



Smarter Solutions for a Smarter Government.

Welcome to the Smarter Government Briefing Series

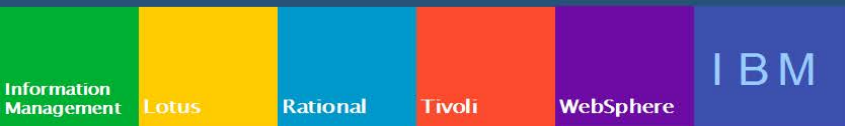
6th Session - Thursday, December 2

Workforce Analytics, Reporting and Performance Management
(with a Geospatial view)

Alan Simpson
QLD Government Director
Public Service Commission

Conrad Bates
Managing Partner
C3 Business Solutions

IBM Software Industry Solutions



Agenda

1. Transformation of HR data to HR information
 - Alan Simpson

Lunch

2. Adding a Geospatial Twist
 - Conrad Bates

Desert

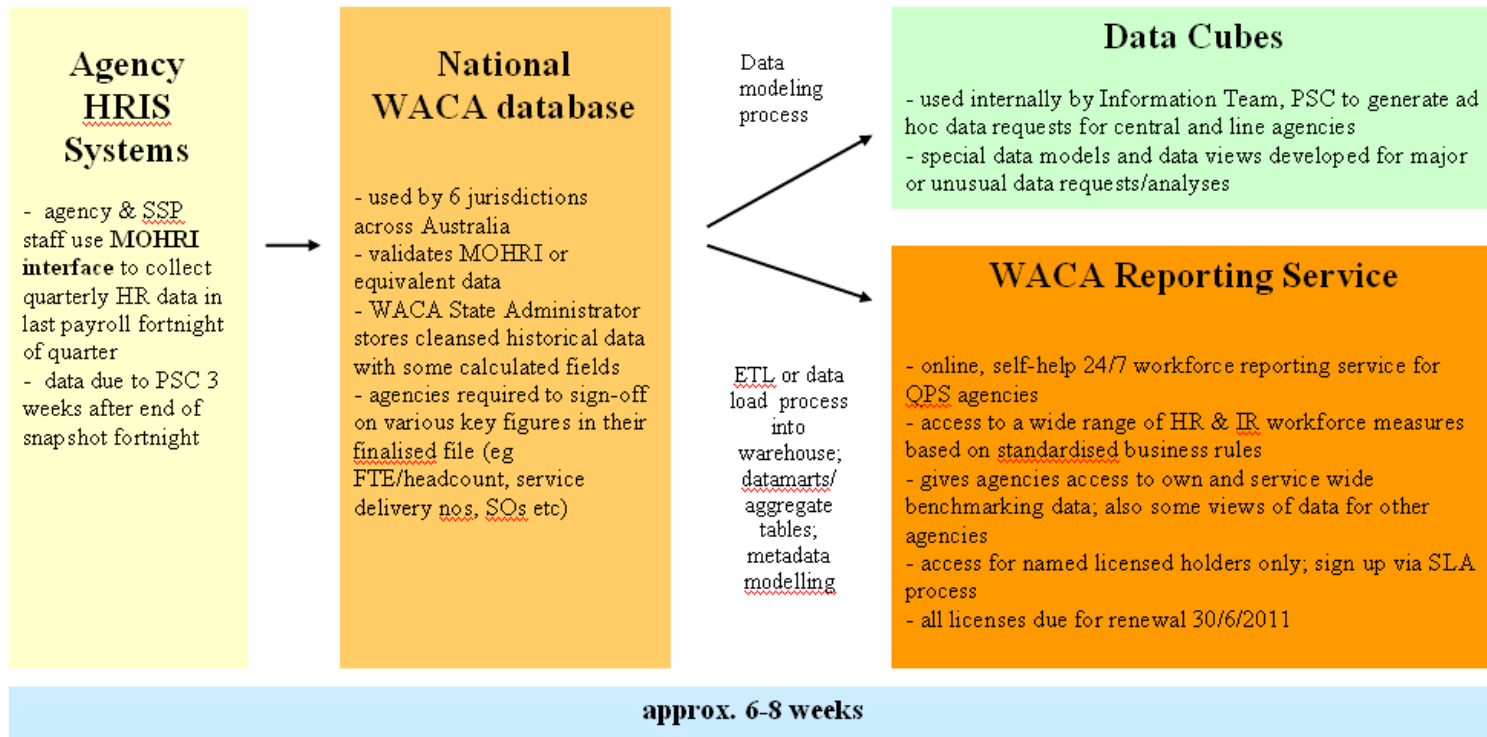
Transformation of HR data to HR information

Alan Simpson, Director, PSC
2 Dec 2010, Melbourne

Every day, business questions need answers from HR data..

