

Agenda Overview

- ***AQAP Participation Framework***
- Compendium of Existing/ Proposed Near-Term Air Quality Improvement Strategies
Scott Broten, ICF International
- **I-710 Construction Staging Concept**
Jerry Wood, Gateway Cities
- **I-710 Health Impact Assessment (HIA)**
Jonathan Heller, Human Impact Partners (HIP)
- Roundtable Discussion
- Environmental Committee
- Wrap-up and Next Steps

Factors Responsible For Population Health



Health status is determined by: genetics (20 – 30%); health care (10%); social, environmental conditions, and behavior (60 – 70%). Health Affairs, 2002

HIA Definition

Health Impact Assessment:

A combination of procedures, methods and tools that systematically judges the potential, and sometimes unintended, effects of a policy, plan, program or project on the health of a population and the distribution of those effects within the population. HIA identifies appropriate actions to manage those effects.

Steps of an HIA

Screening	Determines the need and value of a HIA
Scoping	Determines which health impacts to evaluate, methods for analysis, and a work plan
Assessment	Provides: 1) a profile of existing health conditions 2) evaluation of potential health impacts
Recommendations	Provide strategies to manage identified adverse health impacts
Reporting	Includes: 1) development of the HIA report 2) communication of findings & recommendations
Monitoring	Tracks: 1) impacts on decision-making processes and the decision 2) impacts of the decision on health determinants

Step 2: Scoping

Objective:

To create a plan and timeline for conducting an HIA for I-710 that defines priority issues, research questions and methods, and participant roles.

Scope Components

- Goals
- Health determinants that will be impacted
- Vulnerable populations that will be impacted
- Timelines
- Pathway diagrams
- Research questions
- Preliminary methods

I-710 HIA Goals

1. Provide I-710 decision-makers and other stakeholders with positive and negative health effects, findings and recommendations for alternatives being considered
2. Increase stakeholder participation and understanding of the I-710 project
3. Identify community health concerns/issues within Gateway Cities whose solutions may be unrelated to the I-710 project
4. Provide a model for future transportation and infrastructure HIAs (including evidence and utility of doing an HIA)
5. *Add value to the I-710 related analysis while utilizing the I-710 EIR/EIS technical data to the greatest extent possible to reduce redundancy.

** Note: Revised based on discussion of I-710 HIA Technical Working Group at its July 11th Meeting.*

Health Determinants

Selected by the HIA TWG:

- Air quality
- Noise
- Mobility
- Traffic safety
- Jobs and economic development
- Access to neighborhood resources
(parks, food, healthcare, etc.)

Others Considered but not selected:

- Housing
- Education
- Neighborhood safety
- Social cohesion
- Water quality
- Disease Vectors
- Poverty
- Racism
- Segregation
- Inequality
- Political Participation

I-710 HIA Overarching Parameters

Alternatives to be considered:

- Alternative 1 (no build)
- Alternative 5A (10 lanes)
- Alternative 6A (5A + 4 lane freight corridor)
- Alternative 6B (6A + zero emissions)
- Potentially Alternatives 6C and/or 6D (6B + tolling)

Time boundaries:

- Consider 2035 impacts only (other analysis covering construction impacts)

