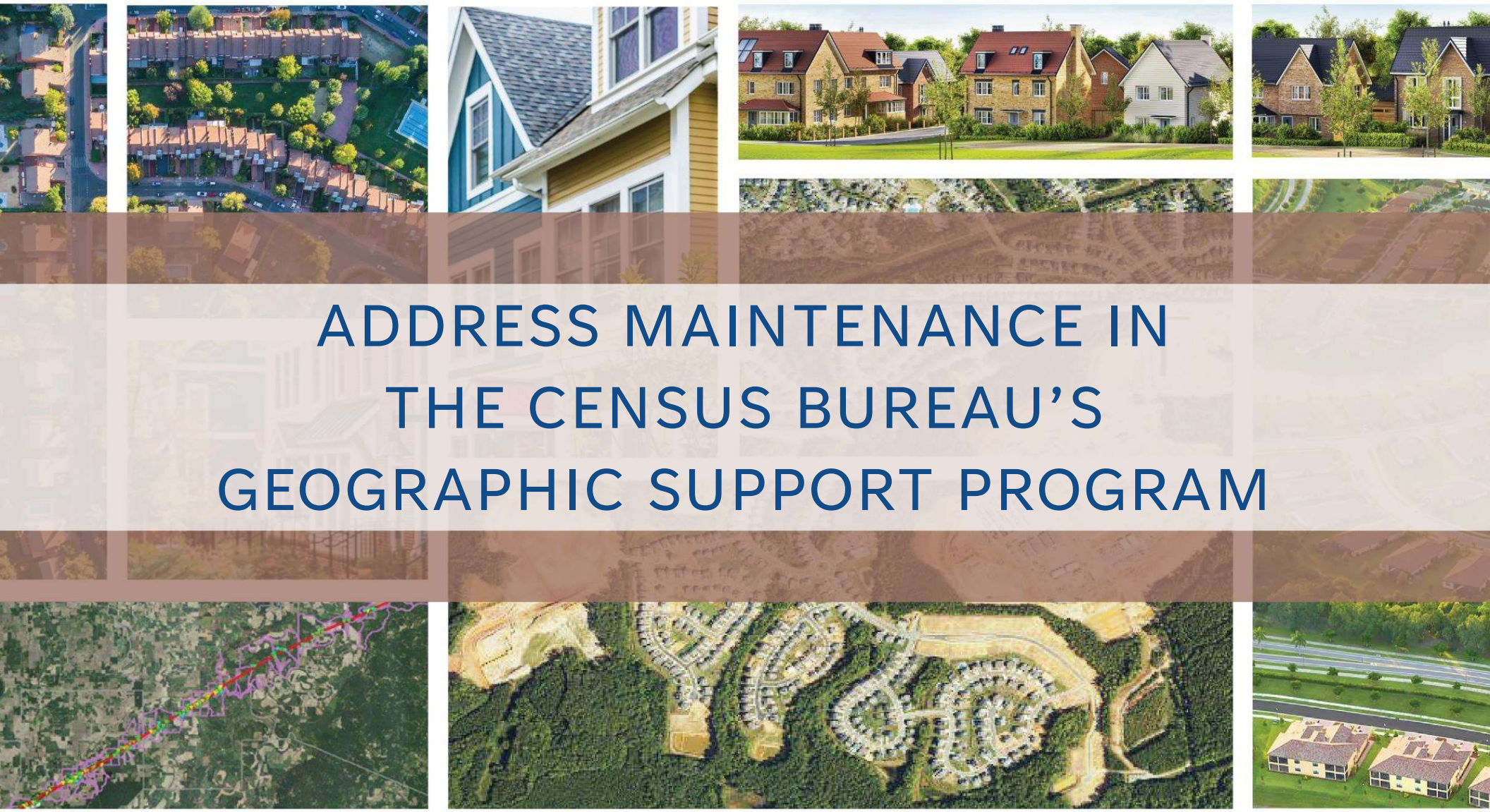
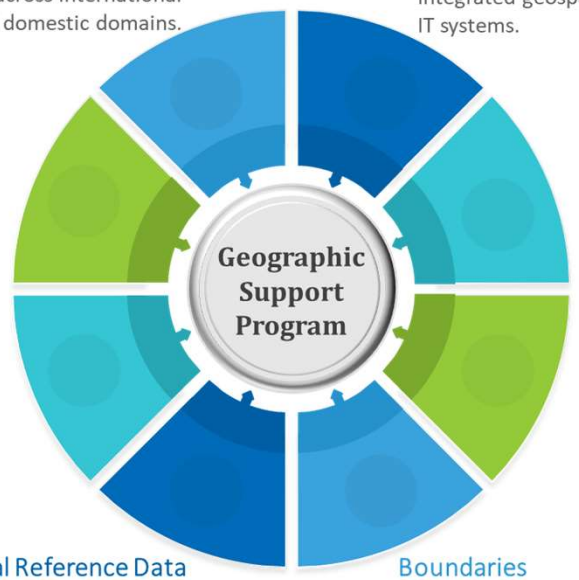