- ..we want a detailed analysis of our PO2 and PO3 workforce profiles & want it compared to the profiles of 5 other agencies as well as public service benchmarks..
- ..how does the ageing workforce affect key occupational groups across the workforce..
- ..what's the recruitment & retention profile for our Indigenous employees like..& how does it compare over the last 3 years?
- ..classification creep – is it real or just a myth?
- ..explain the % growth in the QPS over the last year, in terms of key occupational groups & agencies..
- ..tell us the impact of changing paid maternity leave provisions by x weeks..or how about by y weeks..
- ..if we were to move X group out of the CBD & into Y location, how does this affect public service profiles in X & Y areas?
- ..if we were to negotiate a 4.2% salary increase for xx group of employees, what would this mean for the salary bill? How many employees would be affected? What if it was a 4.5% increase...or maybe 4.0%?

The Qld process – raw HR data in & HR management information out



NOTES:

HRIS – Human Resource Information Systems (agency payroll systems)

WACA – Workforce Analysis and Collection Application (national system to collect, cleanse & store historic data)

MOHRI – Minimum Obligatory Human Resource Information (the data that goes into the WACA)

WACA – used by 6 Australian jurisdictions to collect/validate workforce data

The screenshot shows a Microsoft Internet Explorer browser window titled "Workforce Analysis & Collection Application - Microsoft Internet Explorer". The address bar displays "https://www.waca.org.au/". The main content area features the title "Workforce Analysis & Collection Application" and logos for six Australian jurisdictions: Queensland Government (with the text "WACA Reporting Service Portal" below it), Victoria, Government of South Australia, Tasmania, The Government of Western Australia, and ACT Government. A "WACA Logon" dialog box is overlaid on the page, containing fields for "Username:" and "Password:", and a "Logon" button. Below the dialog box, the text "Version 2.00" is visible.

WACA workforce analysis & collection application

Home File Validation Reports Admin Knowledge Misc. Log Off

W Last validation result : Summary

Summary

Note: the Validation Result errors by record ID and the Summary by Field Displayed in One Page reports can take a couple of minutes depending on the number of validation errors in your file

Field	Value
Year & Quarter	2008, 1
Number of Records in File	912
Active/Paid	
A/P Headcount	605
A/P FTE's	567.21
A/P Permanent FTE's	381.87
Corporate Services / Service Delivery	
A/P Corporate Services FTE	37.80
A/P Front Line FTE	167.06
A/P Support FTE	362.35
Flag Breakdown	
Number of (M)OHRI Only Record	0
Number of (B)oth MOHRI & ELSLER Record	912
Number of (E)LSLER Only Record	0
Number of (X)EEO & ELSLER Record	0
Number of (Z)EEO Only Record	0
Valid Separation Date	261
Record with at least one Fatal Error	912
Record with at least one Warning Error	595

Agencies must electronically sign-off on their files

– ie that they agree with the key figures in this WACA summary report

Data cubes – fast ad hoc reporting as well as in-depth analysis

PowerPlay - [PPlay1 of short cube6 2010-q3 (Explorer)]

File Edit View Insert Explore Calculate Format Tools Window Help

Period: 2010-Q3 Active/Paid All Agencies Org Level Service Delivery Sex Appt Type FT/PT/Casual Excluder Tenure Group Age Group

Projected Year of Age Retirement Generation X & Y (Year of birth) Location Local Govt Auth State Electorate Geo Feature Name Address Agency Occ Codes

Occupational (highest) Occupational (lowest) Graduate Indicator Class Group Increment \$ Annual Earnings (head) \$ Annual Salary (head) \$ Annual Salary (FTE)

\$ Annual Earnings (FTE) Salary Levels (1-10) - FTEs Earning Levels (1-10) - FTEs All Awards PSA(s) & OPS Awards/Rest EB Name Legislation Indigenous NESB Disability

