

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



A Case Study

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Statistics New Zealand



“Turning data into relevant knowledge, efficiently.”

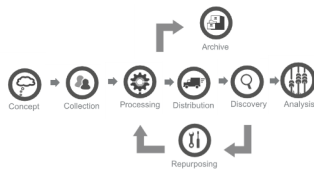
- Ensure New Zealand has the statistical information it needs to grown and prosper
- We do this by:
 - Make sure the right statistics are produced
 - Make sure as many people as possible use the statistics to support informed decision making



6



Statistics New Zealand Metadata Infrastructure Project



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

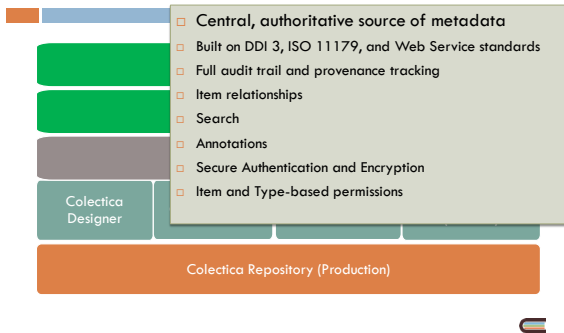


Overview

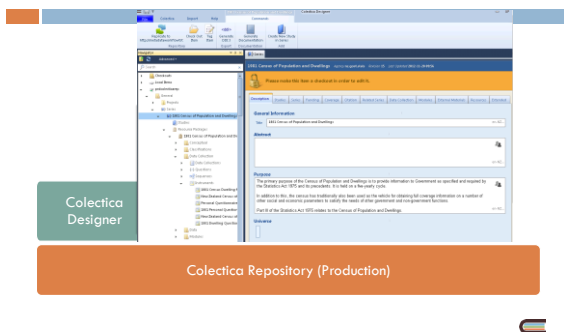
1. Use of Colectica at Statistics New Zealand
2. Colectica Integration
3. Results

Use of Colectica at Statistics New Zealand

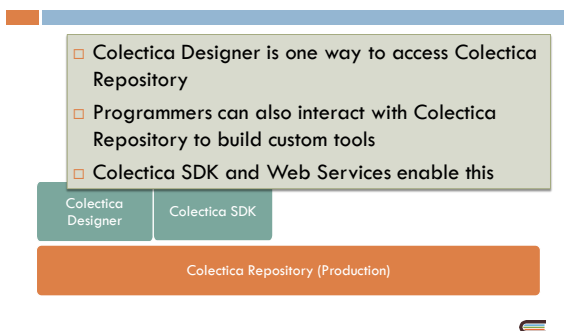
Architecture: Repository



Architecture: Designer



Architecture: SDK



Architecture: Toolkit

□ Command line tools for batch processing

- **MetadataConverter**
- **SPSSToDDI3**
- **BlaiseToDDI3**
- **CASESToDDI3**
- **DocumentationGenerator**
- **Validator**
- **RepositoryImport**
- **RepositoryExport**

Colectica Designer

Colectica SDK

Colectica Toolkit

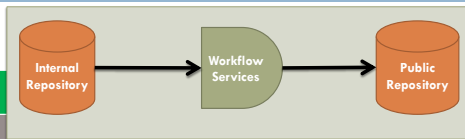
Colectica Repository (Production)

Architecture: Portal



Colectica Designer

Architecture: Publication Workflow



Colectica Designer

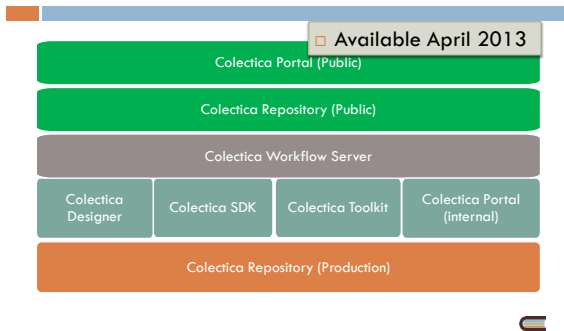
Colectica SDK

Colectica Toolkit

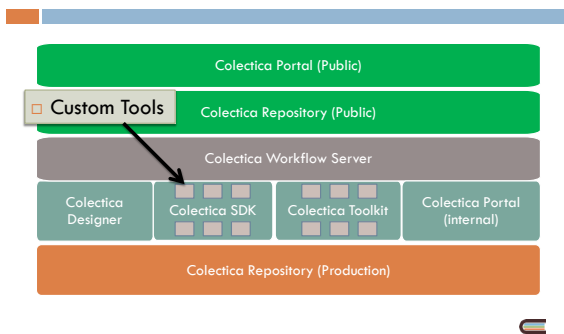
Colectica Portal (internal)

Colectica Repository (Production)

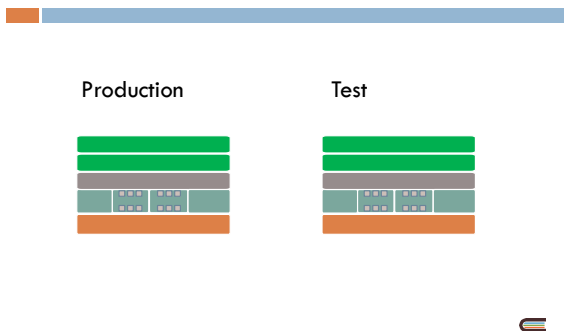
Architecture: Public Portal



Architecture: Not Quite a Complete Picture



Architecture: Production and Test Environments



Colectica Integration

Getting to Production

Option 1

Build from scratch

Goal

Option 2

Goal

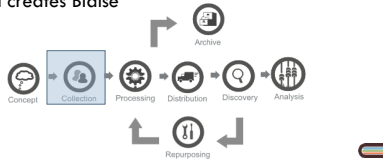
Extend

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

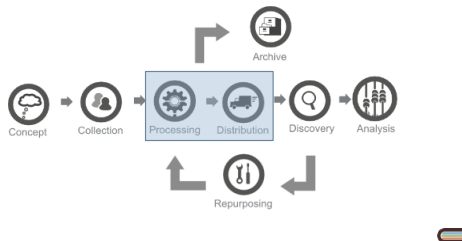
Integration: Questionnaire Design

- ❑ **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



“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

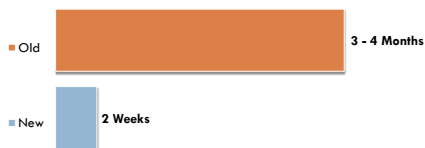
New Process:

- 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

Time to Train Archivists



Facts and Figures



1,008

Datasets

200

Series



20 - 40

Metadata
Creators

219

Unique
Portal Users



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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