Analytic Framework: Built Environment Approaches Combining Transportation System Interventions with Land Use and Environmental Design

**Built Environment Interventions in Combination**
(combinations of the following approaches)
- Land use and environmental design
  - Mixed land use
  - Places and facilities for recreation
- Transportation system
  - Street connectivity
  - Pedestrian infrastructure
  - Bicycle infrastructure
  - Public transit access

**Potential additional benefits:**
- Reduce vehicle use/miles traveled
- Reduce air pollution
- Reduce rate of pedestrian/cyclist injuries
- Community economic development

**Potential harms:**
- Increased traffic congestion
- Increase absolute number of pedestrian/cyclist injuries

**Key Potential Effect Modifiers**
- Types and scale of built environment combinations
- Population characteristics
- Community characteristics

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**Community**

- Improved access to built environment infrastructure
- Perceptions of improved walkability and bikeability
- Increased use of built environment infrastructure

**Potential harms:**
- Increased total physical activity
- More people achieving recommended levels of MVPA*

**Improved Quality of Life**

- Increased walking and cycling for transportation
- Increased walking and cycling for recreation and leisure
- Increased total physical activity
- More people achieving recommended levels of MVPA*

**Reduced Morbidity and Mortality**

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* MVPA: moderate to vigorous physical activity

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Legend:
- Intervention
- Intermediate Outcomes
- Recommendation Outcomes in this review
- Target Population
- Causal relationship