Hours Per Week Counter - Separation QPS - Permanent Separation Reason MEASURES

	Less than 1	1 to less than 3	3 to less than 5	5 to less than 10	10 to less than 20	20+	Tenure Group
Anti-Discrimination Commission Qld	21.88%	12.50%	9.38%	21.88%	21.88%	12.50%	100.00%
Comm for Children & Young People & Child C	9.87%	28.61%	18.99%	32.15%	6.84%	3.54%	100.00%
Communities	11.11%	19.29%	16.62%	23.25%	20.35%	9.37%	100.00%
Community Safety	7.94%	18.02%	12.07%	17.74%	24.02%	20.21%	100.00%
Education & Training (incl SSP5)	8.06%	12.54%	10.33%	19.51%	27.91%	21.65%	100.00%
Electoral Commission Qld	6.06%	21.21%	9.09%	6.06%	21.21%	36.36%	100.00%
Employment, Economic Development & Innov	9.99%	13.86%	10.91%	18.31%	23.48%	23.44%	100.00%
Environment & Resource Management	8.97%	11.98%	13.17%	16.65%	23.38%	25.86%	100.00%
Health	12.13%	18.13%	14.60%	19.29%	21.69%	14.15%	100.00%
Infrastructure & Planning	17.78%	22.25%	10.28%	13.66%	20.68%	15.36%	100.00%
Justice and Attorney-General	12.90%	17.17%	13.38%	19.60%	20.43%	16.54%	100.00%
Legal Aid	10.90%	17.82%	11.53%	23.69%	23.90%	12.16%	100.00%
Museum	16.55%	14.79%	10.21%	22.54%	23.24%	12.68%	100.00%
Police	6.25%	13.07%	11.55%	18.49%	26.20%	24.45%	100.00%
Premier and Cabinet	12.18%	18.95%	12.93%	18.50%	23.91%	13.53%	100.00%
Public Service Commission	11.76%	16.18%	11.47%	13.24%	35.29%	22.06%	100.00%
All Agencies	9.91%	15.78%	12.70%	19.01%	24.04%	18.55%	100.00%

For Help, press F1.

WACA Reporting Service – agency access to reports

- Online portal linking to interactive benchmarking reports
- Reports benchmark an agency's workforce performance against that of the Queensland Public Service, over time
- Range of HR and IR measures are benchmarked, based on Minimum Obligatory Human Resource Information (MOHRI)
- Reporting portal is accessed by licensed agency users via the WACA.

Benefits

- Only source of validated whole of public service HR benchmarking data
- Access generally 24/7 from any PC/laptop with an internet connection
- More comprehensive report content – a greater range of performance measures available than in previous reporting system and new data views developed
 - some new performance measures – average age of recruits; recruitment rate; permanency ratio; retirements in next 10 years; measures relating to purchased leave and recreation leave costs and balances
 - some new data views – quartiles; rankings; Executive Dashboard for quick high level performance checking;
- Access to as much historic agency data as possible even given the demanding constraints of MOG changes on trend analysis

Accessing the WACA Reporting Service

- To access the WACA Reporting Service, an agency must sign a Service Level Agreement (SLA) with the PSC
- SLA details licensing requirements, fee schedule and services which will be supplied by the PSC. It also outlines agency responsibilities

Security

- To protect the confidential MOHRI data, the Public Service Commission have invested in an SSL (secure sockets layer) certificate with 128-bit encryption
- The use of a “https:” prefix in the WACA web address ensures an additional encryption/authentication layer
- In reports, data is displayed at aggregate levels not employee record level

WACA Reporting Service – sample portal screen

 **Message Board**
05-10-2009: Welcome to the WACA Reporting Service

Sample Agency

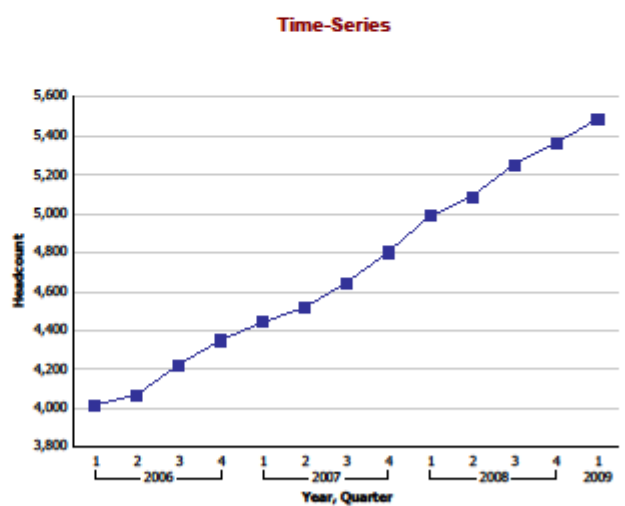
 [Click here to change agency](#)

