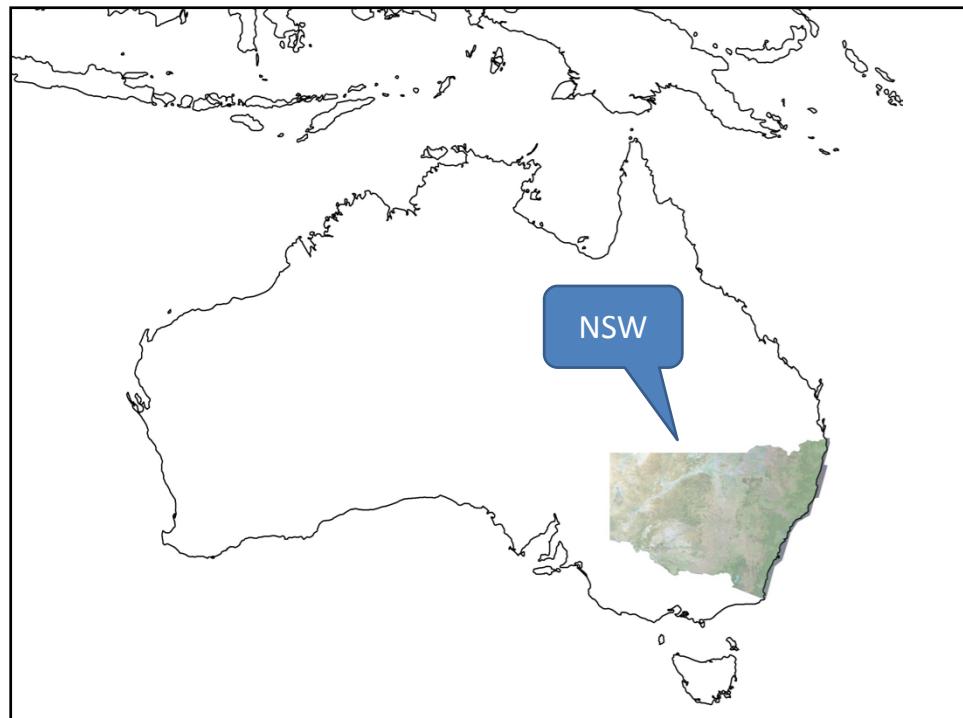


Spatially Enabled Government

Providing spatial information to
government, business & citizens in NSW

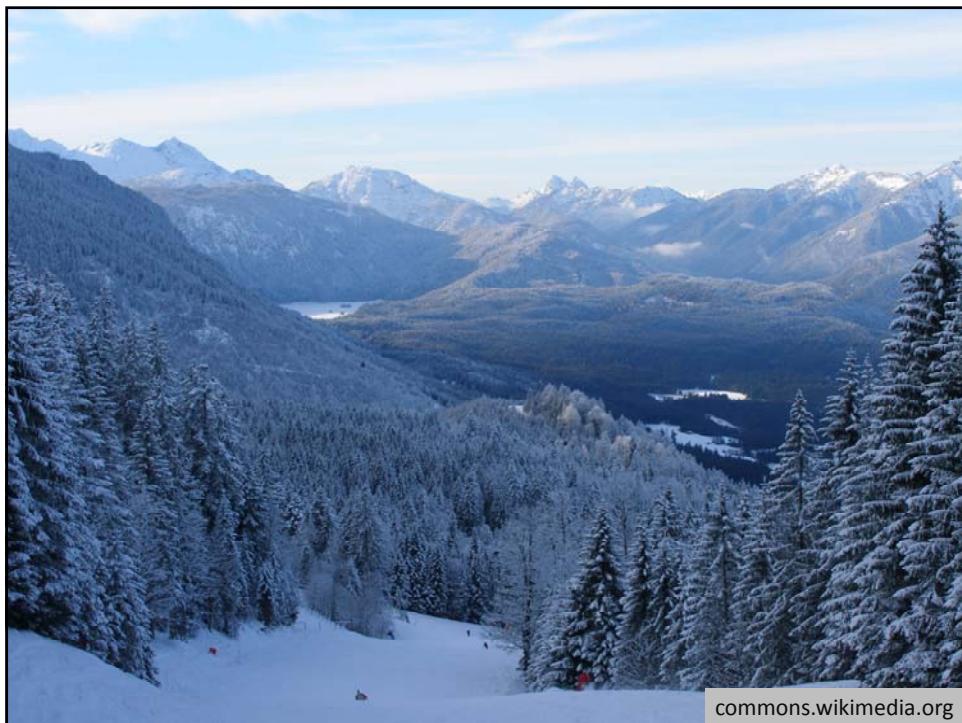


Warwick Watkins AM
Chief Executive
 | Land and Property
Management Authority





commons.wikimedia.org



commons.wikimedia.org



commons.wikimedia.org



commons.wikimedia.org

FIG International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

[ABOUT FIG](#) [SEARCH](#) [FEEDBACK](#)

Article of the Month
April 2010

Spatially Enabled Government in New South Wales, Australia¹⁾

Warwick Watkins AM and Dr. Pedro Harris, Australia

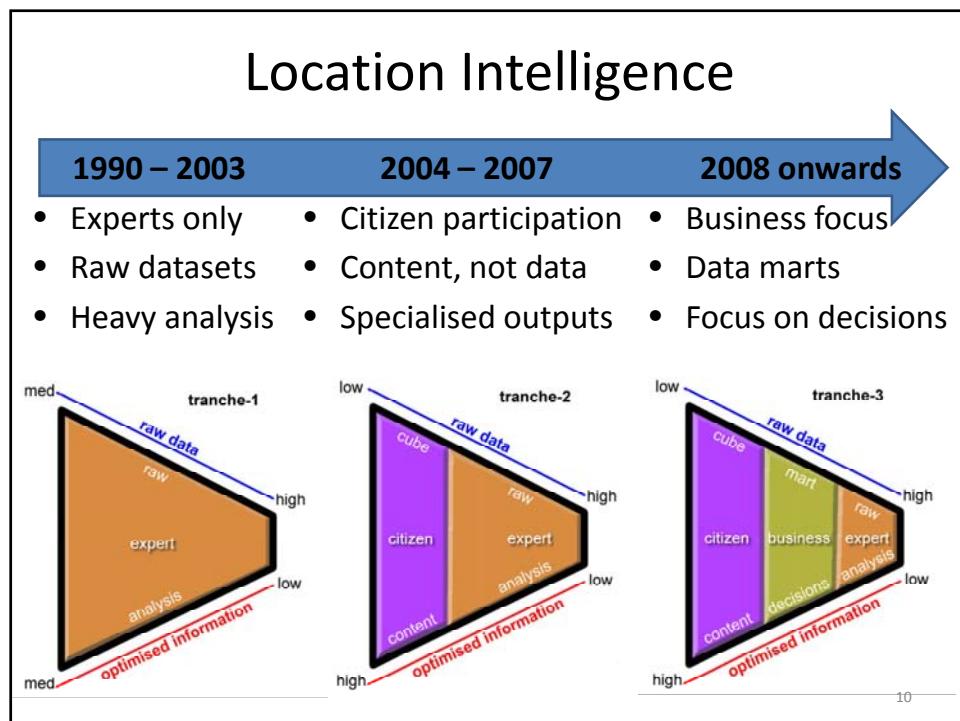
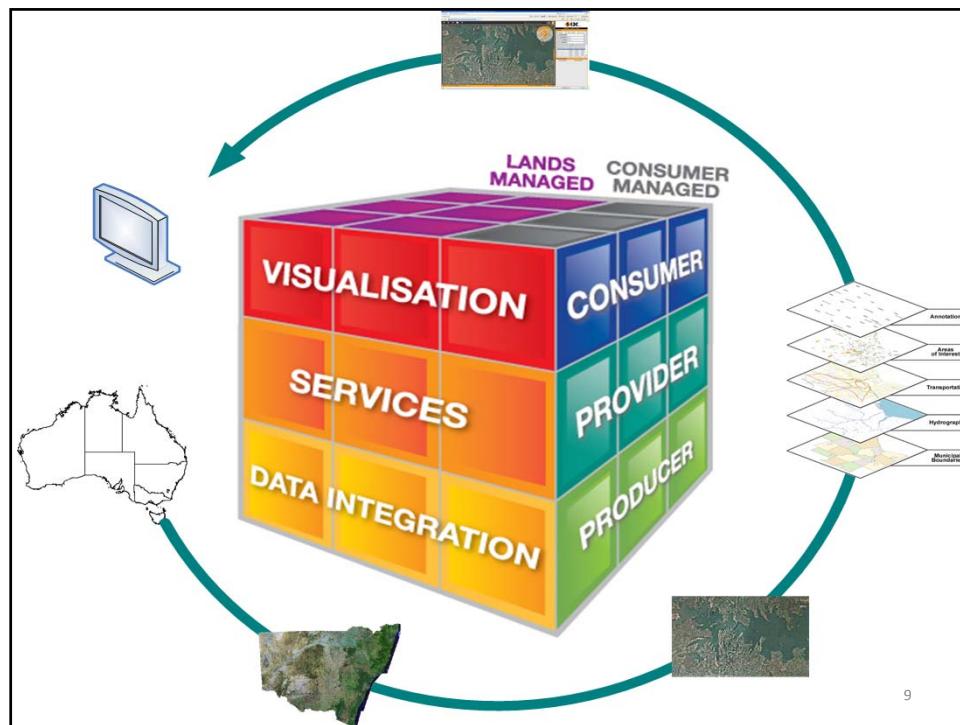


