

State of Colorado connects department data through integration



The Department of Transportation within the State of Colorado exists to ensure a safe and efficient highway system by building and maintaining interstates, U.S. highways, and state highways.

The State was looking to unleash walled Department of Transportation data to relevant internal and external stakeholders for operational efficiency, safety and transportation planning, construction project management and agency-wide analytics.

Challenges

- ◆ Siloed data management systems made cross-functional reporting and applications highly dependent on manual sharing, and data acquisition lengthy and complicated
- ◆ Unknown source of authoritative data lead to different metrics being reported, depending on the source system/method of data extraction
- ◆ Delays in data frequency as most integrations are nightly/weekly, forcing decision makers to rely on data that quickly becomes stale

Solutions

- ◆ Used APIs to expose and integrate multiple department databases and systems safely and securely
- ◆ Connected data and built APIs for 10+ stakeholder groups to access relevant data, information, financials, permits, assets, and more
- ◆ Enabled staff and integration partners with an API-led approach for improved service delivery for reliable and recent data integrations

Results

- ▶ Dramatically reduced the time to share data between teams **from days to seconds**
- ▶ Created **re-usable data services**
- ▶ Integrated **6 essential systems**
- ▶ Enabled Department of Transportation stakeholders to have **real-time access to data** and move to self-service data