Nationwide US 3D Base Map

High-resolution: selected 60+ major cities, Middle-resolution: CONUS (Contiguous United States)

Off-the-shelf data solution

All data of the Nationwide 3D Base Maps have been processed, verified, void-infilled, and error-corrected to support unmatched short lead time. They are provided in industrial-standard formats so that you can directly adapt them to virtually any professional solution.
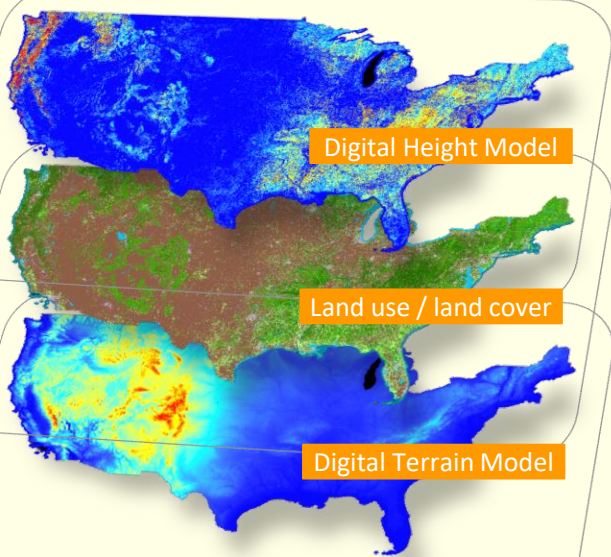
Users

- ✓ Mobile network operators and network equipment vendors
- ✓ Federal/Central Government
- ✓ Local Government (law enforcement, first responders)
- ✓ Utility companies (water/gas/electricity)
- ✓ Railroad operators
- ✓ Smart city planners
- ✓ Insurance related firms
- ✓ Academia (universities, research institutes)

Seamless, uniform, and consistent

Nationwide 3D Base Map has been proven practical and cost-effective through many successful projects thanks to its homogeneity. Our best-in-class manufacturing process chain ensures that you will enjoy reliable high-quality data of a given target area without unwanted gaps and seams.

Typical use cases

- ✓ RF simulation and wireless network design & planning
- ✓ Long distance wireless communication design
- ✓ Large scale disaster mitigation and management
- ✓ Smart city planning, including wide area green space optimization
- ✓ Environmental Simulations
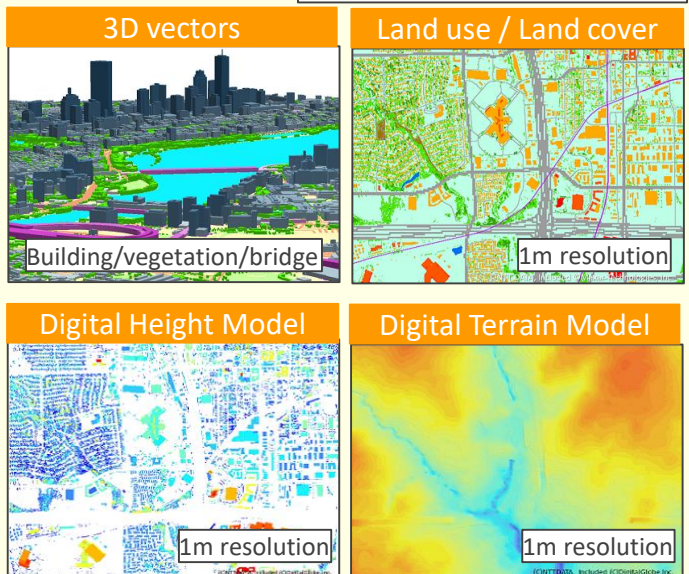- ✓ Flight simulator
- ✓ Line-of-site analysis

■ Middle-resolution 3D map for CONUS

| Entire CONUS | 10m resolution |

Digital Height Model

Land use / land cover

Digital Terrain Model

■ High-resolution 3D map for urban areas

| Selected 60+ major cities in US |

3D vectors
Building/vegetation/bridge

Land use / Land cover
1m resolution

Digital Height Model
1m resolution

Digital Terrain Model
1m resolution

■ Product Specifications

Middle-resolution 3D map for all over CONUS (Contiguous United States)	
Product layer	DHM / DLU / DTM
Resolution	10m
Coverage	CONUS: Contiguous United States
DLU classes	25 classes
Horizontal accuracy	10m RMSE
Vertical accuracy	Approximately 10m RMSE (consistent with DLU)
Vintage	Mainly 2020

High-resolution 3D map for urban areas	
Product layer	3D Vector, DHM / DLU / DTM
Raster resolution	1m
Coverage	See the table above
3D vector layers	Building / vegetation / bridge
DLU classes	25 classes
Horizontal accuracy	2m RMSE
Vertical accuracy	1m - 2m RMSE
Vintage	2019 - 2020

■ Cities that the High-resolution 3D maps are available

#	City	#	City	#	City	#	City
1	Akron, OH	17	Durham, NH	33	Lakeland, FL	49	Portland, ME
2	Allentown/Bethlehem /Easton, PA-NJ	18	Erie, PA	34	Lancaster, PA	50	Reading, PA
3	Anchorage, AK	19	Fort Hood, TX	35	Lansing, MI	51	Sarasota, FL
4	Annapolis, MD	20	Fort Myers, FL	36	Lincoln, NE	52	Savannah, GA
5	Athens, GA	21	Fort Wayne, IN	37	Manchester-Nashua, NH	53	Schenectady, NY
6	Baton, Rouge, LA	22	Fresno, CA	38	McAllen, TX	54	Scranton, PA
7	Binghampton, NY	23	Galveston, TX	39	Melbourne, FL	55	Shreveport, LA
8	Blacksburg, VA	24	Grand Rapids, MI	40	MountPleasant, MI	56	Sioux Falls, SD
9	Blaine, WA	25	Harrisburg, PA	41	Myrtle Beach, SC	57	Springfield, MA
10	Bradenton, FL	26	Harrisonburg, VA	42	New Haven, CT	58	State College, PA
11	Bridgeport, CT	27	Huntsville, AL	43	New Bedford, MA	59	Tallahassee, FL
12	Burlington, VT	28	Ithaca, NY	44	Newburgh, NY	60	Toledo, OH
13	Chattanooga, TN	29	Jackson, MS	45	Oahu, HI	61	Trenton-Princeton, NJ
14	Clemson, SC	30	Kalamazoo, MI	46	Odessa Midland, TX	62	Troy, NY
15	Columbia, SC	31	Kissimmee, FL	47	Pensacola, FL		
16	Dayton, OH	32	Knoxville, TN	48	Point Roberts, WA		