

Non-Radioactive Hazardous Materials Route Designation Study

Public Safety Committee

September 26nd, 2016



ntroductions

City of Austin



TRC Environmental Corporation

- ▶ Prime Consultant
 - Environmental Engineering
 - Infrastructure Services



Alliance Transportation Group

- ▶ Sub Consultant
 - Transportation Planning
 - Transportation Engineering
 - Travel Demand Modeling



Outline

1. Project Overview
2. City and Steering Committee Roles and Oversight
3. Project Status
4. Preliminary Risk Analysis Methodology
5. Public Participation
6. Upcoming Events
7. Other Matters of Interest to the Public Safety Committee

Project Overview

Legal Requirements

► Federal

- Requires motor vehicles carrying placarded NRHM to comply with NRHM routing designations (49 C.F.R. §397.67)
- Authorizes any State or Indian tribe to establish an NRHM route
- Provides standards for establishing, maintaining, and enforcing NRHM routing designations (49 C.F.R. §397.71)

► State

- Requires municipalities with a population over 850,000 to designate NRHM routing, subject to approval from TxDOT (7 Texas Transportation Code §644.202)
- Requires municipalities to consider all federal standards and to use the FHWA's "Highway Routing of Hazardous Materials, Guidelines for Applying Criteria" as a guideline for developing route designations (43 Texas Administrative Code §25.103)

Project Overview

Study Purpose

- ▶ To designate a set of NRHM routes for the CoA that *minimize* the potential for incidents involving NRHM transport
- ▶ To *minimize* the consequences to CoA residents should an incident occur
- ▶ In other words... **maximize public safety related to NRHM transport**

Project Overview

Overview of FHWA/TxDOT Process

- ▶ Expected to take 18 months
- ▶ Coordination with TxDOT Operations Division
- ▶ Federal standards require:
 - Enhancement of public safety
 - Public participation
 - Completion of a risk analysis
 - Examination of through highway routing
 - Establishment of reasonable routes to terminals and other facilities
 - Designation of local compliance responsibility

Source: *"Highway Routing of Hazardous Materials, Guidelines for Applying Criteria"*.
Federal Highway Administration (1996)

Project Overview

Key Federal Factors to Consider

Population density

Type of highway

Type and quantity of NRHM

Emergency response capabilities

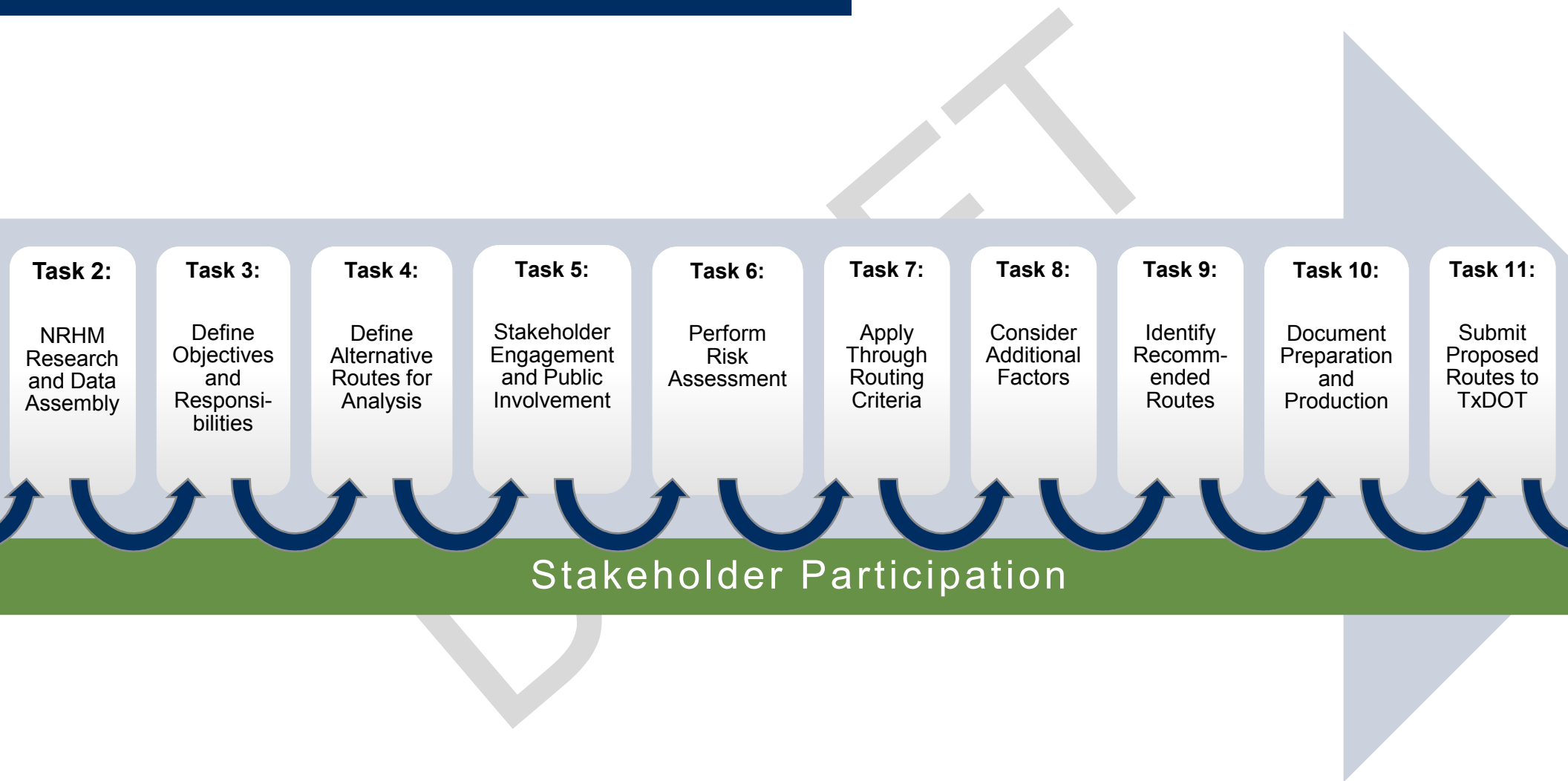
Results of consultation with affected persons