Reports:
[Workforce Performance Report](#)
- Available Data Periods: 2006-Q1 to 2009-Q1

Key Workforce Statistics:

Quarterly Snapshot

Key Measures	2009-Q1
	Sample Agency
Headcount	5,486
FTE	5,361.82
QPS Separation Rate	1.29%
Average Age	41.63
Average QPS Tenure Years	11.26
Average Age of Recruitment	35.12
Average Age of Retirement	60.38
Absenteeism Rate	2.87%
Sick Leave Rate	2.47%
Purchased Leave Rate	0.00%
Percentage Higher Duties	15.53%
Permanent Headcount Percentage	89.12%
Part-time Headcount Percentage	4.01%
Salary Sacrifice Headcount Percentage	41.78%
Average Annual Earnings (FTE)	\$60,607
Average Annual Salary (FTE)	\$60,336
Total Recreation Leave Liability	\$29,368,567
Average Recreation Leave Hours Accrued	156.78



Select year and quarter:

Select graph measure:

DO NOT USE FIGURES - SAMPLE REPORT ONLY

WACA Reporting Service – sample dashboard report screen



Workforce Performance Report



Sample Agency *DO NOT USE FIGURES - SAMPLE REPORT ONLY*

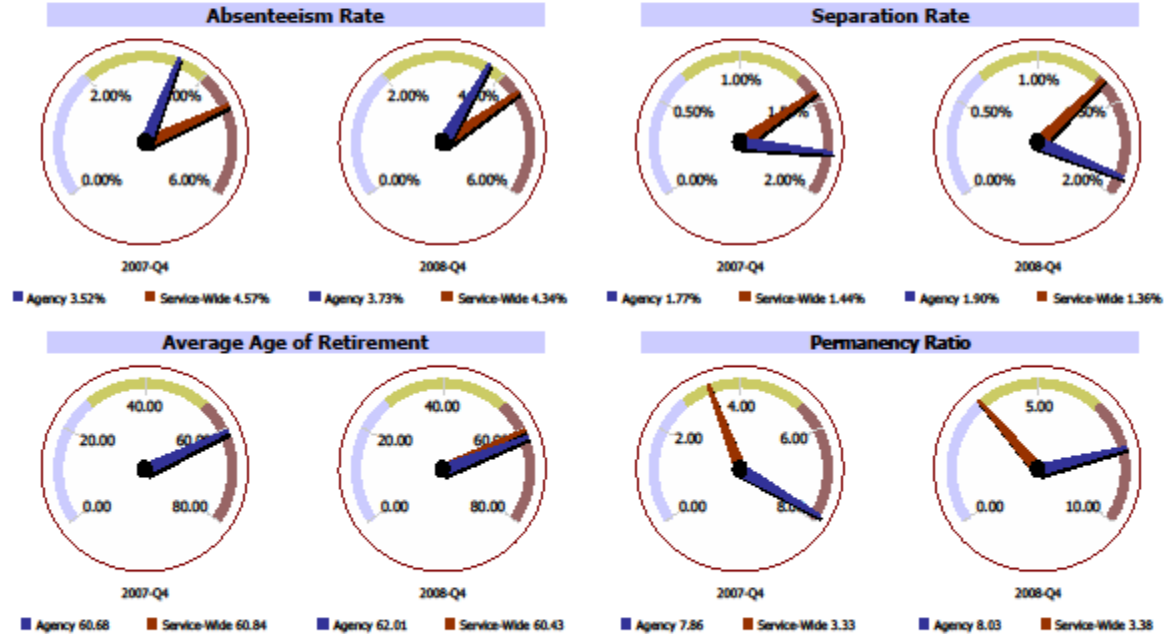
[Printable PDF View of this Page](#)

Summary Reports
[Executive Summary](#) [HTML](#) [PDF](#)