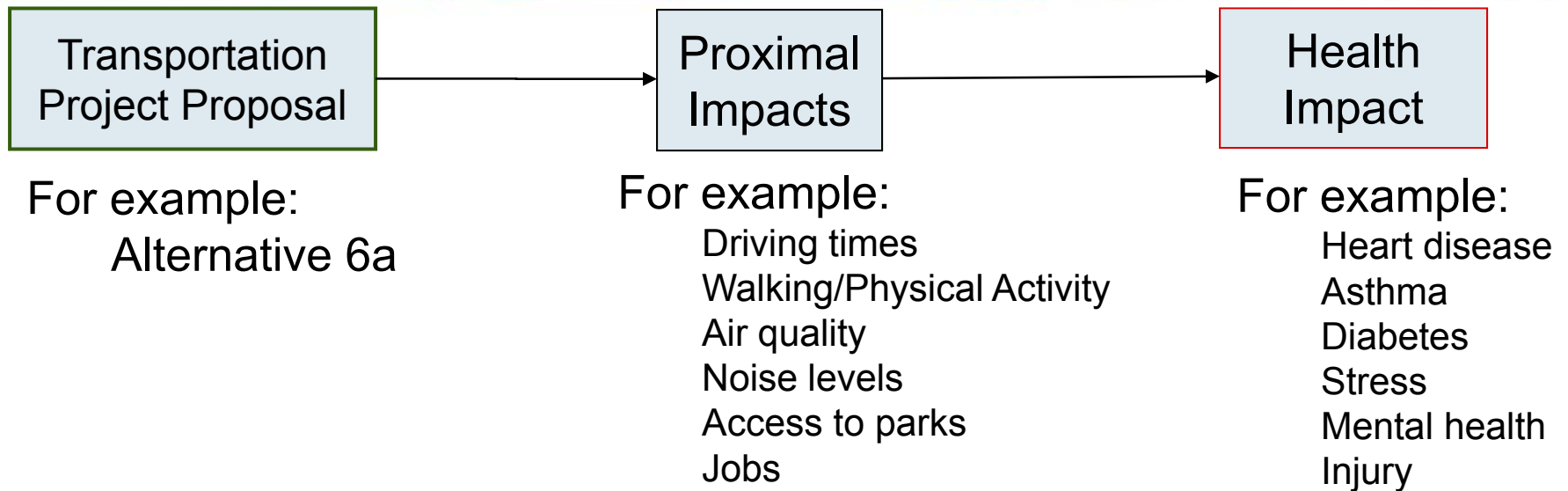
Geographic boundaries:

- Vary by issue area (e.g., AQ vs noise vs jobs)

In addition to the general population, the following vulnerable populations will be considered:

- Age (0-5; 6-17; 65+)
- Race/ethnicity (African American; Hispanic; non-English speakers)
- Income (poverty; 200% of poverty)
- Pre-existing conditions (asthma; cardiovascular disease; diabetes)

Health Pathways



Scoping: Develop these pathways as hypotheses; from them, develop research questions and ways to measure answers (indicators)

Assessment: Use I-710 information and examine literature to confirm or refute links in pathways; find data to measure existing conditions for each indicator; predict changes to indicators for project alternatives