Exposure and other risk factors

- Continuity of routes
- Alternative routes
- Effects on commerce
- Delays in transportation
- Climatic conditions
- Congestion and accident history
- Terrain considerations

Source: *"Highway Routing of Hazardous Materials, Guidelines for Applying Criteria"*.
Federal Highway Administration (1996)

Project Overview



City's Role and Oversight

CoA's responsibilities:

- Conducting an NRHM route designation study
- Assuming all costs associated with the study
- Fully considering Federal standards for route designation and following appropriate guidelines for analysis
- Meeting public involvement requirements
- Submitting proposed route designations to TxDOT for approval
- Adopting approved routes through ordinance
- Implementing NRHM route signage plan
- Enforcing compliance

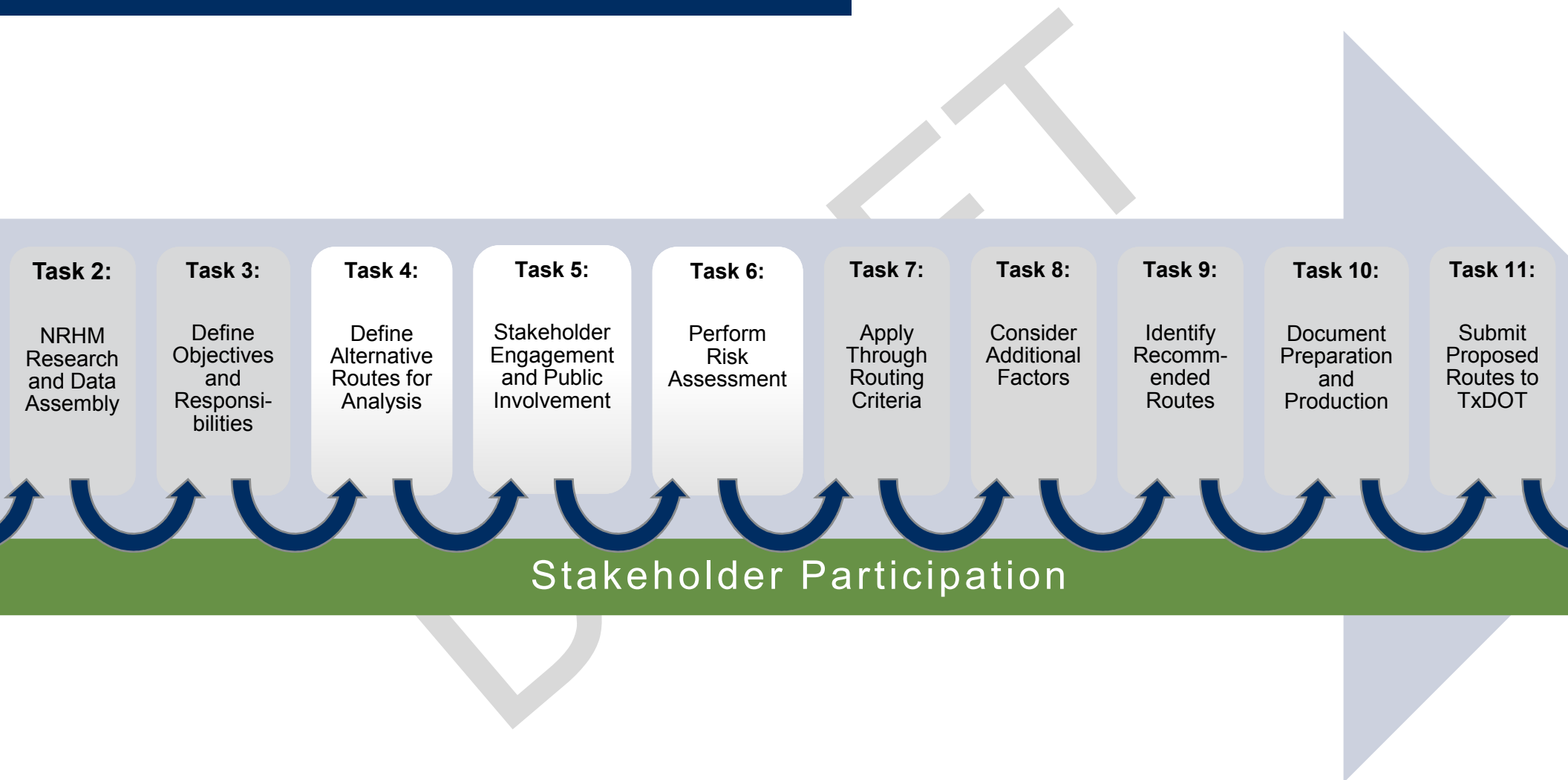


Steering Committee's Role and Oversight

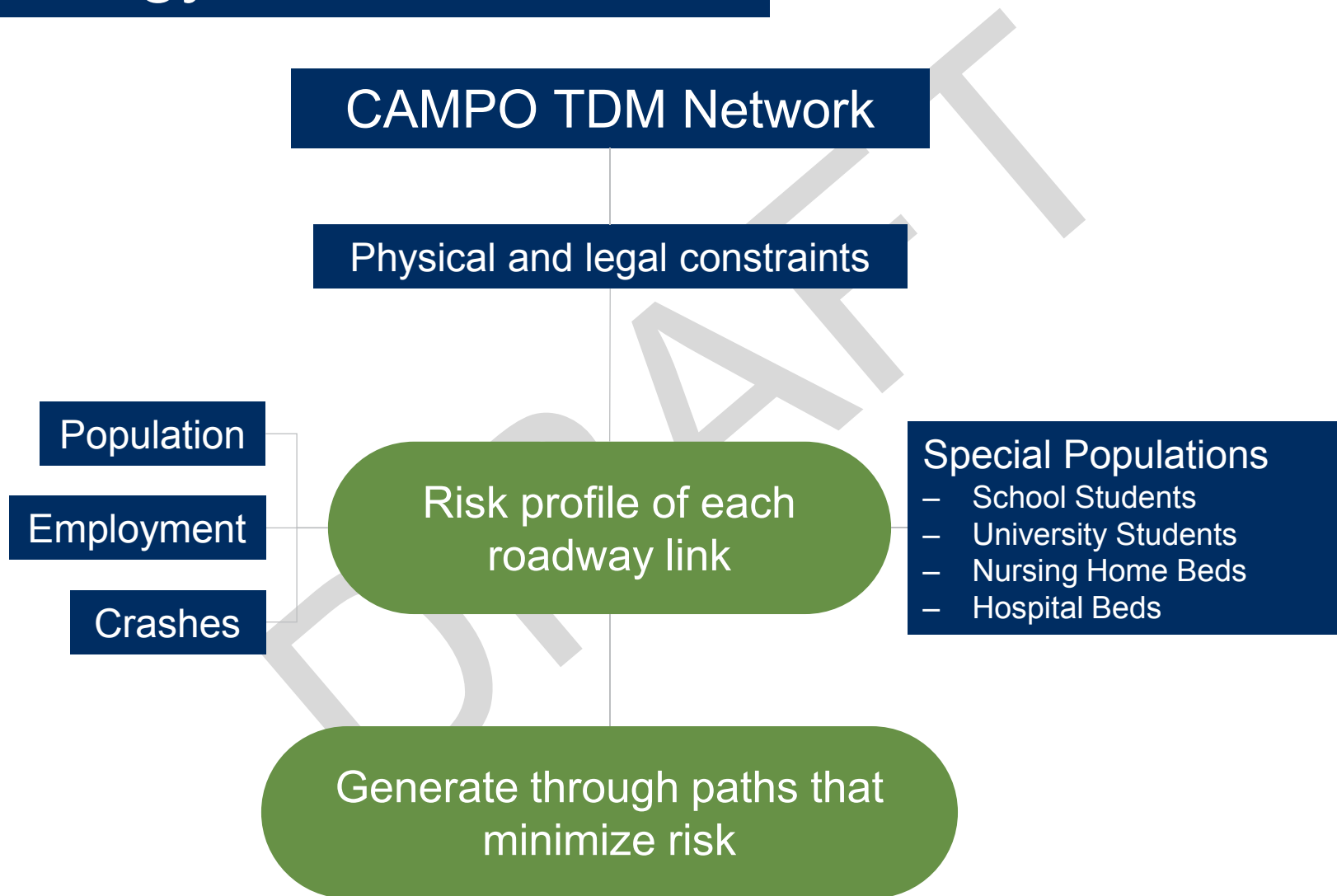
Steering Committee's project role:

- Helping determine project goals and objectives
- Identifying key stakeholders and setting Stakeholder Working Group membership
- Reviewing and guiding risk analysis process
- Guiding project information presentation to the public
- Providing guidance and support to the project team to:
 - Facilitate execution of the scope
 - Maintain the schedule
 - Achieve overall project objectives

Project Status

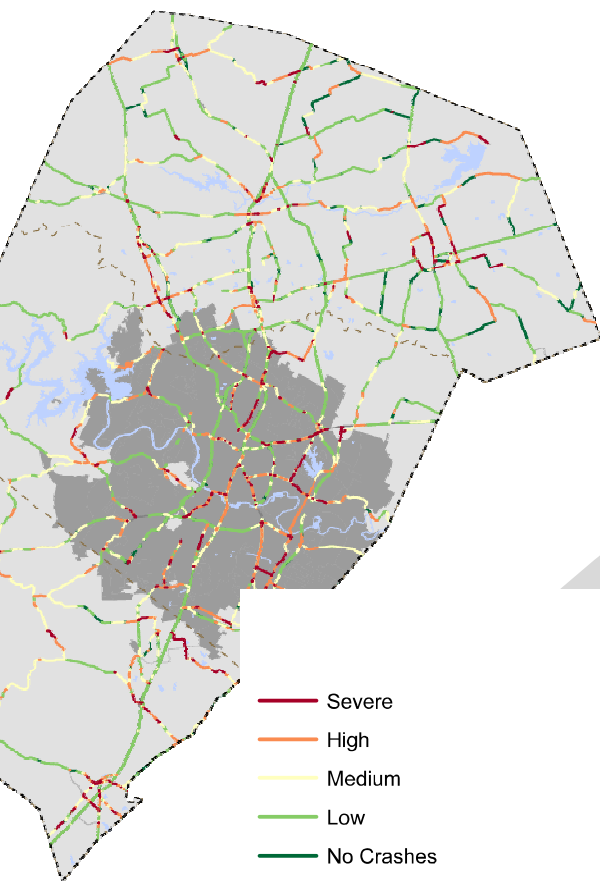