- Detailed Information**
- [Size and Composition](#) [HTML](#) [PDF](#)
 - [Separations](#) [HTML](#) [PDF](#)
 - [New Recruits](#) [HTML](#) [PDF](#)
 - [Higher Duties](#) [HTML](#) [PDF](#)
 - [Unscheduled Leave](#)
 - [Total Absenteeism](#) [HTML](#) [PDF](#)
 - [Sick Leave](#) [HTML](#) [PDF](#)
 - [Carer's Leave](#) [HTML](#) [PDF](#)
 - [Worker's Comp.](#) [HTML](#) [PDF](#)
 - [Scheduled Leave](#)
 - [Recreation Leave](#) [HTML](#) [PDF](#)
 - [Purchased Leave](#) [HTML](#) [PDF](#)
 - [Average Age](#) [HTML](#) [PDF](#)
 - [Age Group Profile](#) [HTML](#) [PDF](#)
 - [Average Tenure](#) [HTML](#) [PDF](#)
 - [Tenure Group Profile](#) [HTML](#) [PDF](#)
 - [Earnings and Salary](#) [HTML](#) [PDF](#)

[Click here to change report time periods](#)

	Headcount		FTE	
	2007-Q4	2008-Q4	2007-Q4	2008-Q4
Agency	4,801	5,362	4,711.28	5,263.03
Service-Wide	214,795	224,346	183,203.99	191,179.00



SAMPLE REPORT ONLY - DO NOT USE FIGURES
 This SAMPLE report is based on Minimum Obligatory Human Resource Information (MOHRI).

[Link to Business Rules and Notes](#)

WACA Reporting Service – sample executive summary report



Workforce Performance Report



Sample Agency *DO NOT USE FIGURES - SAMPLE REPORT ONLY*

Report Chapter: Executive Performance Summary

Key Measures	2007-Q4			2008-Q4		
	Agency	Service-Wide	Performance against Service-Wide	Agency	Service-Wide	Performance against Service-Wide
Absenteeism Rate (%)	3.52	4.57	▼ -1.05	3.73	4.34	▼ -0.61
Average Age of Retirement	60.68	60.84	▼ -0.16	62.01	60.43	▲ 1.58
Disability Rate (% of Headcount)	10.62	6.02	▲ 4.60	9.32	6.05	▲ 3.27
Employees on Higher Duties (%)	20.25	14.78	▲ 5.47	19.02	15.01	▲ 4.01
Female Proportion (% of Headcount)	30.39	66.17	▼ -35.78	32.88	66.55	▼ -33.67
Front Line Service Delivery (% of FTE)	35.54	77.73	▼ -42.19	32.92	79.57	▼ -46.65
Indigenous Rate (% of Headcount)	0.79	2.21	▼ -1.42	0.80	2.17	▼ -1.37
NESB Rate (% of Headcount)	6.48	8.12	▼ -1.64	6.19	9.76	▼ -3.57
Permanent Employees (%)	87.07	76.42	▲ 10.65	87.43	76.65	▲ 10.78
Permanent Recruitment Rate (%)	11.08	5.29	▲ 5.78	12.01	5.23	▲ 6.78

SAMPLE REPORT ONLY - DO NOT USE FIGURES

This SAMPLE report is based on Minimum Obligatory Human Resource Information (MOHRI).

[Link to Business Rules and Notes](#)

WACA Reporting Service – sample report page from size & composition chapter



Workforce Performance Report



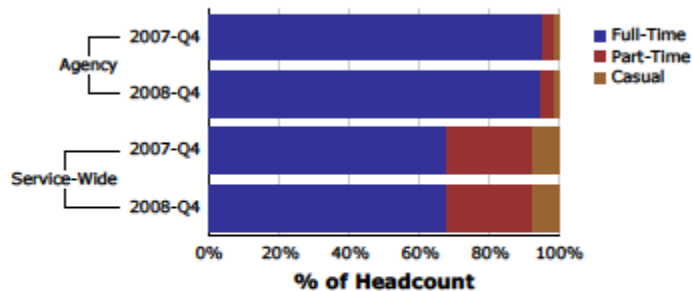
Sample Agency *DO NOT USE FIGURES - SAMPLE REPORT ONLY*

