and Generalisation

Ordnance Survey Ireland’s future direction in medium & small scale Product generalisation from large scale data

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Extraction Process (current)

PRIME1

Large scale

10K DATABASE

Place Maps

MERCATOR
Publishing System

Ireland 210

Discovery (50k)
& 25k

3RD Party DATA

Dublin 15k

Contract

Town 10k

Contract

Town

Dublin
What is

• Real World Object Oriented Model
• Combining four source databases
  • Prime (large scale data); Boundary; Address & 1:10k
• Seamless
• Unique ID (GUID)
• Based of Skin of the Earth concept
  • Artificial; Exposed; Vegetation; Water & Way
• Superimposed objects sit on SoE
  • Buildings; Structures; Fences(Divisions); Rail
• Sites; Locales; Named Ways & Water
Skin of the Earth

Prime: Original
Prime2: Artificial
Prime2: Exposed
Prime2: Vegetation
Prime2: Water
Prime2: Way
Prime2 Skin of the Earth
Prime2 Superimposed

Building
Divisions
Bridges
Tunnels
Culverts
Embankments

Street Furniture
Pylons
Masts
Prime2 Way Centrelines

WAY GDF1:
1 to 1 relationship with WAY polygon segment

WAY GDF2:
Same as GDF1 except at roundabouts and dual carriageways
Products to be produced from Prime2

Standard large scale products
1:1000
Products to be produced from Prime2

Standard large scale product
1:2500 & 1:5000
Products to be produced from Prime2

Town Maps: 1:10000
Products to be produced from Prime2

Street Guide

1:15,000
Products to be produced from Prime2

Discovery Series
1:50,000
Products to be produced from Prime2

Road Atlas
1:210,000
Products to be produced from Prime2

Driving Map of Ireland
1:450,000
Proposed PASSUS architecture
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First Steps

Produce a Core DLM database from Prime2 production database:
- Object lifecycle metadata
- Property lifecycle metadata
- Product lifecycle metadata

Produce a 3m resolution DLM by filtration, aggregation and generalisation from Core DLM
Town plan test

From Prime2
Thank You

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