ADDRESS MAINTENANCE IN THE CENSUS BUREAU'S GEOGRAPHIC SUPPORT PROGRAM

CENSUS BUREAU GEOGRAPHIC SUPPORT PROGRAM OVERVIEW



Expertise/Leadership
Expertise shared across international and domestic domains.

MAF/TIGER System
Integrated geospatial IT systems.

Partnerships
Outreach, collaboration, and data sharing.

Addresses
Addresses for the nation, geocoding services.

Frames
Established infrastructure and methodology to link enterprise frames.

Features
Roads for the nation, product integration.

Geospatial Reference Data
Sourced from federal, tribal, state, and local providers.

Boundaries
Government unit boundaries for the nation, statistical areas.

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THE MAF/TIGER SYSTEM TODAY

GEOSPATIAL INFORMATION IN OUR MAF/TIGER SYSTEM INCLUDES...

- OVER 14 MILLION UNIQUE GEOGRAPHIC AREAS, INCLUDING LEGAL, ADMINISTRATIVE, AND STATISTICAL AREAS.
- LEGAL BOUNDARIES FOR APPROXIMATELY 40,000 UNITS OF GOVERNMENT.
- APPROXIMATELY 7 MILLION MILES OF ROADS.
- ADDRESSES FOR MORE THAN 145.4 MILLION HOUSING UNITS.
- STRUCTURE POINTS FOR APPROXIMATELY 94% OF THOSE HOUSING UNITS.

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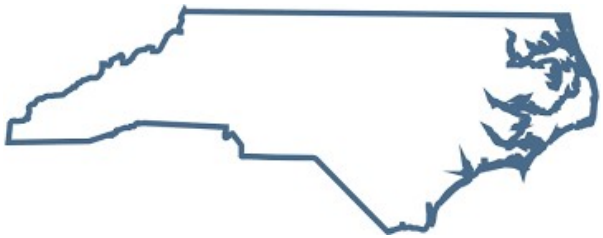
THE MAF/TIGER SYSTEM TODAY

Geospatial information in our MAF/TIGER System for North Carolina includes...



- Over 248,600 unique geographic areas, including legal, administrative, and statistical areas.
- Legal boundaries for 1,694 units of government.
- Approximately 294,000 thousand miles of roads.
- Addresses for more than 4.8 million housing units.
- Structure points for approximately 95% of those housing units.

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ADDRESS MAINTENANCE LEADING UP TO 2020

From 2010-2020

9.3 million new addresses were added to the MAF from the DSF.

128.1 million DSF residential and deliverable addresses sent to the 2020 Census Enumeration Frame as housing units.

- **97.5 percent** of those addresses were enumerated.

From 2013-2018

134.1 million addresses received from partners.

- **106.7 million** addresses met minimum address criteria.
- **106.2 million, or 99.51 percent,** matched to the MAF.
- **1.2 million** addresses geocoded.

From 2015-2019

Clerical staff reviewed more than **13 million blocks** to identify blocks that required follow-up during In-Field Address Canvassing.

