PROPOSED TIER 1 TAZ SYSTEM

2010 NYBPM and TH-TDFM Updates

Zone Systems in BPM

Three developed systems

Tier 0 / NYMTC NYBPM 2005:

```
    Total zones = 3697;
    Internal zones = 3586;
```

External zones = 111;
 Special Generators = 4(NY)+7(NJ)

Tier 1 / TH-TDFM:

```
• Total zones = 3924; Internal zones = 3813
```

External zones = 111;
 Special Generators = 4(NY) + 7(NJ)

• Tier 2 / (?):

```
    Total zones = 3629;
    Internal zones = 4518
```

External zones = 111;
 Special Generators = 4(NY)+7(NJ)

Special Generators

New York

- South Brooklyn Marine Terminal
- Red Hook Marine Terminal
- JFK Airport
- Stewart Airport
- Howland Hook

New Jersey

- Newark Airport (1 + 1added)
- Port Elizabeth
- Port Newark
- Port Jersey (added)
- MOTBY (added)

added "Park and Ride":

- Vince Lombardi PNR
- North Bergen PNR

Latest inputs for updating the BPM Zone System:

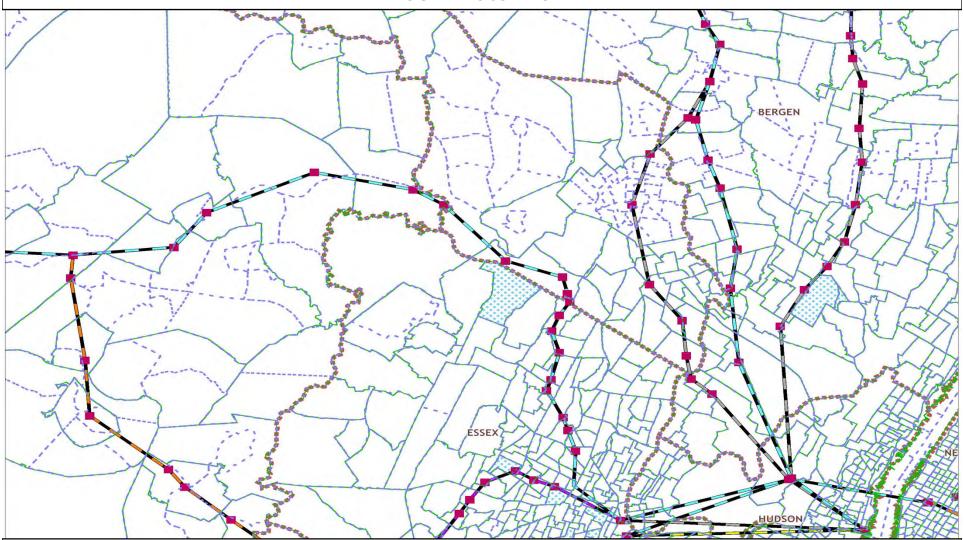
- Comments from PANYNJ
 - NJ zones should be built from NJTPA zones or their aggregations
 - In some parts of Newark, NYBPM zones are smaller than NJTPA they should be aggregated to match NJTPA zones
 - In Outer-NJ area, keep NJTPA details near transit stations and aggregate away from transit stations
- 2010 Census Tracts definitions
 - TAZ in NY area are currently based on the 2000 Census tract boundaries
 - 2010 vs. 2000 Census Tracts

- I. Review NYBPM Tier1 Zone system in New Jersey
 - Review TAZ borders of NYBPM vs. NJTPA in NJ area
 - Review TAZ size of NYBPM vs. NJTPA in NJ area
 - Aggregated NYBPM TAZ in NJ Prime and Outer areas
- II. Review NYBPM Tier 1 Zone system in New York
 - Review 2010 vs. 2000 Census Tracts in NY area
 - NYBPM Tier 1 TAZ vs. 2000 Census Tracts in NY area
- III. Review NYBPM Tier 1 Zone system in Manhattan
 - Evaluate and select TAZ zones for split in Manhattan
 - Recommendations on split existing TAZ in Manhattan

١.

- Review NYBPM Tier1 Zone system in New Jersey
 - Review TAZ borders of NYBPM vs. NJTPA in NJ area
 - Review TAZ size of NYBPM vs. NJTPA in NJ area
 - Aggregated NYBPM TAZ in NJ Prime and Outer areas

