

# THEORY

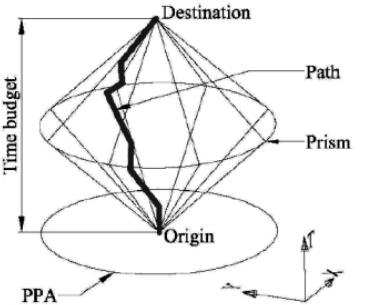
Hansen 1959

Geography of Accessibility



Hagerstrand 1970

Space-time prisms



Kwan and Weber 2003

Individual-level Accessibility



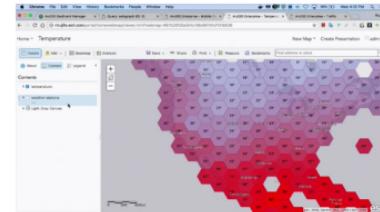
Manley 2006

Understanding the extent of MAUP



Chen and Kwan 2018

Big Spatio-temporal data



# Accessibility Timeline 2019

1950

1960

1970

1980

1990

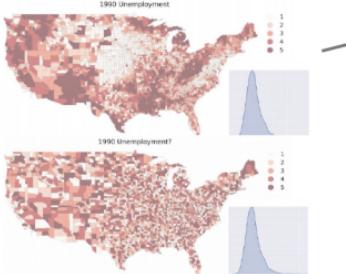
2000

2010

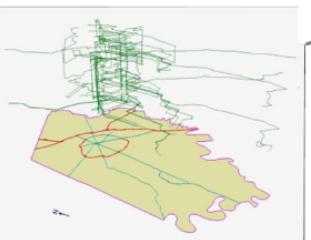
2019

# MODELLING

Openshaw and Taylor 1979  
Modifiable Areal Unit Problem (MAUP)

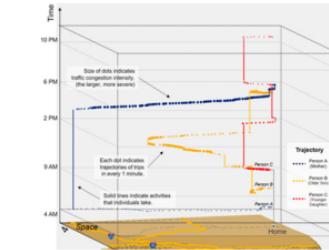


Kwan 1998  
Applying space-time prisms



S P A C E	• Characteristics of residence • Characteristics of workplace • Accessibility • Home to work distance
H O U S E H O L D	• Number of children in the household • Number of cars in the household • Household income
P E R S O N	• Gender • Age • Employment • Occupation type
T I M E	• Day of week • Wave in panel • Time elapsed

Goulias et al. 2002  
Trip analysis



Kim and Kwan 2019  
Machine-learning techniques