Overarching Scoping Parameters

EIR has all necessary data

EIR has most necessary data

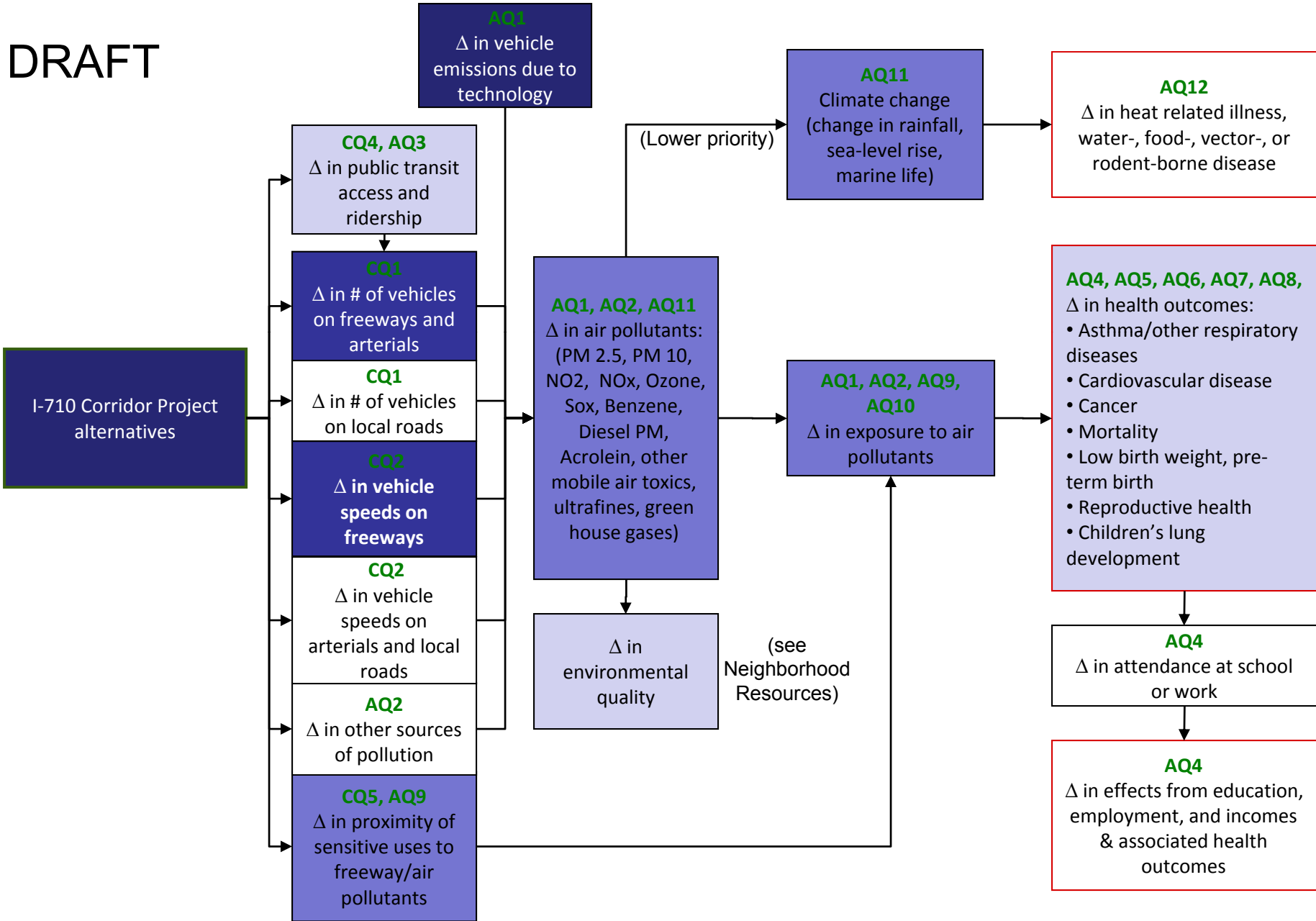