Commuter Rail

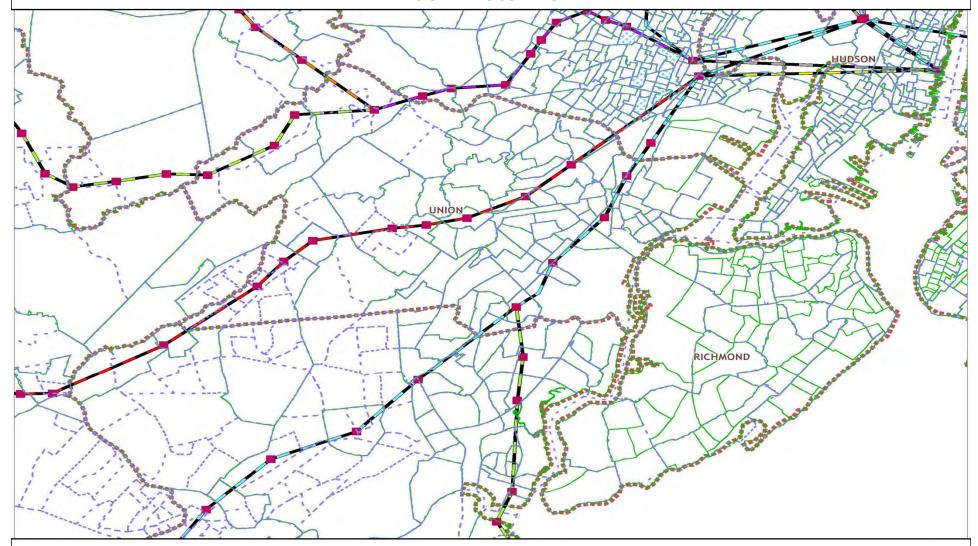


TAZ: Tier 1 (Solid Green) & NJTPA (Dashed Violet)

NYMTC / Progress Meeting

Parsons Brinckerhoff

Commuter Rail



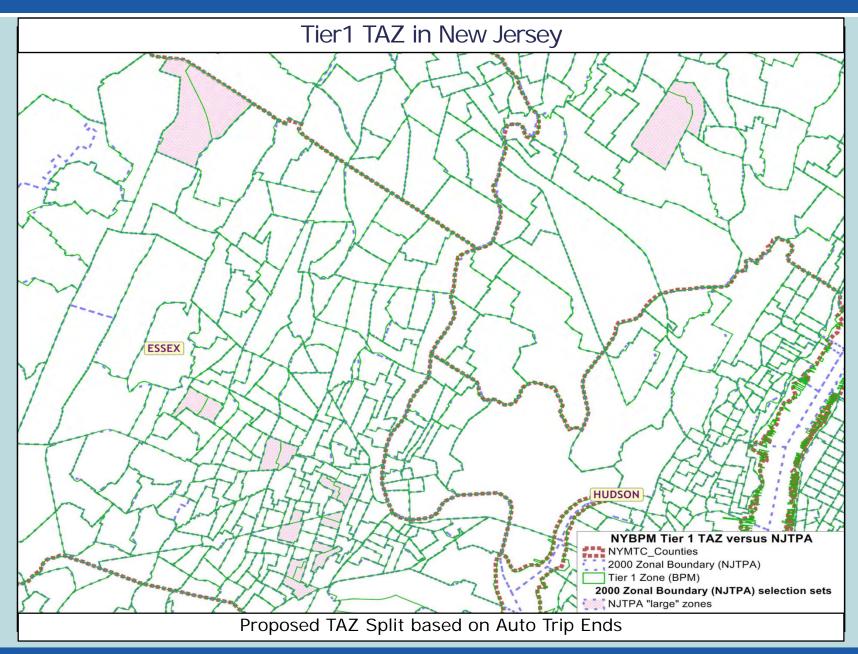
TAZ: Tier 1 (Solid Green) & NJTPA (Dashed Violet)

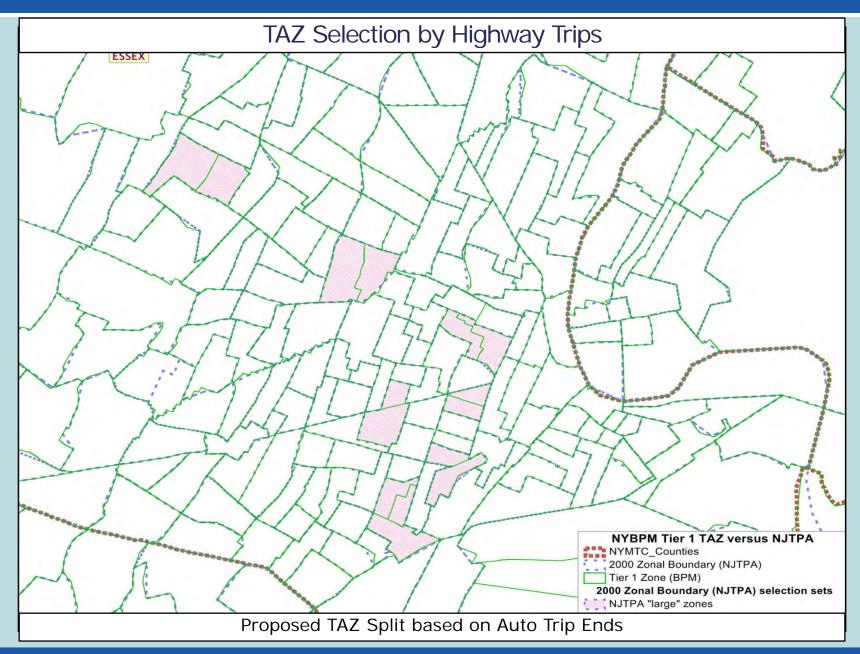
NYMTC / Progress Meeting

Parsons Brinckerhoff

Latest inputs for updating the BPM Zone System:

- Comments from PANYNJ
 - NJ zones should be built from NJTPA zones or their aggregations
 - In some parts of Newark, NYBPM zones are smaller than NJTPA they should be aggregated to match NJTPA zones
 - In Outer-NJ area, keep NJTPA details near transit stations and aggregate away from transit stations (?) – Do not change this time
- 2010 Census Tracts definitions
 - TAZ in NY area are currently based on the 2000 Census tract boundaries
 - 2010 vs. 2000 Census Tracts





Aggregated zones in NJ

21 BPM zones aggregated in P-NJ and O-NJ

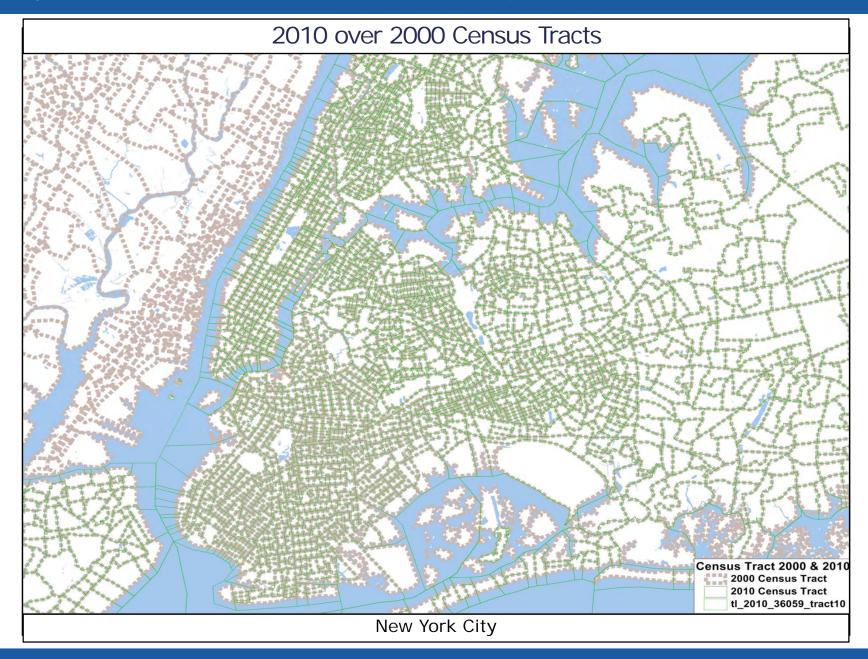
into

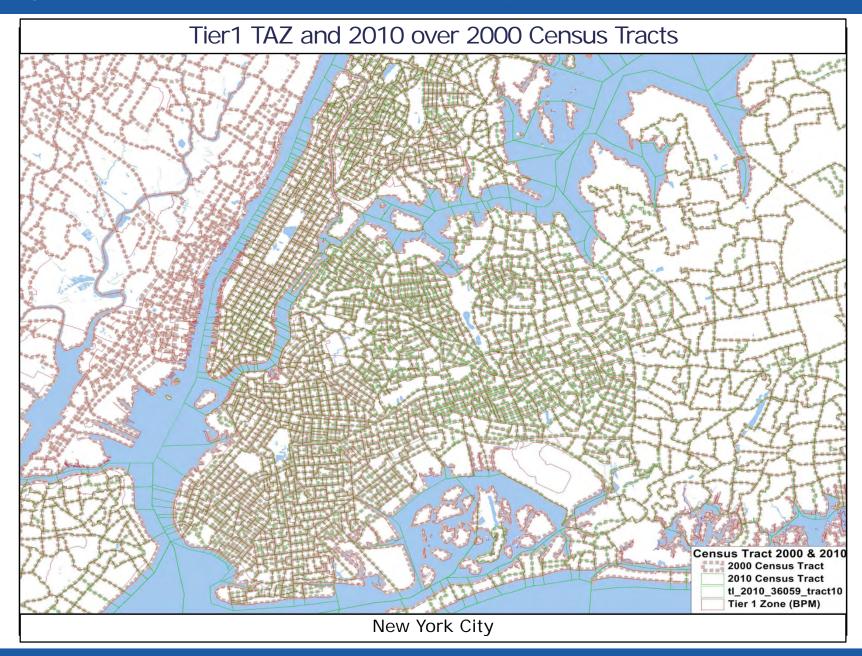
10 zones matching NJTPA zones

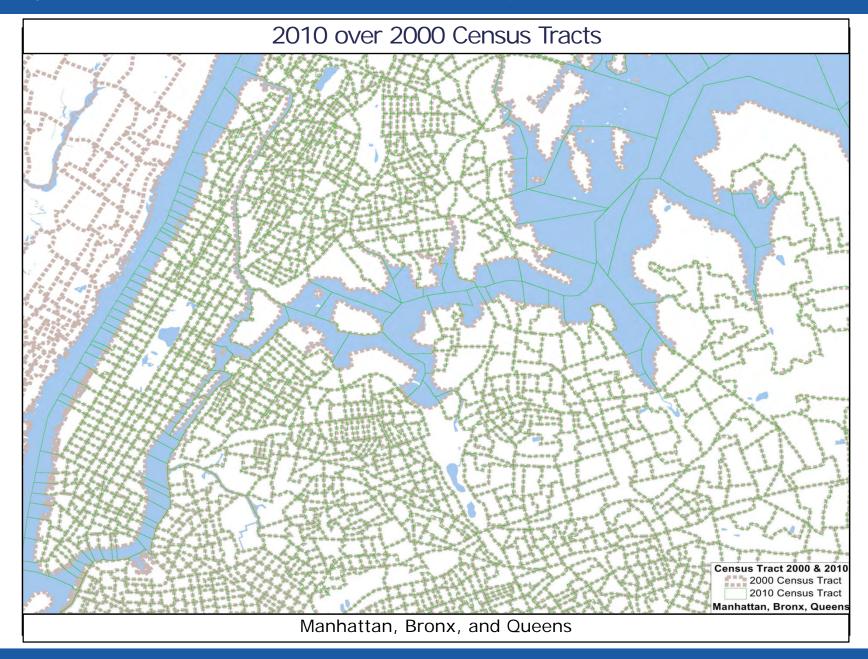
11.

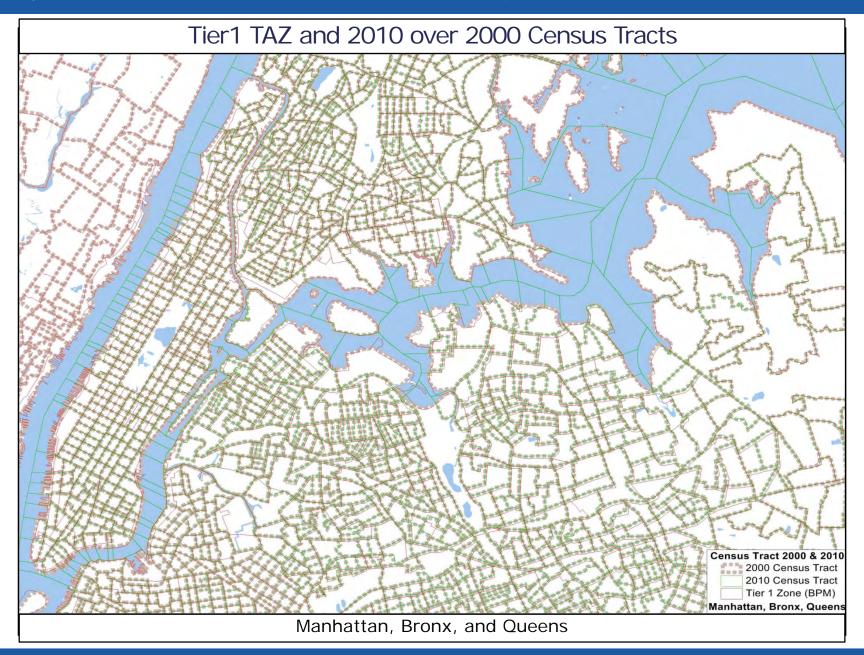
July 26, 2012

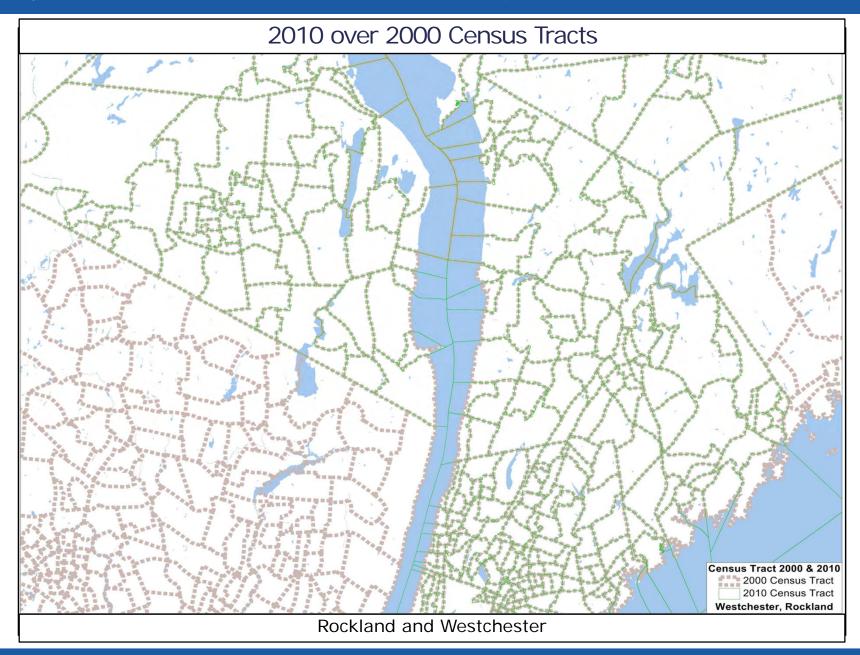
- Review NYBPM Tier 1 Zone system in New York
 - Review 2010 vs. 2000 Census Tracts in NY area
 - NYBPM Tier 1 TAZ vs. 2000 Census Tracts in NY area

