



Landcare Research
Manaaki Whenua



New Zealand Land Use Database & Soil Extinction

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MfE National Environmental Reporting Forum
Wellington
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Envirolink Tools Project: NZ Land Use Database & Classification

- \$225,000 inclusive of GST
- 2009 – 2011
- Champion: National Land Monitoring Forum
 - Reece Hill (EW)
 - Jeromy Cuff (ECAN)
- Project Leader
 - Dr Daniel Rutledge (Landcare Research)



Objectives

1. Land Use Information Needs: GAP Analysis & Prioritisation
2. Database Development
3. Classification and Geospatial Data Layer
4. Documentation – User Guide



Land Use Database (LUDB) Components

- 1st generation database for collecting, synthesizing, storing and reporting land use information
- 1st generation operational land use classification
- Associated geospatial land use data layer

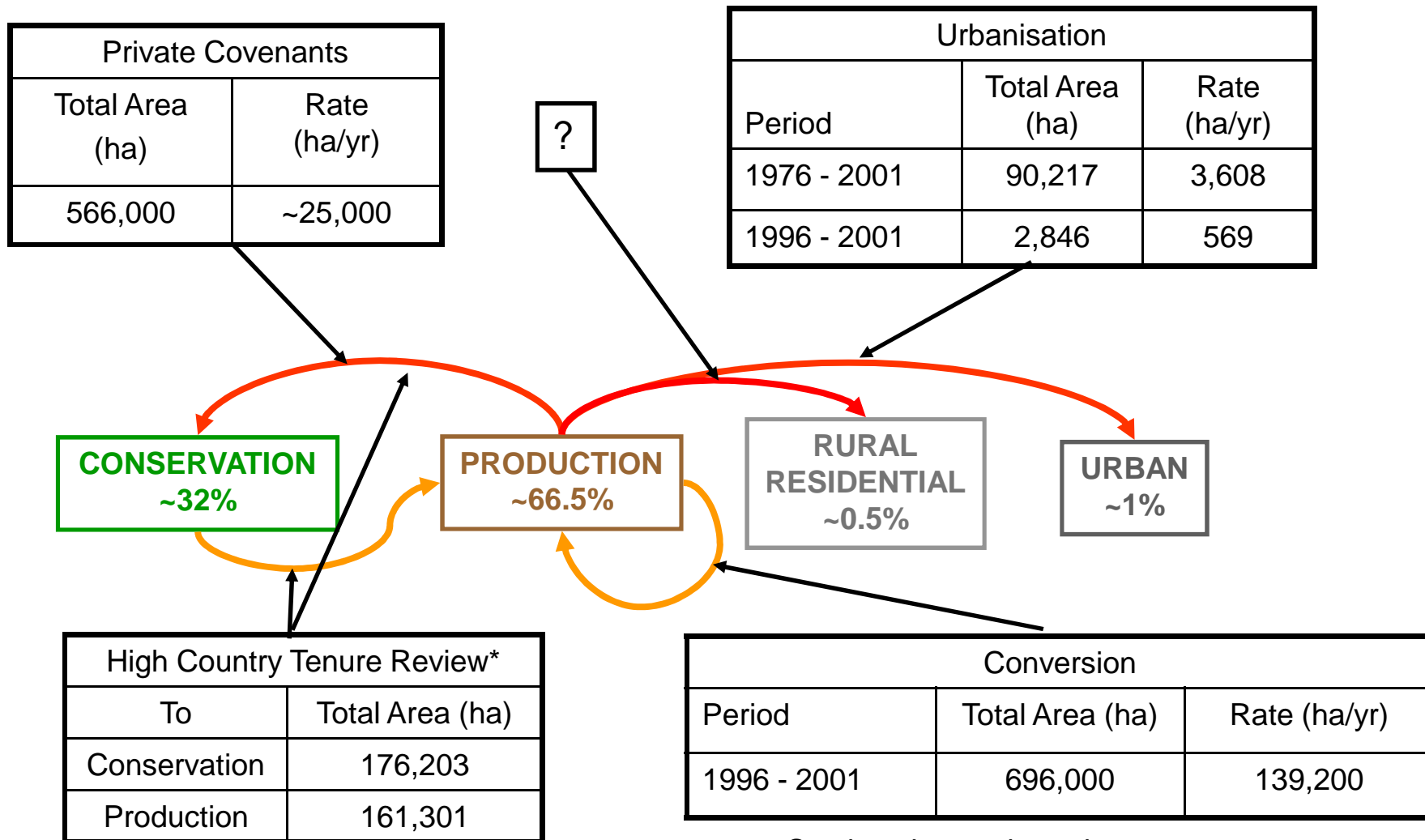


Soil Extinction

- Estimate extent and rate of soils converted to urban uses
- 1st analysis
 - Comparison of LRI to LCDB
 - National and regional summaries
 - Only national reported to date
- 2nd analysis (results forthcoming...)
 - Comparison of LRI to LCDB + Agribase
 - Summaries down to 2006 Census meshblock



