

Inner Melbourne Action Plan

Briefing Paper

IMAP Geographic Information System (GIS) Project

Purpose

1. To provide a web based GIS solution accessible to all IMAP councils and restricted access to the public. The GIS will provide a repository for ViCMAP property, planning and transport data across the IMAP region and all resultant GIS data produced from the IMAP projects.
2. The system will be hosted and maintained off site ensuring that no resources are required by any of the councils. The system can be used as a strategic tool when planning and analysing projects across the entire IMAP region

Background

3. Because a number of IMAP projects involve the capture, analysis and resultant output of GIS data (e.g. open space and trails network, bicycle network, housing social infrastructure mapping, wayfinding signs network) it is of benefit to IMAP councils to have a single repository, where GIS data can be sorted and made accessible.
4. DSE have established a "Cookie" of the IMAP Area on Datamap which allows Councils to download base data (i.e. Zoning, Property, Transport data) for the entire IMAP area (including the Stonnington and Maribyrnong LGA).
5. The collation of GIS data from the IMAP councils has been a challenge at times. The implementation of an IMAP GIS will allow councils to see what data is available, which would reduce the double handling when wanting to access base GIS data across the IMAP Region for specific projects.
6. The GIS can be used as a strategic tool when looking at information across the entire IMAP region, and provide a visual means of viewing the progression/outcomes for some IMAP projects.

Discussion

7. The project has been discussed with all IMAP Project Team Leaders who were all in agreeance, subject to the approval/input of their Council's GIS staff.
8. The GIS Coordinators from each of the 4 Councils have been consulted and have provided useful feedback on the quality and upkeep of the information and its ability to be integrated into each Council's own system.
9. As a result of this feedback, a specification has been developed for the Web based GIS – *see Attachment 10a*.
10. A quote has been obtained to implement the GIS system. (Another quote may be required to meet procurement protocols). *Refer Attachment 10b for annual cost*.

Recommendation

11. That the IMAP Implementation Committee:
 - a. **Approves** the development of the IMAP GIS.
 - b. **Resolves** to make provision in the IMAP Three year Implementation Plan to fund the upkeep of the IMAP GIS on an annual basis.

SPECIFICATION - IMAP PUBLIC GIS SOLUTION

Purpose

To provide a web based GIS solution accessible to all IMAP councils and restricted access to the public. The GIS will provide a repository for a range of ViCMap data sets across the IMAP region and all resultant GIS data produced from the IMAP projects. The system will be hosted and maintained off site ensuring that no resources are required by any of the councils. The system can be used as a strategic tool when planning and analysing projects across the entire IMAP region.

System Requirements and Services

The GIS Solution must meet all system requirements, Service and Support outlined in the specifications.

Data

Full unrestricted intellectual property rights of all spatial data produced and contained within the GIS belong to the IMAP councils. All data within the GIS will be accessible by all councils and restricted access provided to the public. (It is at the discretion of councils which data is accessible to the public).

- The VICMAP data sets must be updated on a quarterly basis This data includes:
 - Property – Property boundaries
 - Address – Property addresses (used for searching and street number labels)
 - Planning – Zoning map and overlays *
 - Hydro – Rivers, lakes and other water features
 - Features – Parks (used also for labelling park names)
 - Transport – Road Centre-lines and Train lines and stations

Note: * - Planning data may be required to be updated upon notification of planning scheme amendments of each of the councils. Provide cost for updating individually)

- A provision of 10 IMAP Layers can be added/updated for ongoing projects. (Please provide costing for additional IMAP layer over and above 10)
- All Information for the IMAP GIS will be sourced from a central location to be decided by council. Data will only be updated onto the IMAP GIS with approval by all councils. Data will be supplied to the contractor in either of the following formats
 - Mapinfo TAB files
 - Esri SHP files
 - KML format.
- Councils will have access to downloading any IMAP layers from the GIS (password protected)
- Aerial Photography will be accessible within the GIS. (Google, BingMaps or CIP (as long as councils have an agreement with CIP)
- Meta data maintained for each layer will include the source and currency (date modified).

Hosting and services

IMAP is a consortium of 5 inner Metropolitan councils. It is best suited that the Web based GIS solution is hosted off site (not at any of the IMAP councils). The hosting and services must include

- Implementation of the On-line GIS
- Annual Hosting of the On-line GIS
- Annual support (please refer to Service Level Agreement)

GIS functionality

- Navigation functionality must be provided (zoom in/out, pan)
- Measuring distances\area tools must be available
- Printing –A4 landscape and portrait templates must be available
- Searching on any address within the IMAP region
- Ability for councils to download IMAP data from the Web based GIS

Security, Backups and restore

- 2 levels of Security must be provided for councils and the public. All data accessible to councils only must be password protected.
- Provide monitoring protocols to prevent the hosted GIS Website from being compromised
- Backup procedures must be in place to ensure the latest data is backed up and can be restored.

Service Level Agreement

- Contractor must update IMAP layers within 48 hours of receiving data from IMAP Councils
- The hosting environment must be maintained with the current versions
- System up time must be 99% during business hours



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Quote for IMAP Web GIS

IMAP stakeholders can easily share vital information across councils and to the public with a hosted web GIS. Groundtruth's *Pozi* web GIS enables the sharing of geographic information using an intuitive interface, hosted and monitored on high-performance infrastructure.

The packaged solution includes:

- IMAP-branded web map application
- annual hosting subscription of *Pozi* web GIS
- hosting and updating of 10 IMAP layers
- quarterly updates of Vicmap data, including Property, Planning, Transport, Admin, Features and Hydro data, sourced by Groundtruth directly from DSE
- additional on-demand updates of Vicmap Planning
- technical support for appointed contact
- secure logins for each council to view any password-protected layers
- download of council-supplied data from *Pozi* admin panel by logged-in users

Application Functionality:

- navigation - zoom and pan
- autocomplete address search
- line and area measurement
- printing
- display basic metadata (data source and date) of each layer

Notes:

- IMAP councils retain IP over the data they supply
- spatial accuracy of data is maintained from the source, whether it is sourced from DSE or supplied by the council
- data is automatically backed up
- layers are protected by username and password, implemented in Spring Security authentication and access-control framework
- annual cost increases by 4% per year or CPI, whichever is greater

Client: IMAP

Quote valid until: 21 Dec 2012

Item	Price
Pozi Web GIS Subscription (one year)	\$ 7200
Subtotal	\$ 7200
GST	\$ 720
Total	\$ 7920

For further information regarding this quote, please contact:

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