



Survey Strategic Context - Today vs Tomorrow

A discussion document from the NZIS/LINZ Joint Working Group



The next page shows how we've defined 'today' and 'tomorrow'... (PTO)

1. Background on Survey Strategic Context

NZIS and LINZ established the **Survey Strategic Context Joint Working Group** to form an agreed view on a tomorrow state for the cadastral survey industry, and how each key player contributes

For more background <http://www.linz.govt.nz/survey-titles/cadastral-surveying/survey-strategic-context/index.aspx>

Aim: This document aims to **identify and get feedback on the challenges** in moving towards the tomorrow state

Initial research and views
Working Group Feb 09 Session
Define the Future Industry View

Working Paper 1; The future view and roles

Gain feedback

Working Group Jun 09 Session
Develop Future View and Challenges?

This working document

Gain feedback

Working Group Sep 09 Session
Refine Challenges and How to Move Forward?

Gain feedback

Final Futures Paper

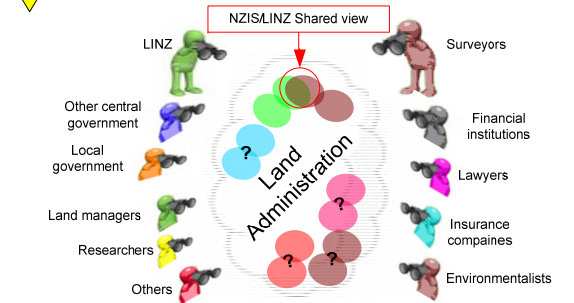
NZIS plan to move forward

LINZ plan to move forward

Joint working group process

We are now here!

2. Some context for how we considered the future...



- The NZIS and LINZ joint working group can only see our parts of the overall picture.
- We recognise there are many more players in the land administration market; some we know, some have an emerging importance and some we have no visibility of.
- Our future actions should:
 - Focus on changes and enhancements in the LINZ/NZIS area (the shared view) to increase efficiency and effectiveness.
 - Get a better understanding of the whole land administration market.

3. The challenges in moving from 'today' to 'tomorrow'...

within the wider land administration environment

Culture

- Culture gaps within central and local government
 - Not used to working with each other
 - Several failed examples – now gun-shy
- Culture gap between public and private sector
 - Different agendas
 - Different operating styles
- Culture gap in NZ with “information is power” vs “knowledge based”

Leadership

- No clear leader, either in legislation or having assumed the role
- Possible contenders; Ministry for Environment, LINZ, Department of Building and Housing or Local Government NZ

Coordination

- No mechanisms to effectively coordinate:
 - Information sharing
 - Legislation and regulation
 - Handling emerging issues, rights, roles and functions.
- Existing adhoc and isolated coordination hinders the move to a sector wide approach

Education and Awareness

- No compelling benefit statement to galvanise moving the sector beyond today's state
- Disconnect between decision makers and users of spatial information
- NZ has a low uptake of GIS in the education sector
- How can we spatially define rights in a way that can be understood?

Information Quality

- Current quality generally meets primary and independent purpose
- Beyond the primary purpose, the quality may not be understood or even known

Information Access

- Beyond the primary purpose, the information is not always discoverable, accessible or able to be integrated
- A large volume of paper records not accessible via electronic channels

We're after your feedback on these challenges – see page 3!

within the LINZ/NZIS shared view

Survey Advice

- Clear delineation where the LINZ advice stops and where the Professional Bodies' advice starts
- LINZ staff are not up to date with current Professional Bodies' practice

Research and Qualification Capability

- Professional Bodies' driven research programme to future proof and guide best practice
- The qualification driven by industry demand for best practice, and not the Survey School or regulation

Bulk Data Access and Application

- The monthly format has shaped, and is holding up, other uses of the information
- Re-sellers processing removes some quality, and this may not be recognised by users