EIR has some necessary data

EIR does not have necessary data

TBD: Additional data request necessary

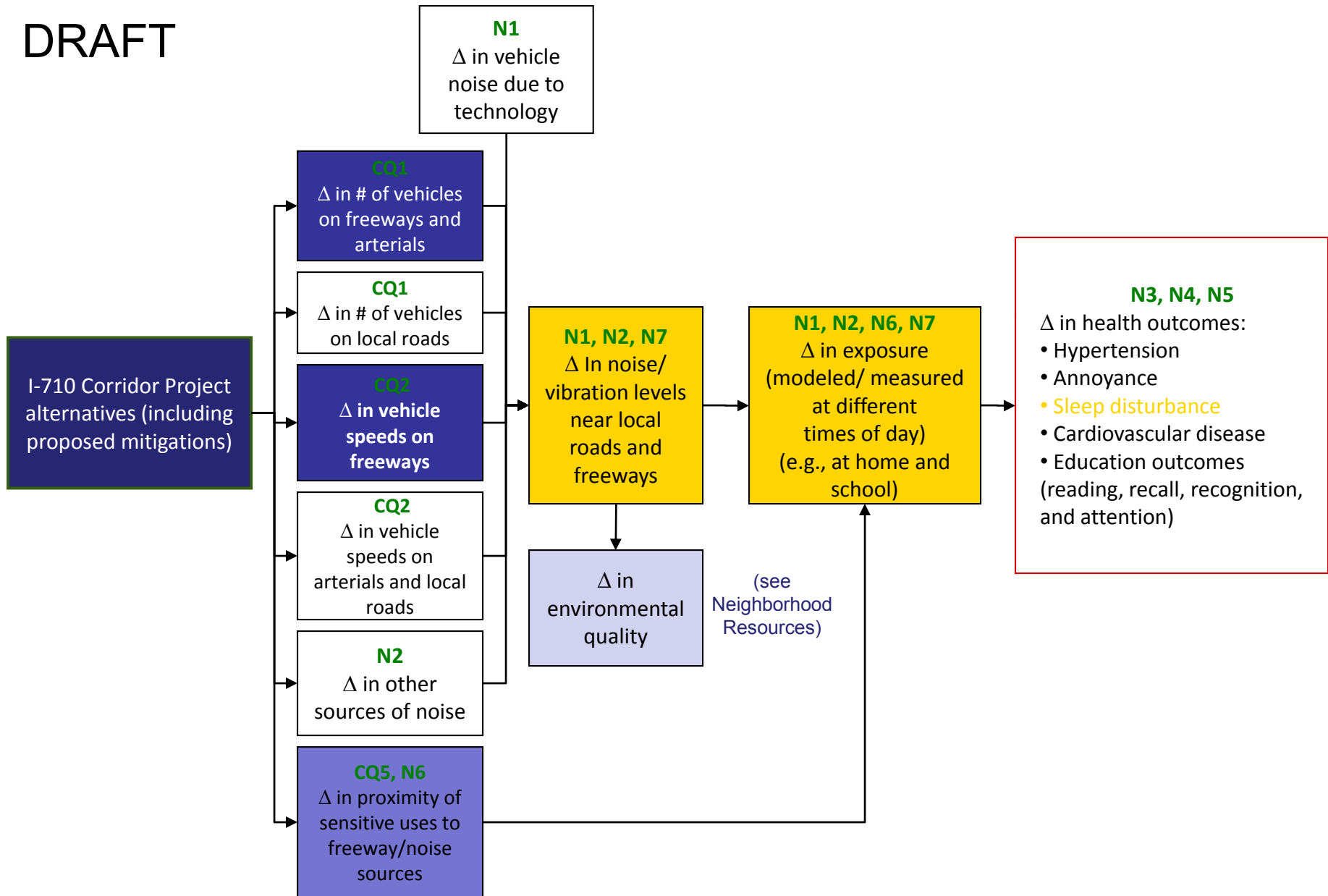
