



Office of Information  
Technology Services

# Preparing for the 2020 Census

## Address Processing and GIS

March 27, 2019

Frank Winters – GIO

# Local Update of Census Addresses (LUCA)

- ✓ **203 Towns** signed up
- ✓ **Every County** and **NYC** signed up
- ✓ **The State** signed up
- ✓ **The State team** supporting local efforts



**Governor's Office**

**Department of Labor** → Cornell University's Program on Applied Demographics

**Information Technology Services' GIS Program Office**

**Department of State**

**Council on Children & Family**



**Office of Information  
Technology Services**

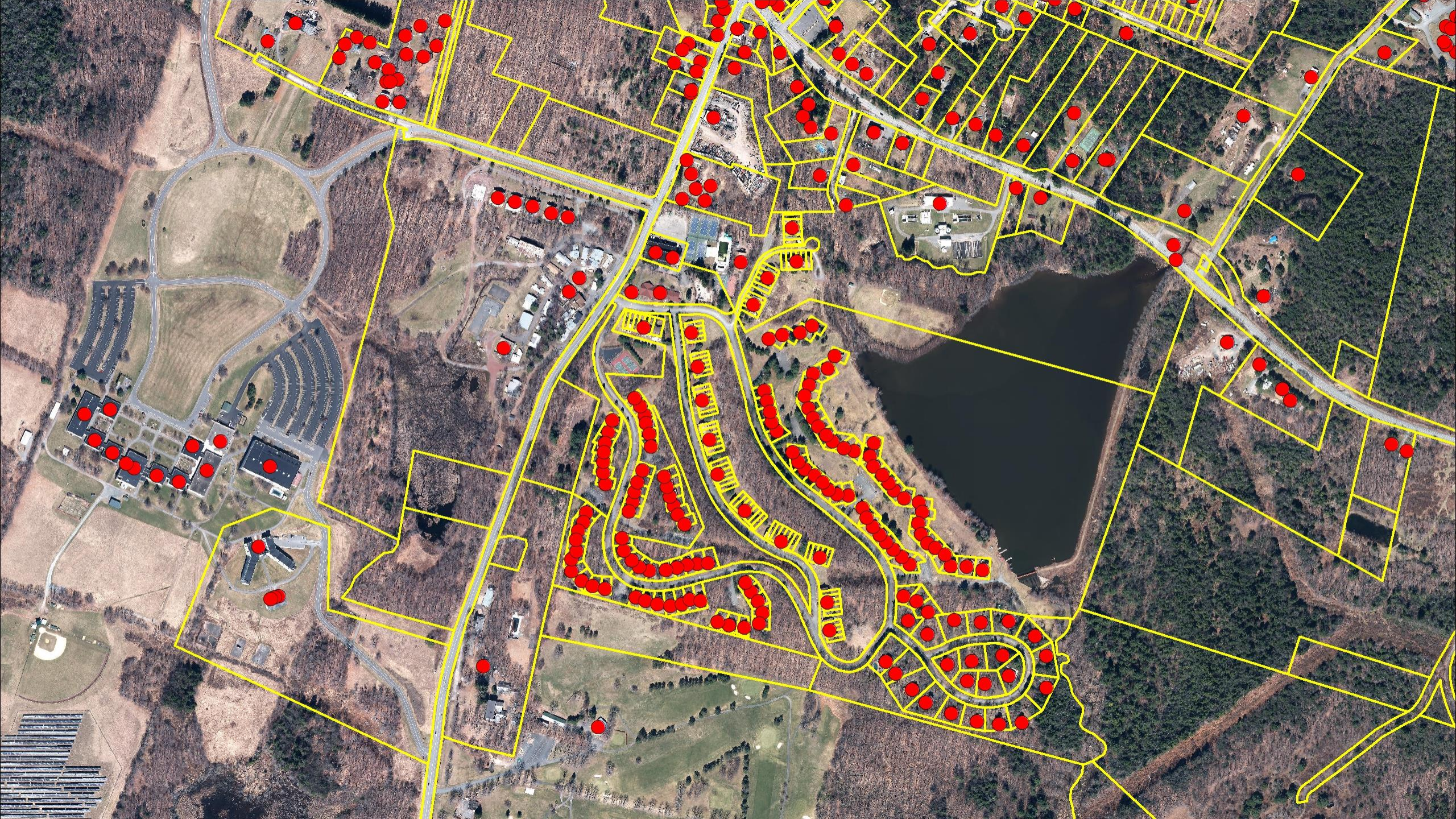
# The LUCA Process

- **Improve the Census Master Address File (MAF): add, change, delete**
- **Residential only**
- Census should already have **all active postal addresses**
- Census needs to know both the **location and the mailing address**











