

Weaving GIS into Managing a Million Spreadsheets, Assets, Decisions, and People



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Specializing in location intelligence
& systems management, to support
technology-driven solutions

City of Fort Worth



Chris Akin

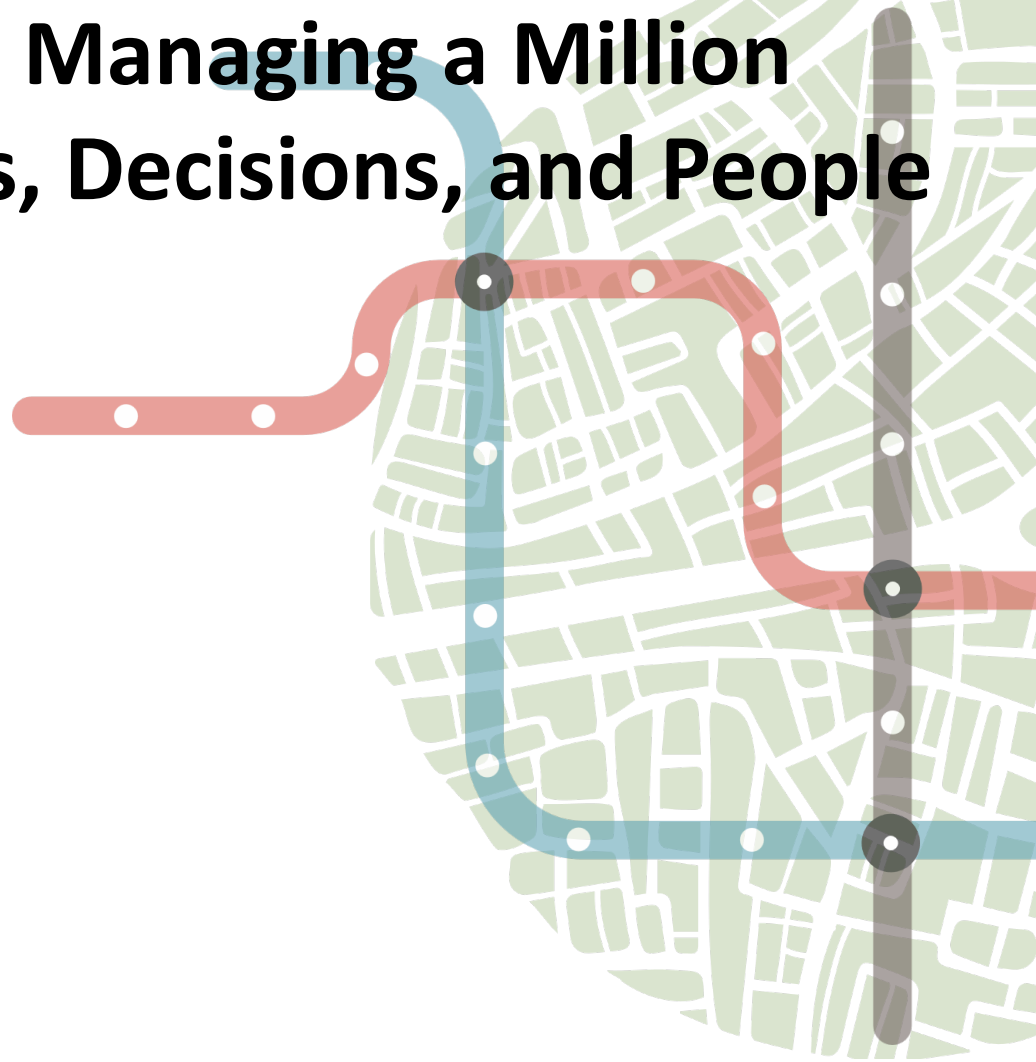
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Transportation and Public Works

