# City of Austin Construction Mobility Plan (CMP)

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# Speaker Bios

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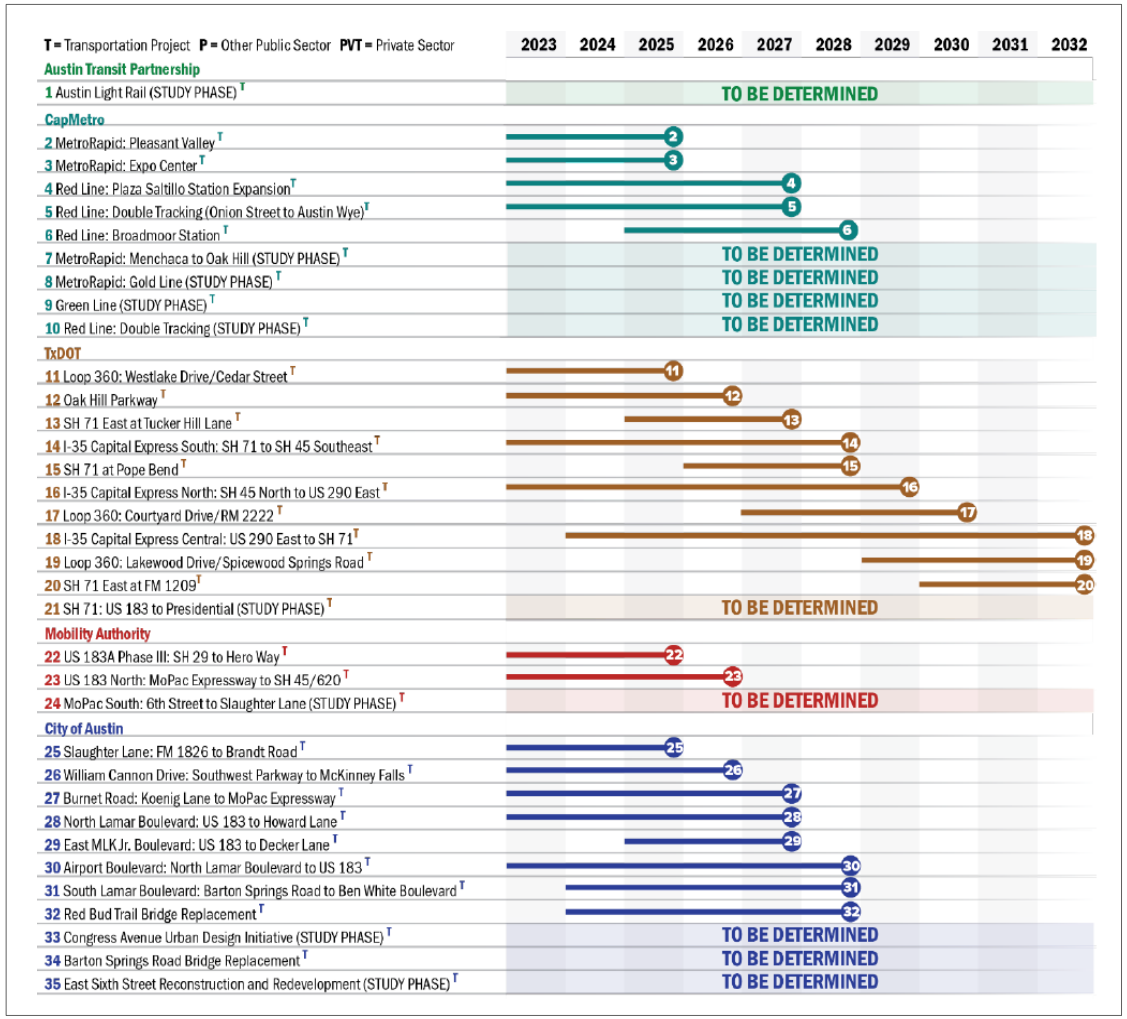
# Construction Conundrum

## Decade of major construction ahead

- I-35 Expansion
- 183 Toll Lanes
- Mopac Improvements
- 360 Loop Intersection Upgrade

## Large multimodal construction programs

- Light Rail
- Mobility Bond Projects
- ATP Projects on Arterials

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# Project Purpose

## Purpose:

To develop a **10–15-year construction strategy** for managing construction impacts (particularly on City streets) from large scale construction projects such as IH35, Project Connect and other large capital work.

## Objective:

To **mitigate/resolve permitting conflicts**, ensure mobility for traveling public, raise awareness of pain points to the private/development community, communicate w/transparency to build trust and manage the community's expectations.

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# Two Key Components

Construction Mobility Plan (CMP)

Construction Coordination Group (CCG)