1. Air Quality Effects

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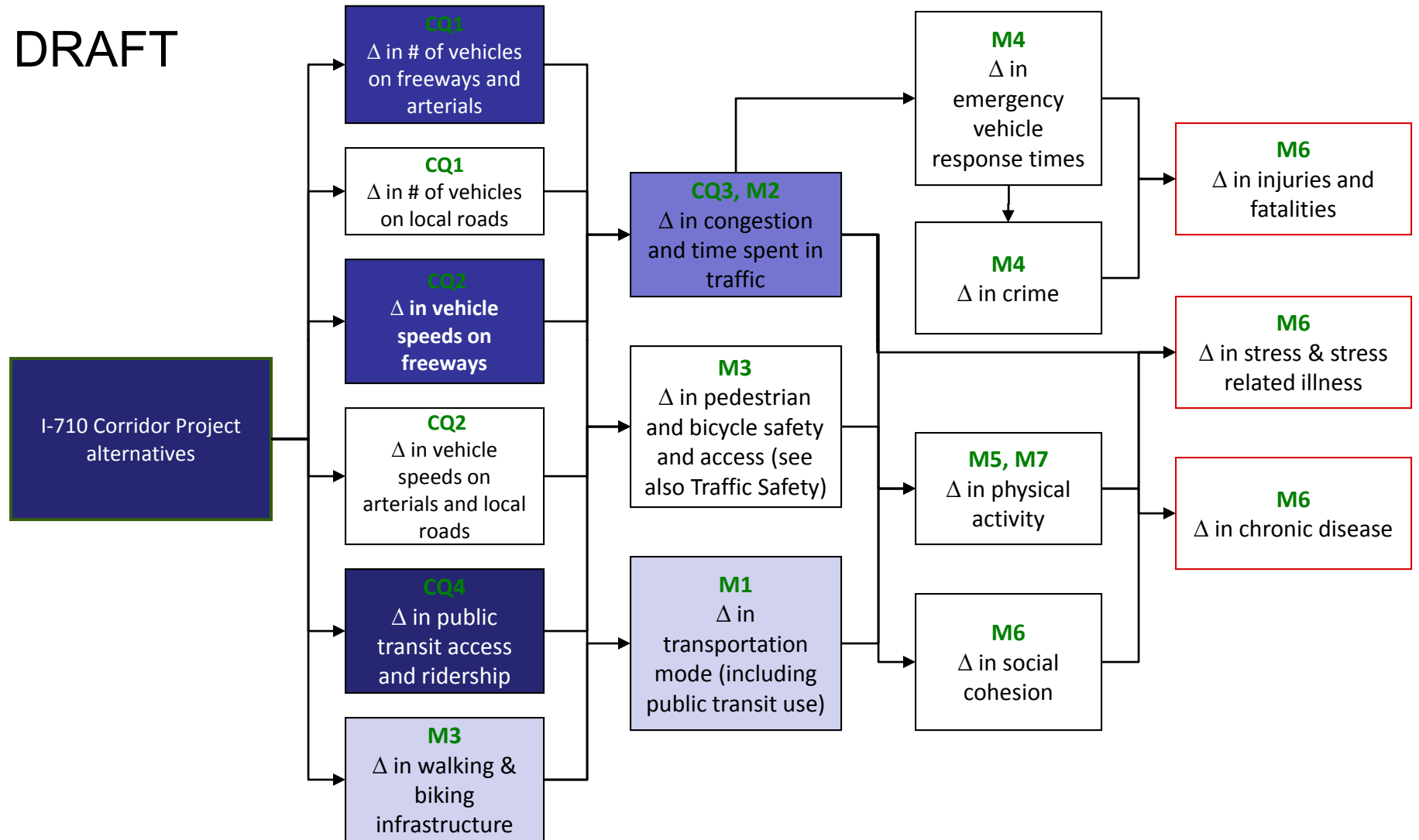
2. Noise Effects

