Traffic Volume on Non-Federal Aid Roads

Improved Data Collection and Analysis

More Informed Decision Making

Better Targeted Investments

Fewer Fatalities & Serious Injuries
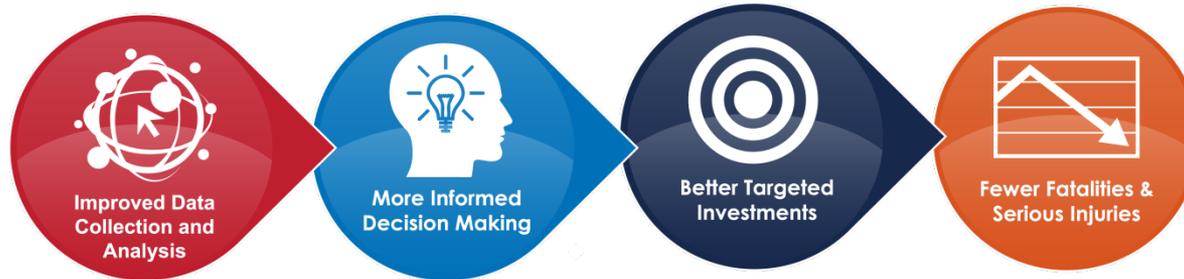
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Fixing America's Surface Transportation Act (FAST Act)

State Safety Data Systems

1. State safety data capabilities required to satisfy the HSIP requirements all public roads

2. The safety data collection, integration, improvement, and analysis activities eligible for HSIP funding

State Safety Data System

All Public Roads → Common Base Map → Crash Data System → [Roadway Data System / Traffic Data System] → Analysis and Evaluation → Highway Safety Improvement Program
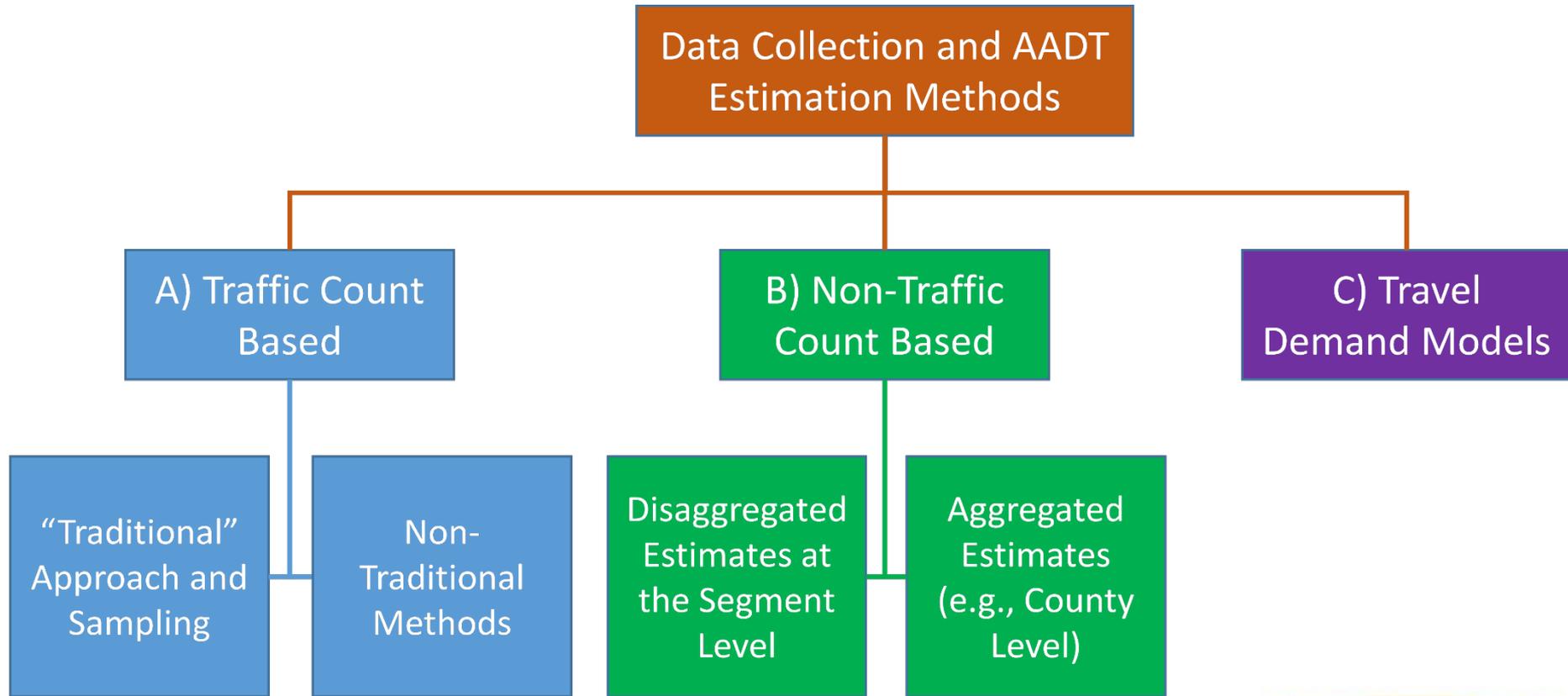
Safety Data