7

Location Intelligence

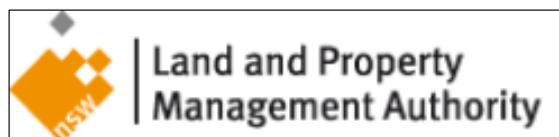
- It is about...
 - Informed decision-making - collaboration
 - Access to shared spatial information
 - Spatial infrastructure as a service - platforms
 - Smart applications – PDA, computers, cloud
 - Enabling frameworks – access provisions – SLA
 - Real time mash-ups – people, censors, services

8

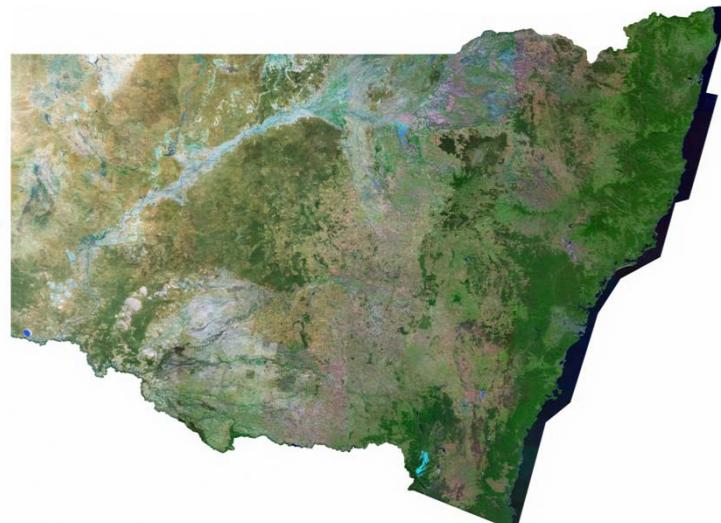




Providing spatial information to
government, business & citizens in NSW

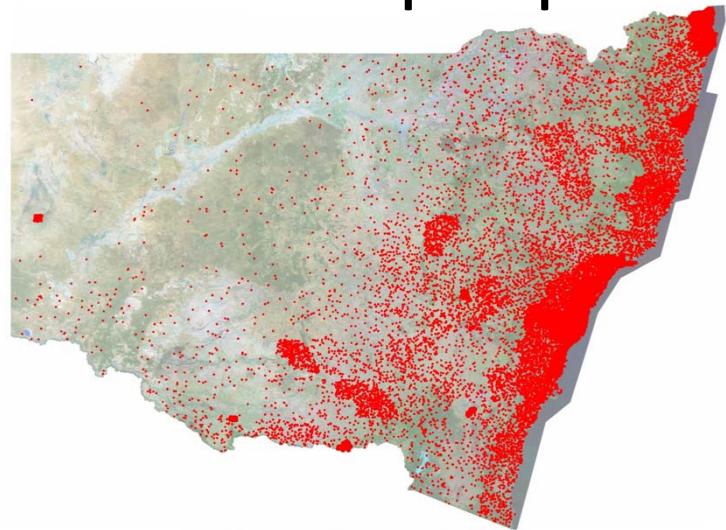


New South Wales



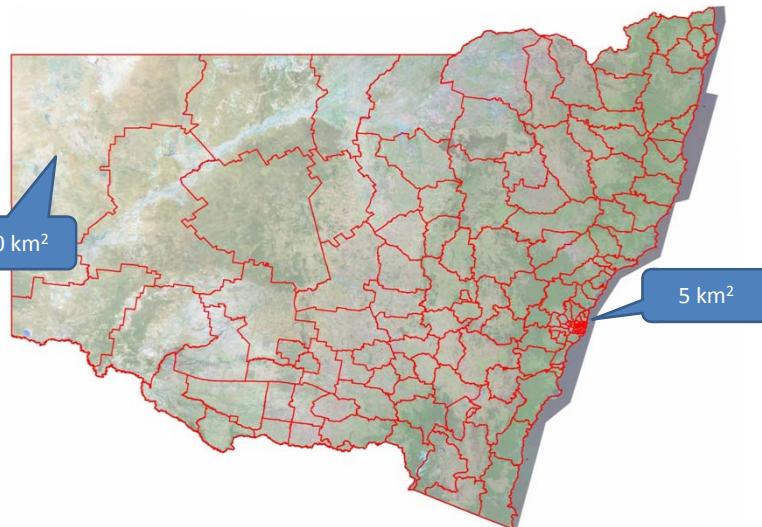
800,000 km²
(about the size of Texas)

6 million people



(about $\frac{1}{4}$ the population of Texas)

