Spatially Enabled Government

Providing spatial information to government, business & citizens in NSW

Warwick Watkins AM
Chief Executive
Land and Property Management Authority

FIG Congress 2010
Facing the Challenges – Building the Capacity
Sydney, Australia, 11-16 April 2010
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Location Intelligence

• It is about...
  – Informed decision-making - collaboration
  – Access to shared spatial information
  – Spatial infrastructure as a service - platforms
  – Smart applications – PDA, computers, cloud
  – Enabling frameworks – access provisions – SLA
  – Real time mash-ups – people, censors, services
Location Intelligence

1990 – 2003
- Experts only
- Raw datasets
- Heavy analysis

2004 – 2007
- Citizen participation
- Content, not data
- Specialised outputs

2008 onwards
- Business focus
- Data marts
- Focus on decisions
Providing spatial information to government, business & citizens in NSW

New South Wales

800,000 km²
(about the size of Texas)
6 million people

(about ¼ the population of Texas)

152 Local Councils
Population density

100 km² / person

6,000 people / km²

Surveyor General’s Dept

Australian National Maritime Museum
Surveyor General’s Dept

From parchments...
<table>
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<tr>
<th>Cloud</th>
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<td>Code</td>
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### Spatial Information eXchange (SIX)

#### Cloud
- Platforms
- Places where software runs
- Available functionality and collaboration.

#### Content

#### Commons

#### Code

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**Spatial Information eXchange (SIX)**
The official source of spatial information in NSW

The most comprehensive, accurate and reliable spatial data for the State
Services the needs of many sectors within the spatial data community

Platforms

Spatial Information eXchange

Google Australia

Yahoo! Local Maps

Landgate

SLIP

OpenStreetMap

Amazon Web Services
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Whole Of Government

- Custodians
- Aligned by authoritative ground control
- Collaborating and sharing data

Spatial data nodes

- National
- States
- NSW State Node
- LG node
- harvesting
- SDI-clearing-house
- LPMA node
- harvesting
- SDI-clearing-house
Spatial Data Infrastructure

- Cadastre
- Topography
- Survey
- Census
- Admin boundaries

Support multiple perspectives
Custodian options to expose data

Manual (hosted)  Semi-automated (asynchronous)  Automated (synchronous)

Cloud
Platforms
places where software runs, available functionality

Content
Data
fundamental Spatial Data Infrastructure

Commons

Code
Software
libraries, widgets and code that operate across platforms
SIX Viewer

Search Gazetteers
Customised for the user
Data from multiple sources

- Cadastre
- Roads
- Boundaries
- Agency-specific data
- Live data
  - current bushfires
  - current weather

Imagery

- Satellite imagery
- Aerial photos
  - floods, bushfires
- Historical imagery
- Topographic maps
To Opera House ...
To flood imagery captured in emergencies

SIX Viewer Channels

- Secure access to customised “channels”
- Agency-specific:
  - datasets
  - searches
  - functionality
NSW Maritime Channel

Solar Rebates Channel
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<td>Licensing and agreements for software, content and platform</td>
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Governance Frameworks

- OGC Compliant
- ANZLIC
- CS2i
- PSMA Australia Limited
Adapting Frameworks

Sustainable Urban Development (Enemark)

Location Intelligence (Framework)

Framework used to spatially enable NSW

Business Decision Support

Framework
Governance, SLA Standards, Policy

Functions
Business Information

Infrastructure
Foundation SDI Agency SDI

Delivery Location Intelligence
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