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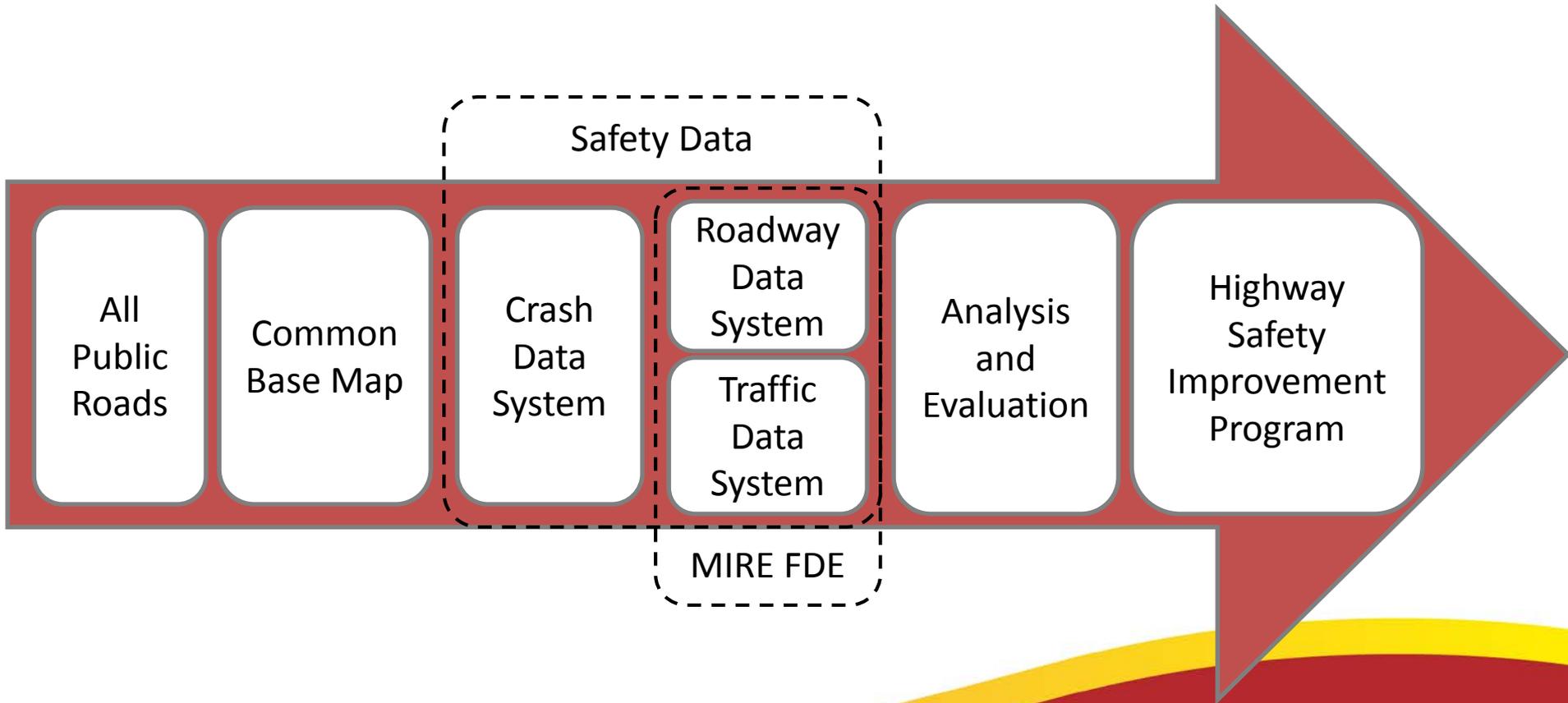
Three Tables

- Non Local Paved Roads
  - AADT
  - AADT Date of collection
- Local Paved Roads
  - AADT
- Unpaved Roads

Project

- **Research**
- **Case Studies**
- **Peer Exchange**
- Guide
  - Pilots
- Technical Assistance

Research – Proposed Scope of Guide

Case Studies

- Delaware Valley RPC
- Southeast Michigan COG
- Virginia State DOT
- New York State DOT