152 Local Councils



Population density

100 km² / person

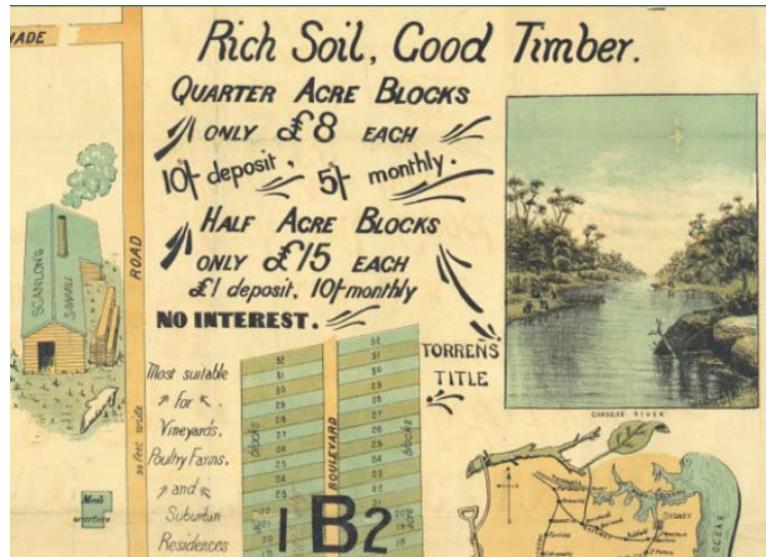
6,000 people / km²

Surveyor General's Dept



Australian National Maritime Museum

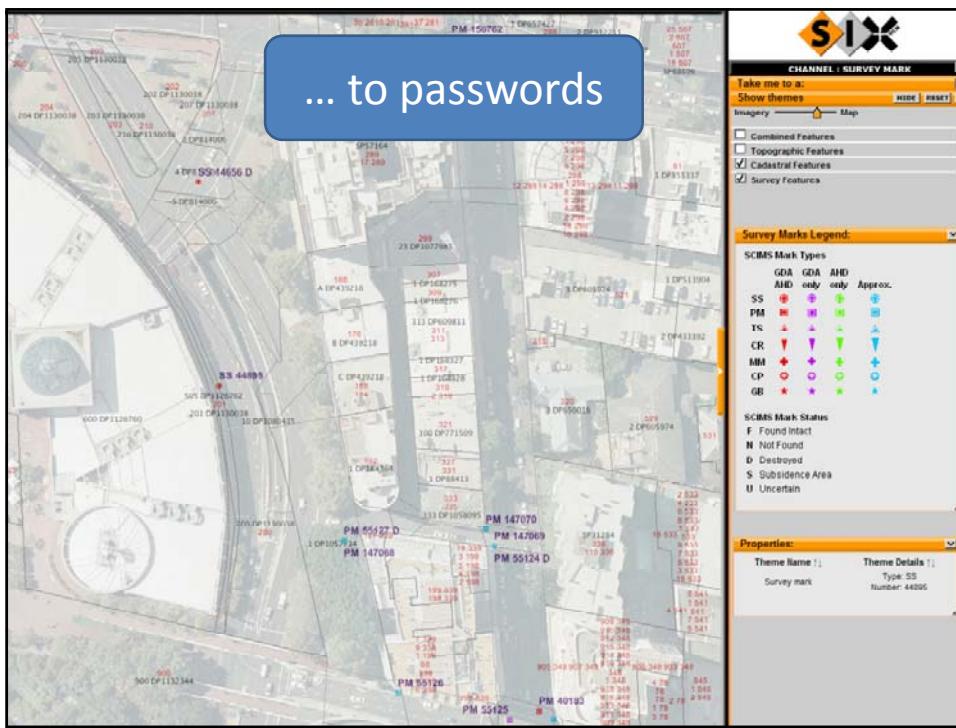
Surveyor General's Dept



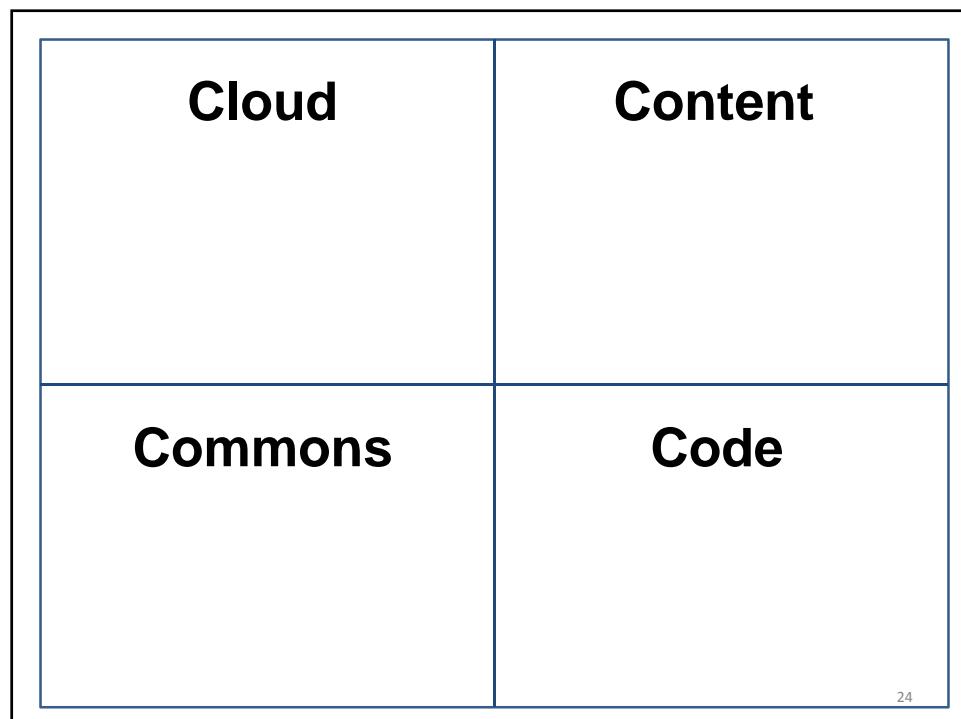
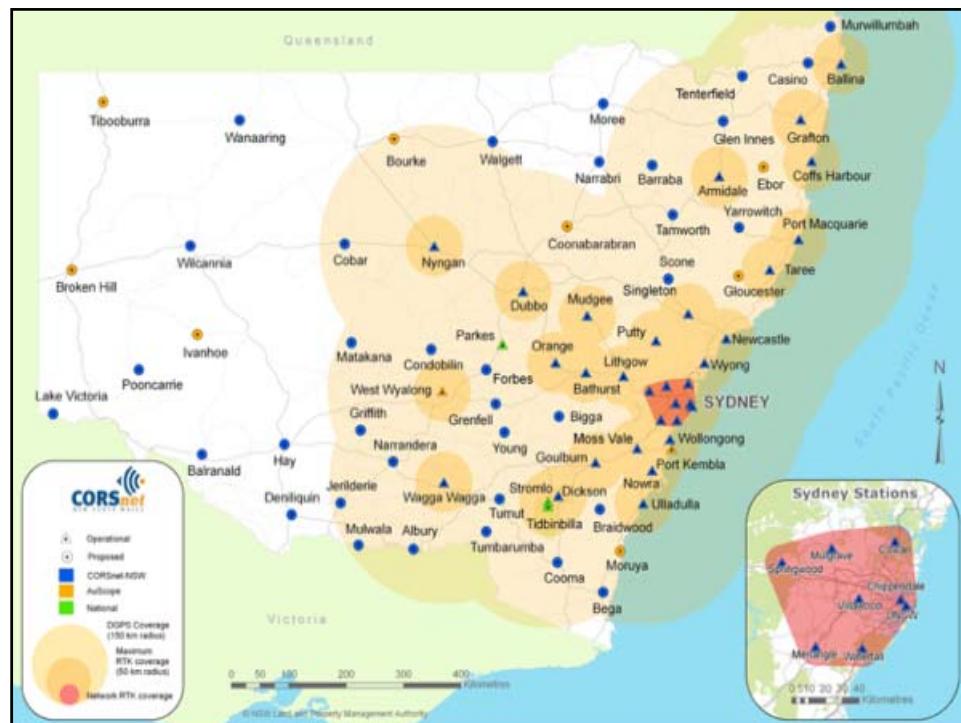
LPMA

From parchments...





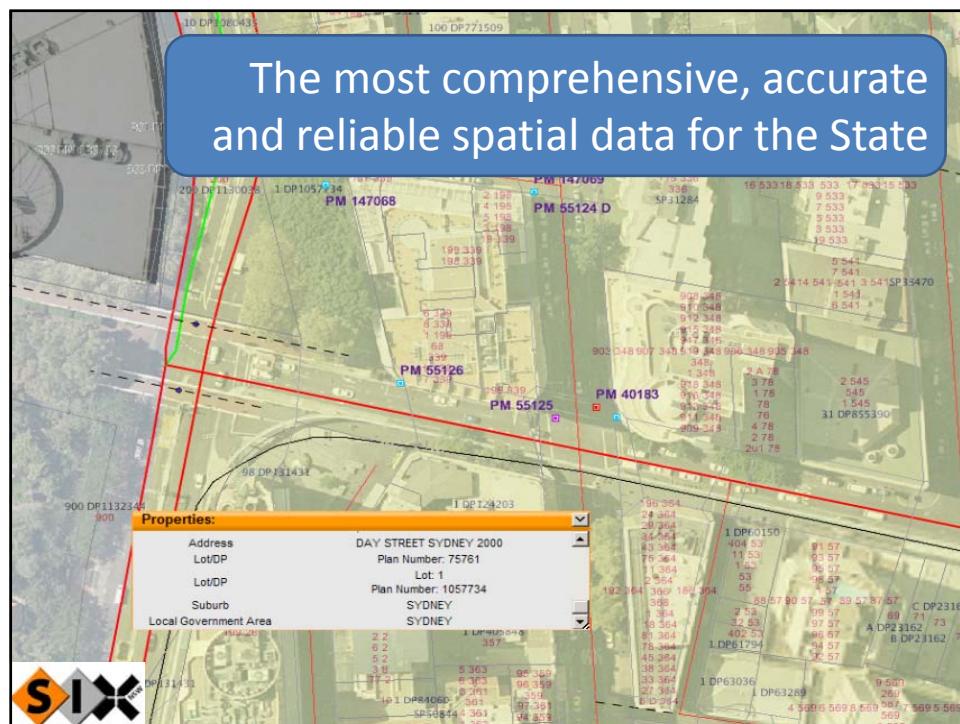
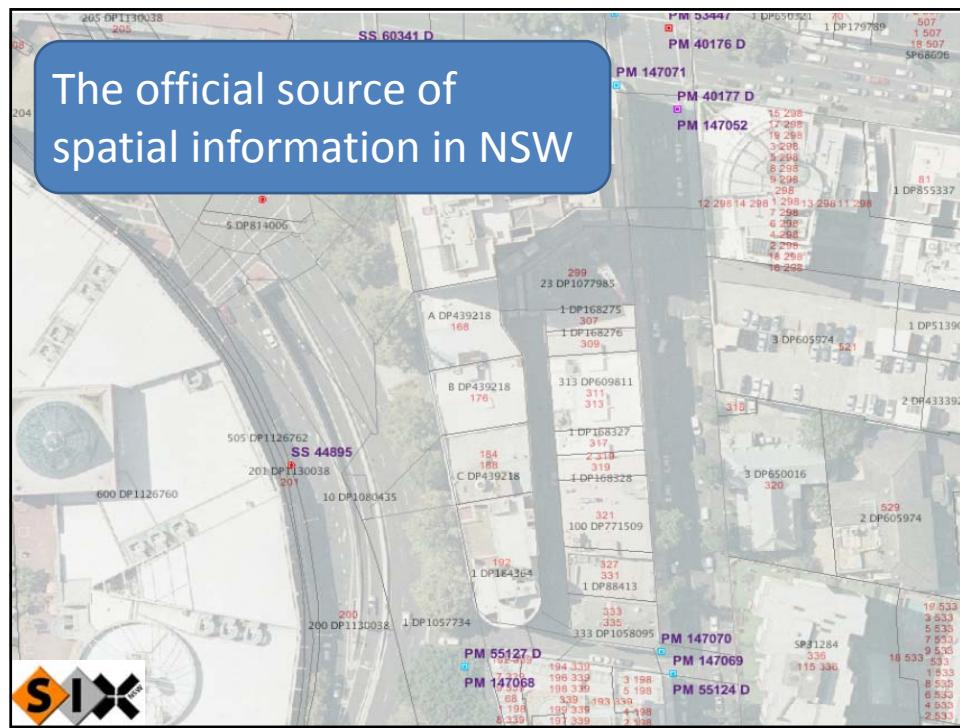




Cloud Platforms Places where software runs Available functionality and collaboration.	Content
Commons	Code