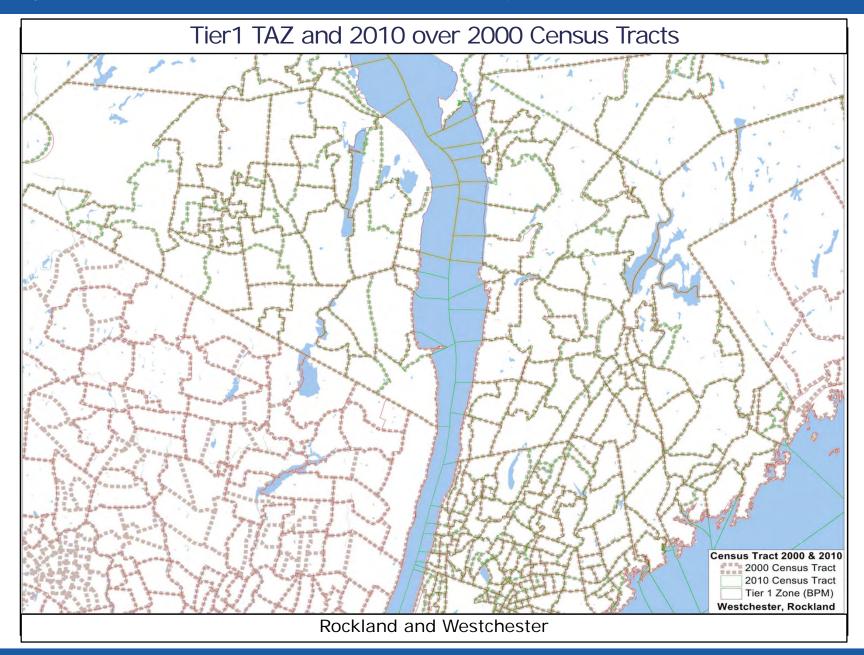










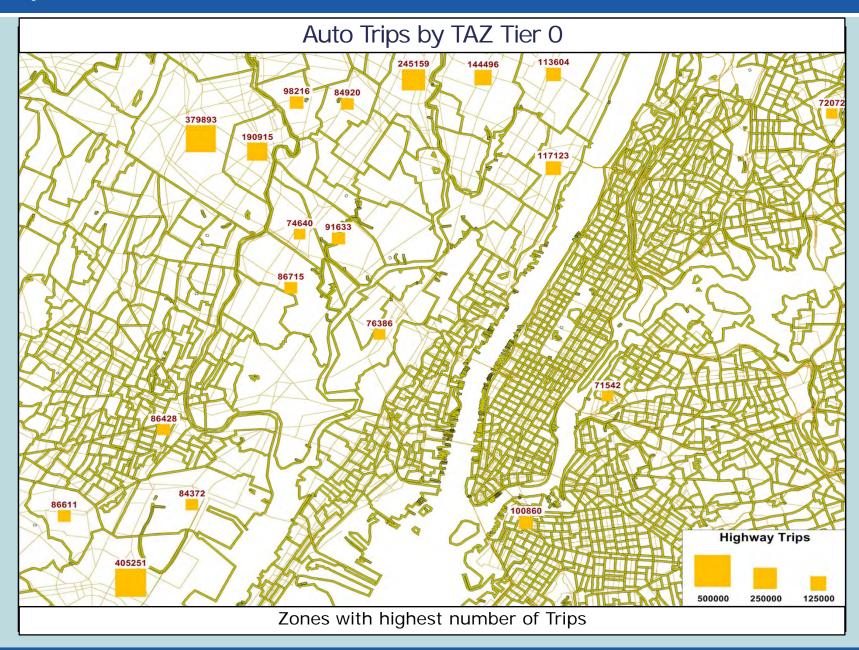


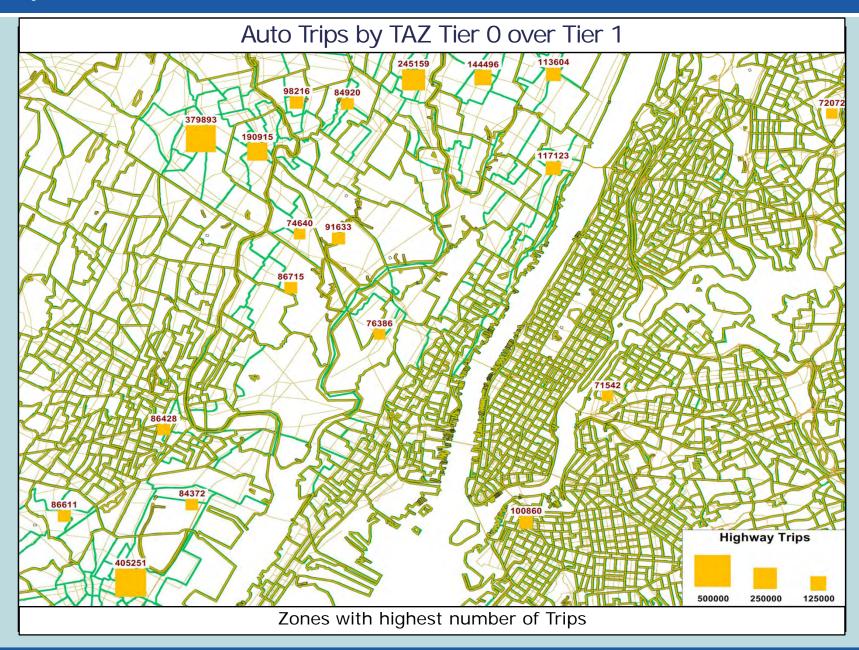
III.

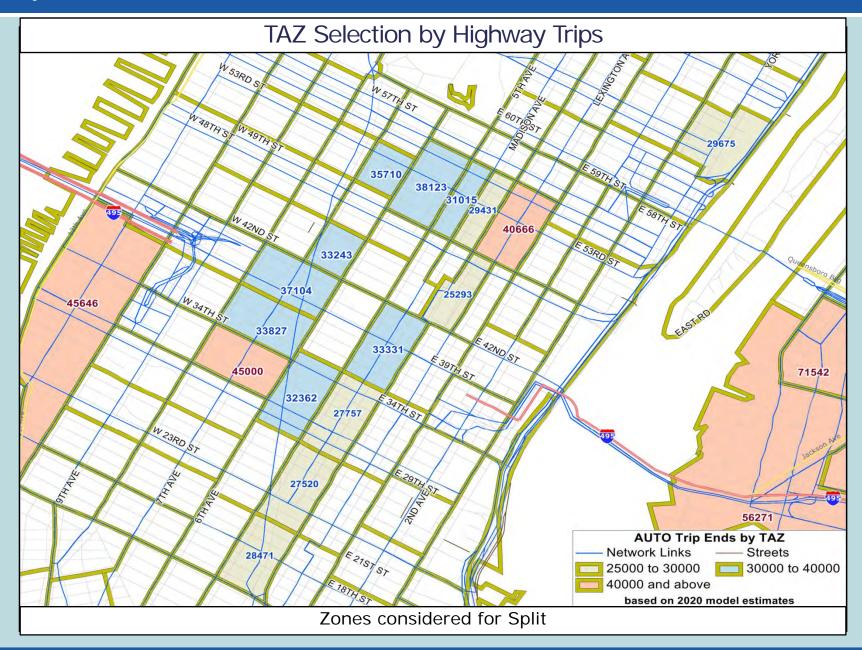
- Review NYBPM Tier 1 Zone system in Manhattan
 - Evaluate and select TAZ zones for split in Manhattan
 - Recommendations on split existing TAZ in Manhattan

Purpose and Criteria for zone split

- What we achieve by zone split
 - More realistic representation of land use
 - Better distribution of traffic on local street network
 - Better representation of access to transit network
- Criteria for selecting zone to split
 - Large number of auto trips (~25,000+ in Manhattan)
 - Large number of person trips (~70,000+ in Manhattan)
 - Abnormally large size does not correspond to land use structure
- Evaluation based on number of future year trips