- **65 percent** of the nation's addresses were validated using only In-Office Address Canvassing methods.

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DATA SCIENCE AND TECHNOLOGY IN THE GSP

IMAGERY

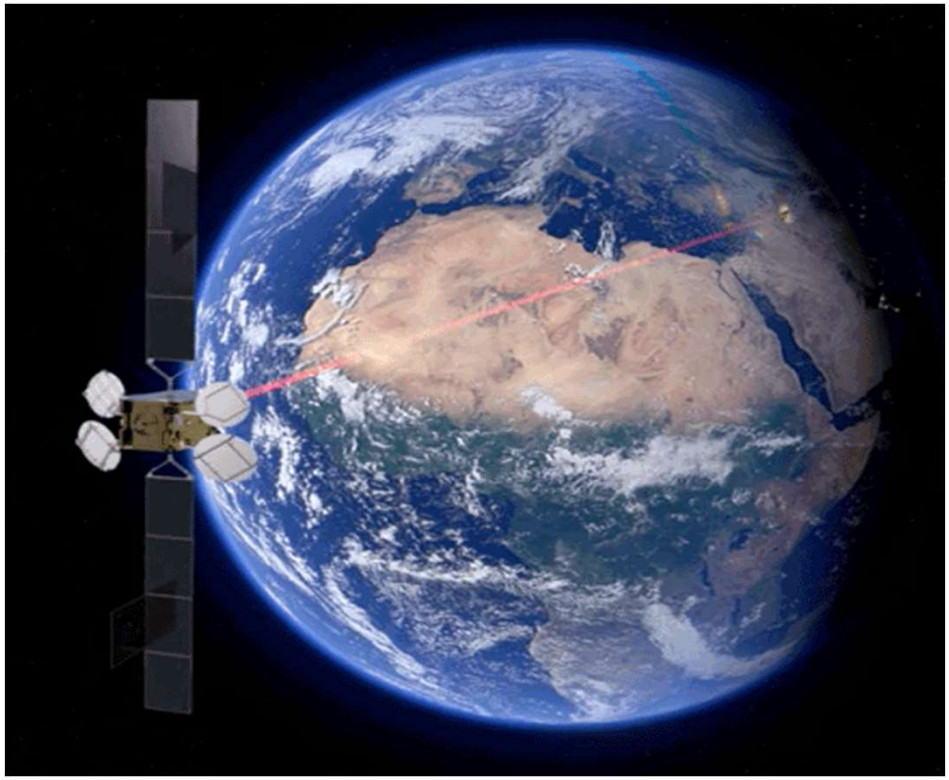
Satellite imagery for the entire nation is now freely available and updated frequently.

PARCELS

Improvements to national parcel datasets have opened access to a critical new address source.

MACHINE LEARNING

Applying Data Science methods such as machine learning to these datasets will allow the Geography Division to rely on automated solutions to improve and maintain the Master Address File.



STRATEGIES FOR MAINTAINING THE MAF/TIGER SYSTEM IN 2024 AND BEYOND

"TRIED AND TRUE"

DELIVERY SEQUENCE FILE (DSF)