25







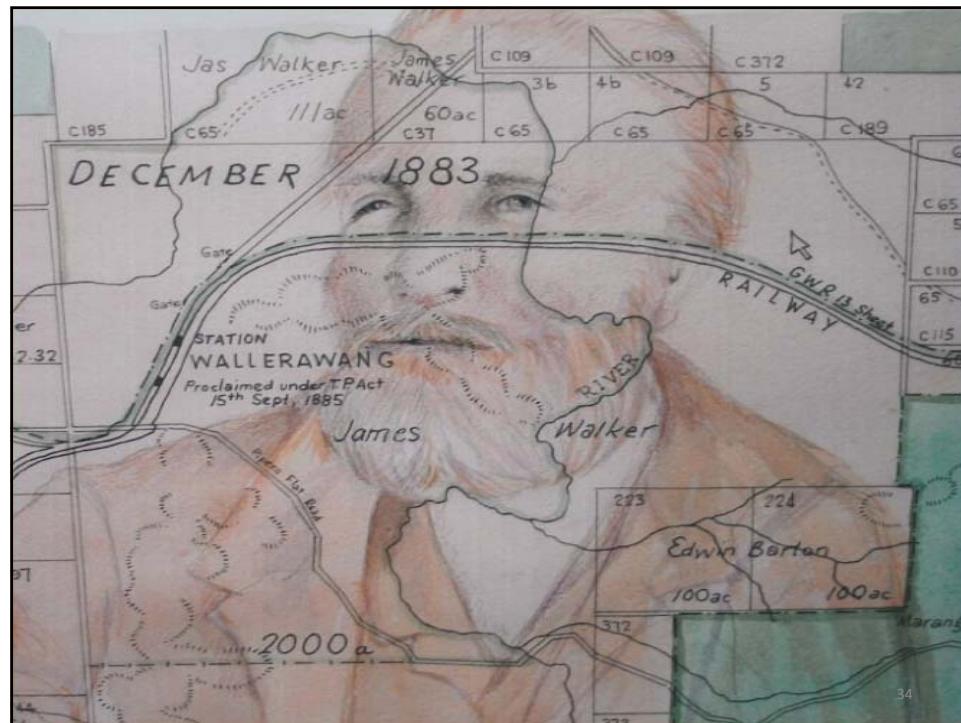
Platforms



Spatial Information eXchange



30

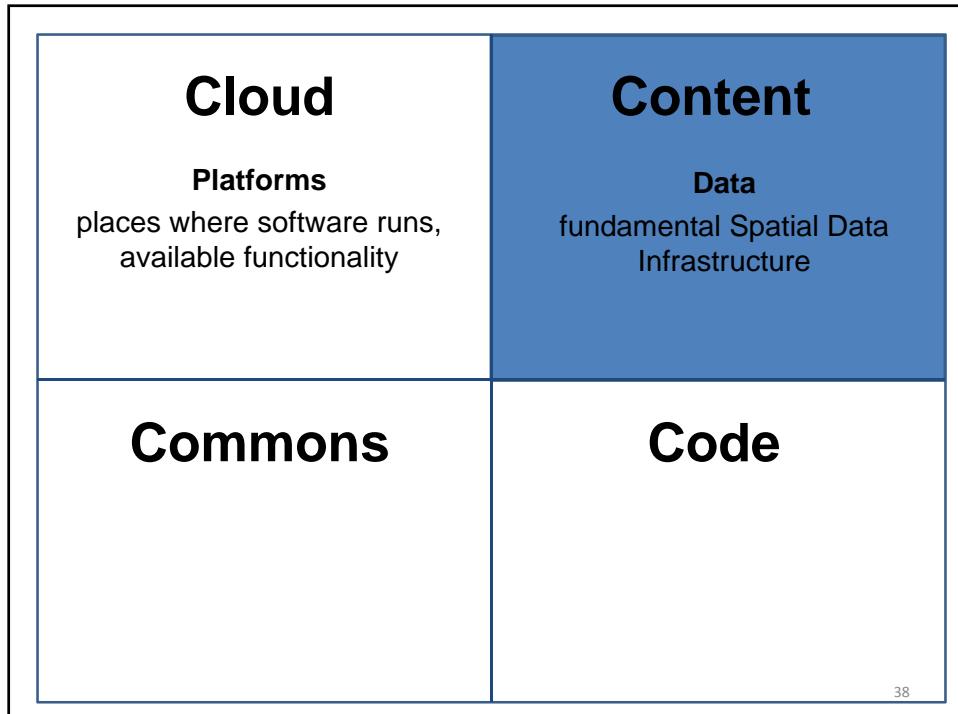


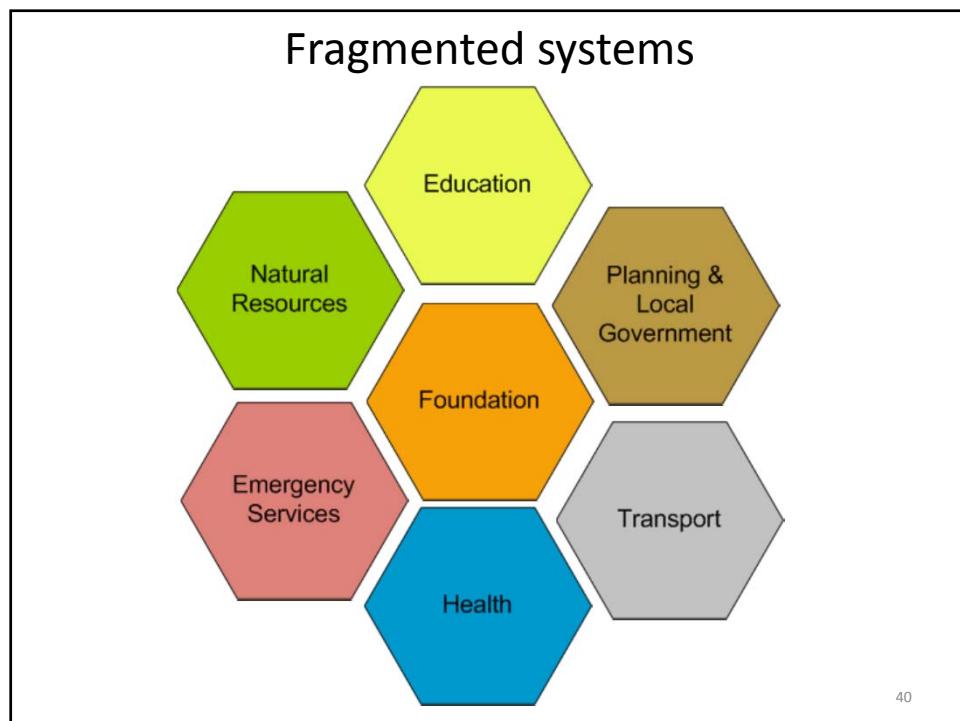
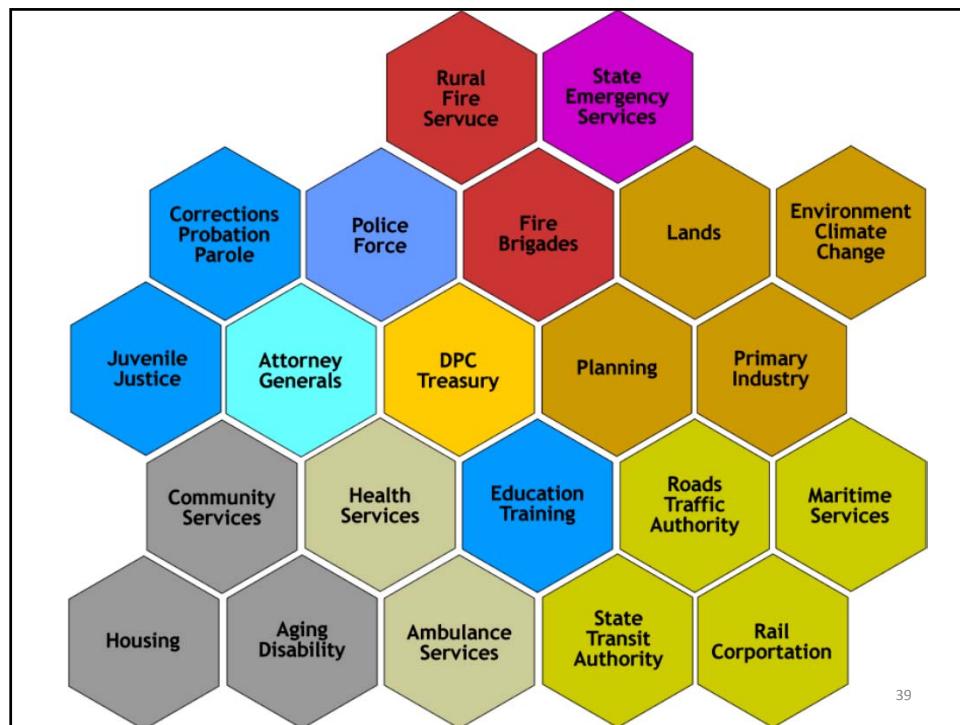


