

FHWA Data Business Plan National Workshop

07/08/2020



Current State of Partnerships

- 2019 FHWA DBP Workshop
- 2020 Regional TSMO/ITS Architecture Update Coordination - Strategic Initiatives & Data Governance & Best Practices Report
- 2020 GDOT Data Purchasing Pooling effort (Eastern Transportation Coalition)
- 2020 State Road & Tollway Authority (SRTA) Enterprise Data Business Plan

2019 FHWA DBP Workshop Identified Key Needs

- Data inventory/catalog to document who has what and where it resides and how to access it
- Coordinate on data purchases
- Define and agree on common definitions (e.g., Mobility as a Service)
- Standards to share data across region
- Data maintenance to keep track of data ownership, consistency, and updating the system.
- Agreement between the agencies on their role and responsibilities to share their own portion and keep it updated.

2020 TSMO - Strategic Initiatives

Foundational Elements Focused Initiatives



Strengthen TSMO
Planning & Institutions



Enhance Data Sharing
& Management



Encourage TSMO
Innovation

Deployment Focused Initiatives



Deploy Connected &
Automated Vehicle
Technologies



Advance Regional
Coordination & Network
Communications



Strengthen Work Zone
& Event Management



Enhance Transit
Operations



Advance Mobility
as a Service

2020 TSMO - Regional Data Governance

Step 1 - Engagement

- Identify stakeholders (completed)
- 2019 FHWA DBP workshop (completed)

Step 2 – Data Scope

- Short term action plan (completed)
- Develop data catalog (in progress)

Step 3 – Stewardship Strategies

- Develop data priorities and standards (not started)
- Publish data catalog (online)

Step 4 – Establish Governance

- Develop charter with organizational structure, roles, and responsibilities (in progress)

GDOT Pooled Data Purchasing Initiative (2020)



STATEWIDE DATA RESEARCH

April 2020

- Identifies data gaps and aims to avoid duplication between ARC, SRTA, & GDOT
- Peer review shows centralized joint data programs saves millions of dollars in other states
- Would establish a joint working group to identify shared data needs
- Would expand beyond ARC & GDOT over time