Report Chapter: Size and Composition

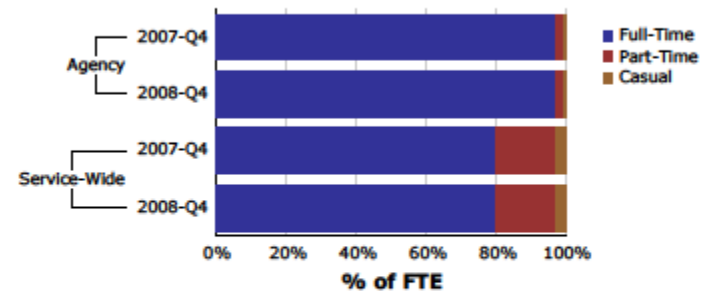
Headcount		2007-Q4	2008-Q4	Headcount Growth	Headcount % Growth
Agency	Full-Time	4,578	5,109	531	11.60%
	Part-Time	170	200	30	17.65%
	Casual	53	53	0	0.00%
	Total	4,801	5,362	561	11.69%
Service-Wide	Full-Time	146,428	152,368	5,940	4.06%
	Part-Time	52,392	55,722	3,330	6.36%
	Casual	15,975	16,256	281	1.76%
	Total	214,795	224,346	9,551	4.45%

FTE		2007-Q4	2008-Q4	FTE Growth	FTE % Growth
Agency	Full-Time	4,577.94	5,108.95	531.01	11.60%
	Part-Time	106.48	124.75	18.27	17.16%
	Casual	26.86	29.33	2.47	9.20%
	Total	4,711.28	5,263.03	551.75	11.71%
Service-Wide	Full-Time	146,412.97	152,351.06	5,938.09	4.06%
	Part-Time	30,998.96	33,148.57	2,149.61	6.93%
	Casual	5,792.06	5,679.37	-112.69	-1.95%
	Total	183,203.99	191,179.00	7,975.01	4.35%

% of Headcount by Full-time/Part-time/Casual



% of FTE by Full-time/Part-time/Casual



SAMPLE REPORT ONLY - DO NOT USE FIGURES

This SAMPLE report is based on Minimum Obligatory Human Resource Information (MOHRI).

[Link to Business Rules and Notes](#)

