

Introducing Steve Bensberg

- Background in Local Government
- Utilised power of GIS applications
 - Recording hazard Info, improved processes
- Worked on (for CCC)
 - GIAG, Geospatial Information Advisory Group
 - GLiDAR, Govt LiDAR



Remote Sensing for Digital Elevation Models

Lots of great work
being undertaken across
central and local government



Current activities includes

- Draft standard for Vertical Datum
- Height transfer across land sea interface
- New Topo 50 map series
- National Elevation Data Framework
- Elevation Special Interest group
- Individual LiDAR & Bathymetry projects by local auth, regional councils, CRI, Govt Dpt
- Areas of Collaboration



LiDAR – So What's the Issue?

- From a national perspective
- What have we got?
- What vertical datum was used?
- What horizontal reference frame?
- What metadata is available?
- Who owns the IP?
- High entry threshold.



LiDAR – So What's the Issue?

- Can these bits of the jigsaw be fitted together?
- Is this piece of the jigsaw able to be used by others?



Already Started

- Data Integration using Ellipsoidal Heights LINZ
- Digital Elevations Models
- National Elevation Data Framework Options
- ANZLIC – metadata standard
- Inter-govt Committee Survey & Mapping
- Australia - National Elevation Data Framework
- Spatial Information Research Centre
- NZ Geospatial Strategy



Geospatial Strategy adopted 2007.

- **Governance** - Establish governance structures to optimise the benefits from govt's geospatial resources
- **Data** - Ensure, capture, preservation and maintenance of fundamental geospatial datasets, set guidelines for non-fundamental geospatial data
- **Access** – Ensure that govt geospatial info and services can be readily discovered and accessed
- **Interoperability** – Ensure that geospatial datasets, services and systems owned by different govt agencies can be combined and reused for multiple purposes



Role of Geospatial Office

- Geospatial office has responsibilities relating to these 4 key strategy goals
 - “Form the coordinating point and engine room for the development of the work programme”



This activity – Remote Sensing

- Across - Data, Access, Interoperability
- Coordinated by NZGO with funding from LGNZ & LINZ



This activity – cont'd

- Deliverables
 - Remote Sensing Inventory (LiDAR)
 - Guidelines
 - Business engagement plan – improved co-operation
- Time frame – delivered by end Oct 08.



Access

- NZGS Aim = data can be readily discovered and accessed
- Develop an inventory of existing & proposed work from across LA, RC, CRI, Govt Depts
- Record metadata
- Collaborate workspace



Data & Interoperability

- NZGS Aim = data can be combined and reused
- Aim to make use of the “expert” knowledge
- Guidance – recording and/or develop
 - Beginners guide
 - Technical specifications
 - IP ownership
 - Software
 - Integration
 - List of platforms, sensors, costs and options
- Data – set guidelines
- Interoperability – combining datasets & reuse

Co-operation

- Interaction between agencies
 - Great examples – ALGGI, Hawkes Bay
 - Share the learning – how to make it work
 - Share the technical skills
 - Expand across all of local & central govt



Benefits

- Increases ability to co-operate on joint purchasing..... Save \$\$\$
- Set minimum/common specifications
- Improve access
- Create common understanding
- Help other colleagues
- Increase future integration possibilities



How can you be involved?

- Are you open to sharing information about your agency's LiDAR?
- Would you like to have input to some of the guidance documentation?
- Would you like to be available to help others?



Contact Details

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- THANK YOU
- Any questions?