GDOT Pooled Data Purchasing Initiative



STATEWIDE DATA RESEARCH

April 2020

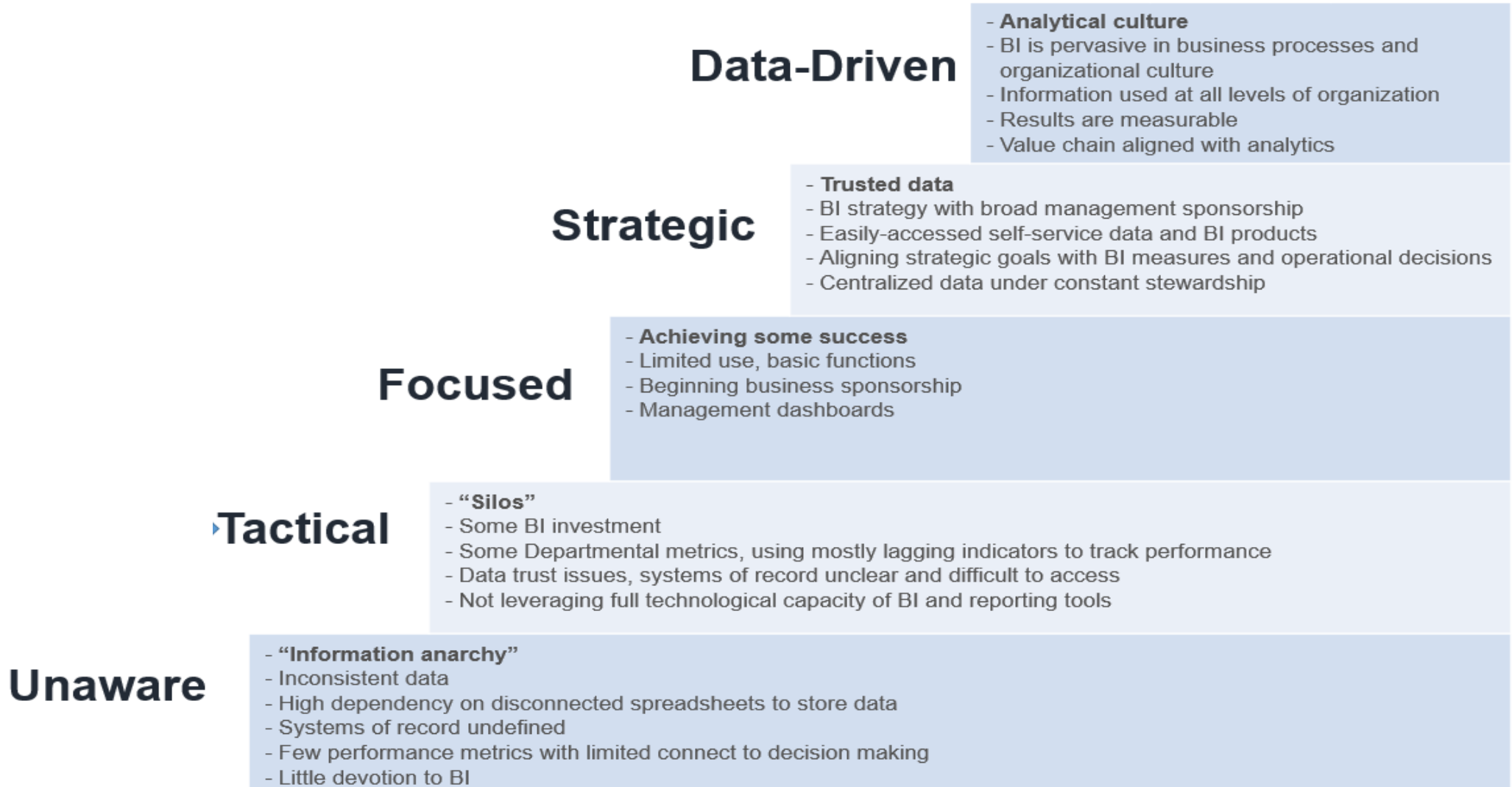
Cost	Description
\$2,000,000	Statewide trip, commercial vehicle, volume estimation, multimodal, and demographics analytics
\$1,100,000	Statewide speed, travel time, congestion, user delay cost, and bottleneck analytics
\$700,000	Statewide connected vehicle applications - commercial vehicle safety, dangerous slowdown, hazard warning, and mass messaging alerts
\$700,000	Geodata and enhanced roadway attribute
\$500,000	Software and data storage enhancements

2020 SRTA Enterprise Data Plan



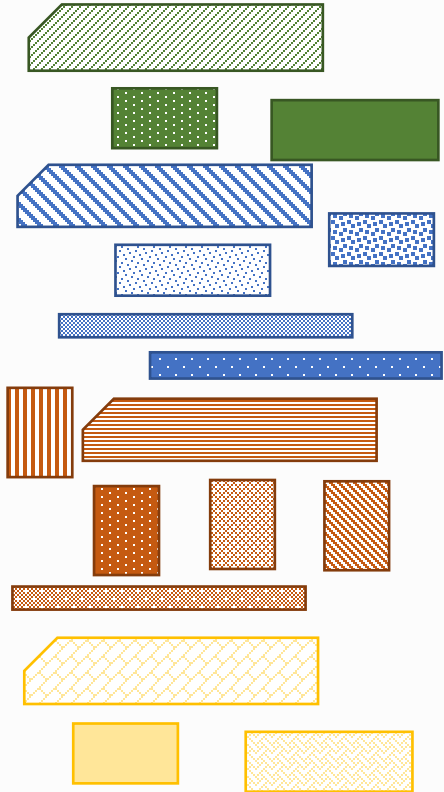
- A 2 to 3-year roadmap with short and long-term initiatives
- Moves from the current “tactical” state of data usage to a mature, “data-driven” future state
- Addresses all facets of data organization and governance, business intelligence (BI) strategy, organization, resources, culture, technology, process, and knowledge management