The CMP is meant to help found and establish the CCO

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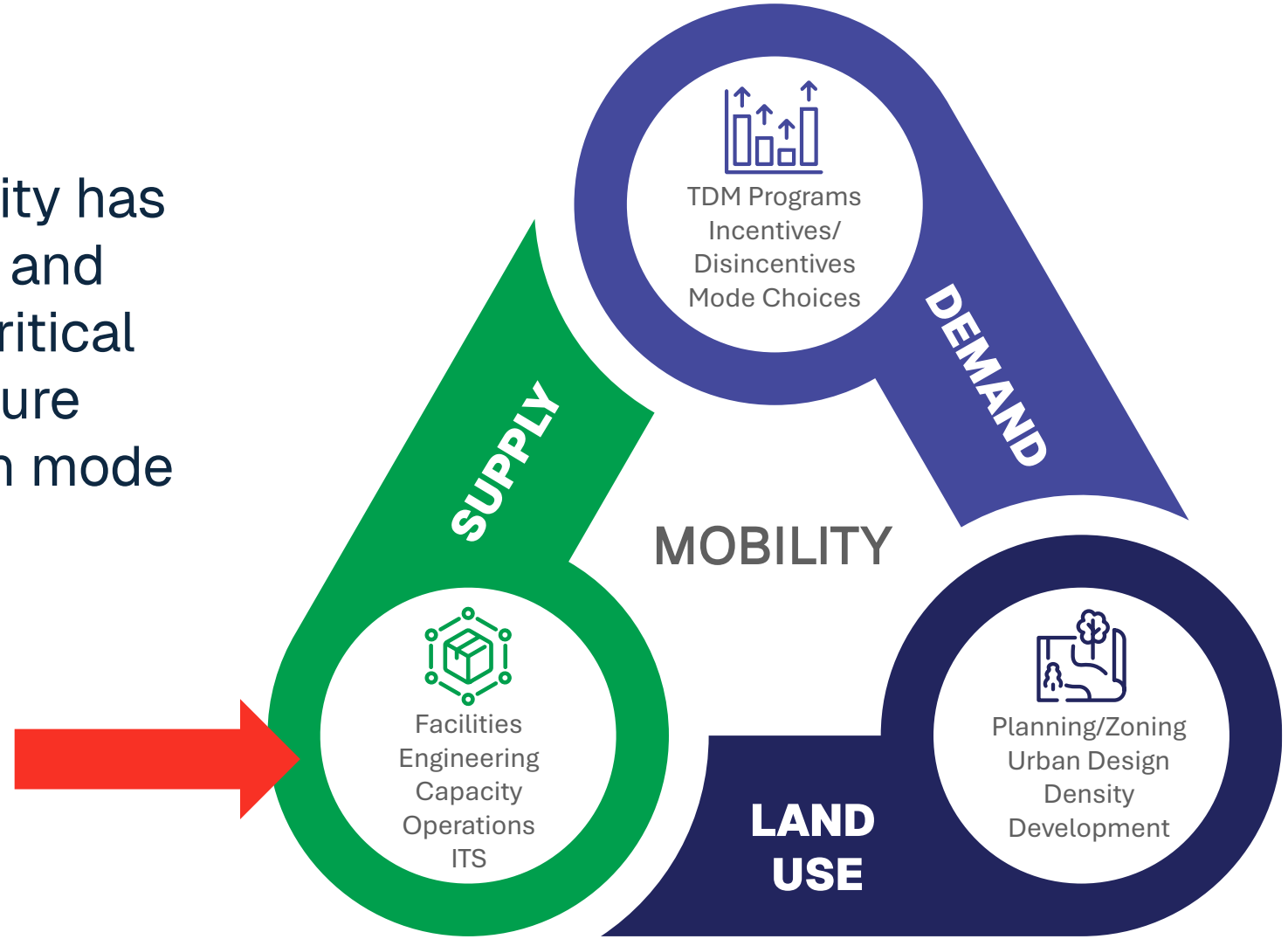
# “Supply Side” of Transportation Management

## GOAL:

Work to ensure the City has the awareness, tools, and future staff to keep critical amount of infrastructure ‘supply’ open for each mode

**CMP is the plan to manage this during all the construction coming via future CCG**

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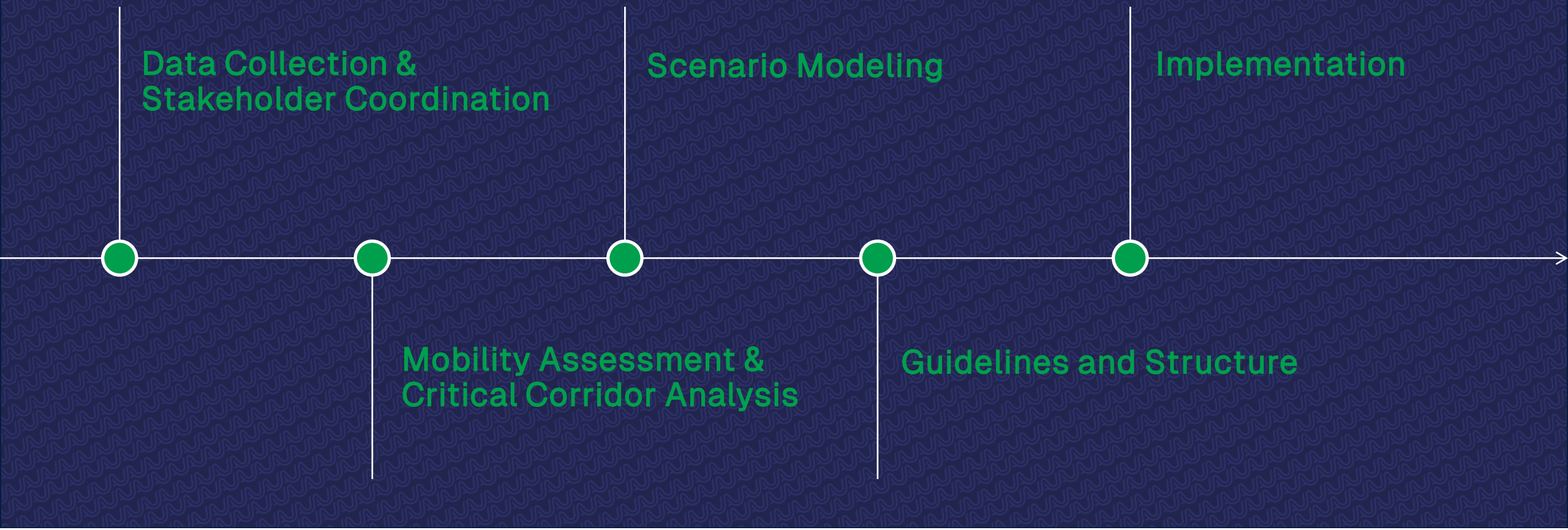
# Project Overview

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# Data Collection & Stakeholder Coordination

## Key Stakeholders

- TxDOT
- Central Texas Construction Partnership Program
- CapMetro
- Other City Departments

## CCG Needs/Functions

- Additional tools and data to support City ROW Permitting & Operations
- Procedures to coordinate City departments
- Integration into MMC and real-time operations for City ROW

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# Mobility Assessment & Critical Corridors

