

**GEOSPATIAL STANDARDS WORKING DOWN UNDER**

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**A VAST CHALLENGE**

The spatial industry Australia has unique challenges because of:

- **SIZE**  
at 7.7 million sq kms it is roughly twice the size of the EU
- **FRAGMENTATION**  
a federal system with one national, 8 state and numerous local governments – each with different legislation relating to the spatial information
- **GEOGRAPHY**  
most people live in coastal cities and fringes with the remainder of the country being lightly settled agricultural land or deserts



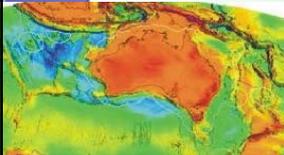
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**A HEALTHY SPATIAL INDUSTRY**

Despite these unique challenges the spatial industry is **alive and well** DOWN UNDER

This is due to:

- The creation of Australian Spatial Data Infrastructure (ASDI)
- Good governance that ensure standards are developed and applied
- A national approach to spatial information issues



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**THE FRAMEWORK**

**ASDI**  
Australian Spatial Data Infrastructure

- The ASDI is the vehicle that underpins developments in the spatial industry in Australia
- It comprises four components:
  1. A network of institutions to develop and promulgate strategy
  2. Development of national technical standards
  3. The identification and maintenance of fundamental national datasets
  4. The universal accessibility of these datasets

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**THE FRAMEWORK**

**Australian Spatial Data Infrastructure (ASDI)**  
cont.....

It is continually being revised as technology and demand for products change

Recent developments include:

- A refinement of the ASDI vision:
  - from focusing on developing FUNDIMENTAL DATASETS
  - to focussing on SPATIALLY ENABLING AUSTRALIA
- Development of the concept of **VIRTUAL AUSTRALIA**.



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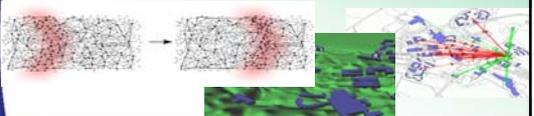
**THE FRAMEWORK**

**Australian Spatial Data Infrastructure (ASDI)**  
cont.....

A **VIRTUAL AUSTRALIA** is a framework which mandates connectivity and communication between entities.

This accommodate rapid movements in technology and demand within the spatial industry including:

- the emergence of autonomous devices that know, think and communicate – these allow for automatic real time up-dating of information about location, condition and status
- the increasing needs for systems (such as emergency management) for up-to-date and accurate information



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**KEY INITIATIVES**



**Australian Spatial Data Directory (ASDD)**

- the ASDD has steadily grown in content to be the key source of metadata regarding spatial information in Australia
- it was created under the auspices of ANZLIC
- the directory comprises government and commercial nodes in each State/Territory and spatial data agencies within the federal government



**KEY PLAYERS**




- is the peak spatial inter-governmental body
- its members are heads of State/Territory and federal government agencies
- it sets national policy
- strongly advocates the use of standards across the spatial information industry

**KEY PLAYERS**



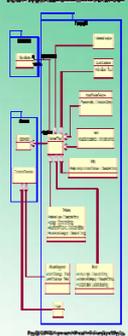

- is a standing committee of ANZLIC
- its members are the government Surveyor-Generals and heads of mapping/charting departments in State/Territory and federal agencies
- its role is to implement policy developed by ANZLIC by providing a mechanism to establish protocols and technical standards
- it is currently working in these fields:
  - geodesy
  - 3D cadastre
  - digital lodgement & transfer of property title
  - harmonised data models
  - emergency management symbology.

**ACHIEVEMENTS  
ITS ALL ABOUT STANDARDS**

**Harmonised Data Models**



- developed in the early 2000's to give a framework for modelling spatial databases
- currently being expanded into a full UML model that can support the creation of a GML schema

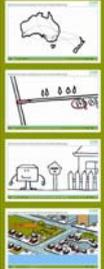


**ACHIEVEMENTS  
ITS ALL ABOUT STANDARDS**

**STREET ADDRESSING STANDARDS**



- developed to ensure consistent and unambiguous record of addresses – especially for emergency services
- registered as an AS/NZS in 2003

**ACHIEVEMENTS  
ITS ALL ABOUT STANDARDS**

**GEOCENTRIC DATUM OF AUSTRALIA**




- successfully implemented in a short period of time
- acceptance is now national
- compatible with international positioning frameworks






QUESTION

?

The image shows a slide from a presentation. In the top-left corner, there is a logo for the International Committee on Surveying & Mapping (ICSM). The logo consists of a globe icon followed by the letters 'ICSM' in a bold, sans-serif font. Below this, the full name 'INTERNATIONAL COMMITTEE ON SURVEYING & MAPPING' is written in a smaller, all-caps font. To the right of the logo, the word 'QUESTION' is written in a blue, sans-serif font. The main body of the slide is a light green color with a white question mark '?' centered in it.