

EarthDefine Announces National Building Map for Building Footprint Data



EarthDefine, a provider of high-resolution spatial data products, has released its [National Building Map](#) product that precisely maps over 137 million building outlines across the contiguous USA. The dataset also includes accurate locations and addresses to support enhanced routing and rooftop-accurate geo-coding for millions of properties across the country.

The [National Building Map](#) product is powered by state-of-the-art deep neural networks. These are a class of artificial intelligence (AI) algorithms that enable accurate extraction of ground features like building footprints from high-resolution aerial imagery across large scales and highly diverse geography. This AI-based approach allows EarthDefine to repeatedly extract building footprints from newer imagery that removes older buildings and

adds newer construction to create a consistently updated snapshot of the built environment in the USA. The building polygon data has an average accuracy of 98% and is updated every three months.

EarthDefine's GIS-ready building footprints will help support better decision making in applications like insurance risk assessment and 911 response.

Besides providing universal addresses and geographic coordinates for all structures, EarthDefine can also extract additional property attributes on demand like roof form, building elevation, eave height, and more through exploiting available Lidar for most regions in the USA.

"Our goal is to create and maintain state/national level building data with a unique and consistent attribute set," said EarthDefine CEO, Vikalpa Jetly. "We are achieving this best-in-class building footprint dataset through applying advancements in AI to high-resolution aerial imagery. By constantly refining our algorithms and applying them to newer imagery every few months, we can provide building location intelligence that will remain current for a range of GIS applications. We will revise and re-map the majority of buildings in the country using aerial imagery flown within the last 12 months."

EarthDefine also has the largest archive of high-resolution [tree canopy](#) and [land cover](#) data for the USA that can be used to geo-enrich the building polygons in unique ways.

For more information, visit www.earthdefine.com/buildings.