Building Footprints

Your organization needs to detect and classify infrastructure. Whether for planning, compliance, or development, you need quick access to current and precise data.

Together, Ecopia and DigitalGlobe have engineered the first high-precision, semi-automated building footprints product by integrating DigitalGlobe’s industry-leading high resolution satellite imagery, Ecopia’s advanced artificial intelligence and the cloud compute power of GBDX.

Features & Benefits

Accuracy

• Built by leveraging the best of aerial and high-resolution satellite imagery, we deliver industry-leading spatial detail.
• Combining algorithmic detection and manual curation, no building is missed. From urban to rural, mountains to lowlands, our extraction process accounts for every structure visible on the ground, with valid geometries for all footprints.
• We expect less than 5% false negatives and less than 5% false positives across representative samples on average.

Currency

• Leveraging Dynamic mosaics to build the building footprints, the data is derived from the most recent, high-resolution DigitalGlobe imagery available.
• Annual and bi-annual updates are possible across the globe, and high priority areas can be monitored even more frequently.

Scale

• Deploying the power and speed of machine learning AI on the world’s largest satellite imagery archive, building footprints can be delivered at the scale you need.
• From individual metros and countries, to entire continents, our building footprints perform at any scale and offer unparalleled global coverage.

Quality

• Ecopia Building Footprints powered by DigitalGlobe are a true professional level dataset. Strict production and quality standards ensure a complete, accurate, and trustworthy dataset that you can use to make confident business decisions.

DigitalGlobe Building Footprints is leading the industry in innovation for intelligence on the built environment with precision at any scale.
**Availability**
- Entire United State is pre-produced and available off the shelf for immediate consumption
- Strategic build-out of other high-value geographies in progress
- Your AOI available on-demand, Footprints are built to order for anywhere on the globe
- For a quote contact your DigitalGlobe sales representative or partner
- With a shapefile and AOI we will deliver cost estimates within 5 business days

**Specifications**

<table>
<thead>
<tr>
<th>Measure name</th>
<th>Threshold</th>
<th>Sample/All polygons</th>
</tr>
</thead>
<tbody>
<tr>
<td>False negatives</td>
<td>&lt;=5%</td>
<td>Sample</td>
</tr>
<tr>
<td>False Positives</td>
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<td>Sample</td>
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<tr>
<td>Valid interpretation</td>
<td>&gt;=95%</td>
<td>Sample</td>
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<tr>
<td>Valid Geometry</td>
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</tr>
<tr>
<td>Minimum area</td>
<td>100%</td>
<td>All polygons</td>
</tr>
</tbody>
</table>

**Deliverables**
Building Footprints will be delivered in a Shapefile vector format with polygon geometry

**Bundle with Dynamic**
For customers who require currency, resolution, and accuracy for true precision mapping, DigitalGlobe offers the ability to bundle with Dynamic mosaics for the highest level of visual detail.
Leveraging rapid processing in the cloud and new innovations in image processing, Dynamic offers a seamless, tonally balanced high resolution mosaic as the foundation for very accurate footprints and any other analytics you may require.

Please contact your sales representative for more details.