Powering Official Statistics at
Statistics New Zealand with
DDI-L and Colectica



A Case Study

Authors

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Statistics New Zealand



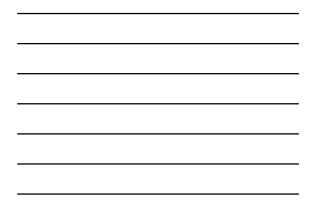
"Turning data into relevant knowledge, efficiently."

- Ensure New Zealand has the statistical information it needs to grown and prosper
- We do this by:
 - Make sure the right statistics are produced
 - Make sure as many people as possible use the statistics to support informed decision making

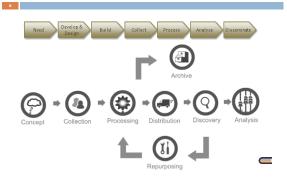
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Accommodation Survey 2004, short form (AS/SE(T), AS/SE(C)) - Accommodation 2004, short form		
Accommodation Survey 2005, long form (AS/LF(T), AS/LF) - Accommodation 2005, long form		
Accommodation Survey 2005, short form (AS/SF, AS/SF(T)) - Accommodation Survey, short form		
Accommodation Survey 2006 (AO/SQ/01) - Scoping Questionnaire		
Accommodation Survey 2007 (AO(BI/01) - Accommodation		
Accommodation Survey 2010 (AO/BI/01) - Accommodation		
Accommodation Survey (date unknown) (AO/SF/01) - Shortform		
Accommodation Survey (date unknown) (AO/SQ/01) - Scoping Questionnaire		
Agricultural Production Census 2002 (AP/EP/01) - Agriculture, Horticulture, Forestry		
Agricultural Production Census 2007 (AP/EP/01) - agriculture, census, livestock, horticulture, forestry, fa	arming	
Agricultural Production Census 2012 (AP/EP/01) - Agriculture, Livestock, Arable, Forestry, Horticulture		
Agricultural Production Survey 1996 (AP/FS/LH) - Livestock, Horticulture		
Agricultural Production Survey 1999 (AP/EB/06) -		
Agricultural Production Survey 2000 (AP/EB/07) - Horticulture		
Agricultural Production Survey 2003 (AP/EP/01) - Agriculture, Horticulture, Forestry		
Agricultural Production Survey 2004 (AP/EP/01) - Agriculture, Horticulture, Forestry		
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Agricultural Production Survey 2008 (AP/EP/01) - Agriculture, Horticulture, Forestry		
Agricultural Production Survey 2009 (AP/EP/01) - Agriculture, Horticulture, Forestry		
Agricultural Production Survey 2010 (AP/EP/01) - Agriculture, Livestock, Arable, Forestry		
Agricultural Production Survey 2011 (AP/EP/01) - Agriculture, Arable, Livestock, Forestry, Horticulture		
Annual Enterprise Survey 2007/2008 (AF/ACI01) - Services to Agriculture		
Annual Enterprise Survey 2007/2008 (AF/AC/PF) - Services to Agriculture		
Annual Enterprise Survey 2007/2008 (AF/AL/1E) - Summary of Accounting Divisions		
Annual Enterprise Survey 2007/2008 (AF/AL/B) - Statement of Financial Position		
Annual Enterprise Survey 2007/2008 (AE/BC/01) - Construction		
Annual Enterprise Survey 2007/2008 (AF/BC/PF) - Construction		
Annual Enterprise Survey 2007/2008 (AF/BT/01) - Building Trades		



DDI Data Lifecycle



Statistics New Zealand Metadata

Infrastructure Project



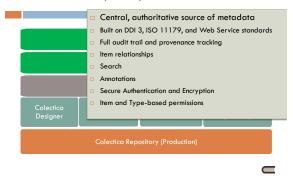
- Create canonical sources for key information created and used during the statistical business process
- Solution: central repositories

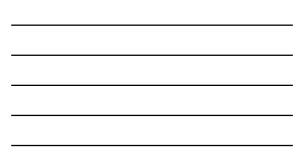
Overview

- 1. Use of Colectica at Statistics New Zealand
- 2. Colectica Integration
- 3. Results

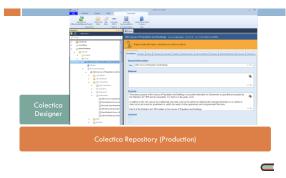
Use of Colectica at Statistics New Zealand

Architecture: Repository





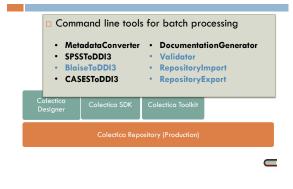
Architecture: Designer

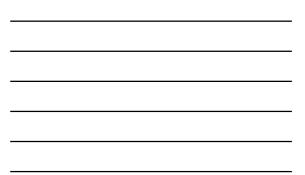


Architecture: SDK



Architecture: Toolkit

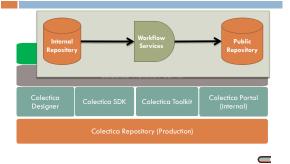




Architecture: Portal

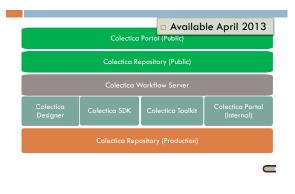


Architecture: Publication Workflow

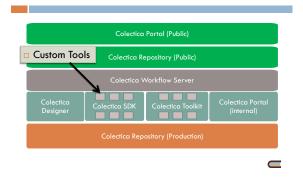




Architecture: Public Portal

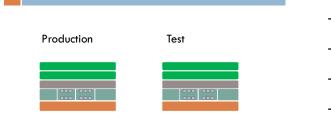


Architecture: Not Quite a Complete Picture





Architecture: Production and Test Environments



Colectica Integration

Getting to Production

Option 1		Goal
Build from scratch		~
Option 2		Goal
	Exten	

Extending Colectica

- Versioning and synchronization improvements
- Item-level and item-type permissions
- Repository usage statistics
- Colectica Portal customization
- Colectica Workflow Services

Colectica SDK for custom integrations

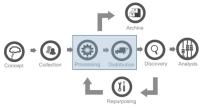
Integration: Questionnaire Design

- Old: Questionnaire designers create static flow charts, give to Blaise programmers
- New: Application team created a prototype tool that pulls questions from Colectica, allows design of question flow, and creates Blaise



Integration: Additional Tools

- Data Processing
- Data Dissemination



Results

Key Result 1 – Metadata Capture



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"We used to record all metadata at the end of the lifecycle."

"Now, survey designers capture the information when they first think of it."

Key Result 2 - Archiving

- Old Process:
 - Manually mark up DDI 2 XML
- New Process:
 - Information is entered into Colectica
 - A program grabs DDI from Colectica, harvests all information from network drives, ingests into Archive
 - Archivists just have to understand Colectica
 - With content guidelines created by Statistics New Zealand, this is very easy

Key Result 2 - Archiving



Facts and Figures

Datasets

Creators



200 1,008



20 - 40 219

Metadata Unique Portal Users

Series

Future of Colectica and NSOs

- Improving support for GSIM
- □ Continue to improve usability of the Colectica interface for those unfamiliar with DDI
- □ Continue to work with statistical agencies to tailor Colectica to their needs and meet their goals of modernisation

Thank You

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