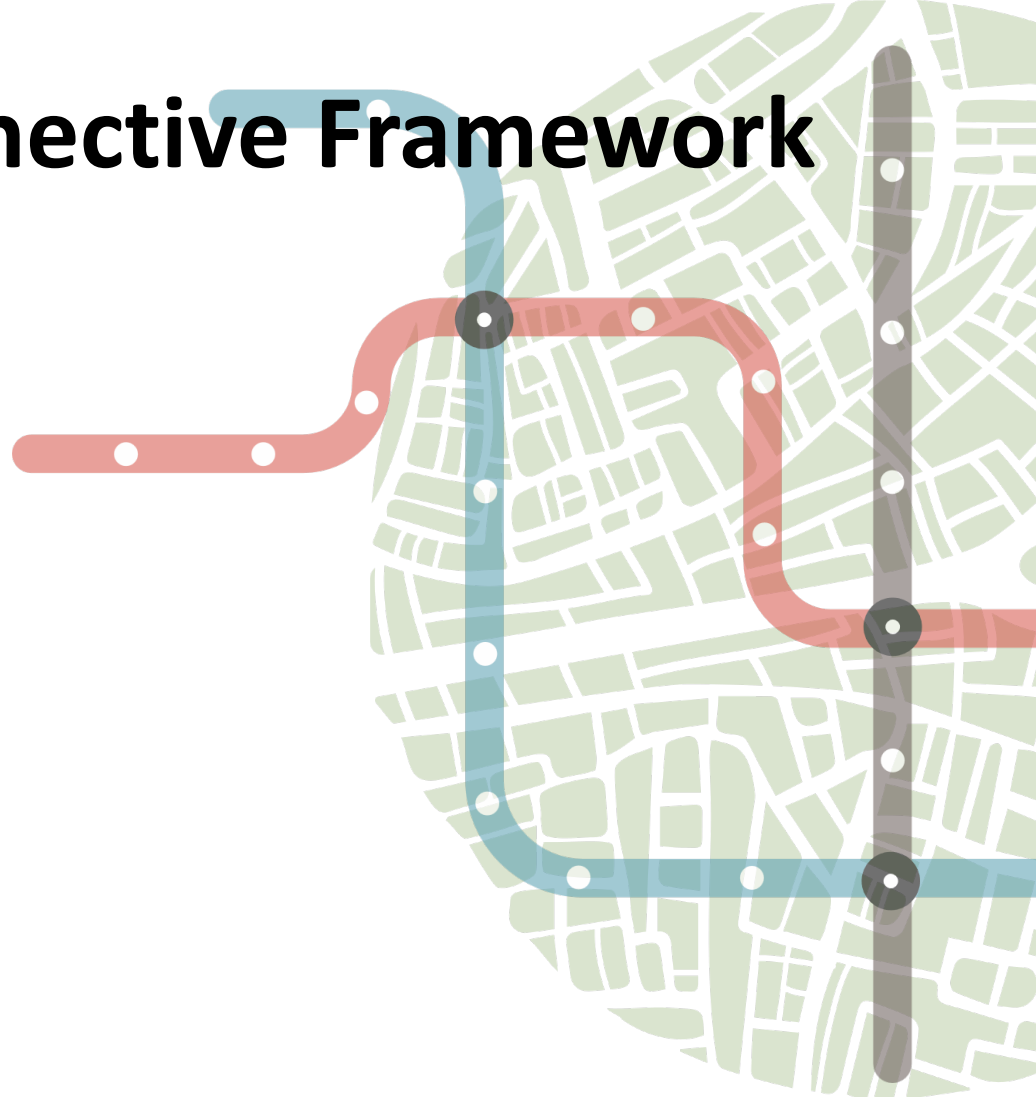
Weaving GIS into Managing a Million Spreadsheets, Assets, Decisions, and People

- Overview of the challenges in data management
- Vast amounts of data across divisions
- Disconnected spreadsheets and siloed datasets
- Fragmented workflows impacting efficiency