passive.mxd - ArcMap

18 Green St - Google Ma x 414 Broadway Albany, NY x

Secure | <https://www.apartments.com/414-broadway-albany-ny/f0xnjjr/>

InsideEdge GPO CH GoogleMaps L LATS SFS ITSM Nancy Duarte Ted ITSEmployees


Map Menu Español

## 414 Broadway

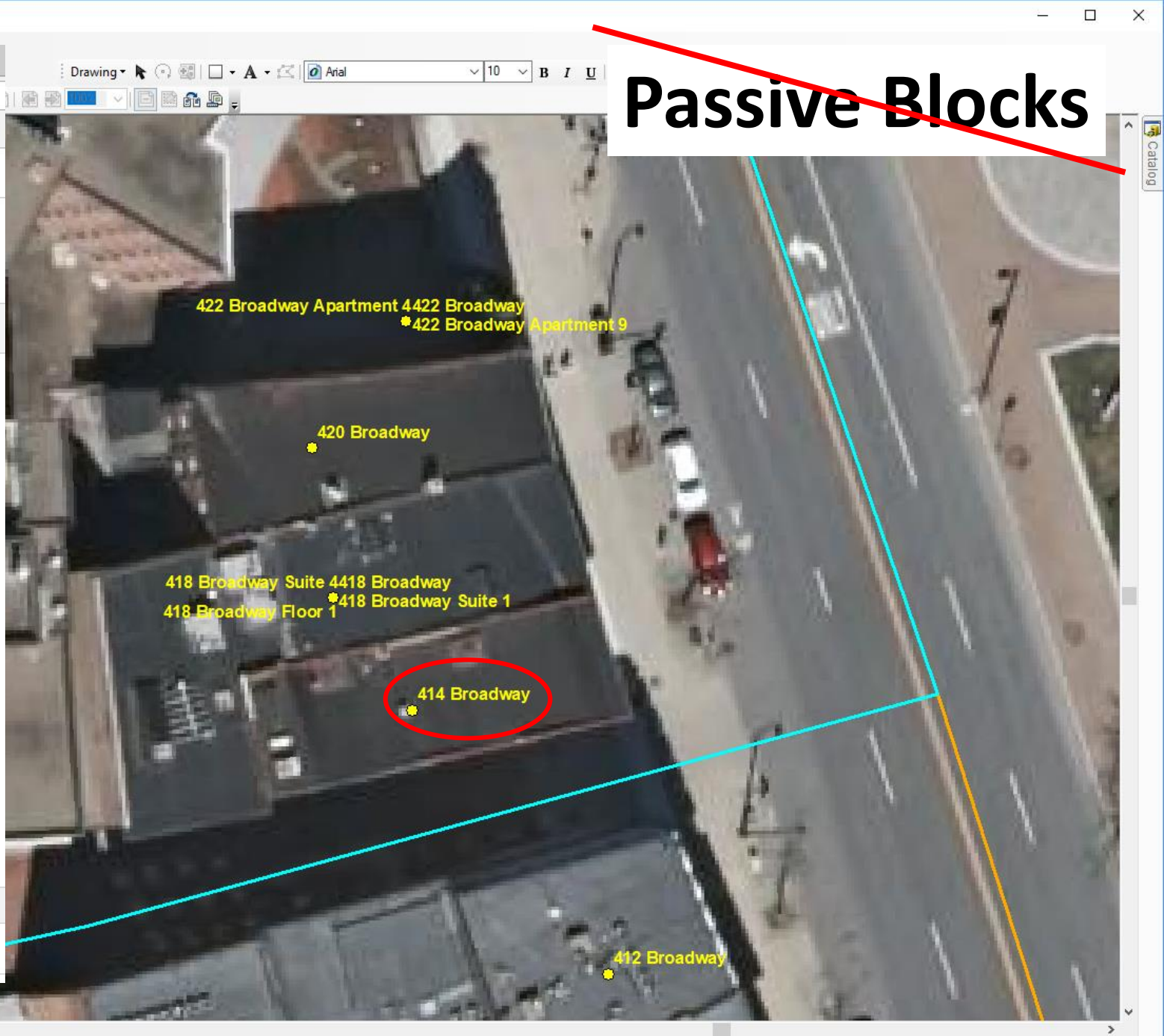
Albany, NY 12207 – **Downtown Albany**

1 Bedroom \$1,250

Home / New York / Albany / 414 Broadway



Beds	Baths	Rent	Deposit	Sq Ft
1 Bedroom	1½ Bathrooms	\$1,250	\$1,250	1,450 Sq Ft



## Goal: Adding valid residential addresses to the Census Bureau's Master Address File (MAF)

### Address Sources Used



- NYS Department of Motor Vehicles
- Utilities
- County Real Property Tax Services & local gov't assessment data
- Street and Address Maintenance (SAM) Program
  - GeoCoder