35

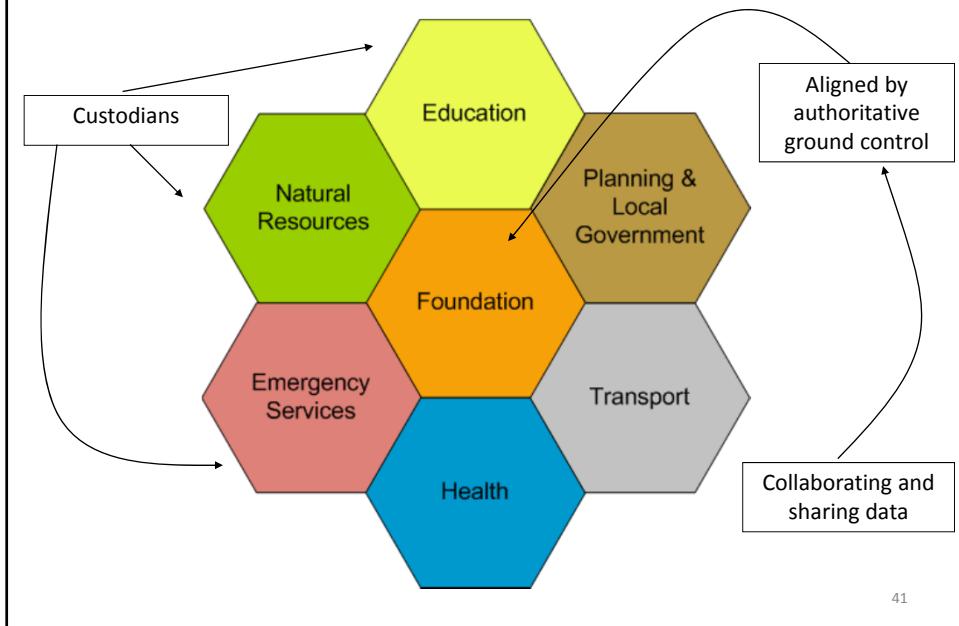


36

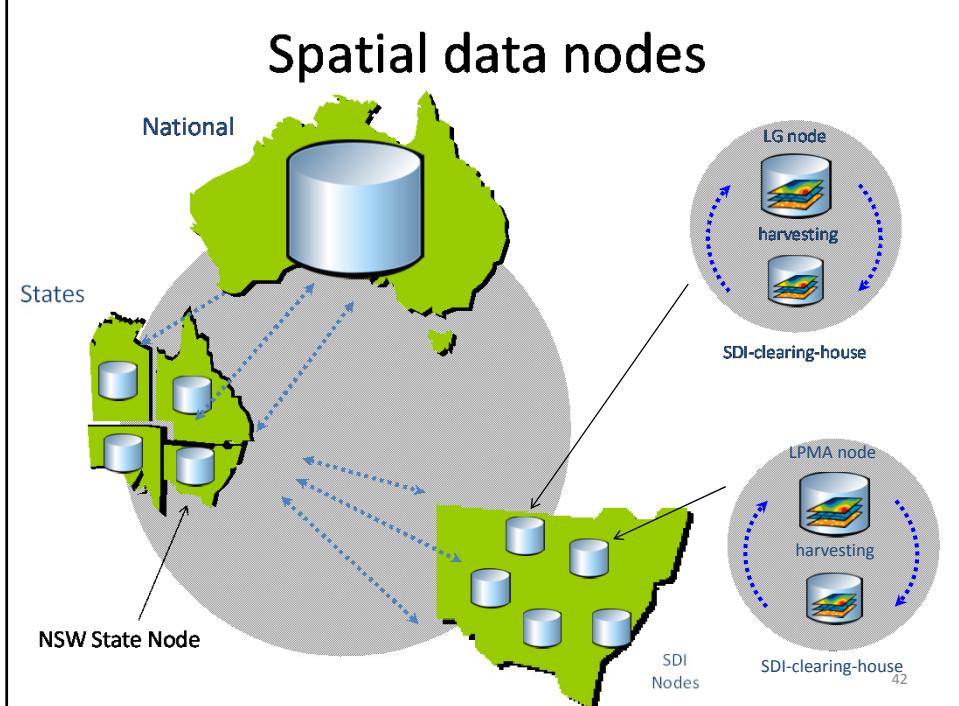




Whole Of Government

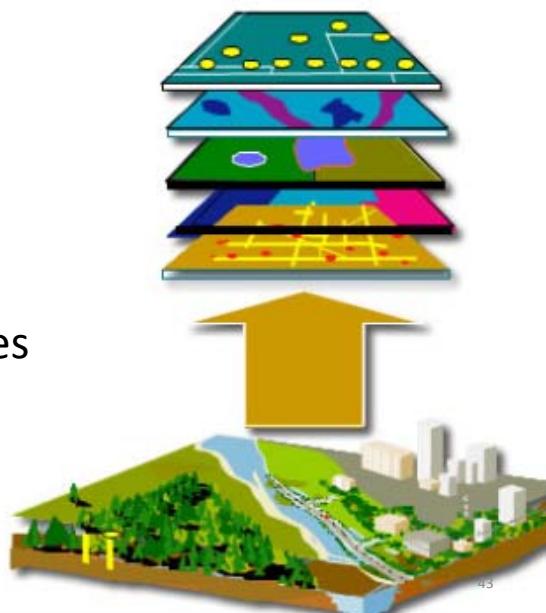


Spatial data nodes



Spatial Data Infrastructure

- Cadastre
- Topography
- Survey
- Census
- Admin boundaries

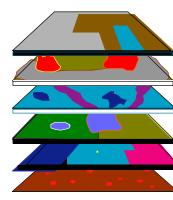


43

Support multiple perspectives

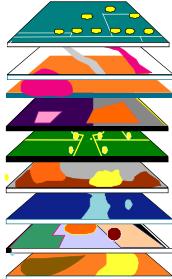
FUNDAMENTAL

- Cadastre
- Roads
- Imagery



LOCATIONAL

- Schools
- Hospitals
- Police



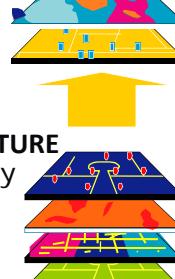
ECONOMIC & RISK

- Public transport
- Demography
- Employment



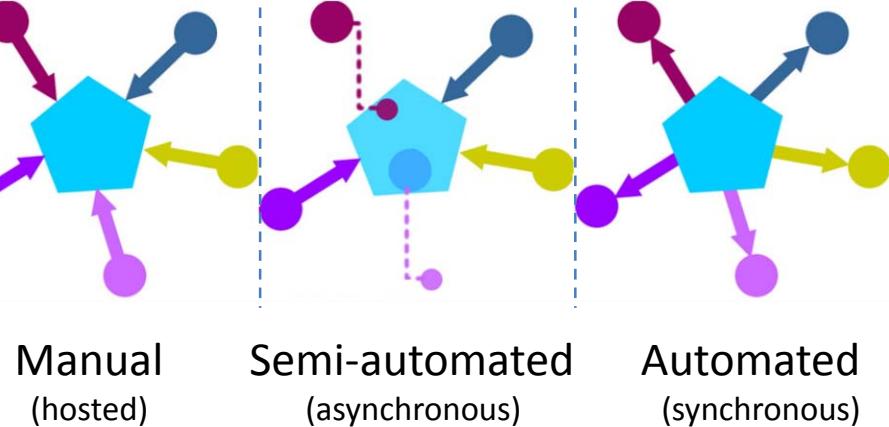
INFRASTRUCTURE

- Electricity
- Gas
- Water



44

Custodian options to expose data



45

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

46



Search Gazetteers
Customised for the user

CHANNEL : SURVEY MARK

Take me to a:

- Address
- Lot/DP
- Suburb
- Local Government Area
- City / Town / Suburb
- Survey Mark
- Trig Station

Trig Station Name:

CHANNEL : ABORIGINAL COMMUNITIES

Take me to a:

- Address
- Aboriginal Community
- Lot/DP
- City / Town / Suburb
- Suburb
- Local Government Area

Community:

CHANNEL : PEOPLE FIRST

Search

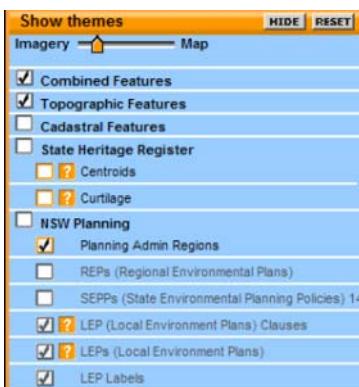
Address Place names Lot / DP

Name:

Results ↓

ROSEVILLE
ROSEVILLE CHASE

Data from multiple sources



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

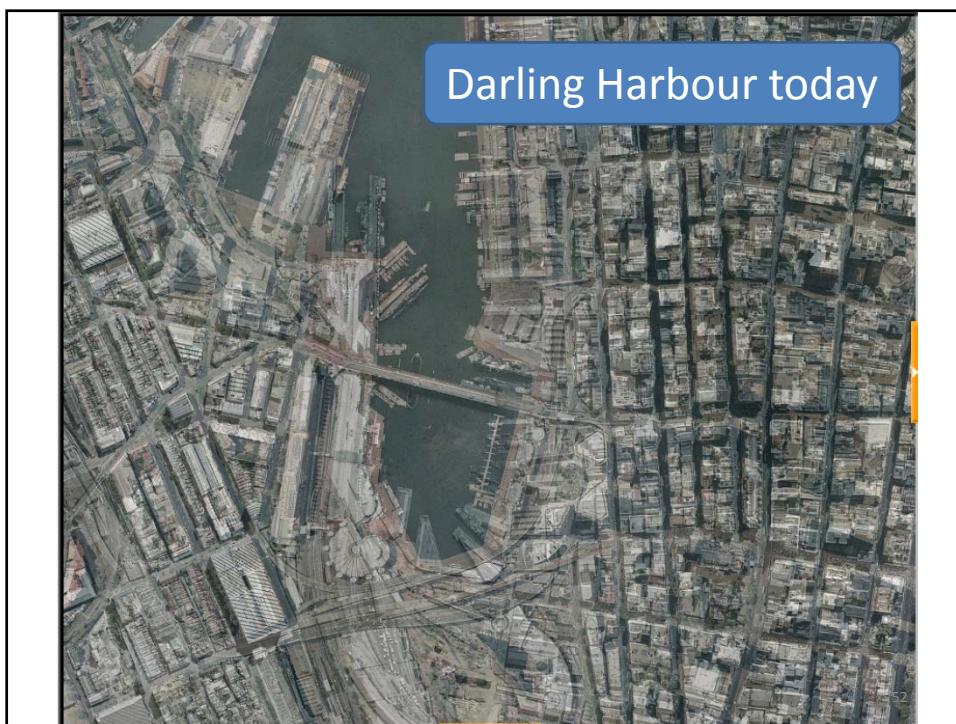
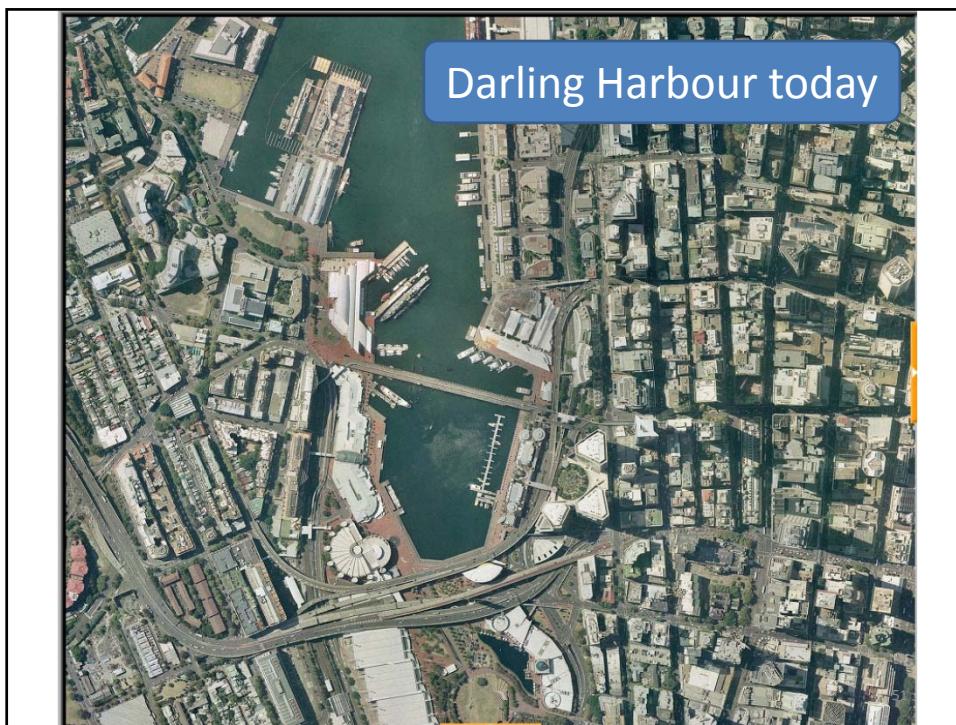
49