2020 SRTA Enterprise Data Plan (Steps towards Maturity)



2020 SRTA Enterprise Data Plan (“Tactical” Pre-Condition)

Decentralized Data Siloes by Program Area




Decentralized & Unsocialized Data Governance & Quality Management

Unclear or Duplicative Roles & Responsibilities



Highly Manual Data Blending & Siloed Transformations



Routine Reporting & Ad-Hoc Analytics



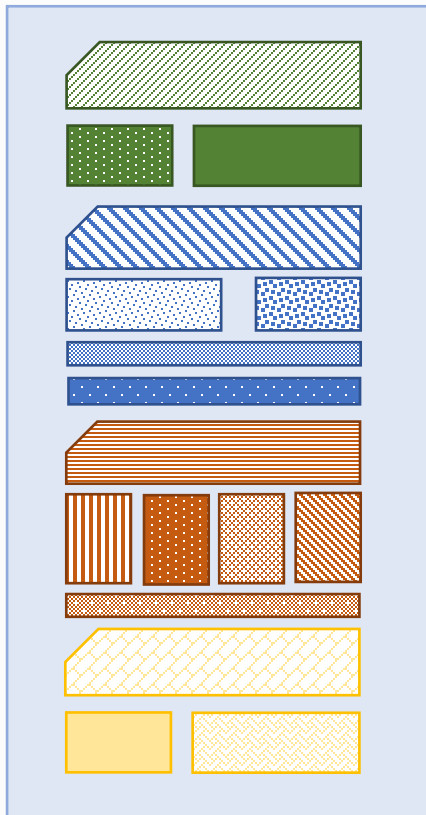
Emerging BI Tools by Program Area

Discrete and High-Level Targets by Program Area



2020 SRTA Enterprise Data Plan (“Focused” Outcome)

**Design and Build a Stable,
Centralized Data Architecture**
(Build the House)

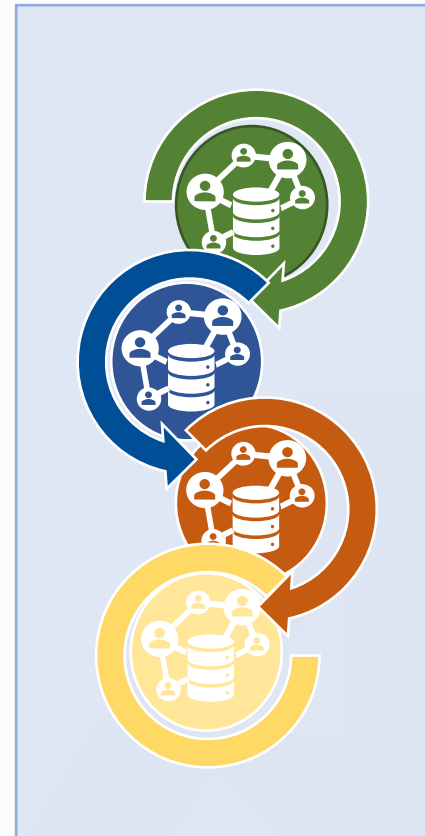


**Clarify and
Socialize Data
Governance &
Data
Stewardship
Roles & SOPs**

*(Cut the
Scramble)*



**Streamline and Automate
Data Processing**
(Tank the Crank)



**Develop a
Comprehensive
Business Intelligence
(BI) Environment and
Enterprise Knowledge
Library to Enable Self-
Service Analytics &
Research across All
Program Areas**

(Open More Gates)

Trending Challenges and Obstacles

- It's never NOT overwhelming
- On-going cataloguing of existing data inventory and future data needs
- Development and implementation of a centralized data hub/platform
- Forecasting direct and in-direct costs (and savings) of all of this, even in the short-term
- Delineating championship roles
- **CV data management**
- **Micromobility data access and real-time trip planning (MaaS/MoD)**

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