PARTNERSHIP FILE ACQUISITION

PARTNERSHIP PROGRAMS

QUALITY AND COVERAGE MEASUREMENT

MODERN, ACCURATE MAF/TIGER SYSTEM

NEW THIS DECADE

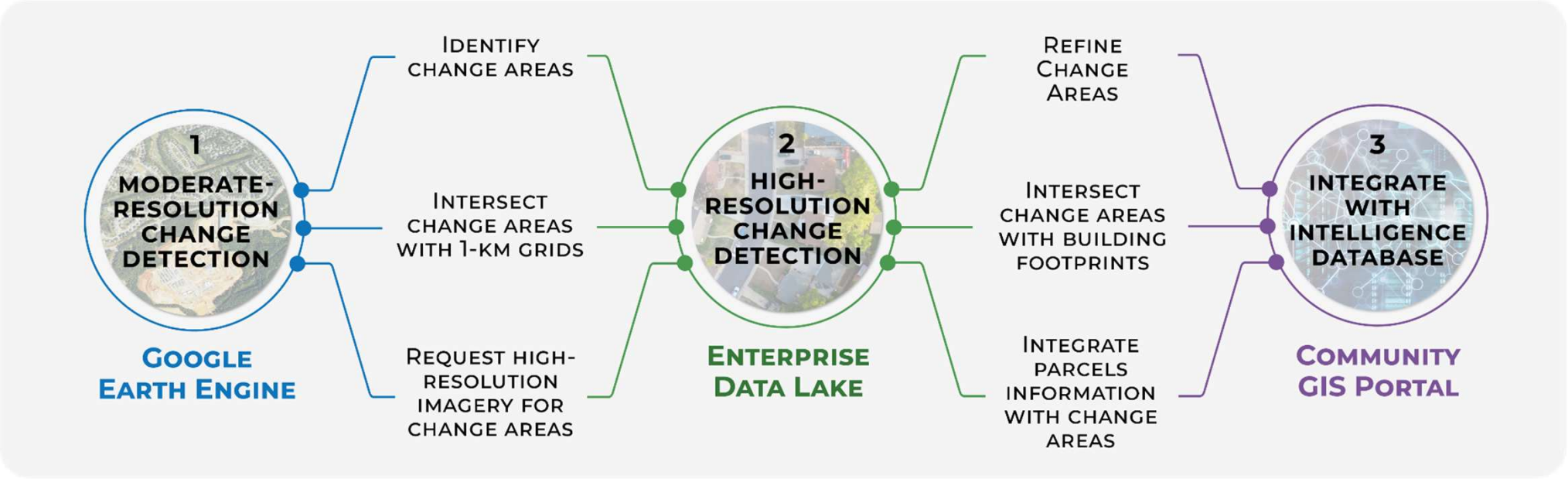
NEW AND ENHANCED DATA SOURCES