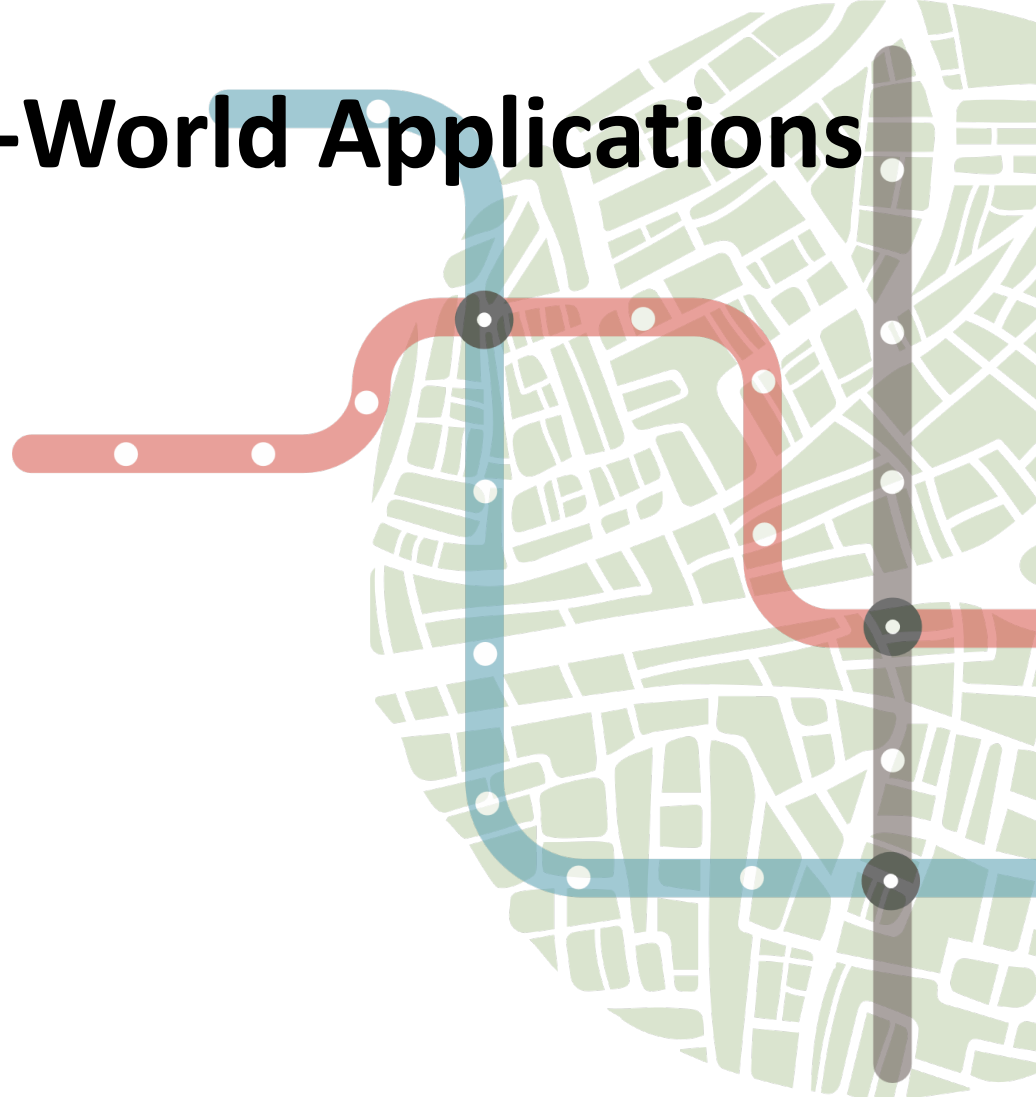
GIS as the Connective Framework

- Transforms disconnected information into actionable intelligence
- Supports integrated decision-making across teams