Preliminary Risk Analysis - Methodology



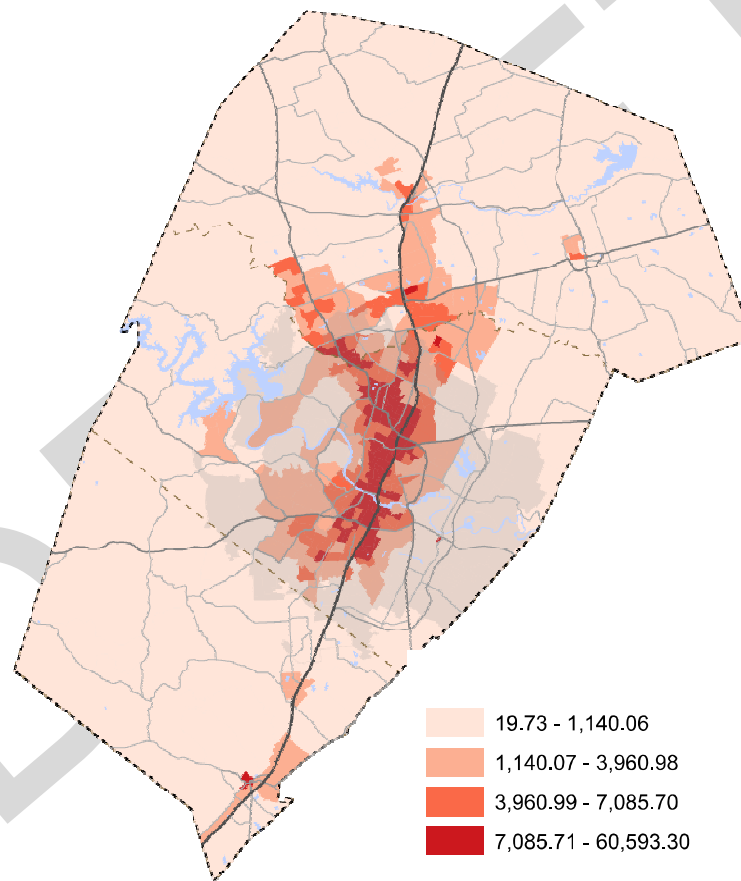
Risk Analysis Inputs

Crash Rate



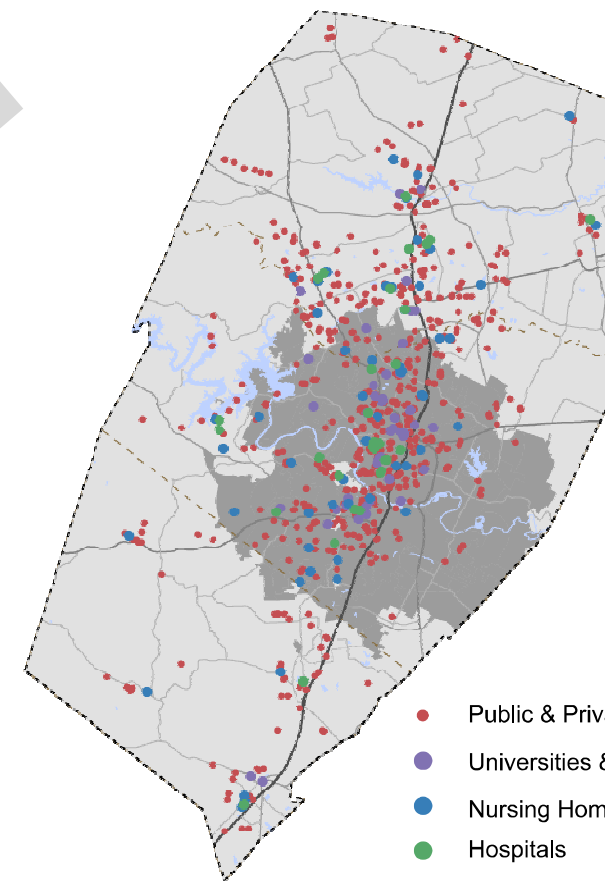
Source: TXDOT CRIS, 2012-2016

Population + Jobs per Sq. Mile



Source: ATG 2015 Population Estimates; LEHD LODS, 2014

Special Populations

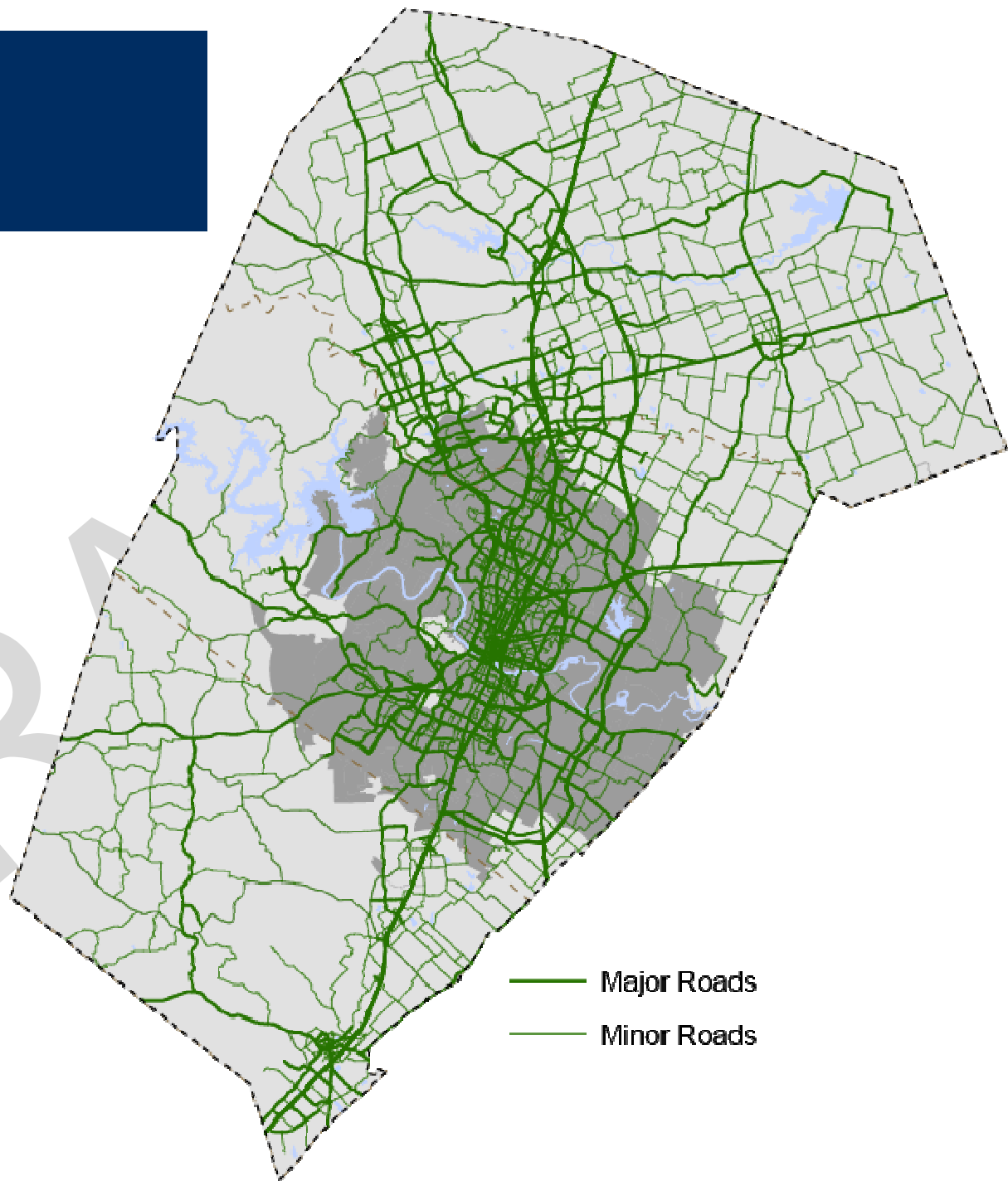


Source: TEA, TEPSAC 2015 Directories; Texas DSHS License Directory, 2015; IPEDS 2015; Medicare.gov Nursing Home Data, 2015