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3. Mobility Effects

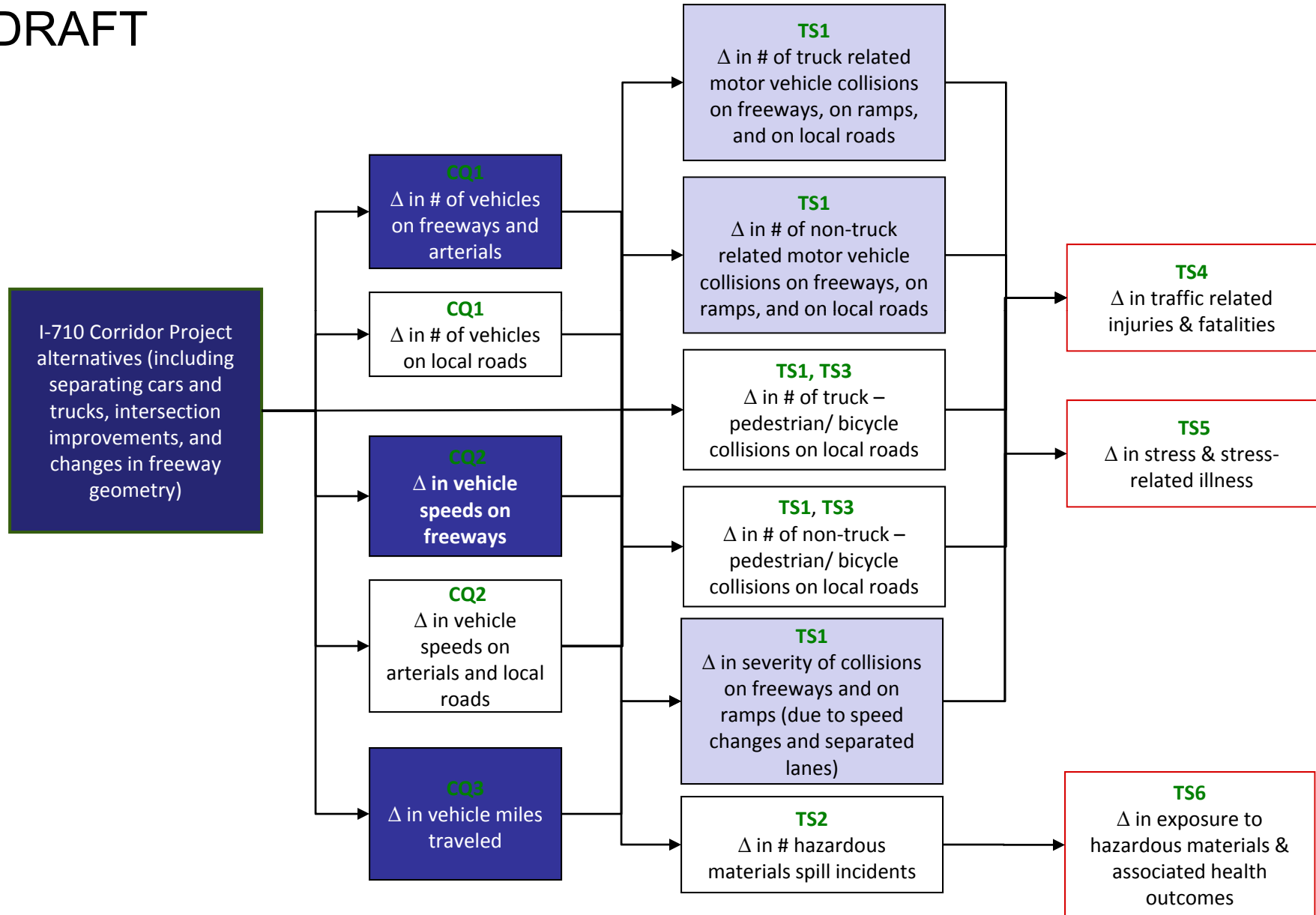
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- Health impacts of stress include: poor mental health, increased inflammatory response, decreased immune response
- Health impacts of chronic disease includes: heart disease, diabetes, hypertension,
- Health impacts of delayed emergency response times include: stress, potential for survival and recovery

