ICA

Barcelona

Generalisation and MRDB
• Dataflows

• Datamodel and Information model

• Challenges
GST Overall Topographic data flow

GST
Name and Boundary’s

GST
Supplementary Topography

GST and Municipal Topography

GeoDB
100
50
10
GeoDB database model
GeoDB Information model
Route, Road Name, Road and Ferry line

class Domain Objects

Ferry Line 10
+ Location :Geometry

Road Centerline 10
+ Location :Geometry

Route
+ Routenumber :char

Road Centerline 50
+ Location :Geometry

Road Name
+ Name :char

Ferry Line 50
+ Location :Geometry

Ferry Line 100
+ Location :Geometry

Road Centerline 100
+ Location :Geometry
Model effect on Road generalization
GST generalisation data flow

Oracle

Mapcheck

FME

UFO

1Spatial

Gothic

Generalisation

Lamps2

Clarity
GST update data flow

Oracle → Mapcheck → FME → Mapcheck → UFO

change analysis

Manuel update
Updating – change analysis

• 8 most important featureclasses selected for update

• All updates in a given period (attributes and geometries)

• ”Qualified changes” based on generalization rules and geospatial match

<table>
<thead>
<tr>
<th>Featureclass</th>
<th>Changes in GeoDB00</th>
<th>Qualified changes to GeoDB50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building</td>
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<td>Habour</td>
<td>52</td>
<td>25</td>
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</table>
Updating

2010

full generalisation

2013

full generalisation
GeoDB production flow - overview

GeoDB production flow diagram showing the process of generalization and text placement leading to GeoDB names and multiscale webmap products.
Time line from data collection to map production

Jan.-Apr. 2008
Aereal Photo

May-Oct. 2008
Photogrammetric production

Jan. 2009
Stored in FOT2007 Q.A.

Apr. 2009
Stored in GeoDB

imported into Gothic Db

June 2009

Production of M718-Map Sheets

Feb. 2010
Stored in GeoDB50

Generalisation process GeoDB50

June to Jan. 2010

Mar. – Nov. 2011
Production of M6113-Map Sheets

Feb. 2011
Stored in GeoDB100

Generalisation process GeoDB100

Aug. 2010 to Jan. 2011
Ideas of at to be workflow