Stand?

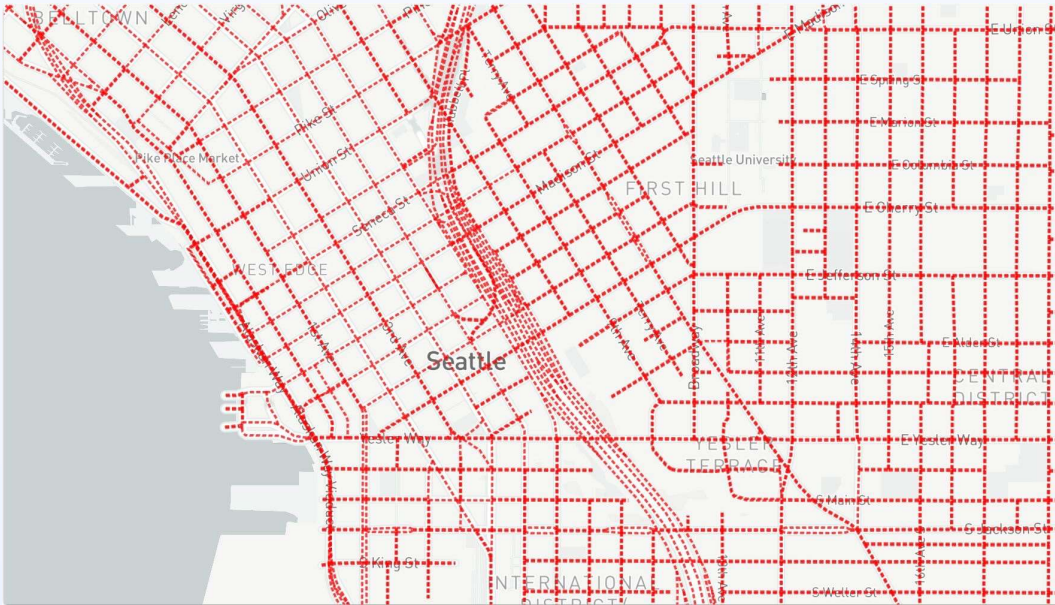


Data Platforms Provide Tools To Manage Many Datasets

- Cloud-Hosted Solutions
- Data Summaries → Events
- Ingestion/Aggregation
- Standardization
- Management
- Analytics/Reporting



Standardized Segmentation



Standard Segmentation Important to Connect All Data Types

Example: SharedStreets

- Digital Commons for the Street
- Unique Identification
- Datasets Referenced to the Same Segmentation