## Identify Critical Corridors

Identify priority City roadways that are critical to mobility and access

## Measure Performance

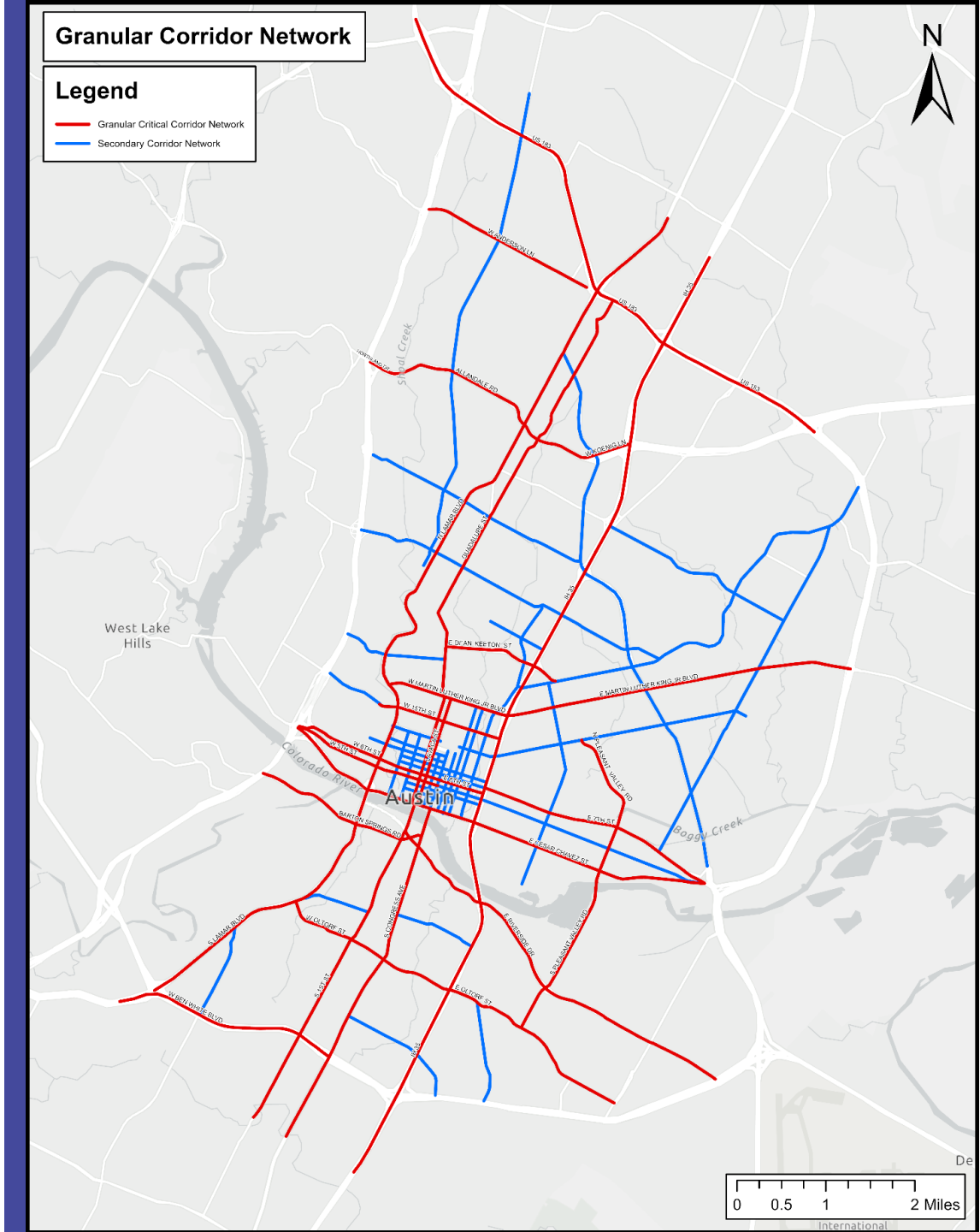
Measure the current performance of these critical locations and assess potential construction and permitting scenario impacts on these locations

## Clarify Rules & Guidelines

Clarify rules and guidelines around permitting on these corridors based on this planning process

## Update Procedures

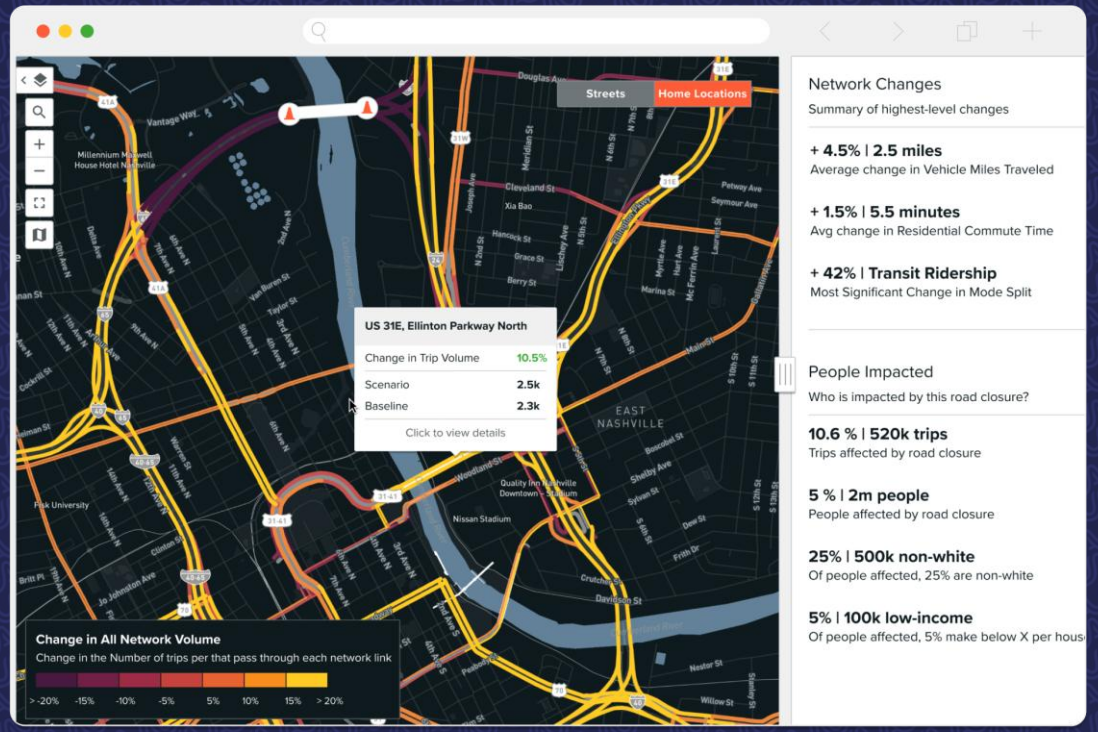
Update rules and guidelines based on real world experiences of future CCO



