

Housing and Transportation Affordability Index Study

NCR Transportation Planning Board
September 21, 2011

Housing Costs < 30% of Income







Transportation Costs?





H+T Costs < 45% of Income



- Transportation costs are typically 18% of household budget
- H+T® Affordability Index calculates costs at the neighborhood level
- 337 metro areas at: http://htaindex.cnt.org
- 30% housing + 15% transportation
 - = 45% H+T affordability benchmark

H+T INDEX = Housing Costs + Transportation Costs
Income



Transportation Costs Vary by Location

6 NEIGHBORHOOD VARIABLES

Residential Density

Gross Density

Average Block Size in Acres

Transit Connectivity Index

Job Density

Average Time Journey to Work

3 HOUSEHOLD VARIABLES

Household Income
Household Size
Commuters per Household

CAR OWNERSHIP
+ CAR USAGE
+ PUBLIC TRANSIT USAGE



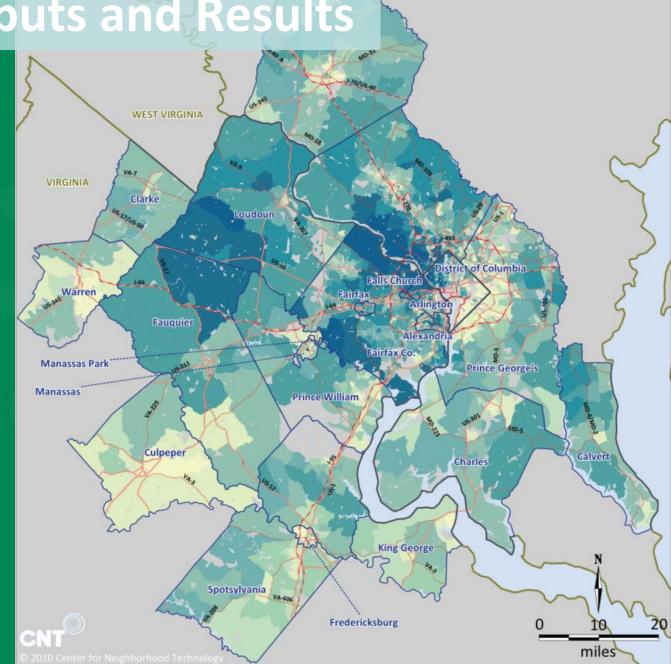
TOTAL TRANSPORTATION COSTS



Model Outputs and Results

Avg. Monthly Housing Costs

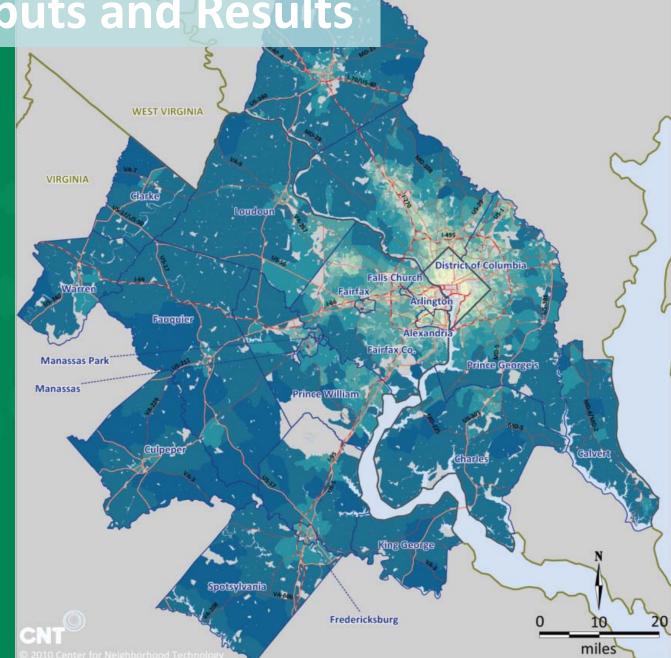
- < \$1,200
- \$1,200 to \$1,400
- \$1,400 to \$1,500
- \$1,500 to \$1,600
- \$1,600 to \$1,900
- \$1,900 to \$2,200
- \$2,200 to \$2,700
- \$2,700 to \$3,600
- \$3,600 to \$5,200
- \$5,200 +
- Insufficient Data