Candidate Routes

Network

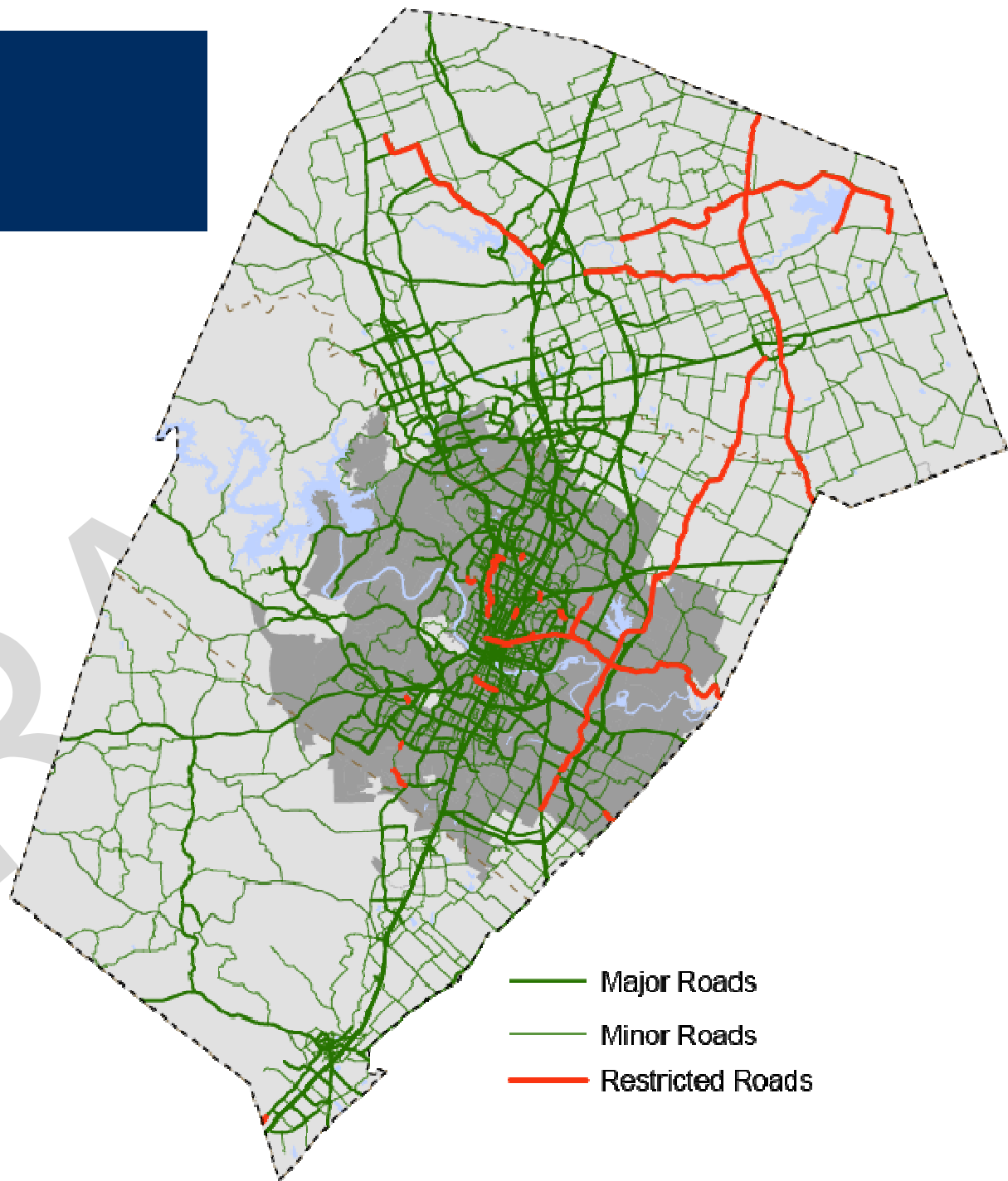
- Base network: CAMPO TDM Network
- Candidate network: Base network minus stakeholder flagged roads and roads prohibited to trucks



