GIS at scale: Making sense of a diverse organisation

By Developing Bespoke Web Mapping Solutions
Who are we?
## Challenges

<table>
<thead>
<tr>
<th>Technical</th>
<th>Organisational</th>
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<tbody>
<tr>
<td>Disparate Systems &amp; Networks</td>
<td>Limited profile for GIS</td>
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<td>Data Format Inconsistency</td>
<td>Barriers to Engagement across the Group</td>
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<td>Reference Number Duplication/Re-Use</td>
<td>Association with Static Map production</td>
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<td>Missing or Poor Positional Data</td>
<td>What is GIS <em>for</em> at Places for People?</td>
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<tr>
<td>Resource &amp; Expertise within ITS</td>
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<tr>
<td>Software Capabilities</td>
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<td>System Performance</td>
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<td>External &amp; Mobile Access</td>
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Strategy - Limited Bespoke Dynamic Maps

<table>
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<tr>
<th>Benefits</th>
<th>Costs</th>
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<tr>
<td>System Performance at Scale</td>
<td>Development time</td>
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<td>Development/Prototype Flexibility</td>
<td>Maintenance time</td>
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<td>Security of Confidential Data Sets</td>
<td>Limited Crossover Analysis</td>
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<td>Focused solutions</td>
<td>Greater competition for Resource (Static &amp; Dynamic Map requests)</td>
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<td>User friendly solutions</td>
<td>Potential demand for near-duplicate solutions</td>
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<td>Self Service (fewer Static Map requests)</td>
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Bespoke Map Demonstration

- Executive Stock Map – Scalable Layers & Links to other maps/reports
  - Uses automatic scaling of layers
  - Easy to use
  - Quick to load (compared to handling large datasets at )
  - Uses Pie charts and if statement labelling to show extra information
  - Can see Property level data
  - Links to other reports/maps to provide extra information.
Housing Association Comparison map/report

- Uses HCA/ARC data held in GIS database
- User can select multiple companies
- Shows tabular comparison to group regulated stock by local authority
- Table can then be published to web map (replacing existing layers)
- Shows common operational areas and outliers (potential for stock rationalisation)
Neighbourhood Dynamic map (integrating GIS to Existing Dashboard)

- Enhancement to existing Dashboard
- Stock aggregated by Mastermap TOID
- Provides more detailed analysis to look for spatial trends
- Data exportable for further analysis
- Scripted updates of data once a week using Oracle Spatial
- Contains a number of performance indicators
Other Solutions

Web mapping Portal (Beta site)
- SharePoint Based (potential for more tailored user interface).

Group Investment & Land Opportunities Dynamic Map
- Uses data from an external system
- User creates new records and inputs coordinates
- Map automatically updated when source data amended.

Spatial Validation Tools (Reports based on Spatial interactions)
- Group Data - Neighbourhood & Estate Validation Tools (different systems)
- External Data – Flood, Heritage and Land Registry Datasets

Tree Survey Solution (Report It) & National Tree Map
- Maps accessible externally
- Looking at report it to capture point data
Future

• Expanding GIS usage into other parts of the business
• Look into embedding maps
• Enhancements to existing web maps
• Enhanced Spatial Validation reports
• Further automation (scripting/Spatial analysis)
• External Customer Access & embedded maps.
Any questions or ideas?