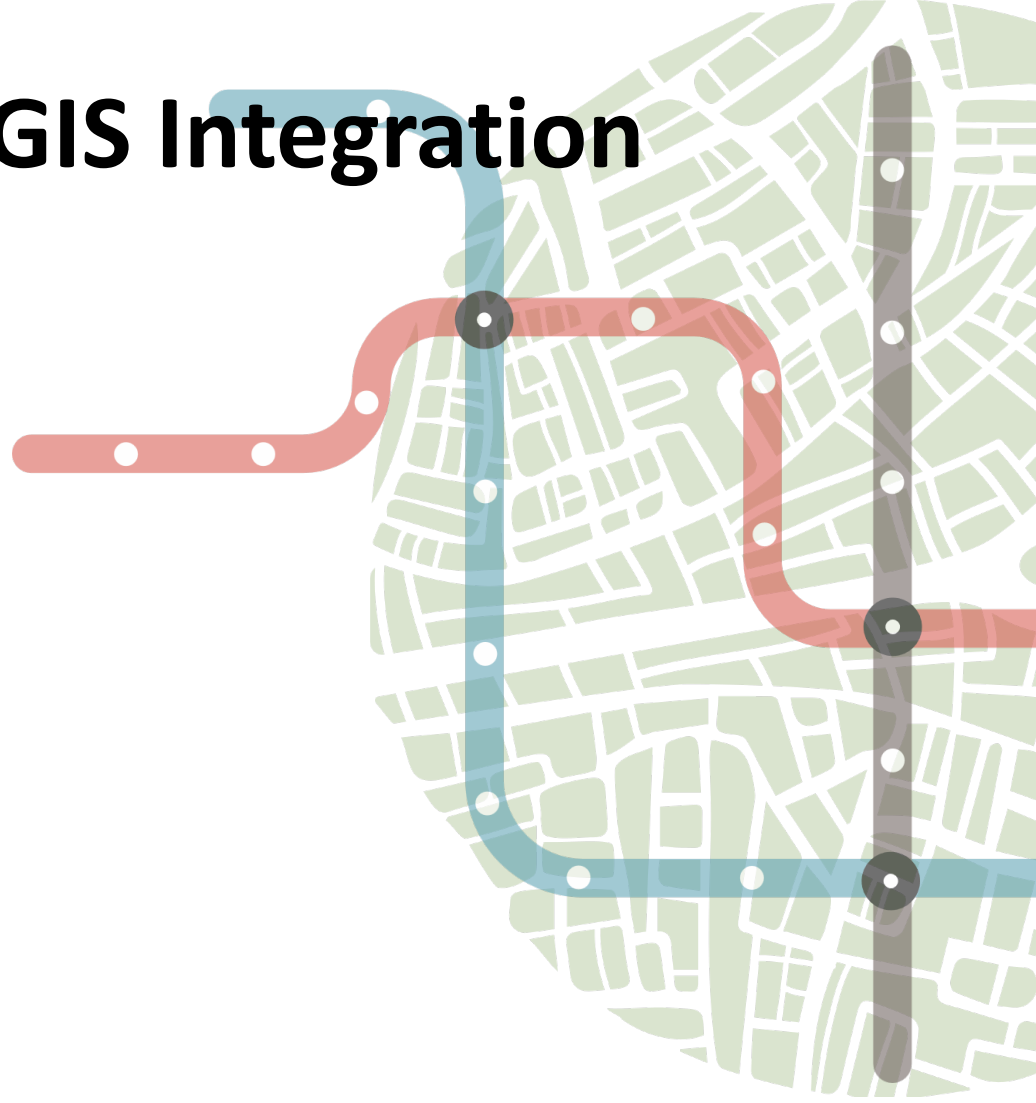
Fort Worth Real-World Applications

- Asset management
- Infrastructure planning
- Maintenance coordination
- Stormwater programs
- Pavement management
- Capital project delivery



