

# Building Heights

Get the measure of your world

Building Heights is a value-added height attribute database that integrates with Ordnance Survey MasterMap™ and other building outline datasets. The height information is derived from the most current LiDAR surveys, high-resolution aerial photography (using very accurate photogrammetric techniques) or other height data sources e.g. radar.

Building Heights provides comprehensive height information and a unique ID of every individual building block. The height data is supplied as three values for each building; ground height above sea level, top of the building above sea level and the building height above local ground level. The data is available as an attribute to existing building references (TOID, Address Point etc) in standard GIS and tabular formats. This valuable information source can be used, in conjunction with vector base mapping, to create a precise representation of the three-dimensional built environment.

Building Heights is a highly accurate database and can be utilised in a wide range of height sensitive applications, from urban development to telecommunications planning.

Building Heights integrates with the Cities Revealed product portfolio including Land Use, Building Class and Thermal Mapping to provide a more comprehensive understanding of the world.

## Case Study Birmingham City Council

### Urban Development

Tall buildings have a significant role to play in sustaining and enhancing Birmingham's renaissance. Birmingham City Council encourages well-placed, high quality tall buildings that would be an asset to the city and would help to create a distinctive city centre skyline. Building Heights, for urban planning, produces a highly accurate and realistic 3D model of Birmingham and leads to more informed decision-making.

*"Building Heights helps us to efficiently and effectively plan how proposed buildings will look and fit into their surroundings. Gathering this information would prove to be a highly resource intensive and expensive task for the council to undertake on their own."* Nick Tringham, GIS Manager, Planning Services, Birmingham City Council



## Features

- Three individual height values for each building block; top of building above sea level, base of building above sea level and height of building above local ground level
- Accurate to + / - 0.5m with 95% confidence limits\*
- Geographically enabled and available in standard industry formats
- Compatible with Ordnance Survey MasterMap™ and other building outline datasets
- Supplied as attribute data to building references such as TOIDs or addresses
- Data can be provided as a point database with each point representing the seed point of a building
- Principally derived from Cities Revealed Modern aerial imagery or LiDAR surveys

\*Accuracy levels vary across external height data sources

## Benefits

**Building Heights** provides a highly detailed picture of the urban building infrastructure, enabling informed decision making with a high level of confidence.

This flexible data product offers options to colour-code buildings by height value making it easy to query.

**Building Heights** provides highly consistent and comprehensive data over large areas enabling robust analysis for reliable results.

Visualising a realistic and accurate urban landscape in 3D improves and enhances communication and understanding.

**Building Heights** reduces the need for site visits, thus improving cost savings and staff efficiency.

## Applications

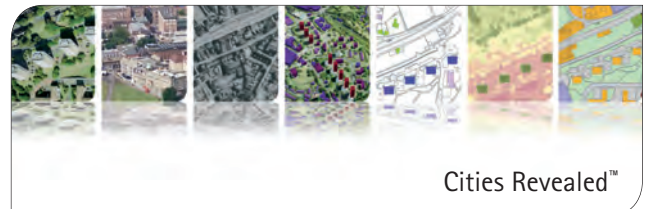
**Building Heights** can be utilised in many applications, a few of which are listed below.

- Telecommunication network planning
- Property management
- CCTV location planning
- Noise pollution modelling
- Air pollution analysis
- GPS positioning
- Security risk assessment
- Flight path modelling
- Architectural visualisation
- Marketing and promotion
- Insurance risk assessment
- Flight simulators and gaming
- Internet virtual reality simulations for public consultation processes
- Planning control
- Emergency planning



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