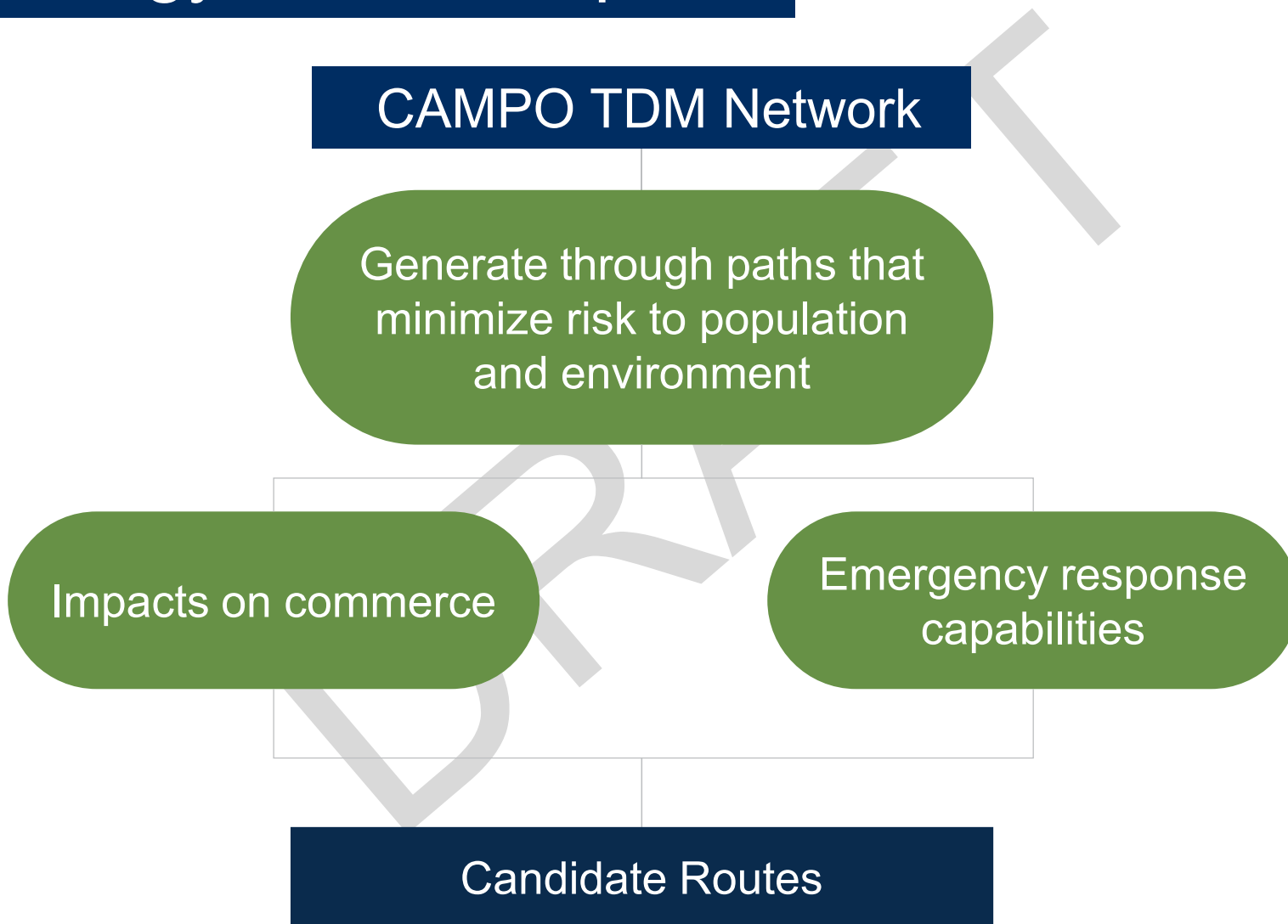
Candidate Routes

Network

- Base network: CAMPO TDM Network
- Candidate network: Base network minus stakeholder flagged roads and roads prohibited to trucks



Route Designation Methodology – Next Steps



Public Participation

Public's Role

- ▶ Attend public meetings and open houses
- ▶ Provide comments and feedback in person and online

Stakeholder Working Group's Role

- ▶ Quarterly project update meetings
- ▶ Review and give feedback on project materials as needed
- ▶ Identify and communicate with other stakeholders
- ▶ Identify NRHM shipping/receiving locations
- ▶ Identify and recommend NRHM routes

Upcoming Events

Stakeholder Working Group Meetings

Meeting 1:	May 2016
Meeting 2:	August 2016
Meeting 3:	November 2016
Meeting 4:	February 2017
Meeting 5:	May 2017
Meeting 6:	August 2017

► Public Meetings

Meeting 1:	October 18 th , 2016
Meeting 2:	January 2017
Meeting 3:	June 2017

► TxDOT Public Hearing

August 2017

► Online Public Forum

Spring 2017

Public Meeting #1

Event Information

- Style: Open House
- Date: Tuesday, October 18th, 2016
- Time: 6 – 8 PM
- Location: Ruiz Public Library – Room #2



Event Format and Materials

- Informative project boards
 - Attendees can discuss project board subject matter with project team members
- Attendees will have the opportunity to provide interactive feedback on:
 - Factors to consider when performing risk analysis
 - Preliminary candidate route network
 - Other areas of concern in the city

Other Matters of Interest
to the PSC

Questions or Comments?

Non-Radioactive Hazardous Materials Route Designation Study

Public Safety Committee

Thank You for Participating!