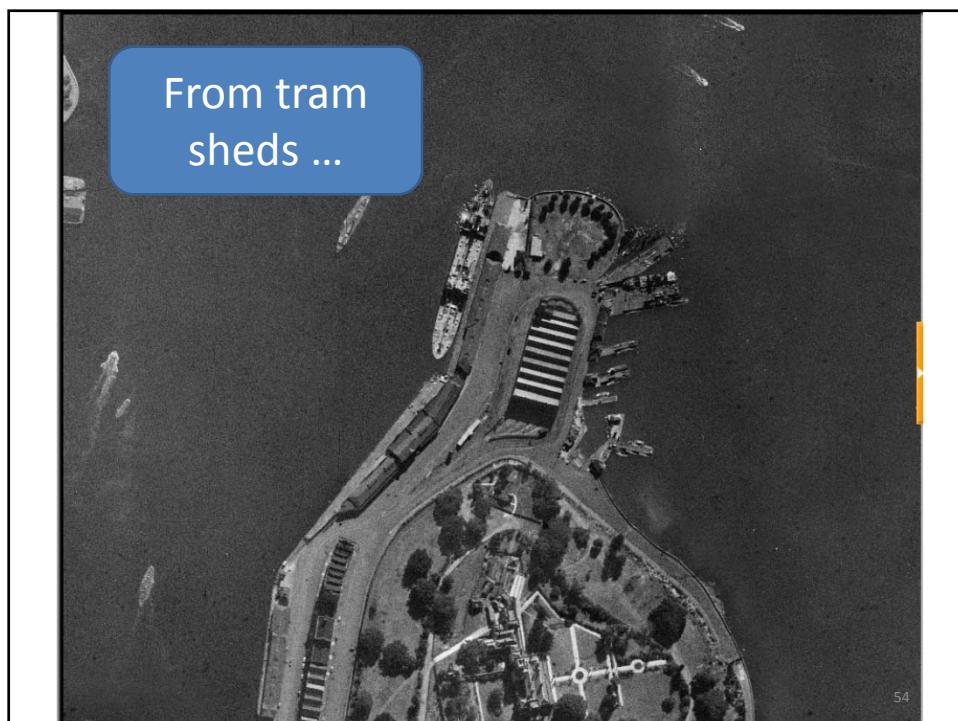
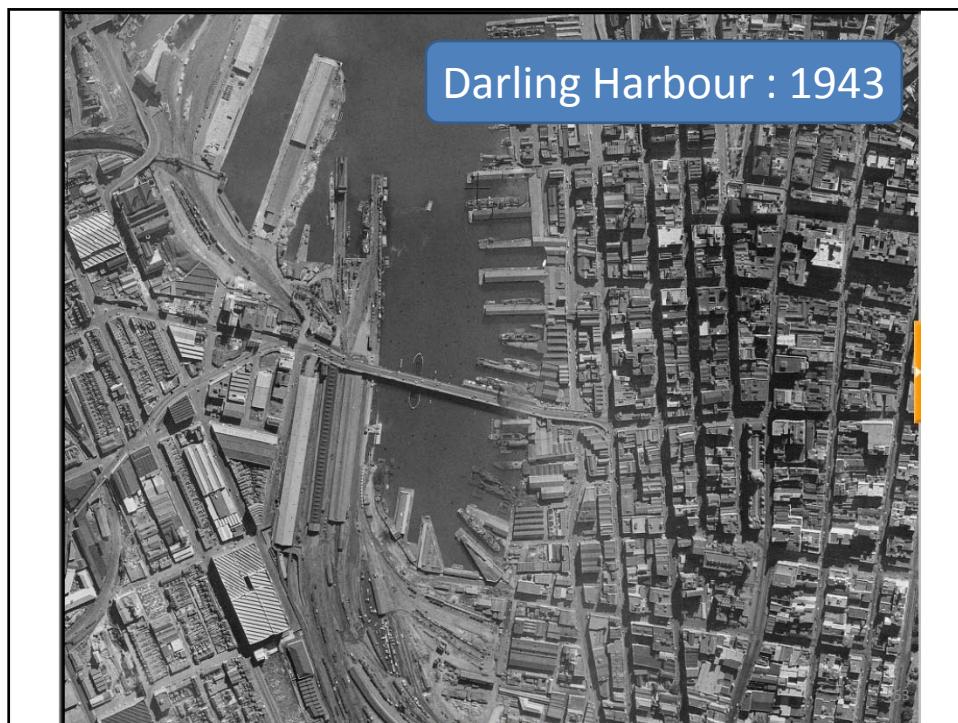
Imagery

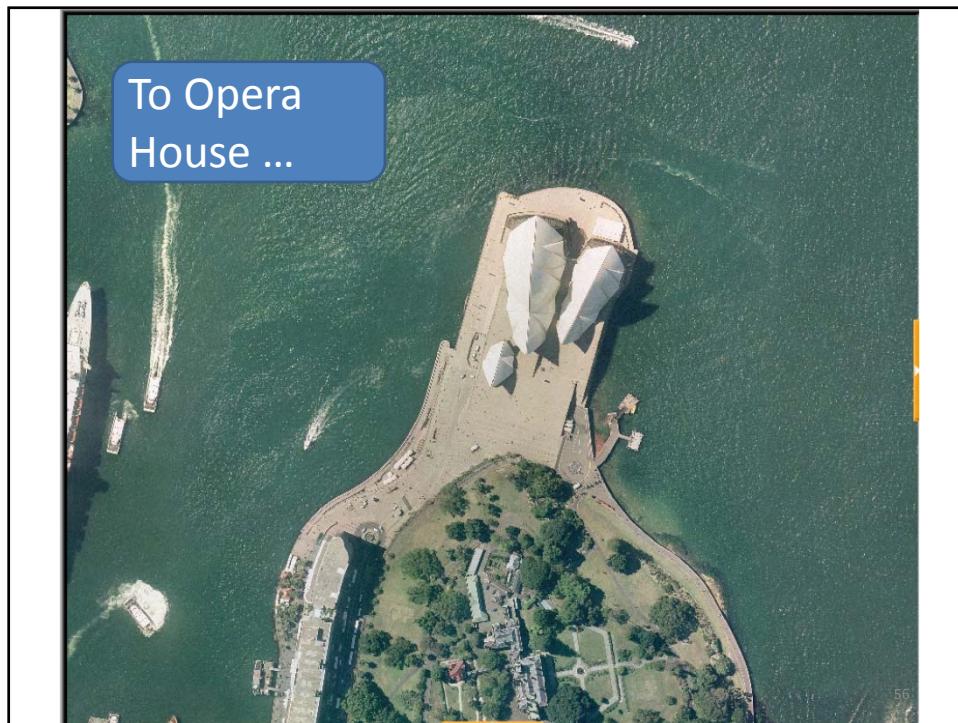
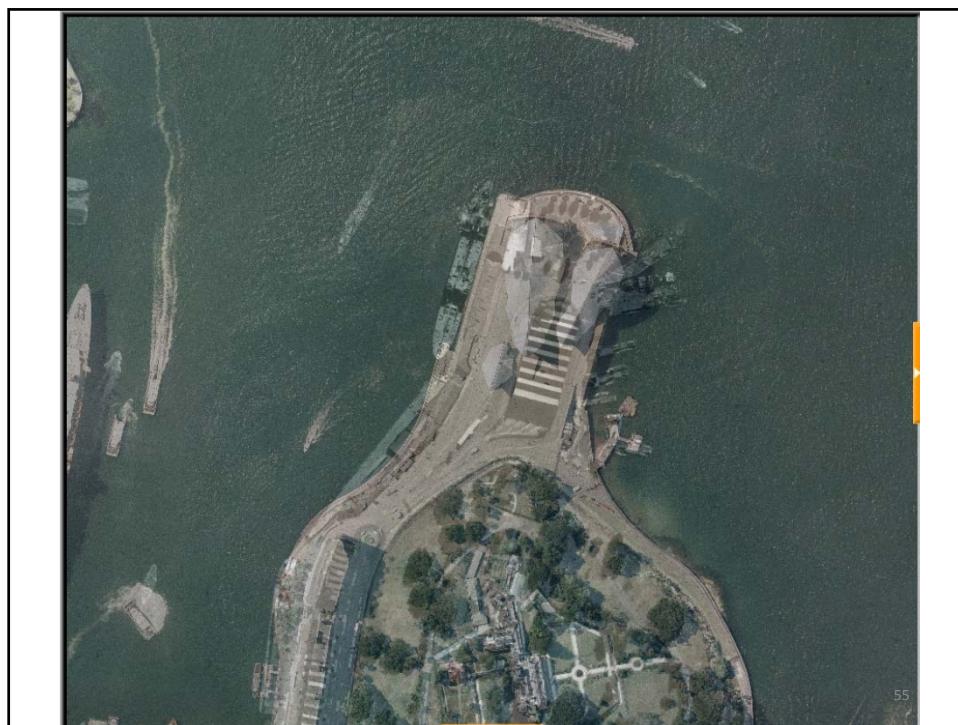
- Satellite imagery
- Aerial photos
 - floods, bushfires
- Historical imagery
- Topographic maps



