GIS APPLICATIONS

F GIS is a tool just like a hammer
F The power of GIS depends on how to use it

An Urban GIS Application

FA Neighborhood Complaint Example

The Complaint

F A Community group in Metro Toronto has been complaining that access to public parks is biased towards affluent neighborhoods.

Objective

F Provide concrete evidence that the complaint is either true or false

Evidence

F Distribution of Neighborhoods

– Higher no. of poor neighborhoods farther away

F Distribution of Population

 Larger poor population in more distant neighborhoods

F Distribution of Per Capita Income

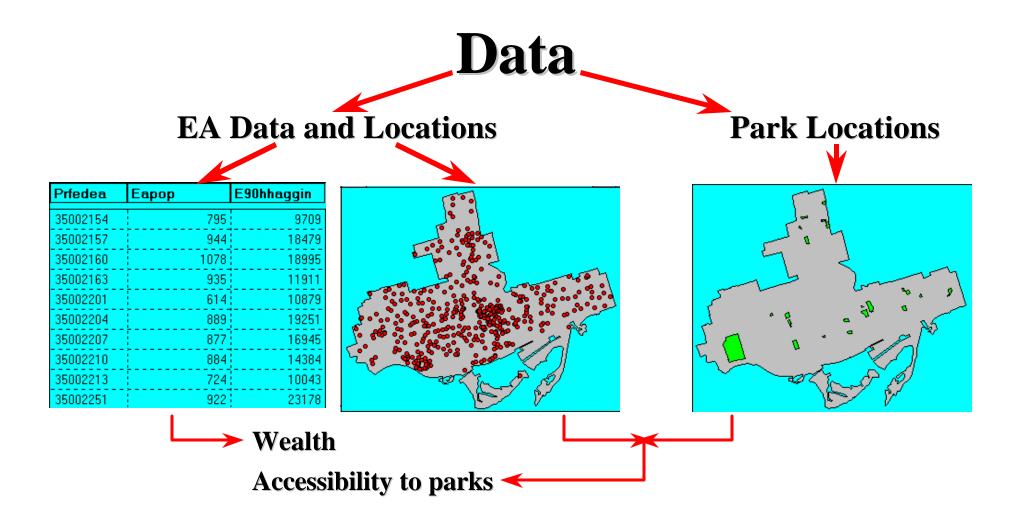
– Lower value in farther neighborhoods

Variables

- F Wealth of Neighborhood
 Income
 F Accessibility
 - Distance to Parks

Definition

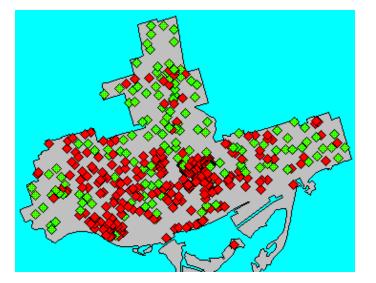
- F Wealth
 - Rich if income >= average income
 - Poor if income < average income</p>
- **F** Accessibility to parks
 - Closer if distance <= average distance</p>
 - Farther if distance > average distance

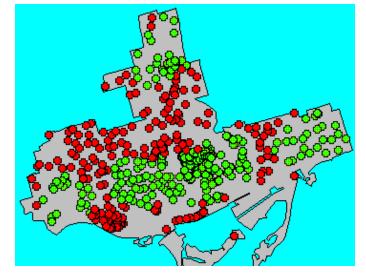


Wealth and Accessibility

- Poor Neighborhoods
- Rich Neighborhoods

- Easy Access to Parks
- Less Access to Parks





Results

F Distribution of Poor Neighborhoods

- 40% of poor neighborhoods farther away

F Distribution of Population

– 45.5% of lower income people farther away

F Distribution of Per Capita Income (PCI) – PCI near: 22.04K; away: 25.31K

Conclusion

F The claim cannot be supported by the available data and its analysis.