# The Analysis Problem

## So Many Scenarios + Lack of Specificity

- Large list of construction projects with uncertainty around construction timelines and no TCPs
- Long list of corridors of concern / critical corridors
- Travel Demand Model not sensitive to changes on many of the roadway types in the study area
- Microsimulation of all the possible scenario iterations would be costly, time intensive and resource intensive




**SOLUTION:** Replica Road Closure Tool

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# What are the construction scenarios?

- **Late 2025-2026: Short-Term Construction Mobility Outlook**
  - 1 – Short-Term Basis
  - 1a - Weekend Event Impacts
  - 1b - Intensified Construction on North-South Arterials
  - 1c – Developer-Requested Closure Impacts
  - 1d - East-West Connectivity Constraints
- **Late 2027-2029: Mid-Term Construction Mobility Outlook**
  - 2 – Mid-Term Basis
  - 2a - Weekend Event Impacts
  - 2b - Intensified Construction on North-South Arterials
  - 2c – Developer-Requested Closure Impacts
  - 2d - East-West Connectivity Constraints
- **2030 and beyond: Long-Term Construction Mobility Outlook**

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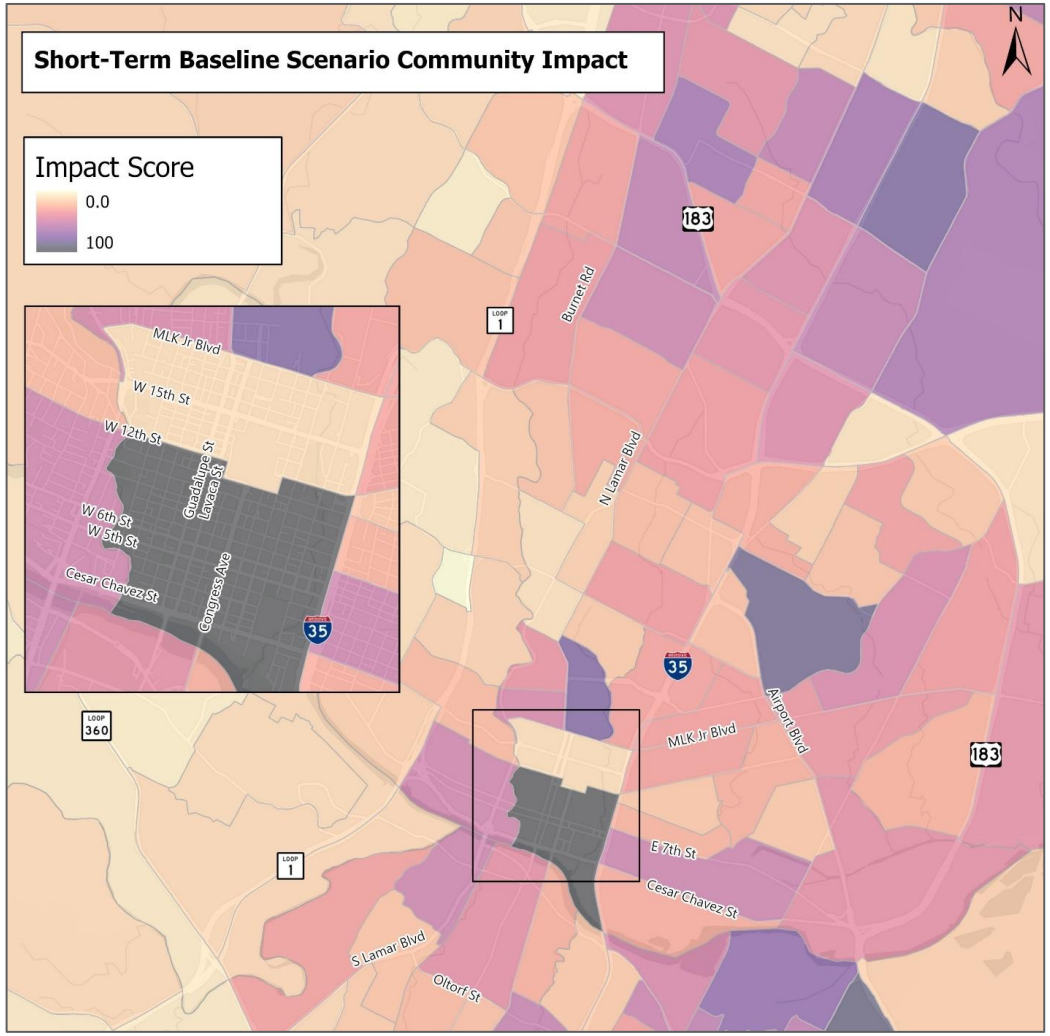
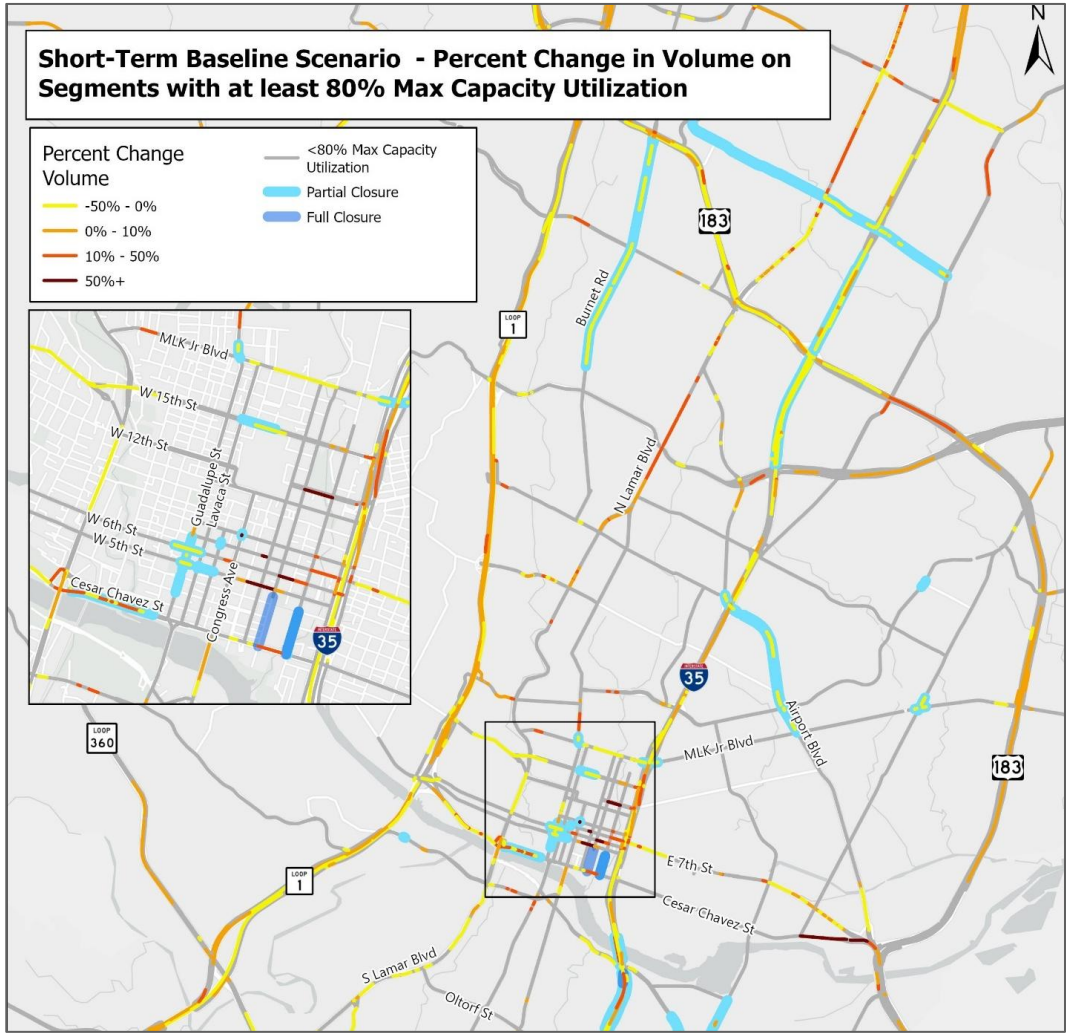
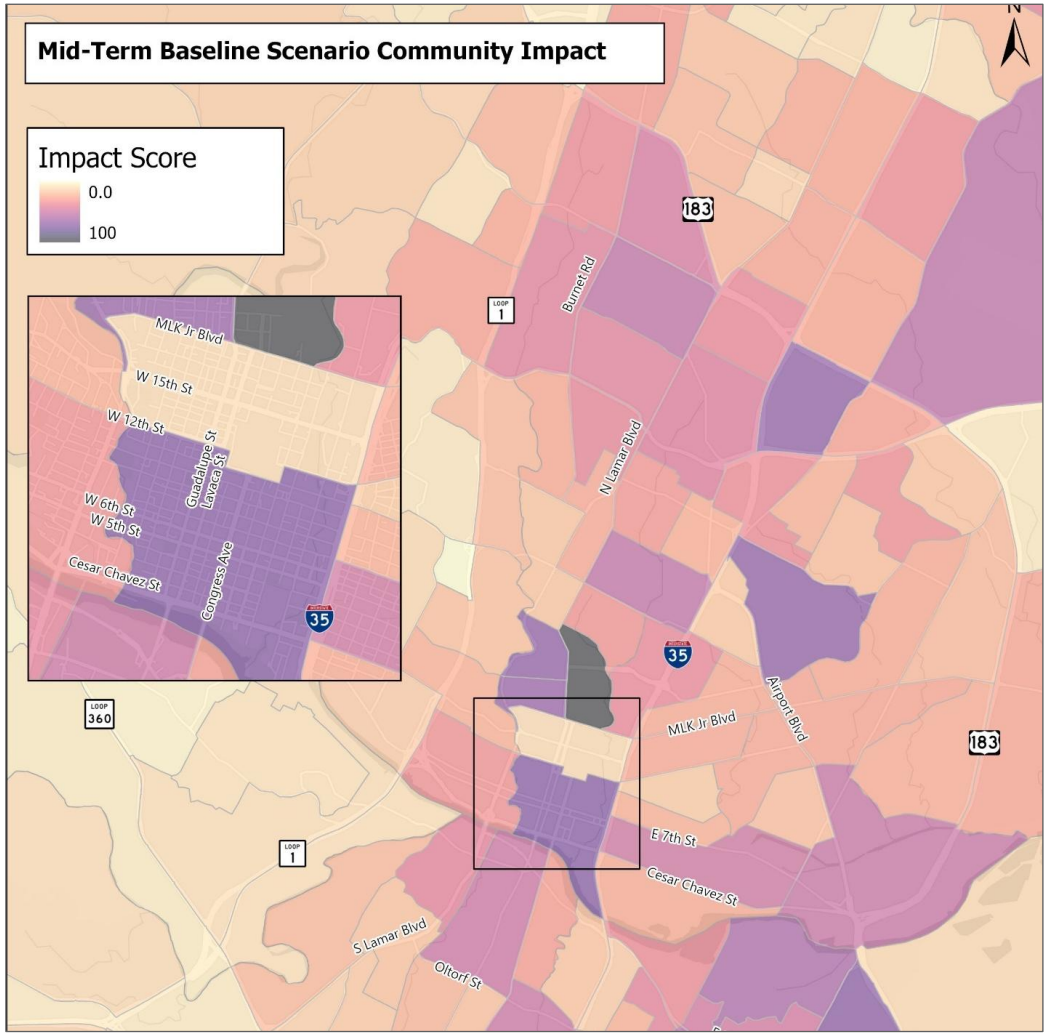
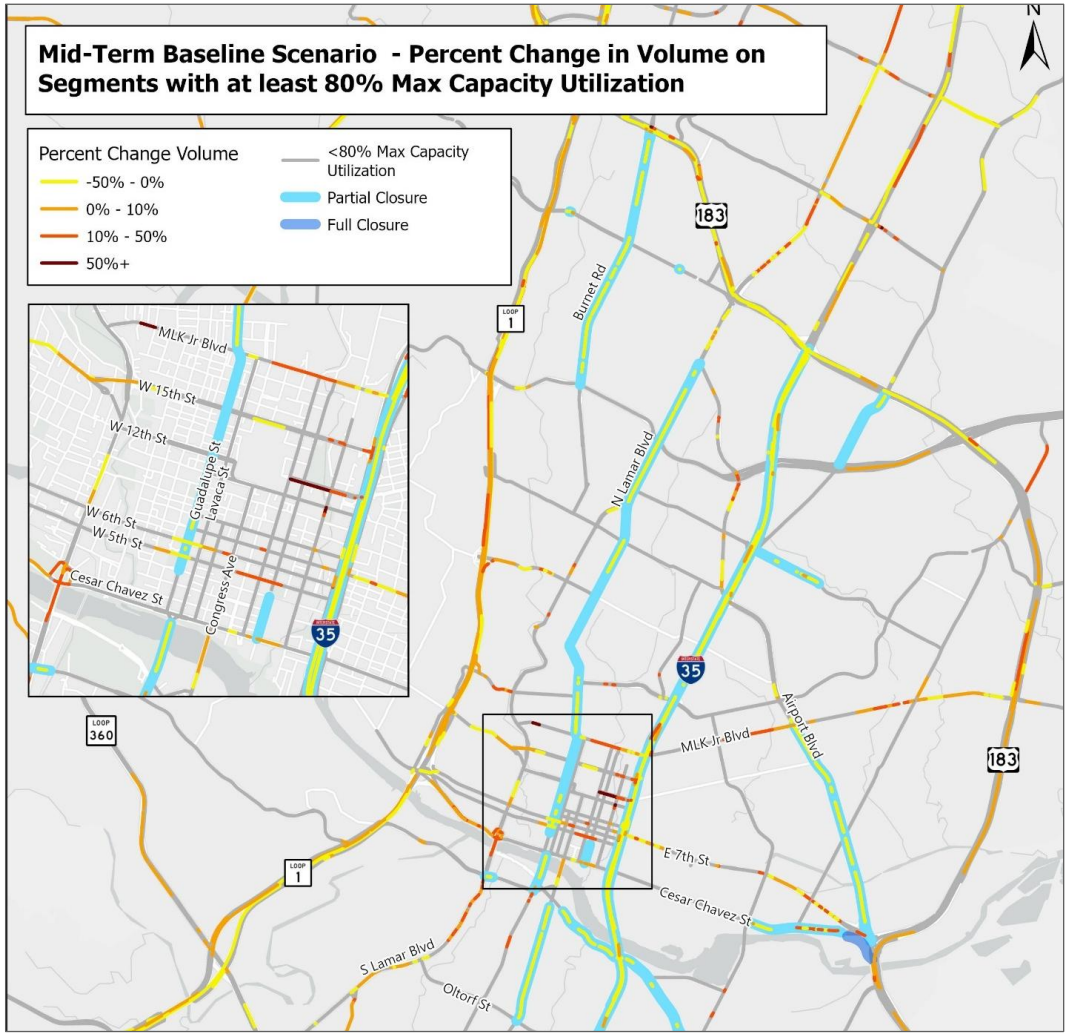
# Scenario 1: Short Term