Current Land Use Stock & Flow Estimates



*Data courtesy of Susan Walker, Landcare Research

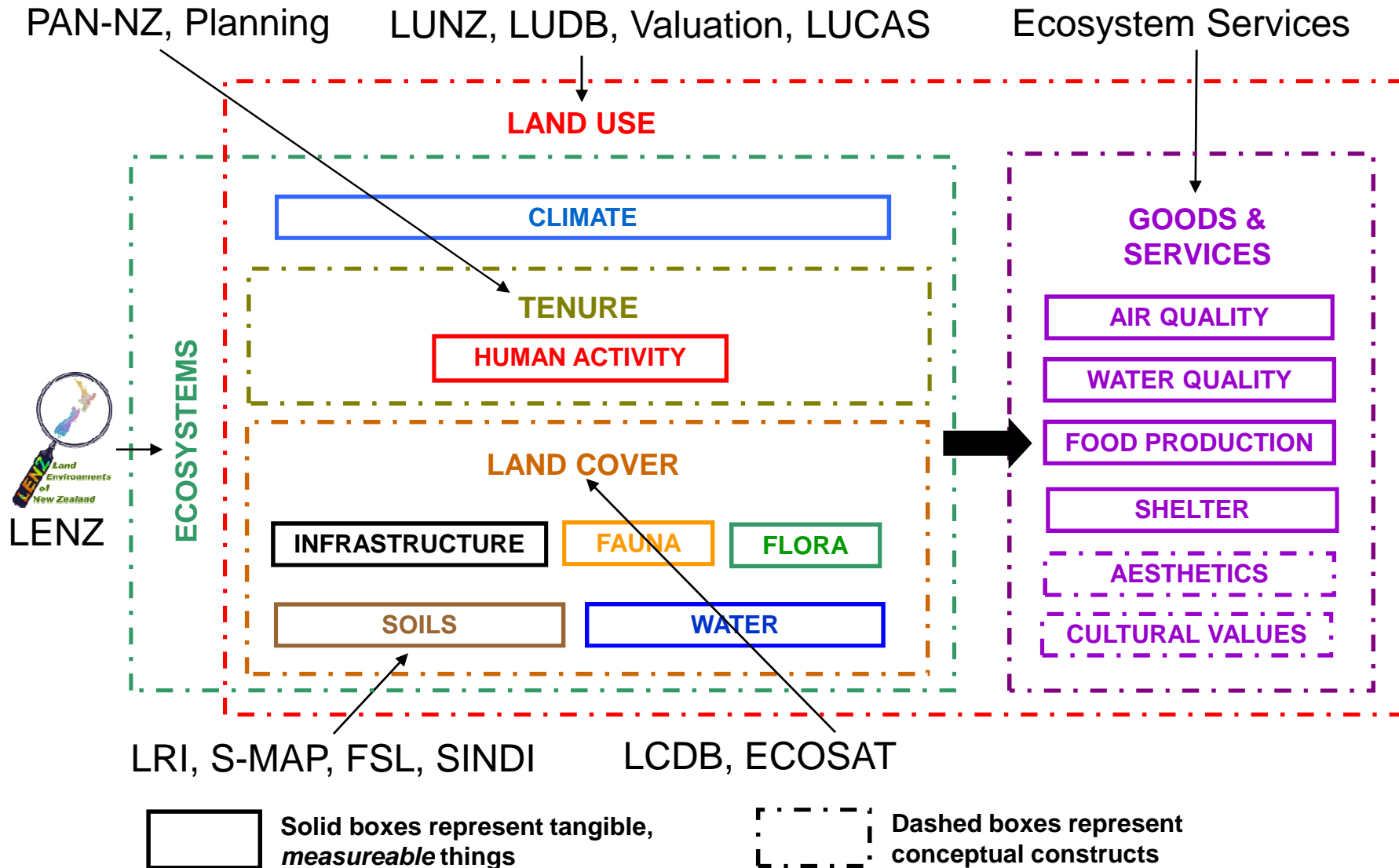
Stock estimates based on:
 Agribase
 Land Cover Database v2 (LCDB2)
 Protected Areas Network – NZ (PAN-NZ)

