



**Homeland Security
and Emergency Services**

BUILDING INFORMATION AND LAND-USE DATASET (BILD) Draft v3.5 Dataset Review

MitigateNY: Multi-Agency Engagement Meeting

Introduction

This is the **second** of **three final acceptance meetings** for BILD. The final meeting is anticipated to be held in late March.

Meeting 2 Overview

- Availability and Privacy Considerations
- Dataset Inclusion, Attributes, and Format
- BILD Statistics
- Use Cases

How to Download and Other Analyses

Source Url **N/A**

Publisher **AVAIL**

Columns **106**

COLUMN	DESCRIPTION
Year Built <i>(integer)</i>	No Description
# of Parcels <i>(integer)</i>	No Description
Parcel ID <i>(array)</i>	No Description
Property Class <i>(string)</i>	No Description
Municipality Parcel ID <i>(string)</i>	No Description
County Name <i>(string)</i>	No Description
Municipality Name <i>(string)</i>	No Description
Property Classes <i>(string)</i>	No Description
Parcel Address <i>(string)</i>	No Description
County Names <i>(string)</i>	No Description
Municipality Names <i>(string)</i>	No Description
Years Built <i>(string)</i>	No Description
School Name <i>(string)</i>	No Description
Sewer Type <i>(string)</i>	No Description
Water Type <i>(string)</i>	No Description

Versions

VERSION ID	USER	UPLOADED	DOWNLOAD
3.2		01/22/2025, 16:48:24	Download

CSV
GPKG
ESRI Shapefile

BILD Availability

Methods for review

- <https://buildings.mitigateny.org/cenrep/source/1366>
 - Excel (csv)
 - Shapefile
- https://buildings.mitigateny.org/about_bild/draft_bild_v3_5

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BILD Availability

- This dataset is very large, and only available to download for the entire State of New York. Filtered downloads are not supported.
- The data requires sufficient computer hardware and GIS technical skills to open, filter and resave to smaller subsets.

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Datasets included in BILD v3.5

- Daylight Buildings
- NYS ITS Building Footprints
- OpenStreetMap Building Footprints
- Mapbox terrain Digital Elevation Map (DEM)
- NYS Tax Parcels 2023
- Office of Real Property Tax Services (ORPTS)
Assessments Datasets
 - Residential
 - Commercial
 - Commercial Industrial
- HIFLD Datasets (next slide)

HIFLD Open Datasets

Power Plants	EPA Emergency Response (ER) Toxic Substances Control Act (TSCA) Facilities
Public Schools	EPA Resource Conservation and Recovery Act Treatment Storage and Disposal (RCRATSD) Facilities
Aviation Facilities	EPA Superfund Enterprise Management System (SEMS) Sites
Peak Shaving Facilities	Antenna Structure Registration (ASR)
Petroleum Product Terminals	Broadband Radio Service (BRS) and Educational Broadband Service (EBS) Transmitters
Petroleum Refineries	Cellular Towers
POL Terminals	Land Mobile Broadcast Towers
NCUA Insured Credit Unions	Land Mobile Commercial Transmission Towers
Intermodal Freight Facilities Marine Roll-on/Roll-off	Land Mobile Private Transmission Towers
Child Care Centers	Microwave Service Towers
Colleges and Universities	Paging Transmission Towers
Supplemental Colleges	Intermodal Freight Facilities Air-to-Truck
American Red Cross Headquarters	Intermodal Freight Facilities Pipeline Terminals
Federal Emergency Management Agency Recovery Offices	Ferry Terminals
Fire and Emergency Medical Service (EMS) Stations	Dialysis Centers
Local Emergency Operations Center (EOC)	Nursing Homes
State Emergency Operations Centers (EOC)	Urgent Care Facilities
Above Ground LNG Storage Facilities	Veterans Health Administration Medical Facilities
Ethanol Plants	Mobile Home Parks
Food and Drug Administration (FDA) Office Facilities	FDIC Insured Banks
Local Law Enforcement Locations	Private Schools
Ferrous Metal Processing Plants	National Shelter System Facilities
Nonferrous Metal Processing Plants	Alternative Fueling Stations
EPA Emergency Response (ER) Risk Management Plan (RMP) Facilities	General Manufacturing Facilities
EPA Emergency Response (ER) Toxic Release Inventory (TRI) Facilities	

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BILD Attributes

BILD has 100 building characteristic and land use data points for each footprint including replacement value, property class, and many others.

BILD Attributes


ogc_fid (Unique Identifier)	Used As Type
Year Built	Agricultural District Name
# of Parcels	Spatial Year
Parcel ID	Owner Type
Property Class	NYS Agency Name
Municipality Parcel ID	NYS Agency Source
County Name	Building Assessed Value
Municipality Name	Building Full Market Value
Property Classes	Total Assessed Value
Parcel Address	Full Market Value
County Names	Well-Known Boundary Geometry
Municipality Names	Elevation
Years Built	geoid
School Name	Building Type
Sewer Type	Building ID (UBID)
Water Type	ORPTS OGC ID
Utilities	ORPTS View ID
Building Style	ORPTS Site Number
Heat Types	<i>...and more!</i>

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BILD Data Completeness

Missing data should be expected. Data coverage by attribute is not 100%. Even within the ITS Tax parcels dataset, many attributes have less than 100% coverage. For instance, “use_type” only applies to commercial properties.

