# **OSNI ORTHOPHOTOGRAPHY**

# What is Orthophotography?

Orthophotography is high quality georeferenced digital 3 band aerial photography. Orthophotographs are scale-accurate raster images that offer a detailed bird's-eye view of the landscape. Any distortions caused by the earth's surface or aircraft movement have been removed by a process of orthorectification to ensure the images are accurate. Photographs are taken in optimal weather conditions to provide the best possible images.

#### PRODUCT INFORMATION

- Orthophotography capture began in March 2003
- Orthophotographs are available in versions (full coverage of NI) up to 2014; they are supplied by year from 2013 (only coverage for areas flown that year)
- Each pixel represents a real-world distance of 10cm (2022 onwards), 16cm (2012-2021) for digital and 25cm (2003-2012) for analogue imagery
- Geo-referenced: Irish Grid co-ordinates can be found for any point on the map using GI software and can be used with other OSNI mapping and address data

#### **Key Features:**

- Consists of three colour bands: Red, Green and Blue
- Birds-eye view of topography of the land
- Natural and man-made features

#### **TECHNICAL SPECIFICATION**

Format – JPG, ECW

Supply - Digital

Availability - Tile

Tile Size - 2.4Km x 1.6Km

**Coverage** – 3971 tiles covering Northern Ireland

**Update Frequency** – 3 year cycle

**Resolution** – 10cm pixel size (2022 onwards), 16cm pixel size (2012-2021)

Maximum file size – 85MB JPG, 173MB ECW

**Coordinate Reference System** – TM75 Irish National Grid

**Accuracy Statement** – Orthophotography has a Root Mean Square Error (RMSE) of 0.262m in plan, based on a sample of 3,664 test points





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### **APPLICATIONS**

- Ideal background mapping for GIS
- Planning identify development/change in the land
- Environmental analysis/assessment
- Development and land use planning
- Watershed analysis
- Civil engineering
- Engineering design
- Asset management
- Municipal and government maps
- Right-of-way mapping
- Public and private land development
- Land-use identification

## **Product Enquires and Feedback**

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