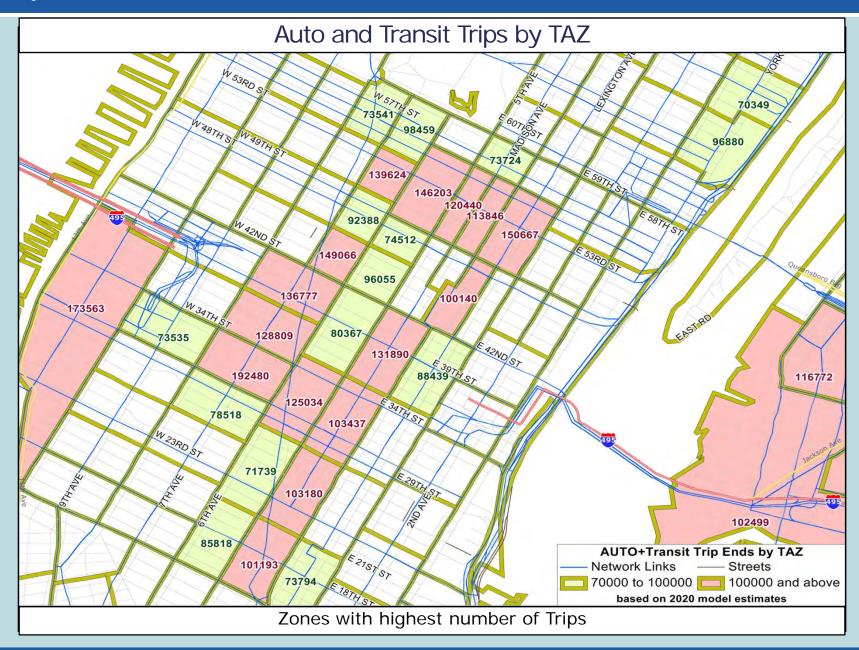






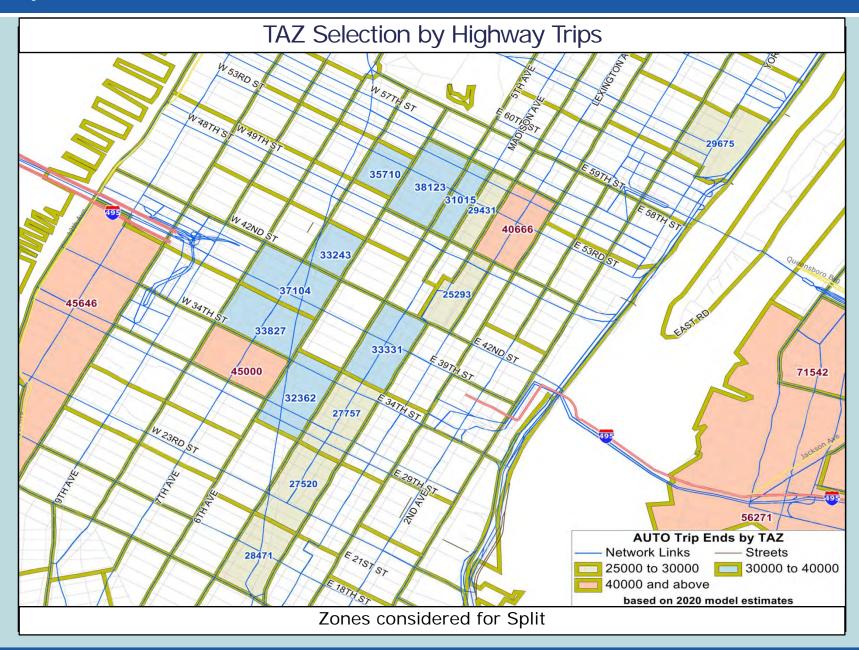
Transit and Auto trips

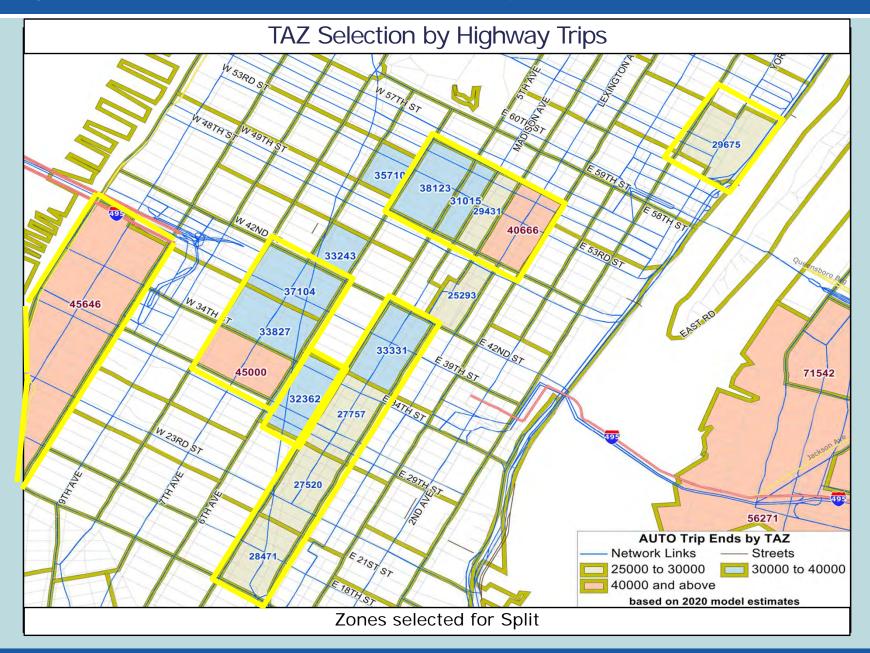
- Using Auto Trip Ends for evaluation
- How different is distribution of Total (Transit and Auto) Trip Ends by TAZ?