Use Cases: https://buildings.mitigateny.org/use_cases


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2024 BILD ▾
EXPLORE THE DATA ▾

Methodology Overview

Footprints Data Sources Analysis

Parcel Data Processing

Enriched Buildings Processing

Enrichment Data Source Attributes

METHODOLOGY OVERVIEW

TERMINOLOGY

BILD DATA FORMAT (INPUTS AND OUTPUTS)

NYS Tax Parcels

Footprints Selection

Key Takeaways from Footprints Selection Process

Final BILD Data Format for Current Iteration

Future Considerations

BILD CONFLATION METHODOLOGY

Enriching the Footprints with Attributes from Other Datasets

Assigning Assessed Value to Footprints

METHODOLOGY OVERVIEW

This page provides a high level outline of the process undertaken by AVAIL to develop the Buildings Information and Landuse Dataset.


TERMINOLOGY

POLYGON

ATTRIBUTE

Attributes are the data fields available in the dataset.

COUNTY_NAME	MUNI_NAME
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright
Chautauqua	Arkwright

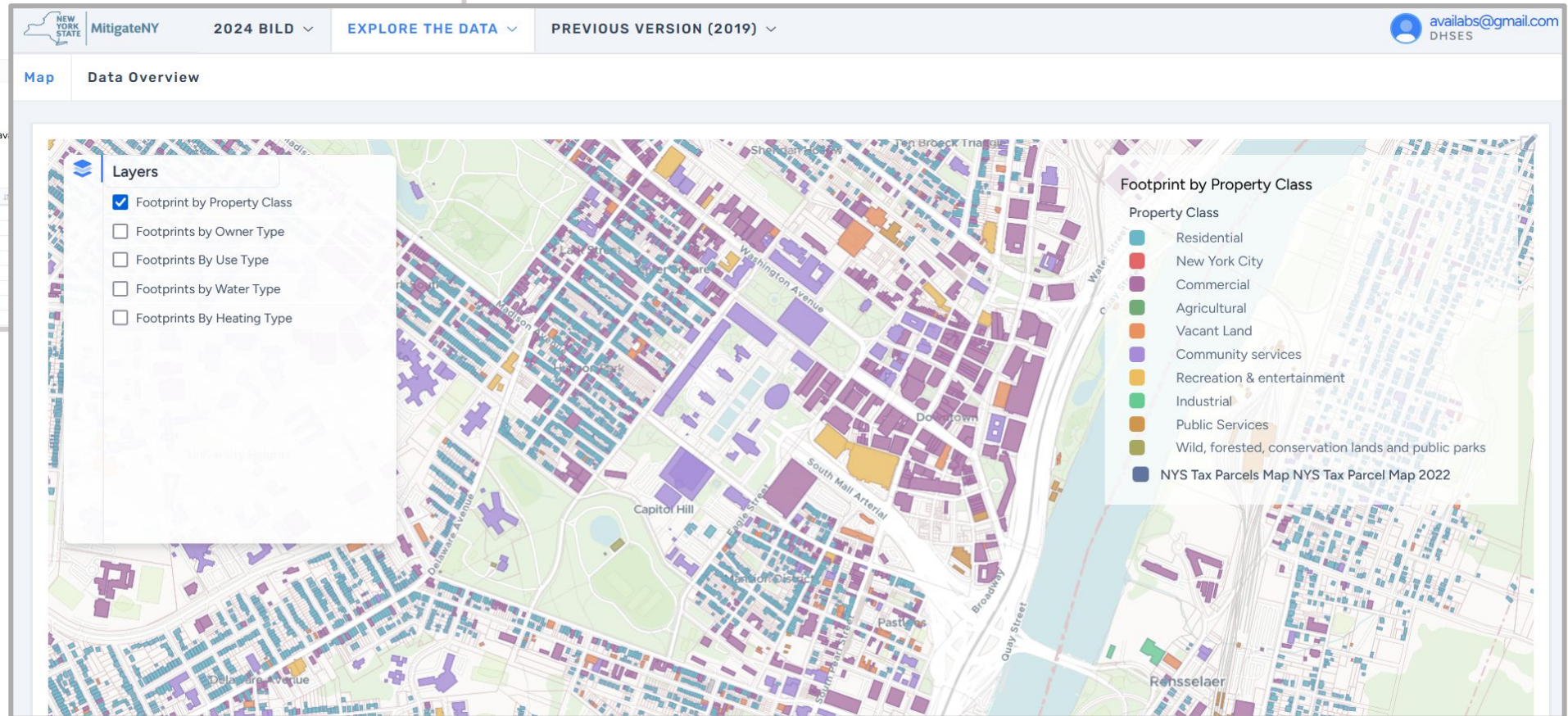

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Map

Data Overview

Layers

☒ Footprint by Property Class
☐ Footprints by Owner Type
☐ Footprints By Use Type
☐ Footprints by Water Type
☐ Footprints By Heating Type



Use Case 1

Locate State-Owned Buildings of Specific Age in a Specific Market

In response to a grant opportunity, conduct a market assessment to determine which state-owned buildings in Utica were built before 1984.

Use Case 2

Devising a Heat Vulnerability Index

Calculate which buildings have central air to determine the percentage of residential buildings with air conditioning at the census tract level for use in devising a Heat Vulnerability Index.

Use Case 3

Identifying Critical Infrastructure in Walton, NY

Identify which buildings in Walton, New York are critical infrastructure, how many and total value.

Conclusion

Feedback

Download and interrogate the BILD Dataset.

Was there a specific use-case that you wanted to see? Reach out to us.

BILD Final Acceptance Final Meeting Late March

Contact Info & Data Access



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**Homeland Security
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