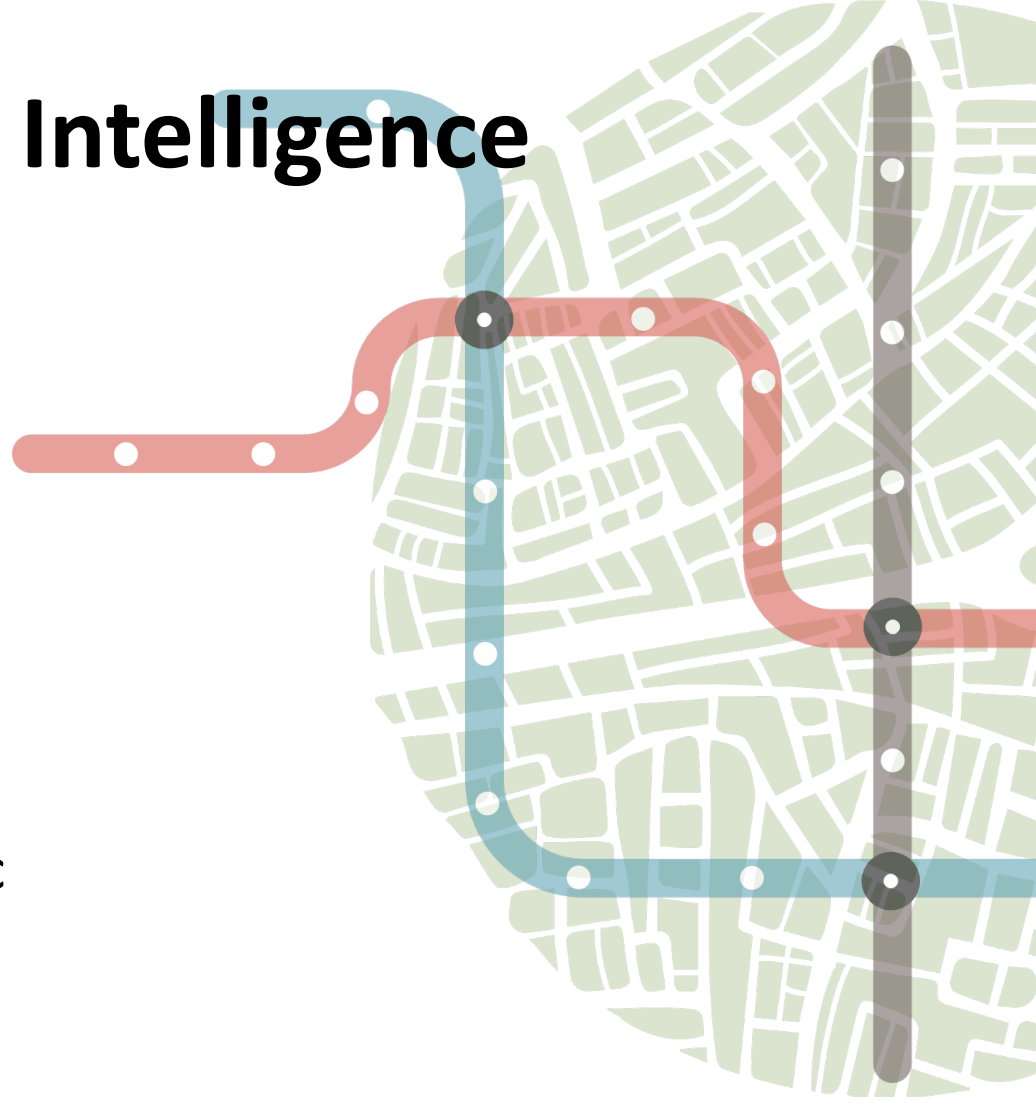
Enterprise GIS Integration

- Connecting GIS with business systems
- Dashboards and GIS Hub initiatives
- Streamlining field operations
- Strengthening data governance processes