AUTOMATED CHANGE DETECTION AND OTHER DATA SCIENCE METHODS

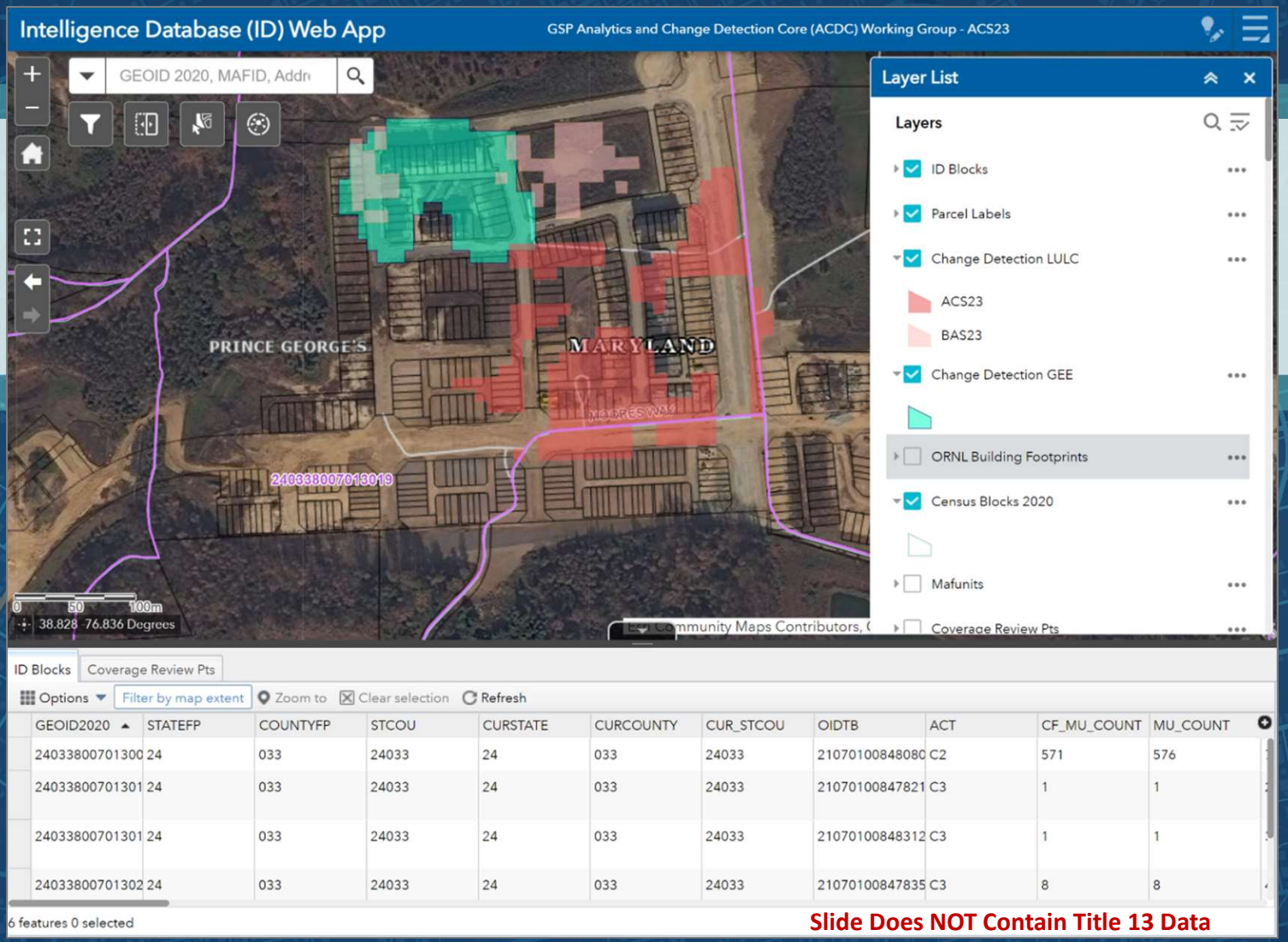
INTELLIGENCE DATABASE

PARCEL-ADDRESS MATCHING

AUTOMATED CHANGE DETECTION



INTELLIGENCE DATABASE (ID)