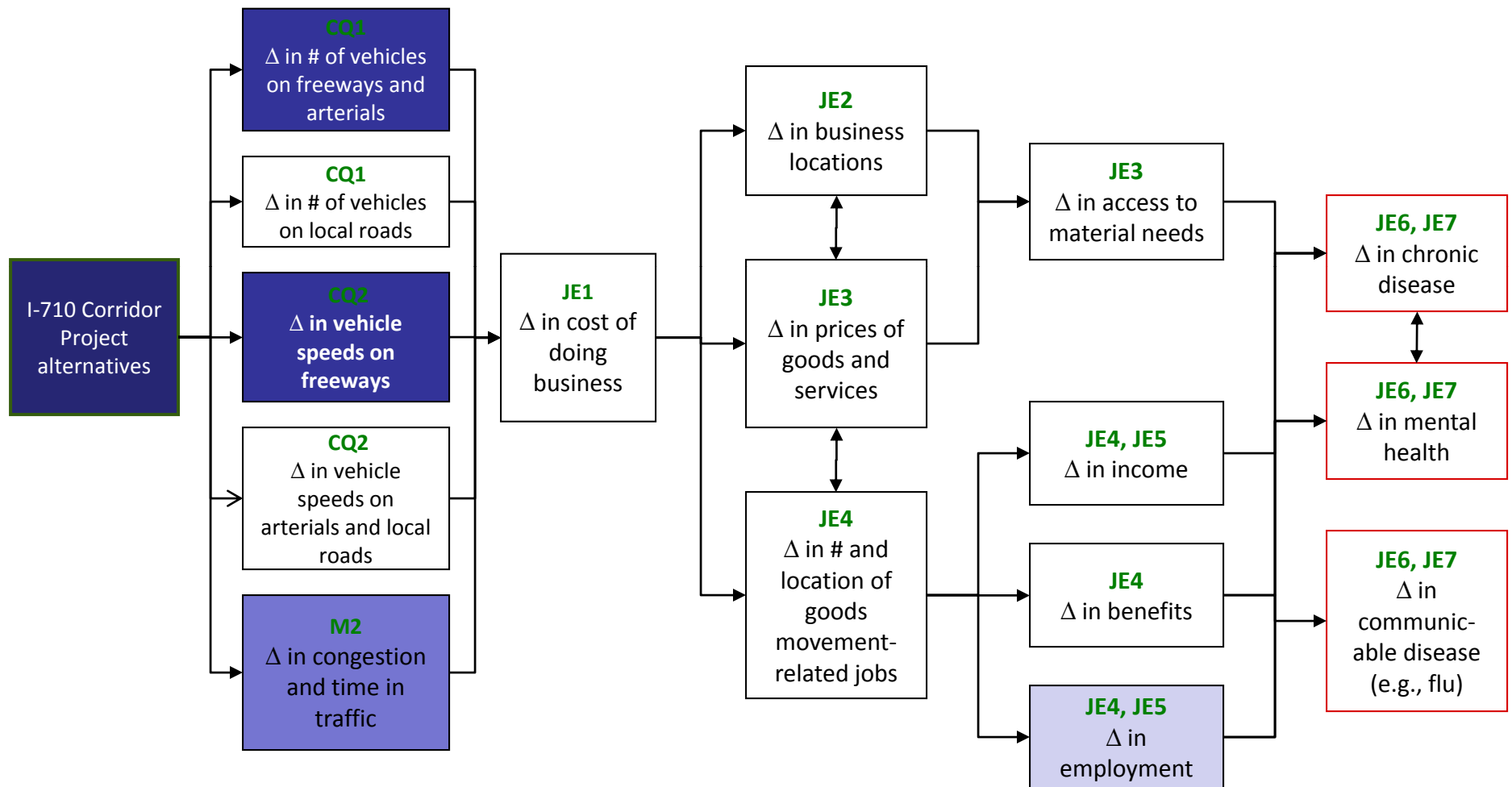
4. Traffic Safety Effects

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5. Jobs and Economic Development Effects