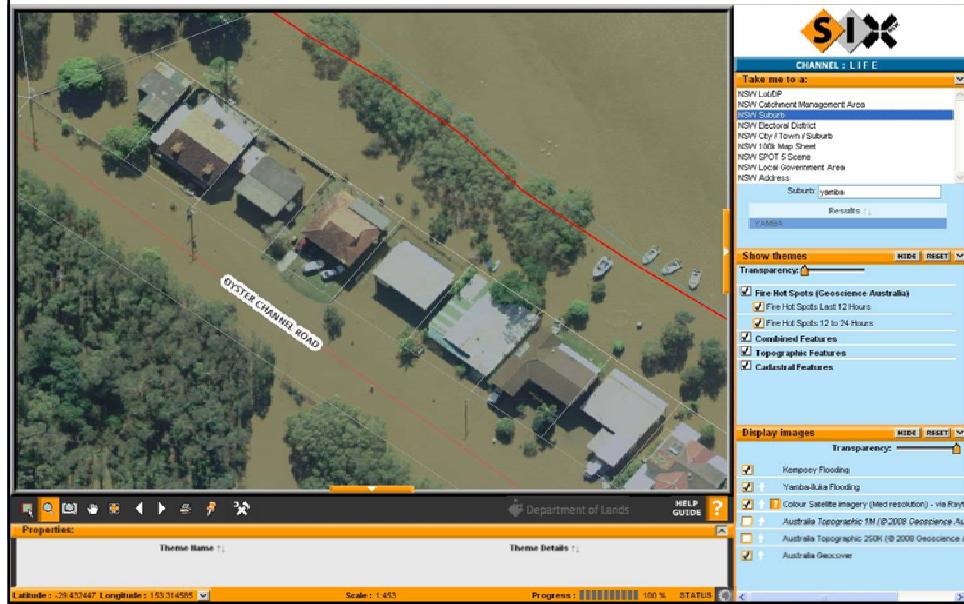
50





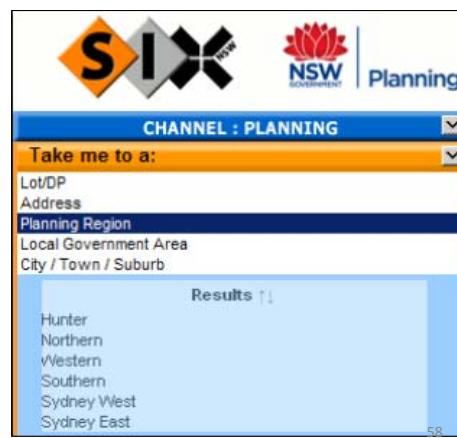


To flood imagery captured in emergencies

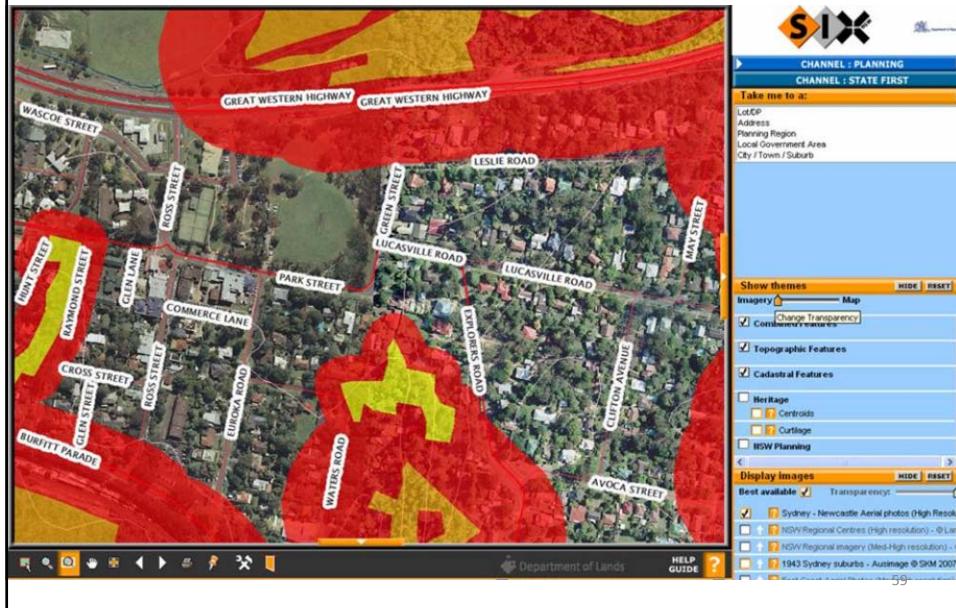


SIX Viewer Channels

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



NSW Planning Dept



Game Council



NSW Maritime Channel

Properties:

- Rooting Map Index: [Port Macquarie Area](#)
- Map Number: U4
- Marine Camera: [Marine Camera](#)
- Latitude: -33.086374 Longitude: 151.684962
- Scale: 1:6,410
- Progress: 100% STATUS

Help Guide

Show themes: Imagery, Speed限制, Condensed Features, Topographic Features, Cadastral Features, Weather (Bureau of Meteorology), Wind (10m) Analysis, Radar data (Rainfall)

Display images: Best available, Transparency, Sydney - Newcastle Aerial photos (High Resol.), Full Coast Aerial Photos (Mid-High resolution), NSW Regional Centres (High resolution) - 0 Lon, NSW Regional Imagery (Mid-High resolution) - 1 Lon, Delaneys Aerial Photos (Very High resolution) - 2 Lon, Matindie Flood photos (High resolution) - 0 Lon

61

Solar Rebates Channel

NSW STATE SOLAR PV INFORMATION

Installation Type: Residential
System Installer: [redacted]
System Size (kW): [redacted]

Search:

- Address: [redacted]
- Place names: [redacted]
- Lot / DP: [redacted]
- Number: [redacted]
- * Road Name: [redacted]
- * Road Type: [redacted]
- * Suburb or Postcode: [redacted]

Get results

NSW Solar Maps:

ALREADY HAVE A SOLAR SYSTEM?

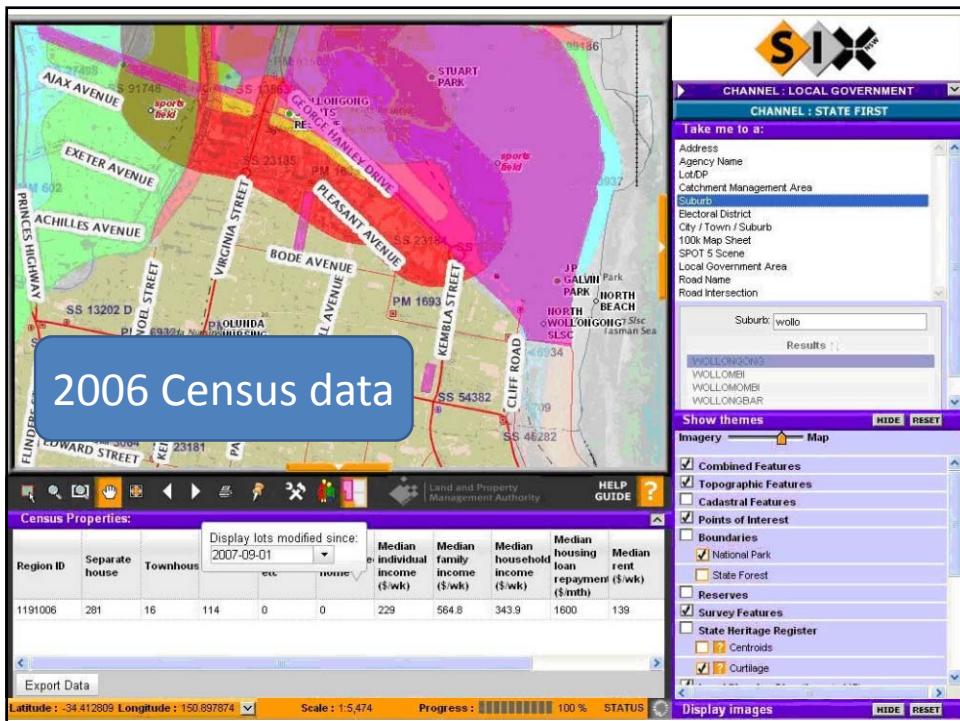
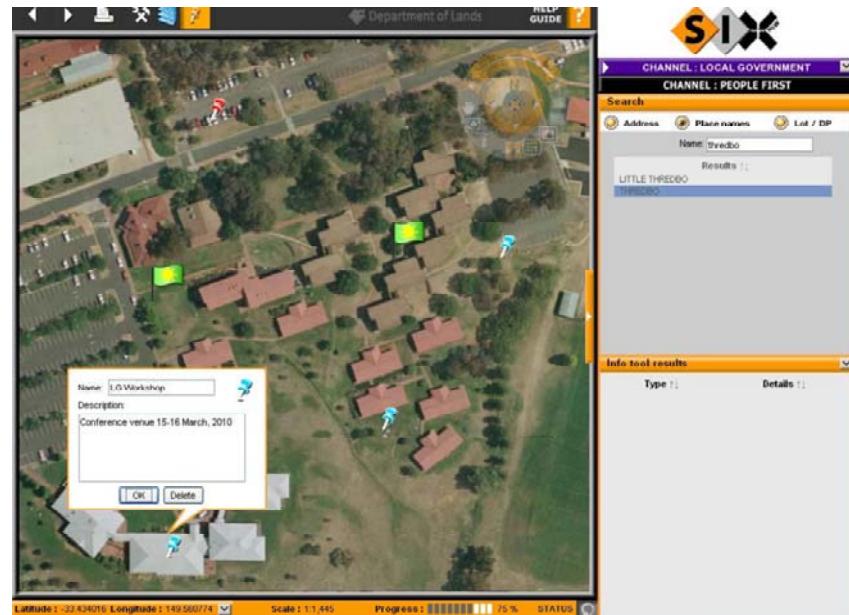
Add a flag to become part of the solar community!

