Government is facing a number of key issues and challenges today and into the future.
Australian Government context

Linking information to location
Geography and location information

- Geography is the **stage** on which all natural and human activity occurs
- Location links us to **where** we are and **what** we are doing
- Everything happens somewhere….**what is happening here….now!!**
Location – 4th driver for decision making

Why?
Revenue/Benefit

When?
Time

Location

What?
Cost
The issue

- Government has significant information holdings
- Stored in many forms across many agencies – but largely siloed
- Pockets of excellence exist – but we don’t share
- We are fragmented, inconsistent and inefficient – and we duplicate
- No policy framework
- Information is not linked to a location, is largely unstructured, and is not connected
- Results in sub-optimal decision-making

The solution = location information framework
The issue

Adoption of Location Information Frameworks

Framework Maturity Levels

- Improvement
- Review
- Implementation
- Planning
- Recognition
- No Awareness

International, National & Regional Initiatives

Linking information to location
Location Information - Present

Australian Government Agencies

Jurisdictional Agencies

Private Sector

Research Sector

Peak Spatial Bodies

Linking information to location
Location Information - APS 200 Project

Australian Government Agencies

Australian Government Location Policy, Governance and Coordination

Jurisdictional Agencies

Private Sector

Research Sector

Peak Spatial Bodies
Linking information to location

Location Information - Post APS 200 Project

- Australian Government Agencies
  - Location Policy, Governance and Coordination
    - Jurisdictional Agencies
    - Private Sector
    - Research Sector
    - Peak Spatial Bodies

- Private Sector
- Research Sector
- Peak Spatial Bodies
Location Information Framework

Analysis and aggregation across geographies

Aggregated to suburb or postcode

Aggregated to LGA or higher

Location information at address level

Geocoded unit level data

25 Smith St = x, y: 35.5676, 135.6587

Linking information to location
<table>
<thead>
<tr>
<th>PRINCIPLES</th>
<th>Good Governance</th>
<th>Fundamental Location Data</th>
<th>Stewardship &amp; Custodianship</th>
<th>Access &amp; Sharing</th>
<th>Standards &amp; Interoperability</th>
<th>Licensing &amp; Investment</th>
<th>Capacity &amp; Capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDICATORS</td>
<td>Establish policy lead</td>
<td>Identify framework datasets</td>
<td>Accountable data management practices</td>
<td>Promote information sharing principles</td>
<td>Agreed standards &amp; guidelines</td>
<td>Appropriate licensing</td>
<td>Build skills &amp; knowledge resources</td>
</tr>
<tr>
<td></td>
<td>Develop &amp; implement a governance structure</td>
<td>Geocode information to location</td>
<td>Recognised custodial responsibilities</td>
<td>Improved access &amp; availability of data</td>
<td>Develop standard geographies</td>
<td>Commitment to Creative Commons licensing</td>
<td>Improve &amp; standardise capability across agencies</td>
</tr>
<tr>
<td></td>
<td>Leadership to build &amp; sustain</td>
<td>Consistent &amp; maintained datasets</td>
<td>Delivery of consistent data</td>
<td>Consistent data catalogues</td>
<td>Consistent metadata</td>
<td>Invest in lifecycle data management</td>
<td>Improve analytical capabilities</td>
</tr>
</tbody>
</table>
Case study: Queensland floods

How do you increase the resilience of the community?

How do you understand the risk to infrastructure?

Where do you rebuild for the future?

How do you reduce the financial impacts?

Linking information to location
Location information challenges

Is the right assistance getting to the right people in a timely manner?

Commonwealth assistance

State emergency operational information

Community reality
Enhanced evidence based decision making

25 Smith Street = -35.5676, 135.6587

- **Address**: 25 Smith Street
- **Purpose**: Residential
- **Damage**: 75%
- **Date**: 10/01/2011
- **Event**: Flood
- **Floor Height**: 0.8 metres
- **Value**: $210,000
- **Population**: 4
- **Assistance**: Required

Flood extents

Imagery

Base data

Fundamental location data

Targeted Government assistance

Detailed evidence base to inform decision making
Recommendations

In July 2011, the Secretaries Board agreed:

- that evidence based decision making will be enhanced by linking information to location;
- that a whole-of-government approach to linking information to location is needed;
- to the whole-of-government Location Information Principles and Governance Framework;
- to support the development of a whole-of-government location information framework aligned with the principles and governance suggested in the accompanying report;
- that, consistent with the Cabinet decision resulting from the Review of Geoscience Australia, the Department of Resources, Energy and Tourism provide the policy lead and develop a full proposal (including formal governance arrangements) supported by key stakeholder agencies for Secretaries consideration by February 2012.
Progress since July 2011

- DRET is now lead agency for a whole-of-government location information policy, and has established the Office of Spatial Policy, absorbing the previous functions of OSDM
- As an acknowledged and committed policy lead, OSP will progressively establish and operationalise the governance, principles, responsibilities, and requirements for collecting, managing, integrating and delivering location information used by Australian Government agencies
- A detailed Implementation Plan will go back to the Secretaries Board in early 2012 for endorsement
- ANZLIC, ICSM, PSMA and the CRCSI are in the process of, where appropriate, realigning their priorities and activities to support these new directions
- Early considerations include a national, integrated approach to SDI development, and determining and defining the national fundamental datasets and/or themes that constitute the core location building blocks to support Australia’s SDI
Progress since July 2011

- **ANZLIC Agenda**
- **12 Fundamental National Datasets/Themes**
  - Geodetic
  - Cadastre (Tenure)
  - Address (GNAF)
  - Transport
  - Names (Gazetteer, Indigenous locations, etc.)
  - Elevation
  - Imagery
  - Administrative Boundary’s
  - Hydrography/Bathymetry (Offshore)
  - Hydrology (Onshore)
  - Built Environment
  - Landcover (Vegetation)
Integrating spatial information into our business is a similar challenge to a uniform railway gauge across Australia.

The benefits are not readily apparent, nor immediately realised….but a consistent, uniform, capability, able to remove duplication of effort, move goods efficiently, and grow innovation and economic productivity, has considerable strategic and long-term value.
Thank You

Questions??