

## Module 3 Lesson 3 — Systems Thinking in Action

Friday, September 23, 2022 4:44 PM

• The world is made of

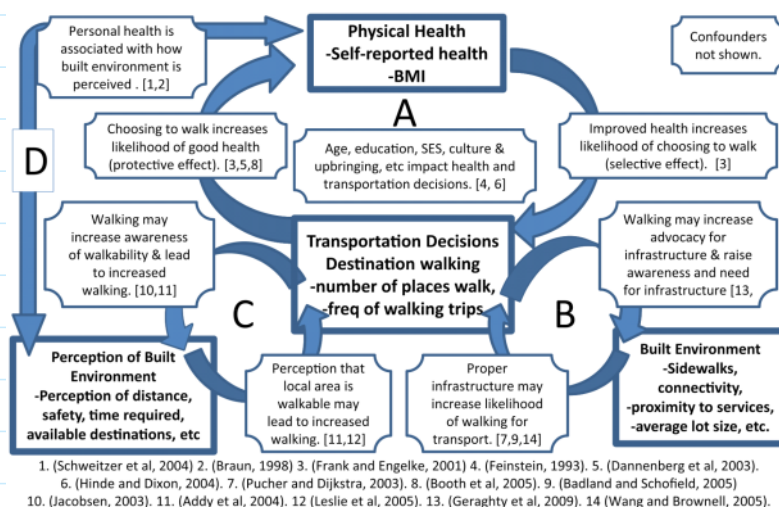
- human-made physical structures
- elements of the natural environment
- social elements
- economic elements

• Systems thinking can reveal how groups of interacting, interconnected, & interdependent elements affect each other within a greater "whole"

### 3.3.2 Transportation

- Transportation system can influence people's health
- People exposed to elements of "walkability" may not be influenced by an individual element
  - They may like to partake in "active living" **because** of overall improvements to the built environment
  - More walkable environments in an urban environment with diverse opportunities for physical activity, the more likely the urban population will be healthier
- It is the **group** of transportation system elements that influence the activity level of individuals

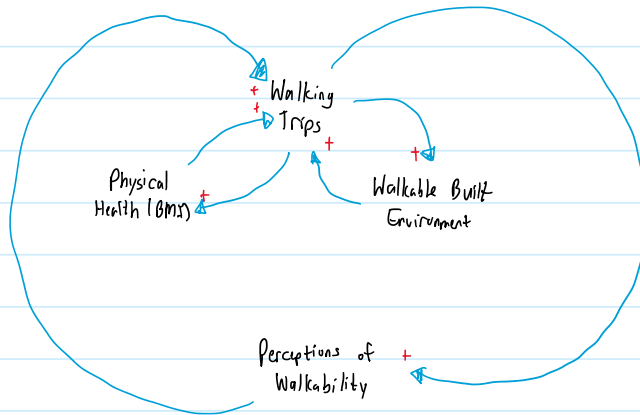
### 3.3.3 Modelling Built Influences




- The built environment influences travel behaviour, perceptions of built environment features, & access to different modes of transportation

- The diagram includes feedback loops (A, B, C, D)

### 3.3.4 Causal Loops



Causes →  Effects → Causes increase in value, effects also increase in value

 → decrease in cause, increase in effect