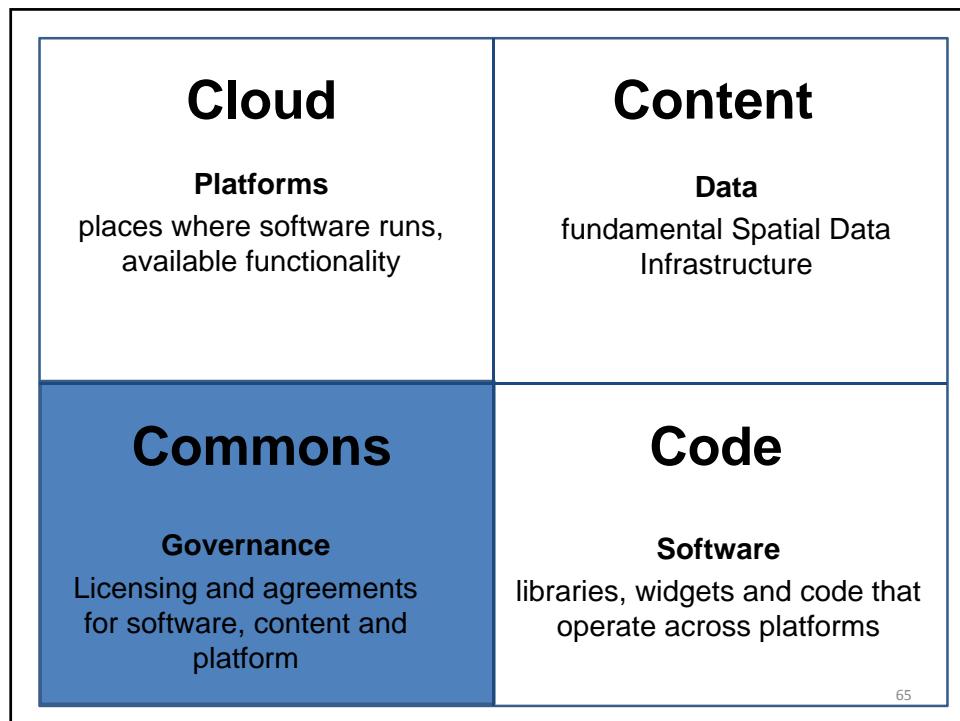
1. Zoom to your address (or use the search address tool above).
2. Click on your roof and enter the details of your system.
3. A flag on your property will appear on the map following email confirmation.

[How solar is your area?](#)

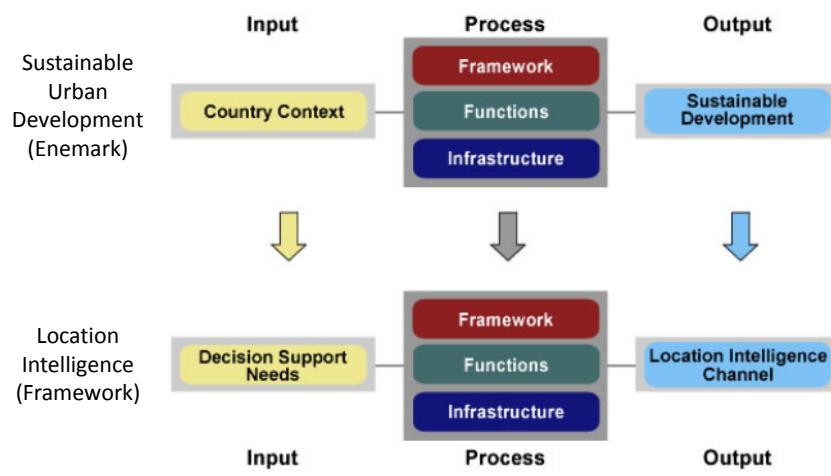
Latitude: -33.7330741 Longitude: 151.083064 Scale: 1:1,063 Progress: 100% STATUS

Local Government Channel



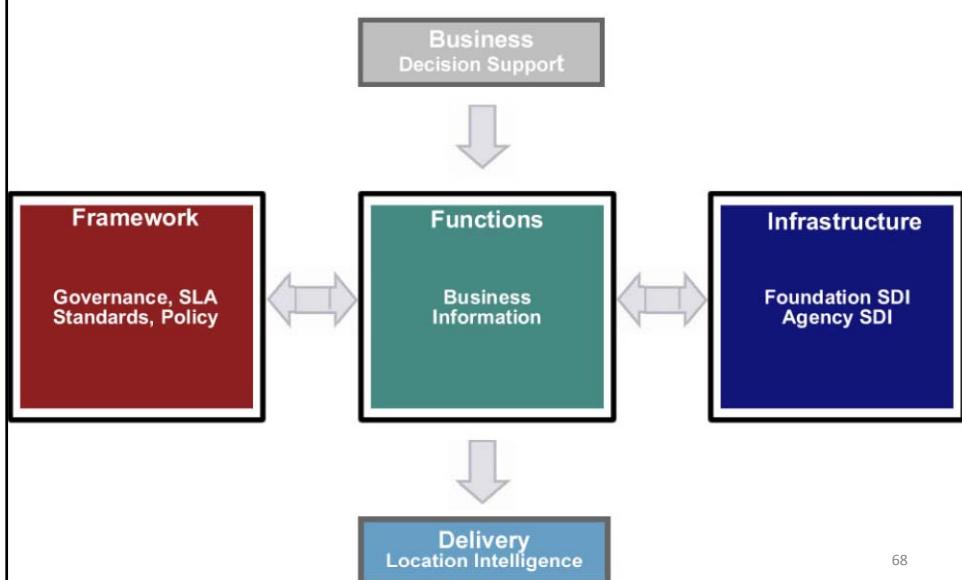


Adapting Frameworks

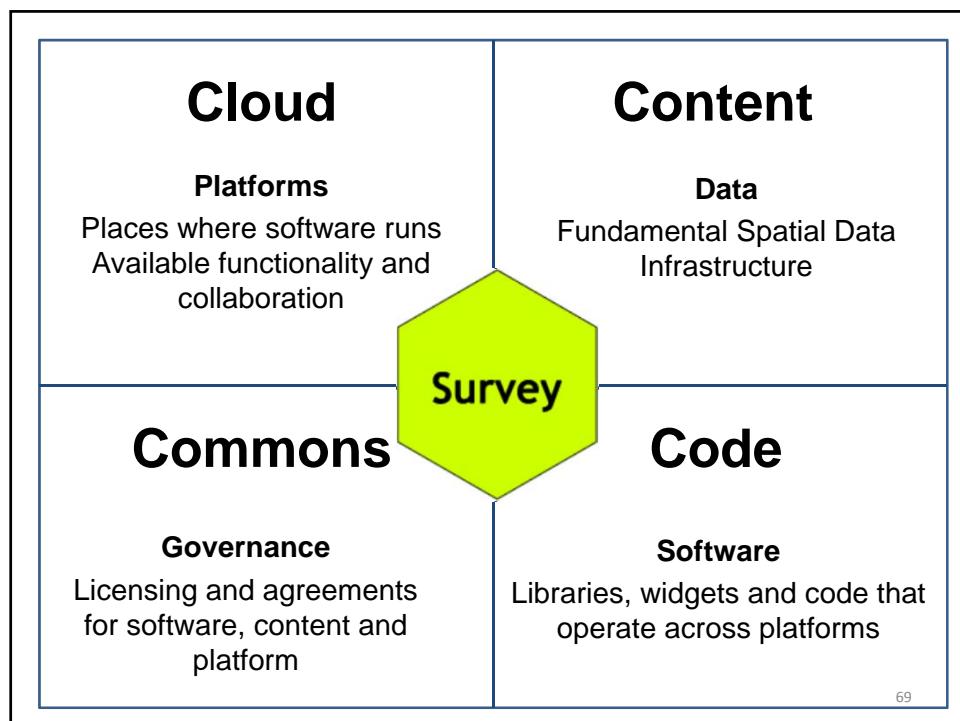


67

Framework used to spatially enable NSW



68



Spatially Enabled Government

Providing spatial information to government, business & citizens in NSW