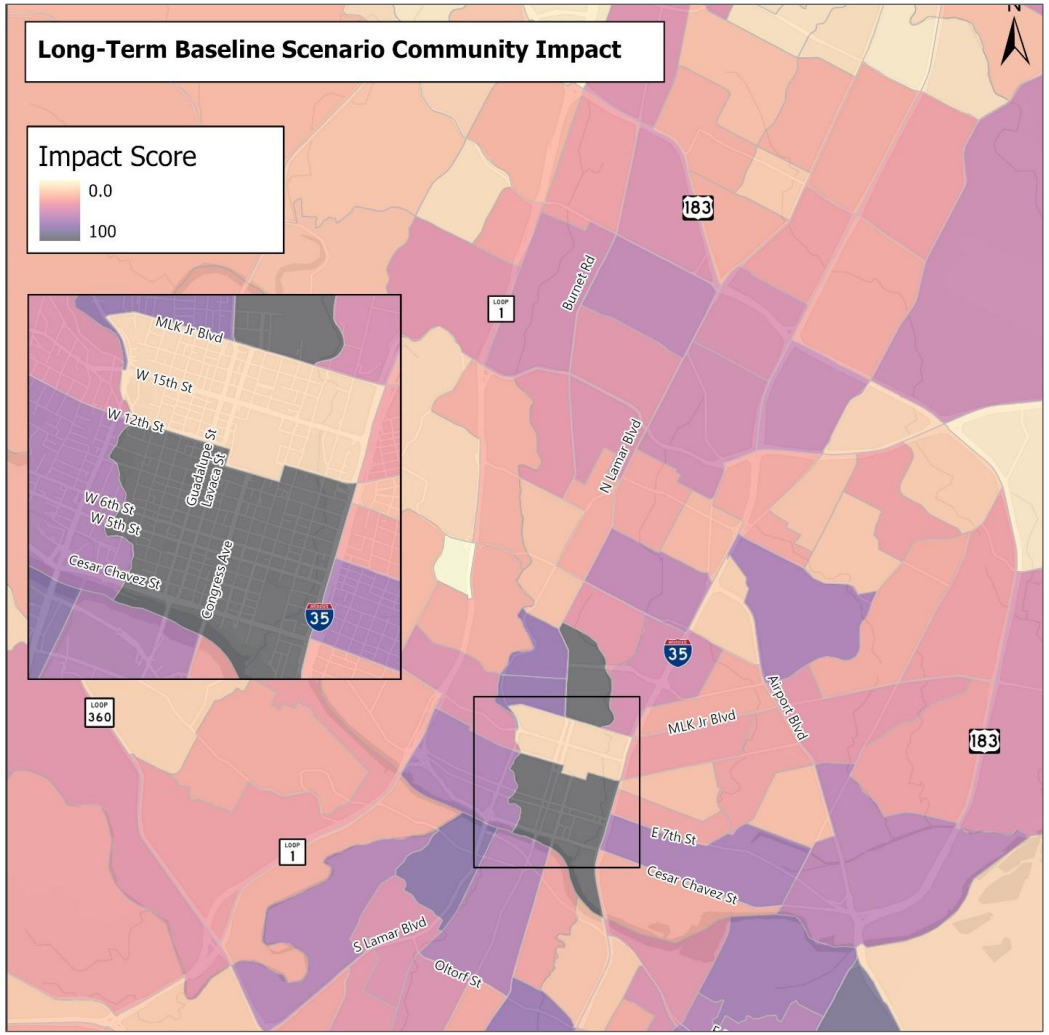



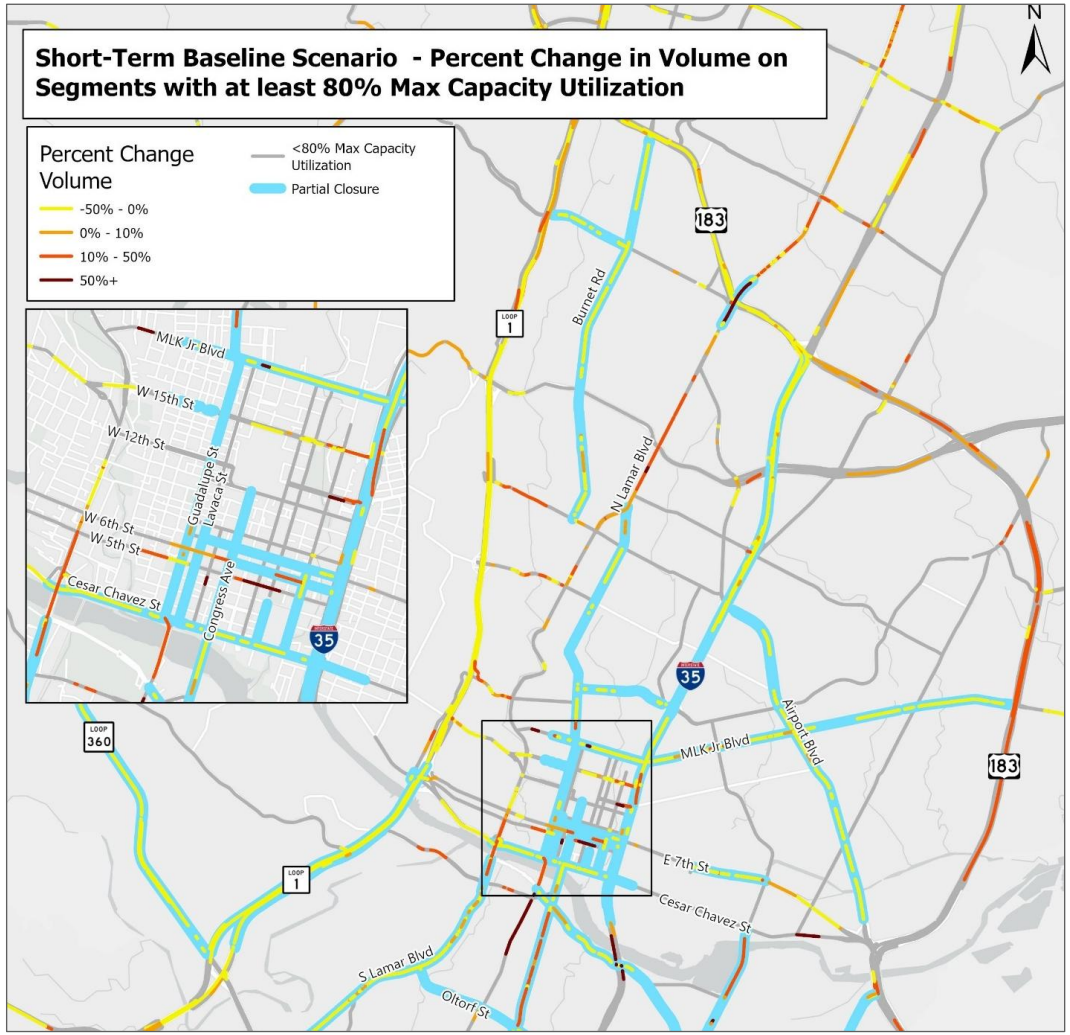
# Scenario 2: Mid-Term



# Scenario 3: Long Term

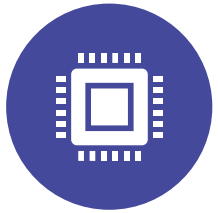


# Structural Recommendations

**Planning** – forecast conflicts several months out

**Operations** – review closure and detours several weeks out



**RealTime** – monitoring, communications and active operational management

**Assessment** – planned versus actual impacts

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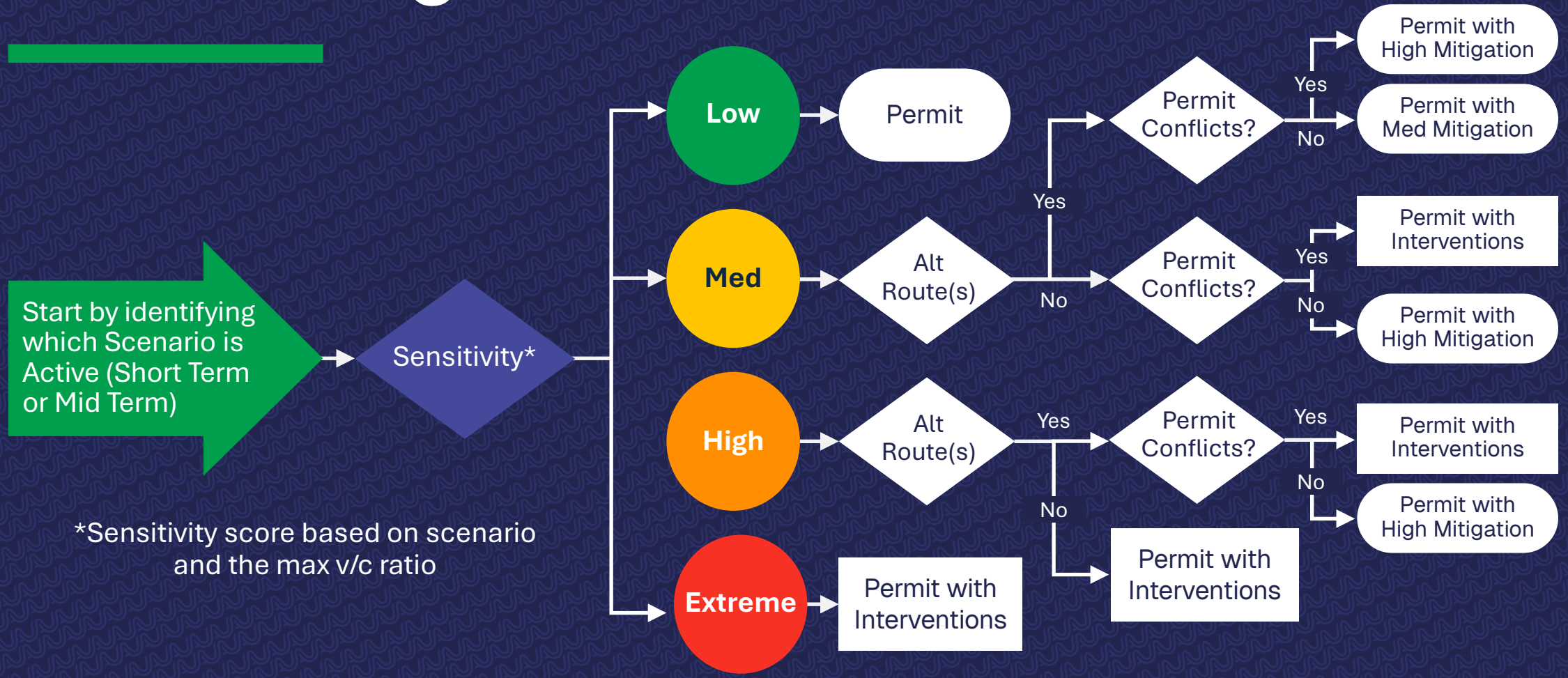
# Permitting Recommendations




*Sensitivity score based on scenario and the max v/c ratio

