



## what it's not

## Environmental Impact Assessment

- Has a sense of what an environmental 'impact' is vs. 'normal' environmental activity
- Trying to assess (potential) damage
- This definition could be used to describe many studies that are not activities typical EIAs

## Ecological Footprint

- Frames resource usage in terms of land area required to sustain it
- Typically uses linear assumptions about resource consumption per unit of activity
- Is bottom-up; wholes are collections of





- We aim to understand a system's dynamics so that we may prevent or correct hazardous behaviour.
- It is apparent that the resource consumption and pollution of cities (and anthroposphere in general) has become hazardous to the global ecosystem.
- Thus, understanding how cities consume resources and transform them into pollution is imperative.
- (Urban) metabolism studies are a systems thinking approach to that.







4

## looking forward

- Control opportunities exist on different scales: national, provincial, municipal, institutional, etc.
- A systems thinking approach to anthropospheric metabolism that were scalable - one where you could move fluidly between different system levels - would be quite powerful.
- My research is directed towards identifying simple and measureable stocks, flows, and system parameters that are scalable through a range of system levels.

> e.g. thermal sensitivity of energy consumption