Model Outputs and Results

Avg. Monthly Transportation Costs

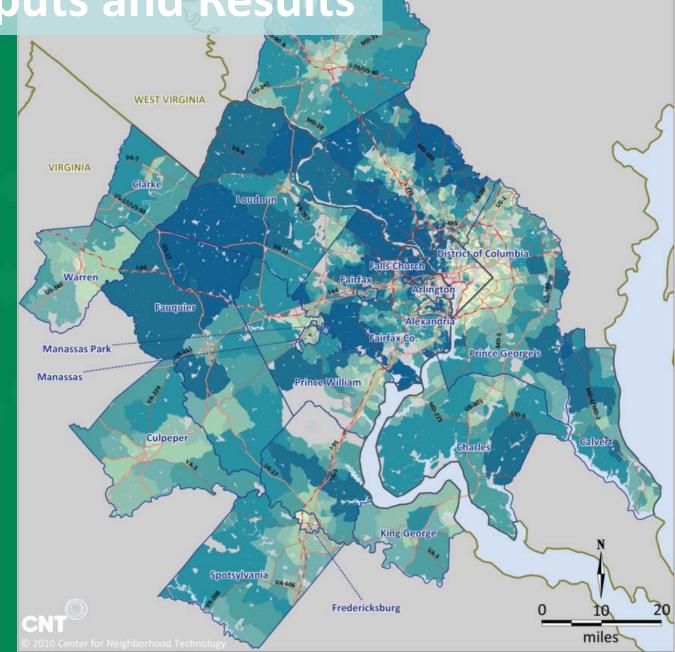
- < \$920
- \$920 to \$1,020
- \$1,020 to \$1,100
- \$1,100 to \$1,170
- \$1,170 to \$1,230
- \$1,230 to \$1,280
- \$1,280 to \$1,370
- \$1,370 to \$1,500
- \$1,500 to \$1,770
- \$1,770 +
- Insufficient Data



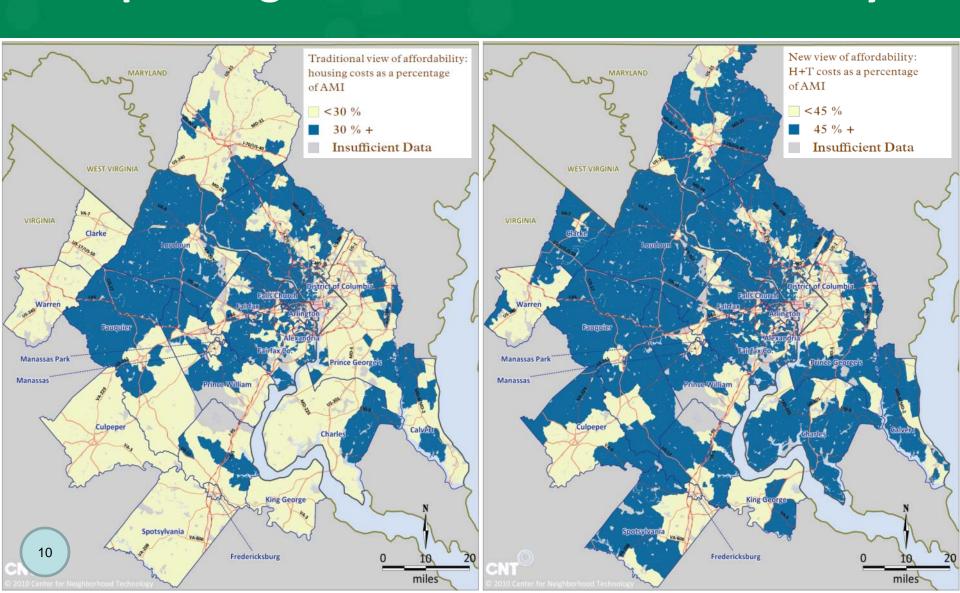
Model Outputs and Results

Avg. Monthly H+T Costs as a Percent of Area Median Income (AMI)