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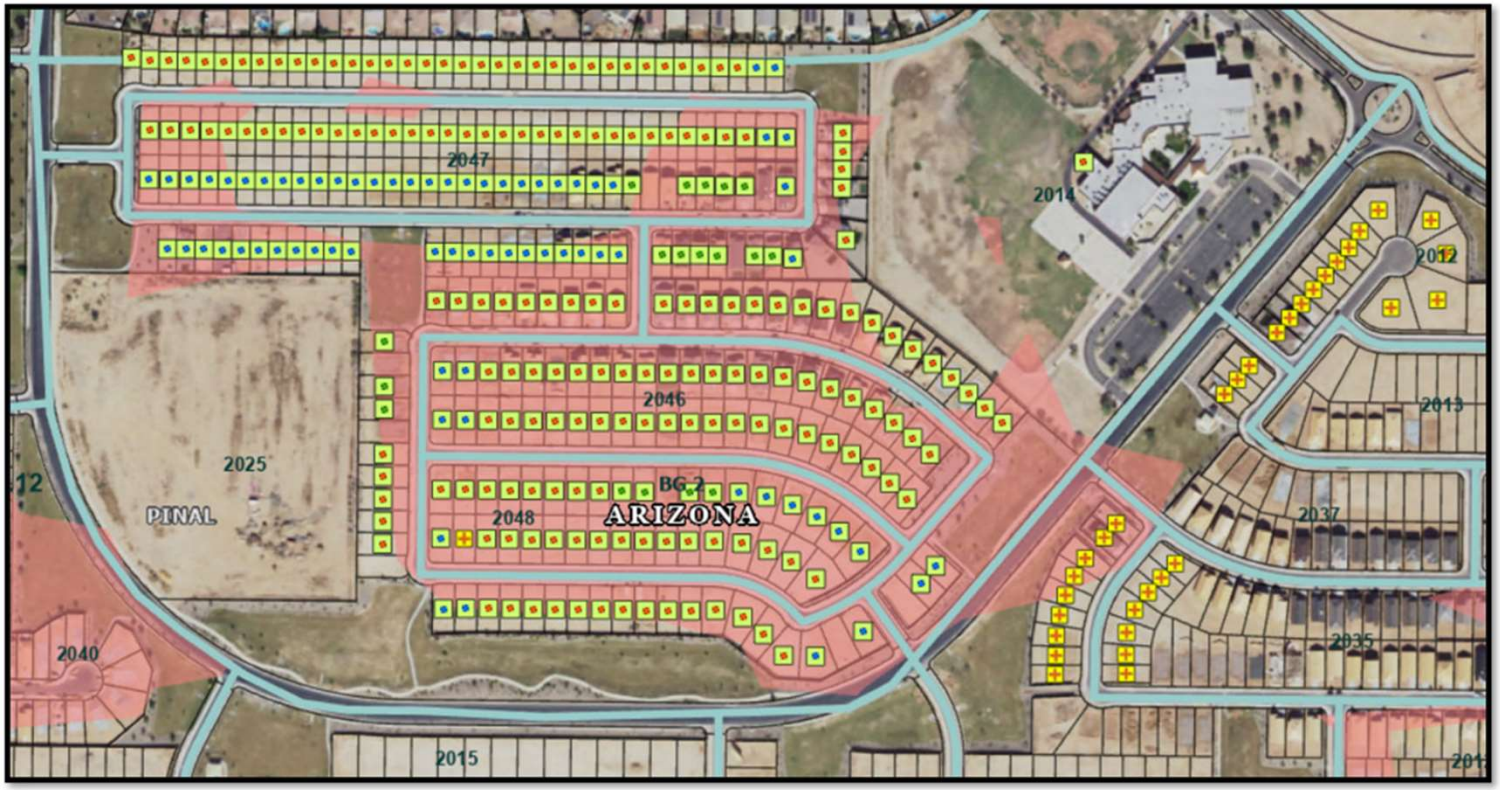
PARCEL MATCHING



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ONGOING MAF/TIGER MAINTENANCE

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ONGOING MAF/TIGER MAINTENANCE

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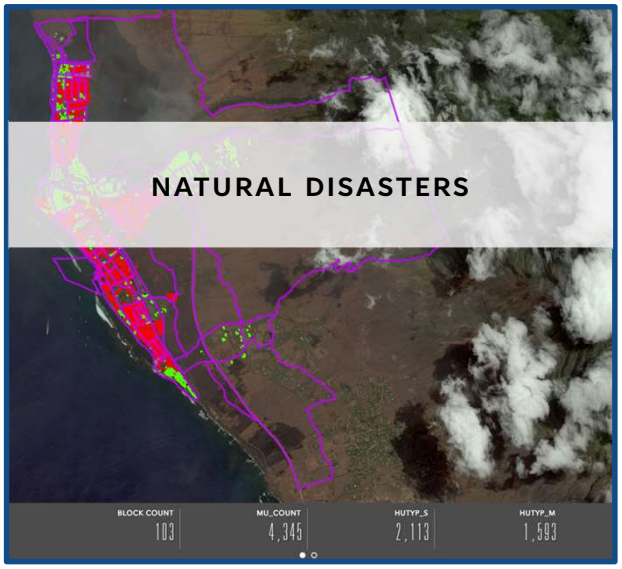
FOCUS ON UNIQUE ADDRESS SITUATIONS



