## As the Crow Flies:

## Comparing Radial and Network Analysis of Park Service Areas

DEE MERRIAM, MLA, FASLÁ: TONY GIARRUSSO, MCRP2;

1. CENTERS FOR DISEASE CONTROL AND PREVENTION, HEALTHY COMMUNITY DESIGN INITLATIVE; 2. GEORGIA INSTITUTE OF TECHNOLOGY, CENTER FOR GIS



Craate a Merged Park Serrico Araa:

- Merge overapping serice areas


Park Serico Arasa:
Biue ine rereresentis
Bue line represents the network senice area
Dips occur where two service areas meet


roportional Estimate of Population: Census tracts did hot correspond with identified
senvice aeas, so the eercent of a census tract and used to assign population.
Note: This method assumes uniform distribution
of populution across he census block and may
Create Merged Polygons for the city as a Whole
Some of the identitied park catchment areas overlapped. To eliminate double counting the same Sopuations, al park senice areas were merged to create four citywide polyons: One


City of Atlanta Total Estimated Population Served
by Parks Using Radial and Network Analysis
(2000 Census Total City of Allanta Population Estimate 416,47 )


## Geospatal Analysss:

- Network analysis reveals much larger un-served areas of Atalant than is evident sing radial analysis.
-The size of paik service areas appears to be determined more by the characterisisics of nearby streel



Southside Park



## RESULTS: Selected Park 



Freedom Park
 and


Harwell Heights Park
Harwell Heiehhts Park serves the smallest population
estimated by network analysis. $t$ tillustrates a site with



## Harwell Heights Park- 23.4 acres



Southside Park - 211.4 acres


LIMITATIONS




CONCLUSIONS



