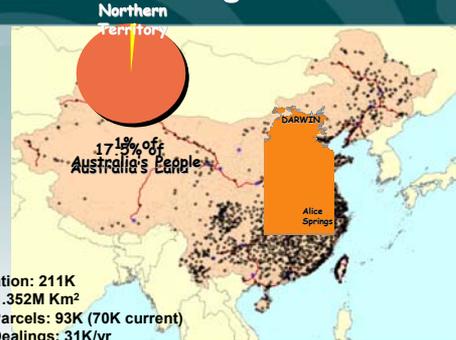


## The Integration of Visualisation Services into the e-Development Process in the Northern Territory of Australia

Phillip Rudd, Director NT Land Information Systems  
Robert Sarib, Manager Survey Services

## Background



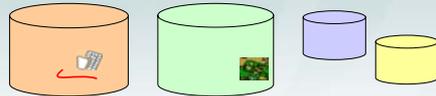
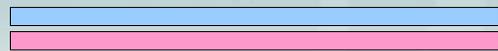
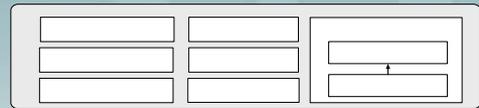
Population: 211K  
Area: 1.352M Km<sup>2</sup>  
Land Parcels: 93K (70K current)  
Land Dealings: 31K/yr  
Development Applications: 5K/yr  
Survey/Unit Plans: 350/yr

## Background

The 4 main national initiatives to enhance and facilitate an electronic land development and administration process that the Northern Territory (NT) is contributing to are:-

- e-development applications (eDA);
- e-plan;
- e-conveyancing (NECS); and
- e-geodesy.

## NT Spatial Data Infrastructure



## Integrated Land Information System (ILIS)

- Business modules for:
  - Land titles
  - Valuation
  - Building control
  - Development applications
  - Survey parcels and addresses
  - Crown land Management
  - Government land register
- Searches / reports
  - Dealings Searches: 20K/month
- Links to document image repository
  - Pages viewed: 200K - 400K/month
- ILISMaps
  - Internal NTG and registered users
  - Data download



## NT Visualiser: Google Earth Enterprise (GEE)

Goal: to provide a means for displaying government-owned spatial information to a range of agencies in an easy to use interface

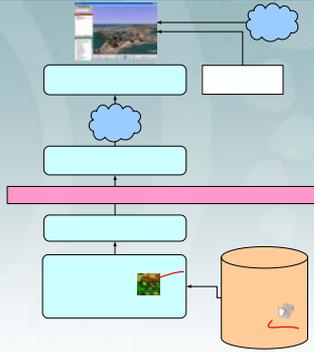
- NTG evaluated in October 2004 & Purchased in January 2005
- Deployed in production in August 2006
- Branded as 'NT Visualiser'
- Data:
  - Local data, shared on the SDI
  - 'URL-based' data
- Project approach
  - Emergency Management
  - Land Information
- Take-up:
  - Released as part of NTG SOE
  - About 200 active users
  - Land Administration, Natural Resources, EM



# NT Visualiser: Google Earth Enterprise (GEE)

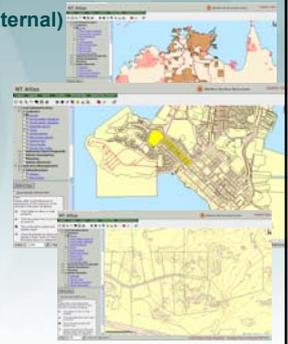
## GEE Architecture

- 'Fused' data sources
- GE Fusion
- GE Server
- GE Enterprise Client
- Authentication target
- 'External' data sources



# NT Atlas and NTSSD

- [www.ntlis.nt.gov.au/atlas](http://www.ntlis.nt.gov.au/atlas) (external)
- Layers:
  - Land administration
  - Land use
  - Natural resources
  - Topography
- Searches / reports
- Metadata / NTSSD
- Portal to spatial information
- Feedback form....



Google Earth Enterprise Client

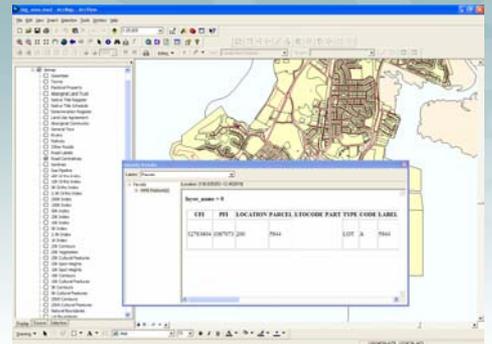
Local GIS Files  
(Shape / TAB / TIF)

# NT Data Services

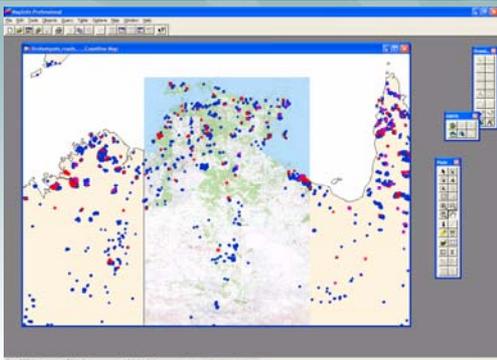
- No specific user interfaces
- Wide range of clients
  - MapInfo
  - ArcGIS
  - Web browser
  - Google Earth
  - Your custom application ?
- WMS: Web Mapping Service
- WFS: Web Feature Service
- Gazetteer / Address geocoding



# NT Data Services



# NT Data Services



# Visualisation Demonstration

Examples:-

- Public Planning forum on building heights
- Land Title Dealings – Electronic forms and lodgement