Soil Extinction: Consequences of Urbanisation

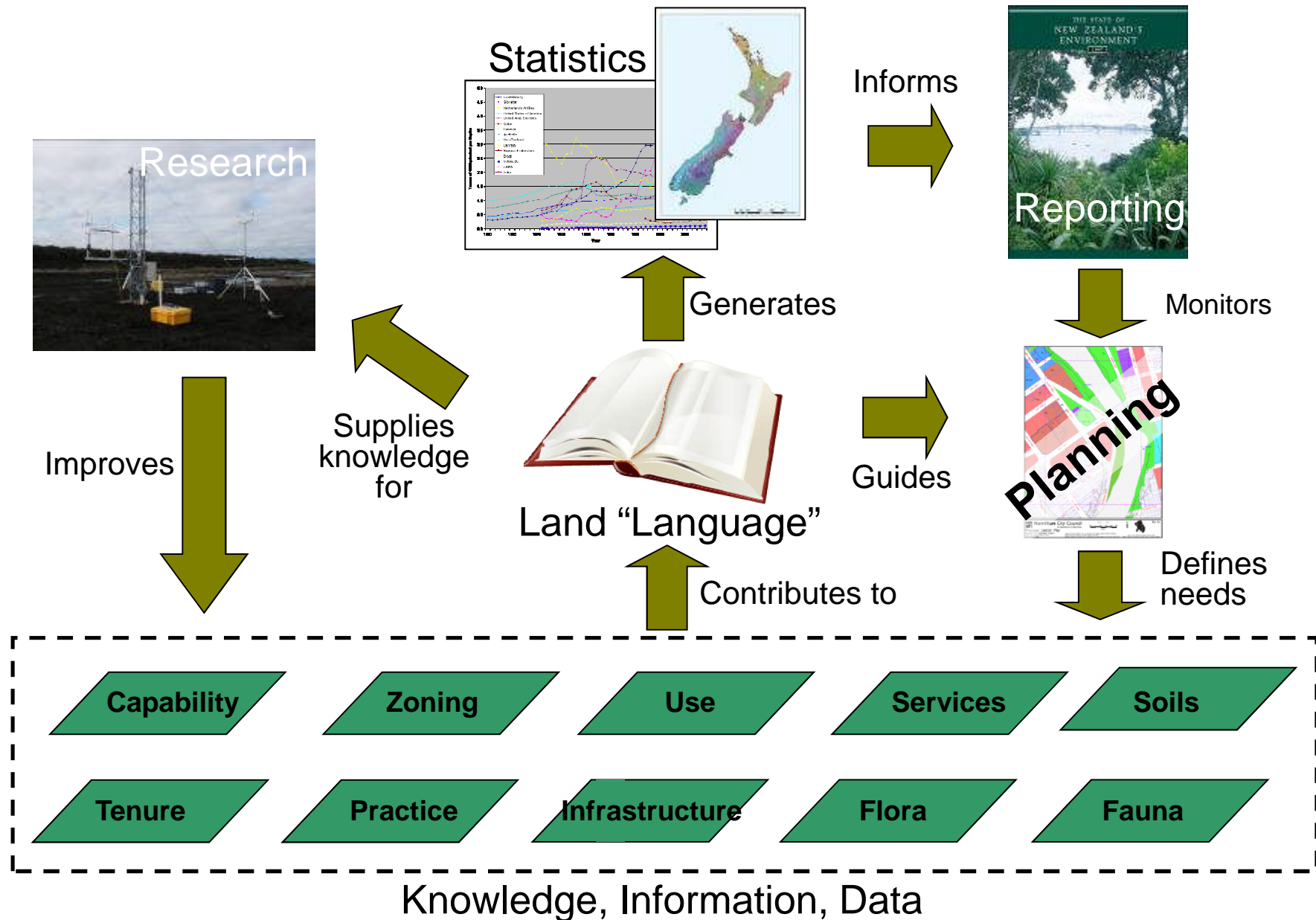
	Land Use Capability	% of Original NZ Stock	Urbanisation Rate* %/yr	Supply Remaining (Years)
Best	1	1	0.09	1,100
	2	5	0.07	1,529
	3	9	0.04	2,599
	4	11	0.03	3,718
	5	1	0.01	6,857
	6	29	0.01	11,646
	7	22	<0.01	23,391
Worst	8	22	<0.01	103,473

*Assumes 25 years

Land & Soils Big Picture



Broader Vision



Kia ora!