### Process



- Identified addresses that matched to the MAF, those that matched were removed from further analysis
- Evaluated the remaining addresses as potential adds

# Techniques for Identifying Addresses that Matched MAF

## Distance Analysis: Addresses in close proximity - matched

For example: 10 Toyland St and 10 Tland St, when geocoded had identical or very similar latitude/longitude coordinates.

## Similarity Addresses:

For example: 12 Wonderland St Vs. 12 Wunderland St

## Address Standardization: Used Regular Expressions to equate variations in addresses

For example: County Highway | County Road | County Route | Co Hwy | Route

## Identified patterns of mismatches and employed hands on techniques to verify new address additions

For example: Apartment complex name Vs. Street name used for an address.



# Sullivan County Submitted

1,836

Adds

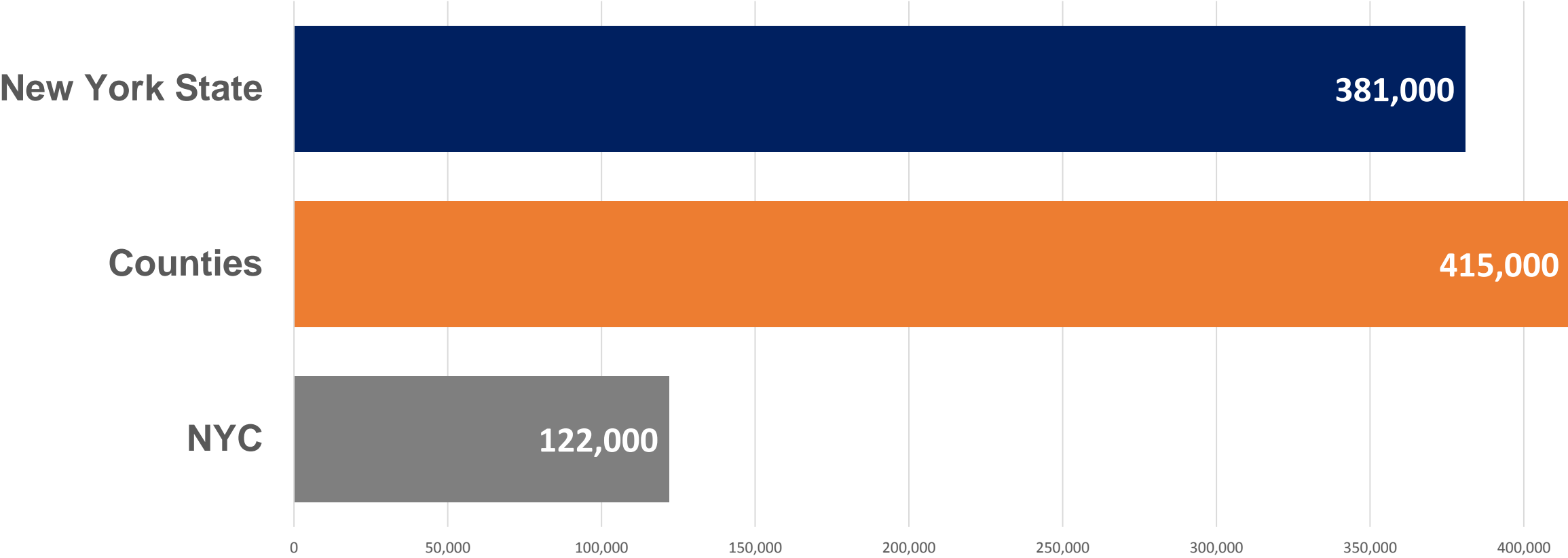
1,201

Changes

1,206

Deletes

# LUCA Submission Statistics: Additions & Corrections



Total 918,000



# LUCA Appeals Process

- Established via **Census Address List Improvement Act of 1994**
- **July/August 2019** - Census Bureau will provide feedback materials based on address additions, deletions and changes requested by 2020 LUCA participants
- **Feedback** will document which address additions and updates were accepted and rejected by the Census Bureau.



# Appeals Process

- Participants must submit **documentation that substantiates the existence and location** of each appealed address
- Participants have **45 days to submit appeals**
- Office of Management and Budget Staff have **15 days to respond** and the **resulting decision will be final**