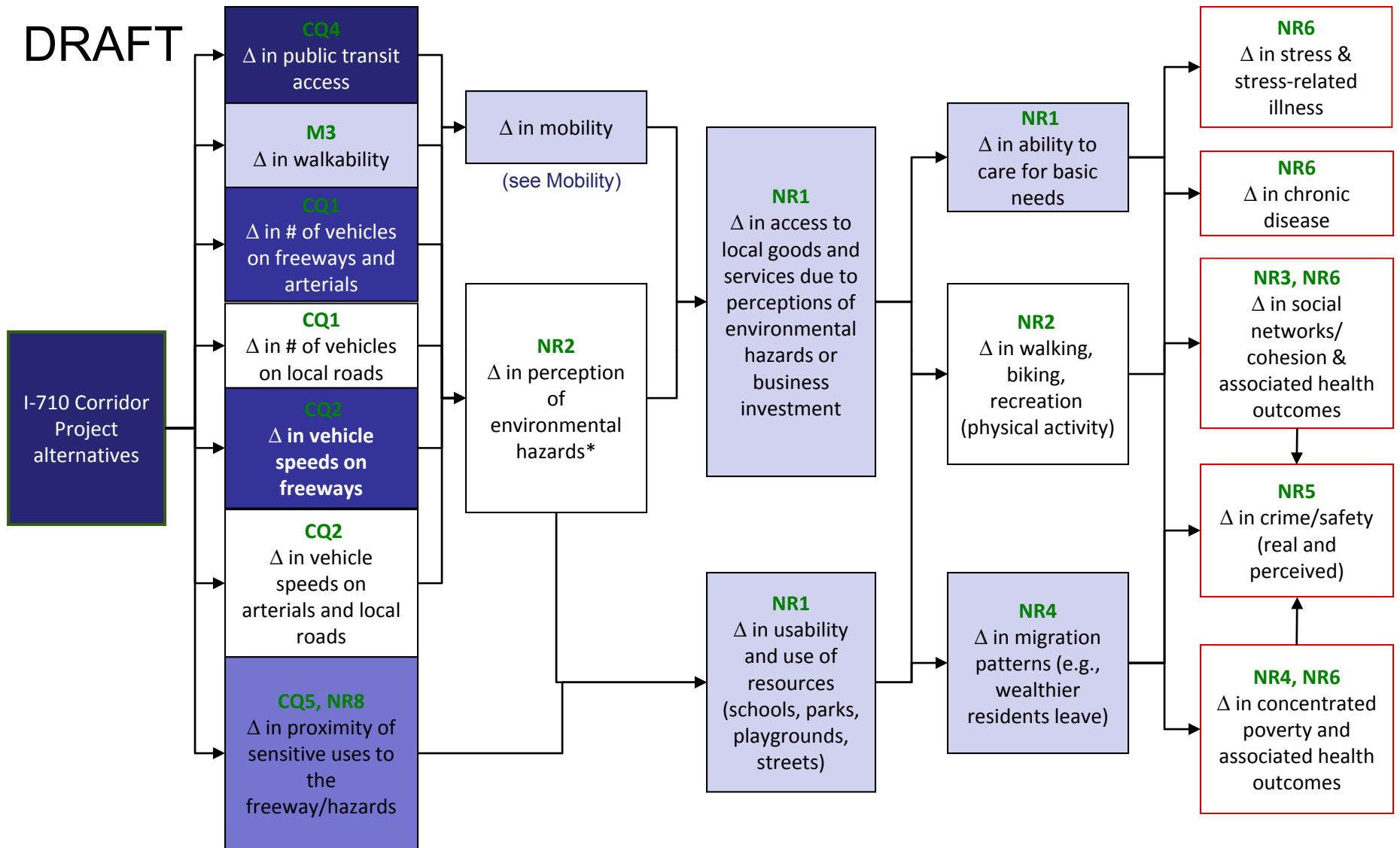
REVISED DRAFT, for further discussion



- Health impacts of mental health include: stress-related illness, crime, substance abuse, domestic abuse, change in lifespan
- Health impacts of chronic disease includes: heart disease, diabetes, hypertension

6. Neighborhood Resources Effects

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- Environmental hazards refers to air pollution, noise, odors, congestion, traffic safety
- Health outcomes include: injury and morbidity from crime; stress-related illness; effects from lack of social cohesion; and effects from lack of access to neighborhood resources

I-710 HIA Timelines

May 12	I-710 HIA TWG	Draft HIA Goals, Parameters, Health Determinants
May 26	I-710 HIA TWG	Draft HIA Pathways
July 11	I-710 HIA TWG	Draft HIA Pathways and Scope
July 13	AQAP Technical Roundtable	Draft HIA Pathways and Scope
July 14	AQAP Advisory Roundtable	Draft HIA Pathways and Scope
July 27	Environmental Committee	Draft Scope
Aug 3	Transportation/GCCOG Board	Draft Scope
Aug 15	I-710 HIA TWG	Status Report
Aug 10	AQAP Technical Roundtable	Status Report
Aug 11	AQAP Advisory Roundtable	Status Report
Aug 24	Environmental Committee	Status Report
Sept 7	Transportation/GCCOG Board	Status Report
Sept 12	I-710 HIA TWG	Final I-710 HIA Report
Sept 29	I-710 Project Committee	Final I-710 HIA Report
Oct 12	AQAP Technical Roundtable	Final I-710 HIA Report
Oct 13	AQAP Advisory Roundtable	Final I-710 HIA Report
Oct 26	Transportation/GCCOG Board	Final I-710 HIA Report
Nov 2	Transportation/GCCOG Board	Final I-710 HIA Report