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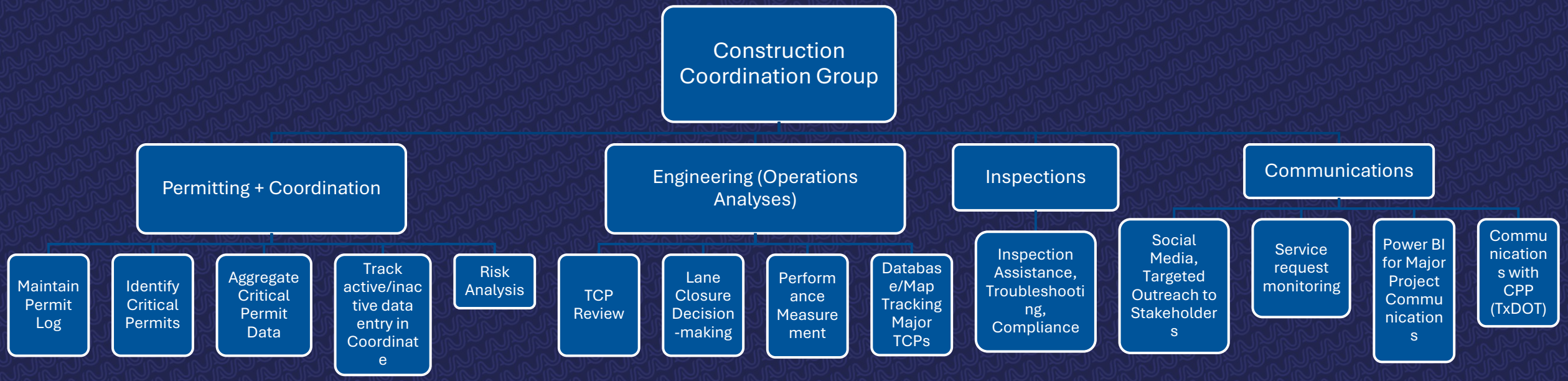
# Construction Coordination Group

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# Conclusions

- CCG to serve as the central hub: aligning permitting m engineering, inspections and communications
- Engineering judgement and experience remains essential to final decisions
- Coordination was critical
- High level of concern + lack of specificity: use simplified scenario-based planning level tools to “raise the flag”
- Despite our tools, engineering / planning instinct and experience was critical

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