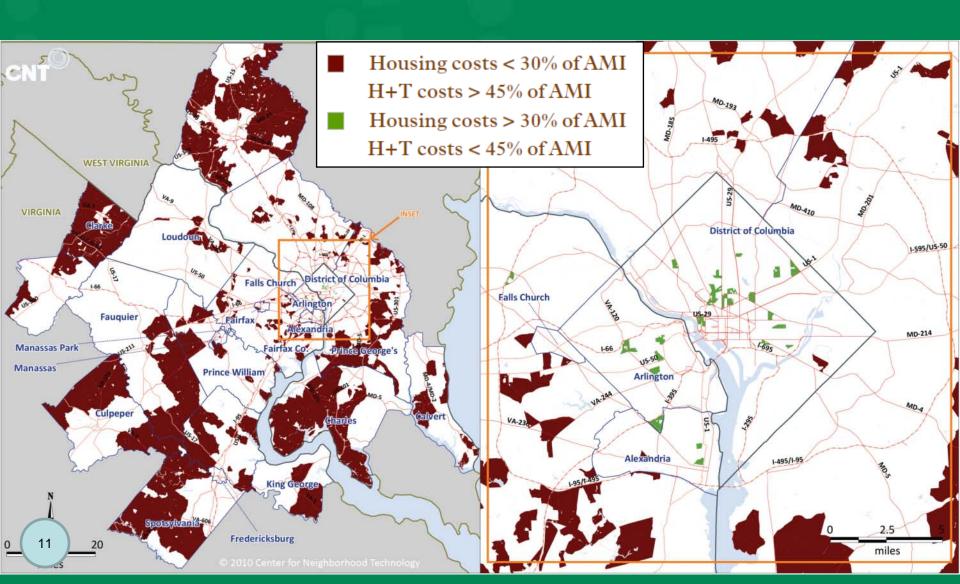
- **<30** %
- 30 to 33%
- 33 to 35%
- 35 to 40%
- 40 to 42%
- 42 to 45%
- 45 to 48%
- 48 to 55%
- 55 to 65%
- 65% +
- Insufficient Data



H + T Index: Expanding the Definition of Affordability



Bringing It All Together: Redefining Affordability



Applications

Region Forward 2050

 Target: By 2020, the housing and transportation costs in Regional Activity Centers will not exceed 45 percent of area median income

Arlington County

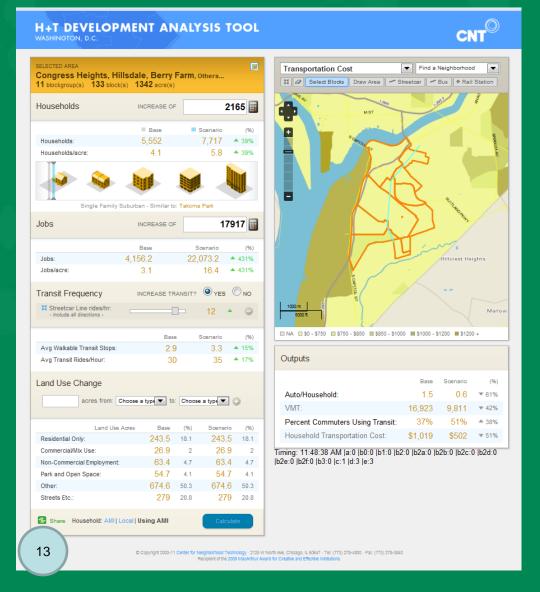
- Include combined housing & transportation cost into the county's demographic profile of neighborhoods.
- Columbia Pike streetcar land use and housing study.

WMATA

Inclusion in the "Business Case for Transit" Study



Applying the H+T Scenario Tool in DC



St Elizabeth's Area 2010-2020 2,165 New Households 17,917 New Jobs Streetcar Line

Results
Autos/Household -61%
VMT -42%
% Transit Use +36%
Transportation Cost -51%

Housing Cost?