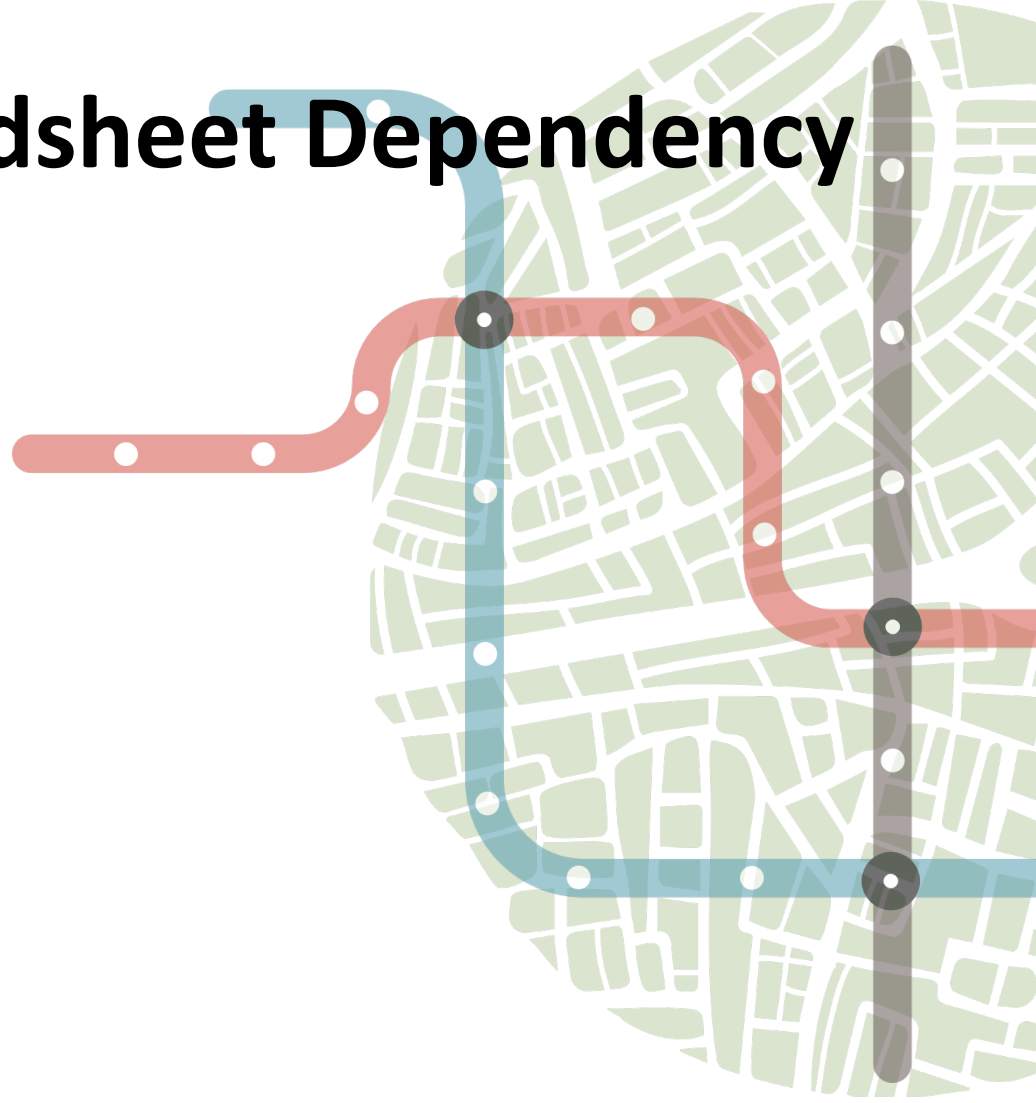
Location Intelligence

- Prioritizing investments
- Identifying service gaps
- Monitoring infrastructure conditions
- Enhancing communication with leadership and the public



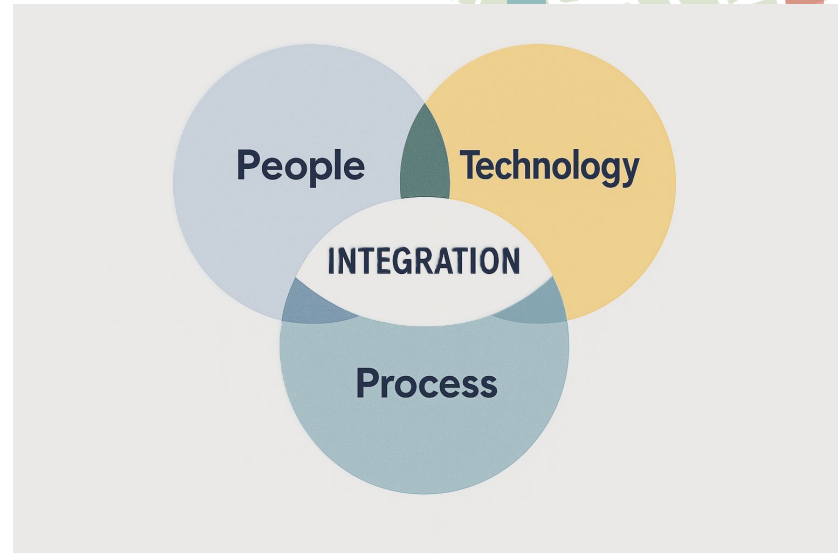
Reducing Spreadsheet Dependency

- Migrating manual workflows to GIS-enabled solutions
- Improving collaboration between departments



Organizational Adoption of GIS

- Managing change effectively
- Building cross-functional partnerships
- Improving data stewardship
- Empowering staff with accessible, trusted data



Benefits to Public Works

- Better decision-making through location intelligence
- Improved service delivery for residents
- Stronger communication and transparency

Home / Departments / Transportation & Public Works

Transportation & Public Works

The Transportation and Public Works Department is responsible for overseeing the planning, design, construction, maintenance and operations of transportation-related infrastructure within the City of Fort Worth. The Transportation and Public Works Department (TPW) meets these challenges by maintaining:

TPW Asset Count Dashboard

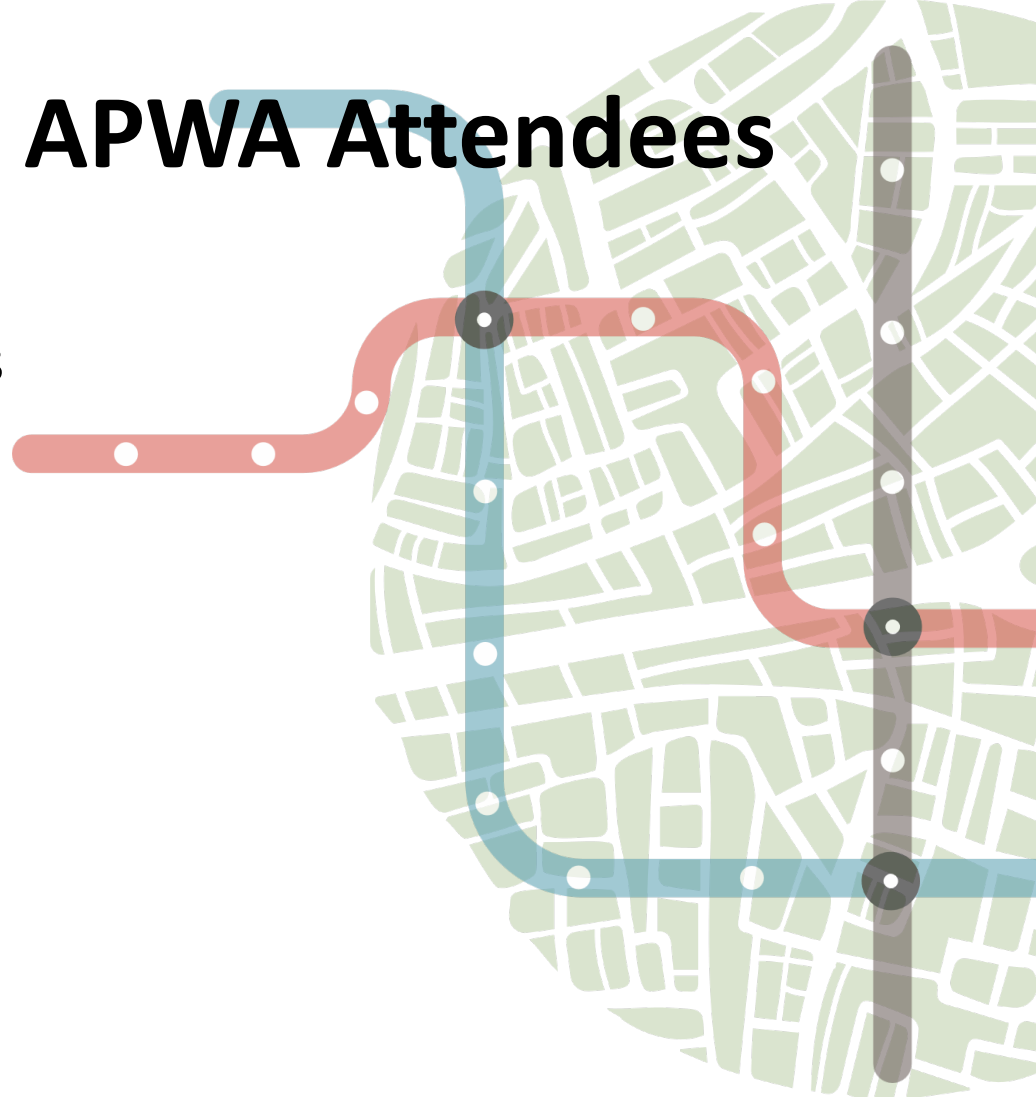
1 of 1	
Engineered Channel Miles 230.3	Pavement Lane Miles 8.6k
Signs 143.2k	Parking Meters 1.2k
Pavement Marking Miles 2.2k	Railroad Crossings 224
Street Lights 70.9k	Signal Intersections 958
Traffic Signals 5.1k	Storm Inlets 31.3k



Transportation and Public Works

Takeaways for APWA Attendees

- Use GIS as a strategic business platform
- Align assets, people, and decisions
- Transform your workflows with integrated spatial data



Conclusion

- GIS is more than a mapping tool—it is a catalyst for modernization
- Empower your organization with connected, intelligent data

