I would like to acknowledge the Kaurna people of whose land we meet on today. I also pay my respects to their Elders past and present and extend that respect to other Aboriginal and Torres Strait Islander people who are present today.
Location SA

Sharing information through geospatial collaborations, cloud infrastructure, web services and portal platforms.

Bert Bruijn
Location SA Program Manager

location.sa.gov.au
Why Location SA?

Shared location intelligence:

- **Where is**: the fire burning?
- **Where did**: the fire burn?
- **Where do**: we think the fire will burn?
- **Where can**: we fight the fire?
- **Where will**: we fight the fire?
Why Location SA?

Adopt Best Practices:
  • Leverage innovation

To Reduce Costs:
  • Share resources
  • Share expertise

Collaborate:
  • To share knowledge
  • To improve services to the community
  • To get things done!
Who is Location SA?

Most SA Government Agencies:

<table>
<thead>
<tr>
<th>Department for Environment and Water</th>
<th>Country Fire Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Primary Industries and Regions</td>
<td>Department for Energy and Mining</td>
</tr>
<tr>
<td>Environment Protection Authority</td>
<td>South Australian Housing Authority</td>
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<tr>
<td>Department of The Premier and Cabinet</td>
<td>Department of Human Services</td>
</tr>
<tr>
<td>SA Health</td>
<td>Department for Trade, Tourism and Investment</td>
</tr>
<tr>
<td>Attorney-General’s Department</td>
<td>State Emergency Services</td>
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<tr>
<td>Department for Education</td>
<td>Forestry SA</td>
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<tr>
<td>Department of Planning, Transport and Infrastructure</td>
<td>SAFECOM</td>
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<tr>
<td>SA Water</td>
<td>Department for Innovation and Skills</td>
</tr>
<tr>
<td></td>
<td>Courts Administration Authority</td>
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</tbody>
</table>
What is Location SA?

- A single point of truth data sharing collaboration
- SA Government agencies sharing:
  - Governance & Change Management
  - Spatial Strategic Directions
  - Spatial expertise
  - Enterprise Portal platforms
  - Data store (590 SPOT datasets) / data catalogue
  - AWS Cloud Infrastructure
  - Online data and map services
  - Location Metadata System (LMS)
  - Public Map Viewer
What is Location SA?

• **Leverage:**
  • Innovation and infrastructure in DPTI GIS Team (Information Services)
  • Common Esri Enterprise Agreement
  • Common AWS Cloud infrastructure

• **Across SA Government collaborations:**
  • Agencies cooperating with each other
  • Dedicated Program Manager
  • Data Management Group
  • Enterprise Portal Management Group
Where used?

- ArcGIS Desktop – GIS specialists
- Web maps – intersection services, data services, basemaps
- Public Map Viewer and open data (Data.SA) – supply of datasets (and soon, web services)
- Agency portal for ArcGIS solutions developed in Enterprise Portal platforms built on Amazon Web Services (AWS) cloud infrastructure
Past issues

- Ageing physical infrastructure with legacy solutions, high cost, reduced speed, outages and long change implementation times
- Increased demand with decreasing budgets for online business solutions development
- High cost of running multiple license agreements
- High cost of external business solutions development
- Solutions software vendor lock-in
- No highly available solutions with 24/7 support
The journey over the last 2 years

• AWS Cloud POCs by LSA Support Team identifying significant improvements in performance and cost
• Departmental move from physical to cloud infrastructure
• Whole of Government Esri Enterprise Agreement enabling software for all
• Enterprise Portals for ArcGIS built in AWS cloud
Country Fire Service warnings web map shows bushfires and other incidents in SA.

The map receives high traffic loads during incidents - approx. 275,000 API requests per day.
Attorney-General’s Department are developing State Emergency Control Centre Dashboards to provide critical emergency information and statistics to key state government personnel responsible for activities during a state emergency.
Department of Human Services post state disaster impact assessment and reporting tools support the State’s Rapid Damage Assessment Support Plan.

Consisting of three mobile data collection tools plus, operations dashboards to monitor the status of impact assessments and incidents.

Note: test impact data only and not from an actual event.
The South Australian Housing Authority conversion of audit data into a portal application enables analysis of the funded outcomes established in the Specialist Homeless Services (SHS) service agreements against real outcomes.

This supports identification of housing outcome discrepancies, and establish a baseline for tracking of SHS housing outcome numbers over time.
Department of Planning, Transport and Infrastructure use Survey123 to conduct OHS&W surveys of work areas. Reporting and analytics are undertaken on the survey results.
The Department for Environment and Water Hazard Mobile Survey 123 app was developed to assess the hazard posed by accumulated fuel levels found in South Australian vegetation.

Based on the fuel levels recorded, the app will also calculate the overall fuel hazard level at each sampling site.
The Department for Trade, Tourism and Investment will soon release the South Australian Investment Atlas.

A web map to support business investment and growth in South Australia.
Keys to Success

• **LSA Support Team:**
  • Highly skilled small team in a large department reliant on strong infrastructure and spatial technologies

• **Shared:**
  • Data Sharing Agreements
  • Leadership (Governance Framework)
  • Strategies (LSA Work Activities = technical projects + collaborations)
  • Change Management (CM Framework)
Questions?

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