Platform Capabilities



SR 99 Viaduct Closure / Tunnel Opening



● **Project Background**

● **Data Sources and Plan**

● **SDOT Platform**

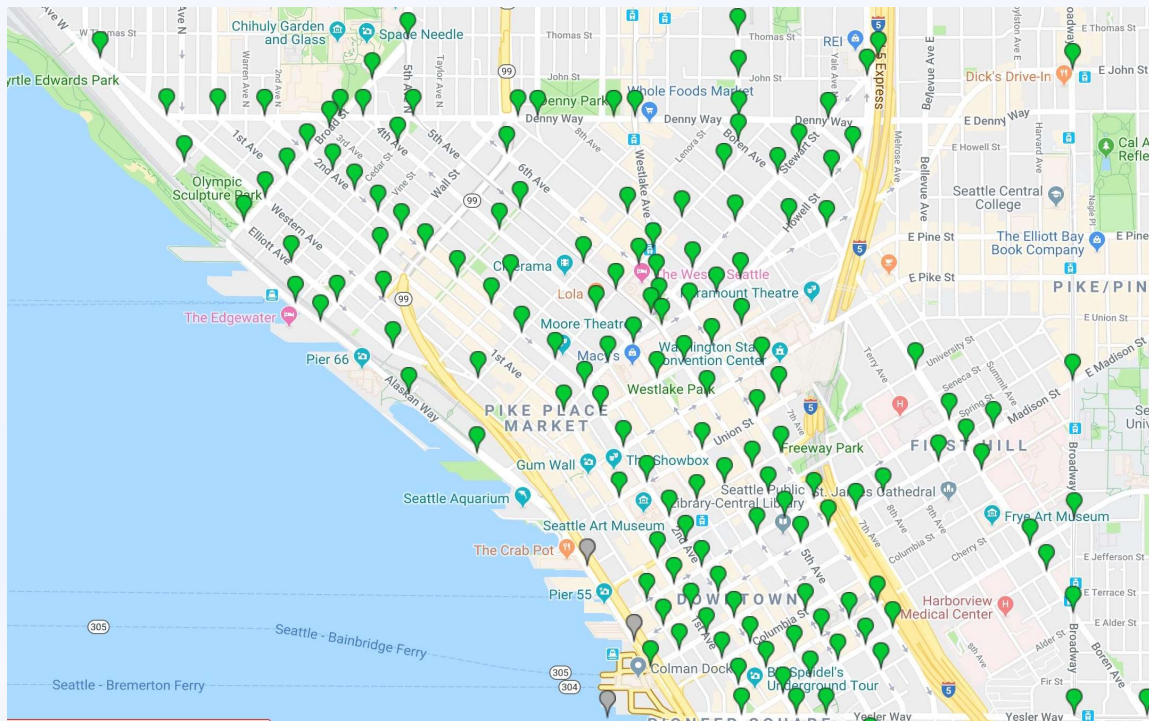
Project Background



- WSDOT Replacing Alaskan Way Viaduct With Underground Tunnel
- Multiple Phases Anticipated To Have Traffic Impacts
- SDOT Is Primary Data Provider

Data Sources and Plan

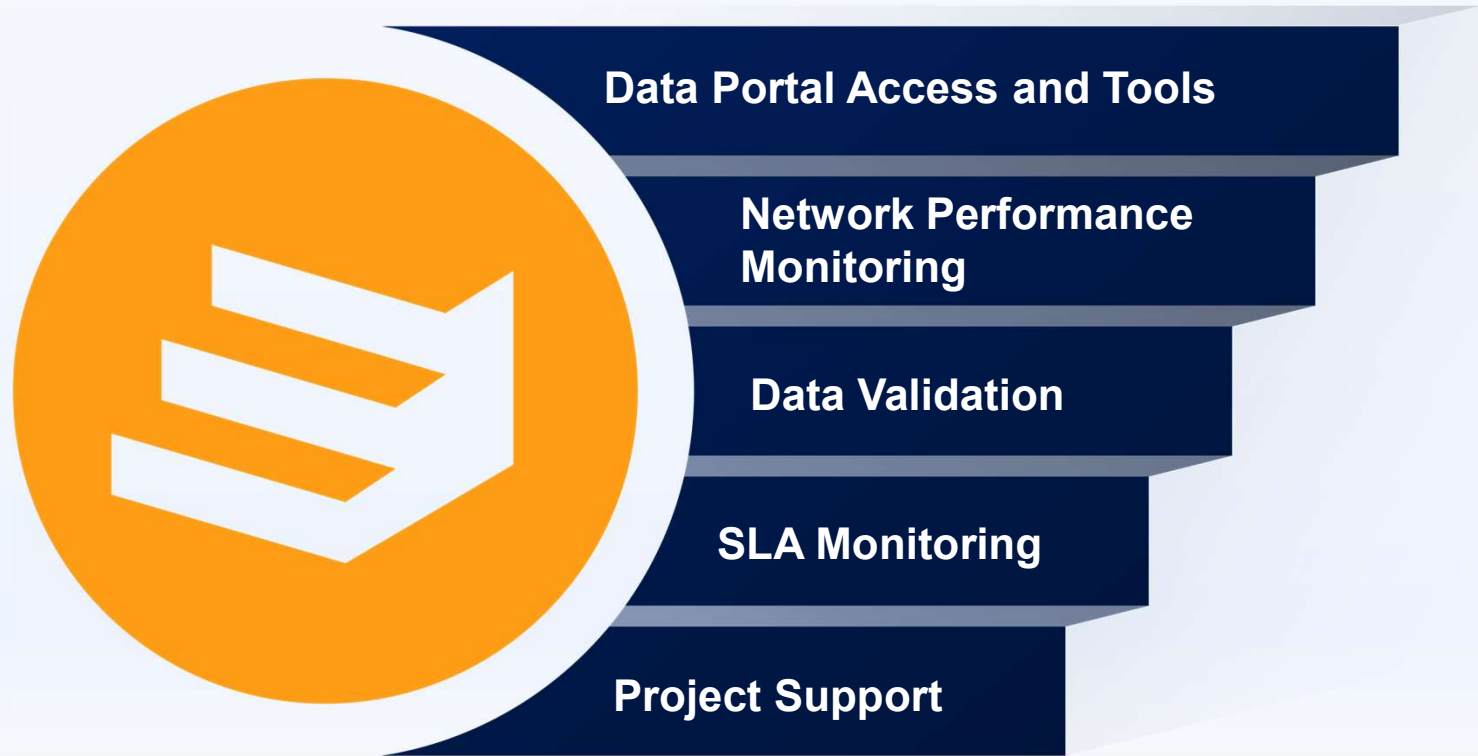
- SDOT Data Sources
- Baseline Comparison
- Daily, Weekly, and Monthly Reporting



SDOT Data Platform



Next Steps



Questions?