Delaware Valley RPC

- Promotes sharing with other agencies
- Developed interactive mapping application
- Open access to traffic counts
- Minimized duplicate data collection efforts
- Quick and easy access to data

Southeast Michigan COG

- Maintains a centralized database
- Receives traffic counts from Local Agencies
- Conducts validity checks
- Reduced labor costs
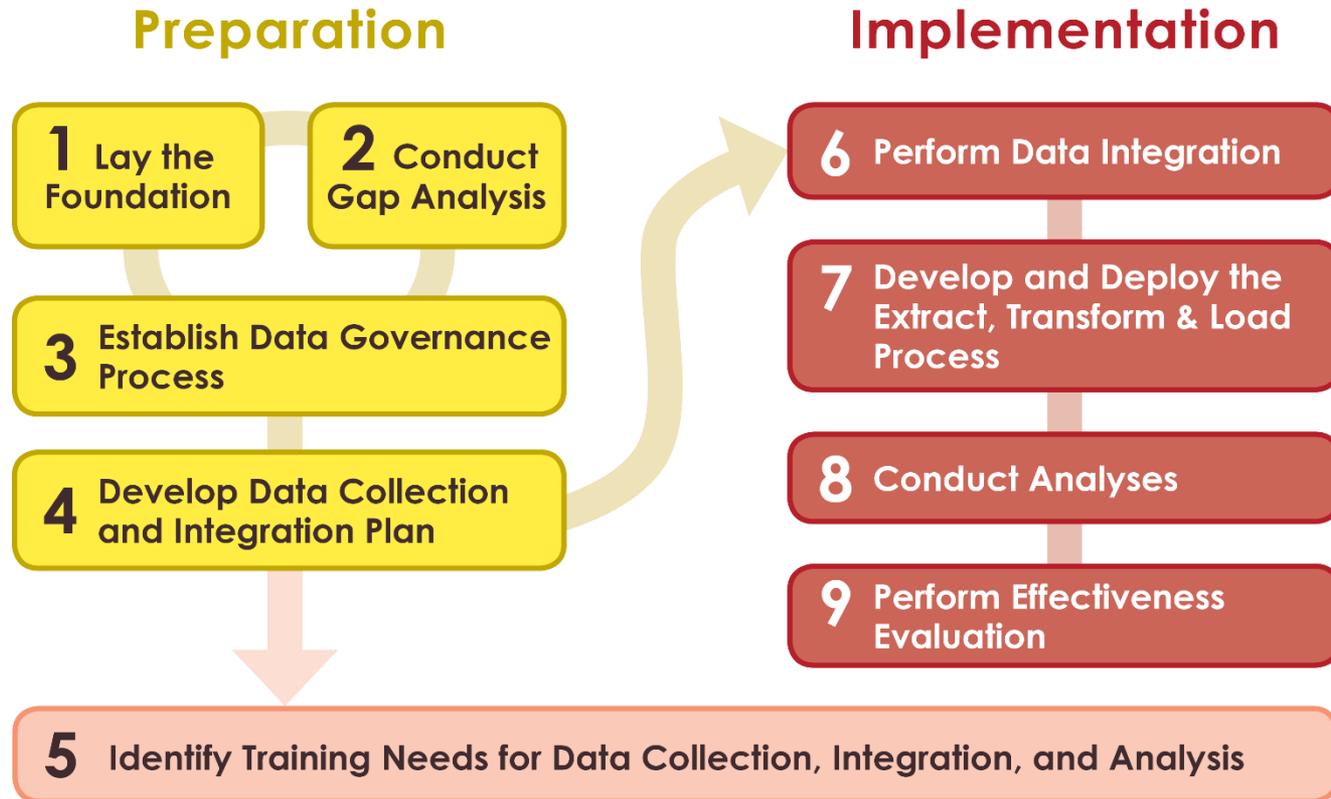- GIS algorithm for computing missing counts

New York State DOT

- Provides counters to Local Agencies
- Equipment and training exchanged for counts
- Reducing duplicate counts
- Additional data and analysis for Local Agencies
- Ten percent of local roads are counted
- Random sampling in selection of count segments

Virginia State DOT

- Trip generation method
- Reduce data collection costs
- Region and district staff use aerials
- Submit estimates to central office
- Continue to promote and improve process

Peer Exchange New Mexico

Preparation

1 Lay the Foundation

2 Conduct Gap Analysis

3 Establish Data Governance Process

4 Develop Data Collection and Integration Plan

5 Identify Training Needs for Data Collection, Integration, and Analysis

Implementation

6 Perform Data Integration

7 Develop and Deploy the Extract, Transform & Load Process

8 Conduct Analyses

9 Perform Effectiveness Evaluation

Next Steps

- Guide
  - Pilots
- Technical Assistance

Contacts

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