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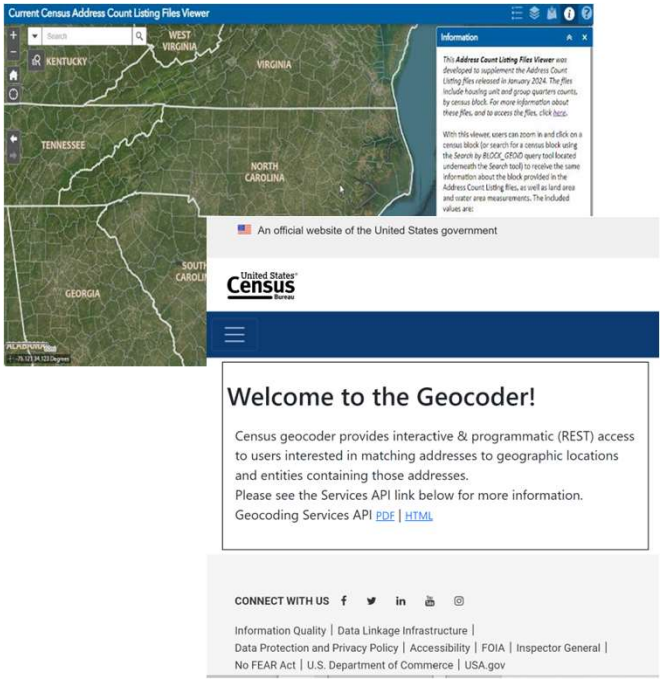
WHAT CAN NORTH CAROLINA DO NOW?
REVIEW YOUR ADDRESS AND SPATIAL DATA INVENTORY

- ✓ Explore our Current Address Count Listing Files and Current Census Address Count Listing Files Viewer and compare your current address counts to ours.

- ✓ Compare your address counts with address counts from the 2020 Address Count Listing Files and the 2020 Address Count Listing Files Viewer to understand how well the Census Bureau is capturing change in your community since the 2020 Census.

- ✓ Use the Census Geocoder to identify the geocode for any address.



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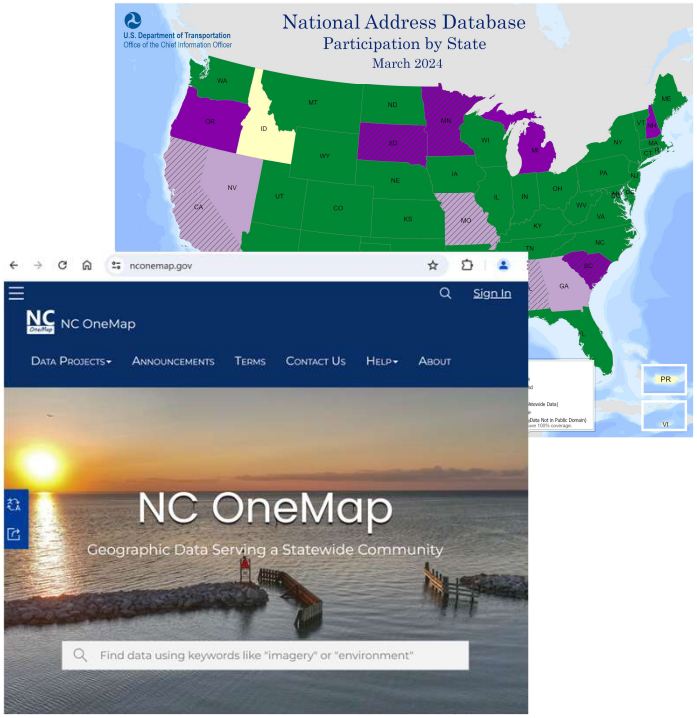
WHAT CAN NORTH CAROLINA DO NOW?
MAINTAIN AND PUBLISH YOUR ADDRESS AND SPATIAL DATA

- ✓Continue to publish your data in the National Address Database (NAD).
- ✓Ensure your jurisdictions are updating parcel data on the jurisdiction websites, and/or through parcel data integrators.
- ✓Ensure online GIS data resources are up to date.



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WHAT CAN NORTH CAROLINA DO NOW?
TALK TO US!

- ✓Help answer our questions about your data when we reach out to you for help.
- ✓Reach out to us with your questions – contact us here geo.geography@census.gov.

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QUESTIONS?

CONTACT INFORMATON

Dan Keefe

Daniel.l.keefe@census.gov

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THANK YOU!