Completeness of the Survey Data Capture Area

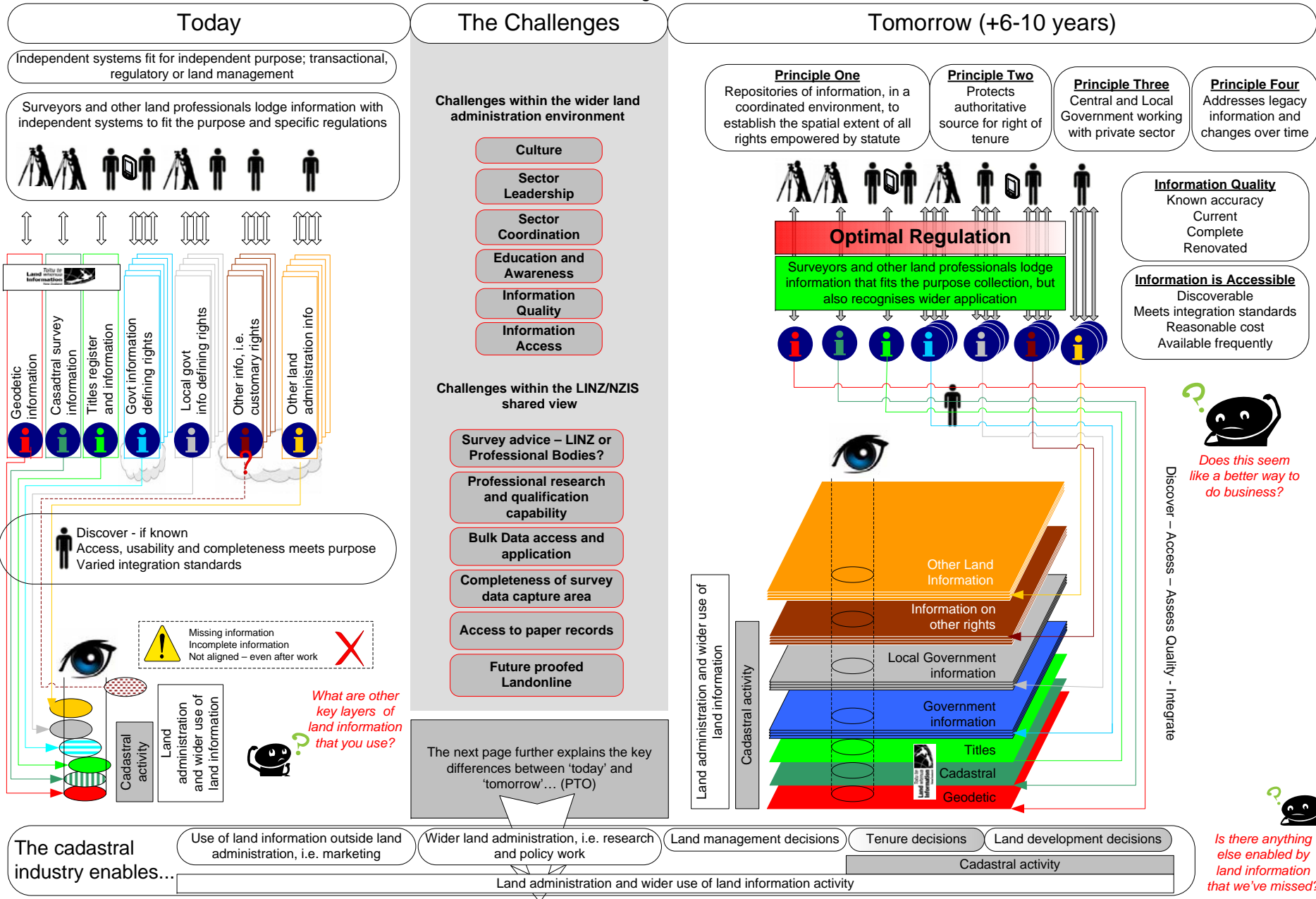
- Significant land administration activity is occurring in areas not expected when establishing the original digital database (e.g. non-SDC areas)
- These areas have accuracy and integration issues

Access to Paper Records

- Large volumes of records are held in paper form
- It is not feasible to digitize all of these and some will only have electronic indexes

Future Proof Landonline

- As a digital cadastral survey system, incremental enhancement anticipated
- Technical complexity keeping up with customers' information technology environments
- As an informational system, the future is uncertain



Today vs Tomorrow - the key differences

- **Today** the cadastral environment is focused on trading property rights and land development.
- The cadastral survey aspects are working well via Landonline as a transaction system.

- ✓ **Tomorrow** the cadastral environment will expand to include other rights and privileges, particularly for trading other rights, such as water or carbon credits, and exercising rights for the public good, such as access.
- ✓ Landonline will not be the only repository in this expanded environment.
- ✓ We need to ensure the current cadastral survey aspects are future proofed.

- **Today** information is a product of individual systems that have evolved for separate individual purposes.
- Information is effectively managed for each purpose with wider application possible.
- There is increasing demand to use that information for other, and quite different, purposes.

- ✓ **Tomorrow's** information will be collected once and used often, by various people for varied purposes.
- ✓ Information will be managed to ensure greater efficiency and effectiveness for the land administration market.

- **Today** to gain the complete picture of the spatial extent of all rights and privileges empowered by statute:
 - Known individual systems are accessed to gain the information. If you haven't asked the right people for the right information, you don't get it.
 - In some cases a third party re-seller may have processed the information. That processing may have made integration easier, but quality may have been altered without you knowing it.
 - When you assess the suitability of the information for your purpose, you may have concerns over the quality, e.g. with its accuracy, currency or completeness, but it's the best available.
 - When you come to integrate with other information with similar quality concerns, it may not align.

- ✓ **Tomorrow** the cadastral environment is based on the principle of establishing the spatial extent of all rights empowered by statute. You will know what repositories hold the required information 'layers'.
- ✓ The information is managed with consideration of wider application – this may include industry players collecting data that supersedes the individual requirement. You can easily assess the quality.
- ✓ The information complies with interoperability standards, so when integrating layers, an aligned view is established.

- ✓ Technology that uses or processes land information, such as cellphones, GPS or data management systems, will be as commonplace as technology we use now, e.g. desktop and portable devices with word processing, accounting, email, web browsing and publishing functions .

We'd like to hear your views!

- *What could be added to the 'tomorrow's' view to make it a better way of doing business?*
- *What do you see as the key challenge you'd face in moving towards 'tomorrow'?*
- *How can we best work to get clarity in the wider land administration environment?*
- *What ideas do you have for NZIS and LINZ to overcome these challenges? And how would that help you?*

Have your say...

Follow this link

<http://www.linz.govt.nz/docs/surveysystem/survey-publication/ssc-working-paper2-feedback.doc>

Have your say and send it to

jointworkinggroup@LINZ.govt.nz

By 7 September 2009

The next joint working group session is 18 September and then we'll produce the final paper late October.

Thanks for your time and input.