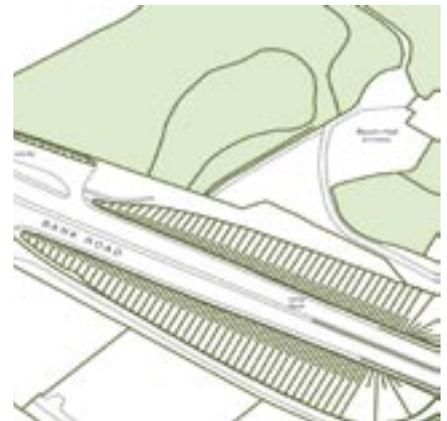


What is Large-scale Vector?

Large-scale Vector is produced from OSNI's large-scale digital database and is the most widely used OSNI product. It contains 17,335 individual tiles, each based on the original large-scale maps of Northern Ireland surveyed at either 1:1250 or 1:2500 scales. OSNI's Large-scale Vector product contains 190 feature types or levels, known as attributes.

Vector mapping is a digital representation of topographic map features with attributed points, lines and polygons.



Key Features

Complete coverage of Northern Ireland, with rural areas surveyed at 1:2500 scale and built up urban areas surveyed at a more detailed scale of 1:1250.

Contains height information including spot heights and bench marks. All heights are above mean sea level at Belfast.

The rich topographical data model and structure allows interactive access to information on features and makes Large-scale Vector suitable for a wide range of spatial queries.

Other vector, raster and address data, including user's own datasets, can be combined to increase functionality eg. vector mapping can be overlaid with orthophotography using suitable software.

Projection consistent with other OSNI mapping data.

All data fixed on the Irish Grid and capable of transformation to other reference systems.

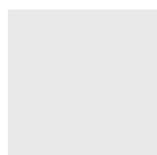
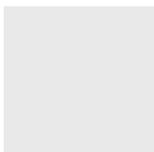
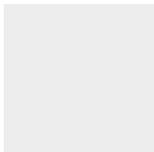
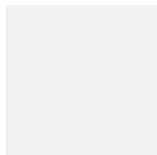
Technical Information

- ◆ Vector data format
- ◆ Represents the real world in an organised and consistent way, according to a logical series of rules
- ◆ Every tile is edge-matched across the whole country, enabling the build up of a seamless coverage
- ◆ Information can be stored for each individual piece of geometry, enabling links to users own data
- ◆ Scale free, can be viewed at a range of zoom scales without any loss of clarity
- ◆ Available in a range of data formats: - NTF, DXF and DWG
- ◆ Detail is being constantly updated by OSNI
- ◆ Typical file size 1mb

Large-scale Vector



Large-scale Vector Data



Applications

- ◆ Spatial queries
- ◆ Geo-demographic analysis
- ◆ Distance and area measurement
- ◆ Property conveyancing
- ◆ Planning and resource management
- ◆ Land registration
- ◆ Generation of paper products and bespoke cartographic representation

Large-scale Vector in Action

OSNI Large-scale data plays a major role in the Department of Agriculture and Rural Development's (DARD) hi-tech Nutrient Management Project named 'VISION'. Undertaken by Science Service, this project supports DARD's objective of developing environmentally responsible farming to improve water quality.

One key aspect of this is nutrient management planning to maximise the nutrient supply of on-farm organic fertilisers and minimise the input of manufactured fertilisers. Using OSNI Large-scale data in ArcGIS, each field has been polygonised and a unique reference ID created. This field ID is then displayed in a data table to form a 'Farm Information System.' Buffer zones can be created round water features and an attached glossary shows which fields are suitable, or not, for spreading with farm waste, and when spreading can be carried out.

By representing this information spatially, the results have helped DARD with decision making processes and have helped to increase efficiency.

Contact us

Ordnance Survey of Northern Ireland,
Colby House, Stranmillis Court,
Malone Lower, Belfast, BT9 5BJ

Telephone 028 9025 5755
Email osni@osni.gov.uk
www.osni.gov.uk



Department of
**Culture, Arts
and Leisure**
www.dcalni.gov.uk