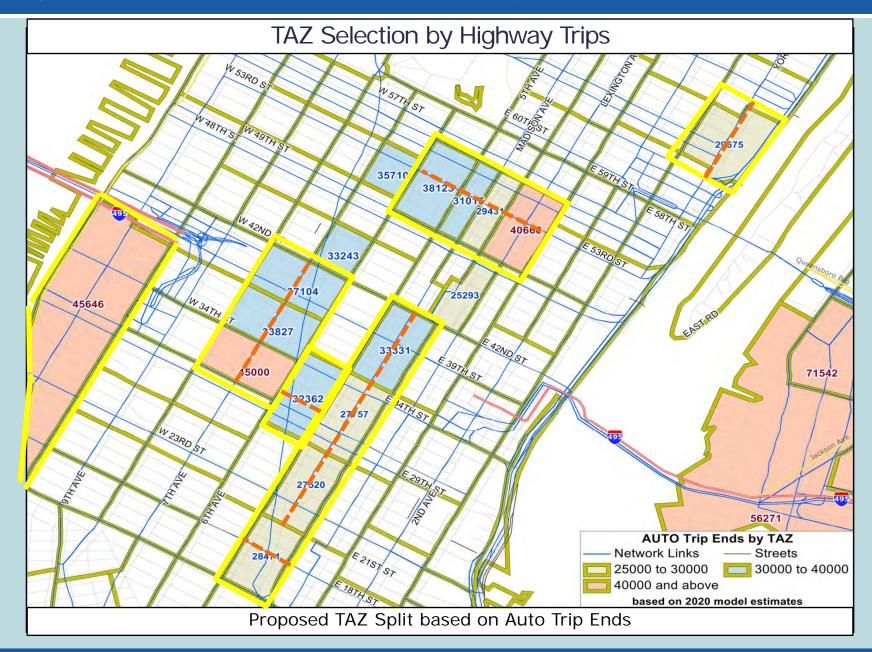


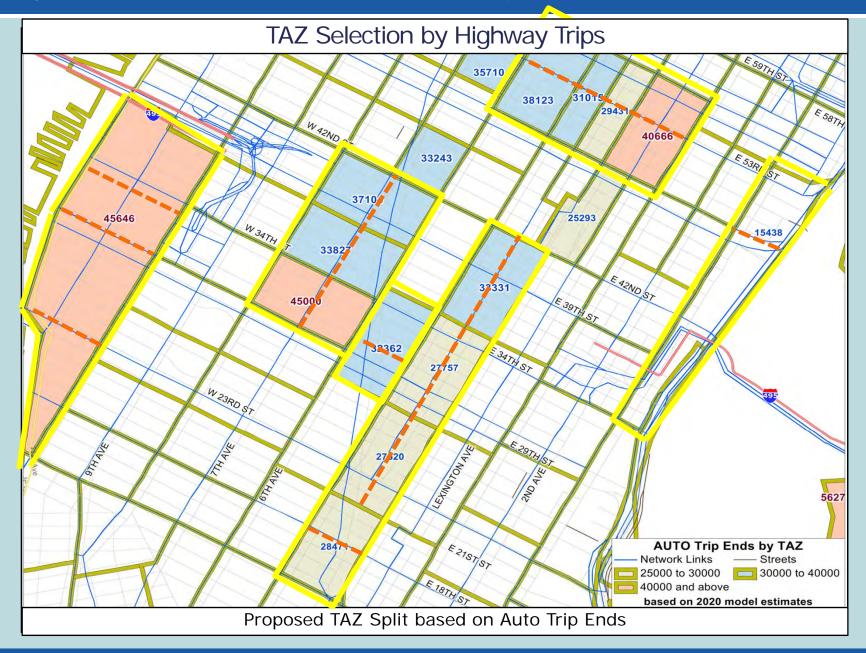
Transit and Auto trips

- Transit and auto trips in Manhattan generally correlate with each other
- Auto trips distribution define local traffic flows
- Transit trips pedestrian flows









What changed in Manhattan zone system?

- Before Split: 15 TAZ zones selected for split in Mid-town Manhattan based on number of auto trips, size and correspondence to underlying land use structure.
 - Total zones in Manhattan = 318

- After Split: 32 smaller TAZ zones in Mid-Town Manhattan replace larger zones. More realistically represent land use structure, highway/street network, and transit access/egress
 - Total zones in Manhattan = 325

MORE TAZ SPLITS IN NYC?

TAZ split candidates outside Manhattan

Other Potential Areas for TAZ Split in NYC

Queens:

- -Long Island City,
- -Willets Point:

Brooklyn:

- -Downtown,
- -Red Hook,
- -Along 3rd Avenue