WACA Reporting Service – sample report page from size & composition chapter



Workforce Performance Report

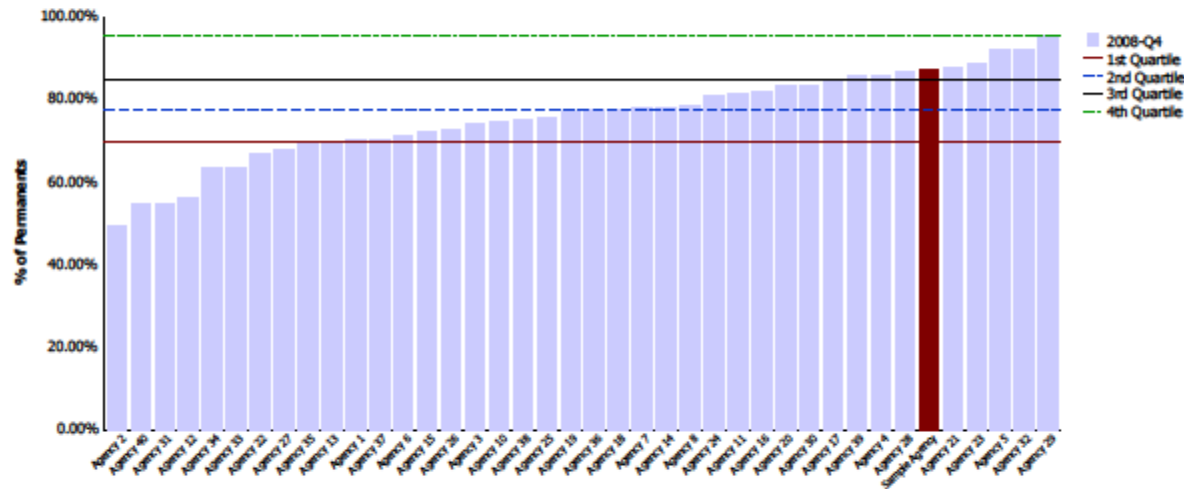


Sample Agency *DO NOT USE FIGURES - SAMPLE REPORT ONLY*

Report Chapter: Size and Composition

% of Permanents by Quartiles

2008-Q4

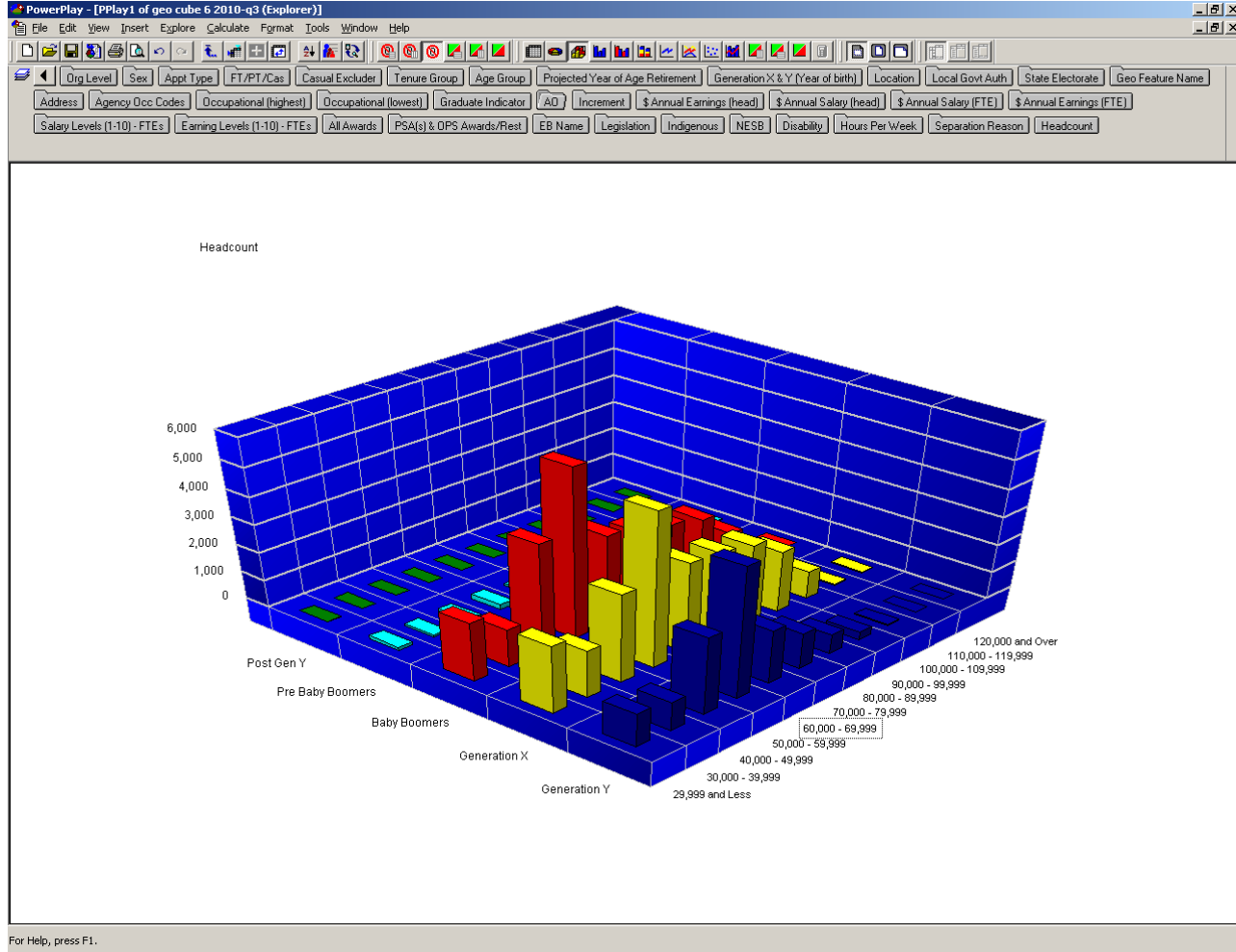


Tip: Quartiles Graph
 Quartiles divide a set of measurements (eg average age; absenteeism rate etc.) into 4 equal parts. 25% of the measurements are lower than the 1st quartile. 50% of the measurements are less than the median or 2nd quartile. 75% of the measurements are less than the 3rd quartile. Therefore, 50% of the measurements fall between the 1st and 3rd quartiles.

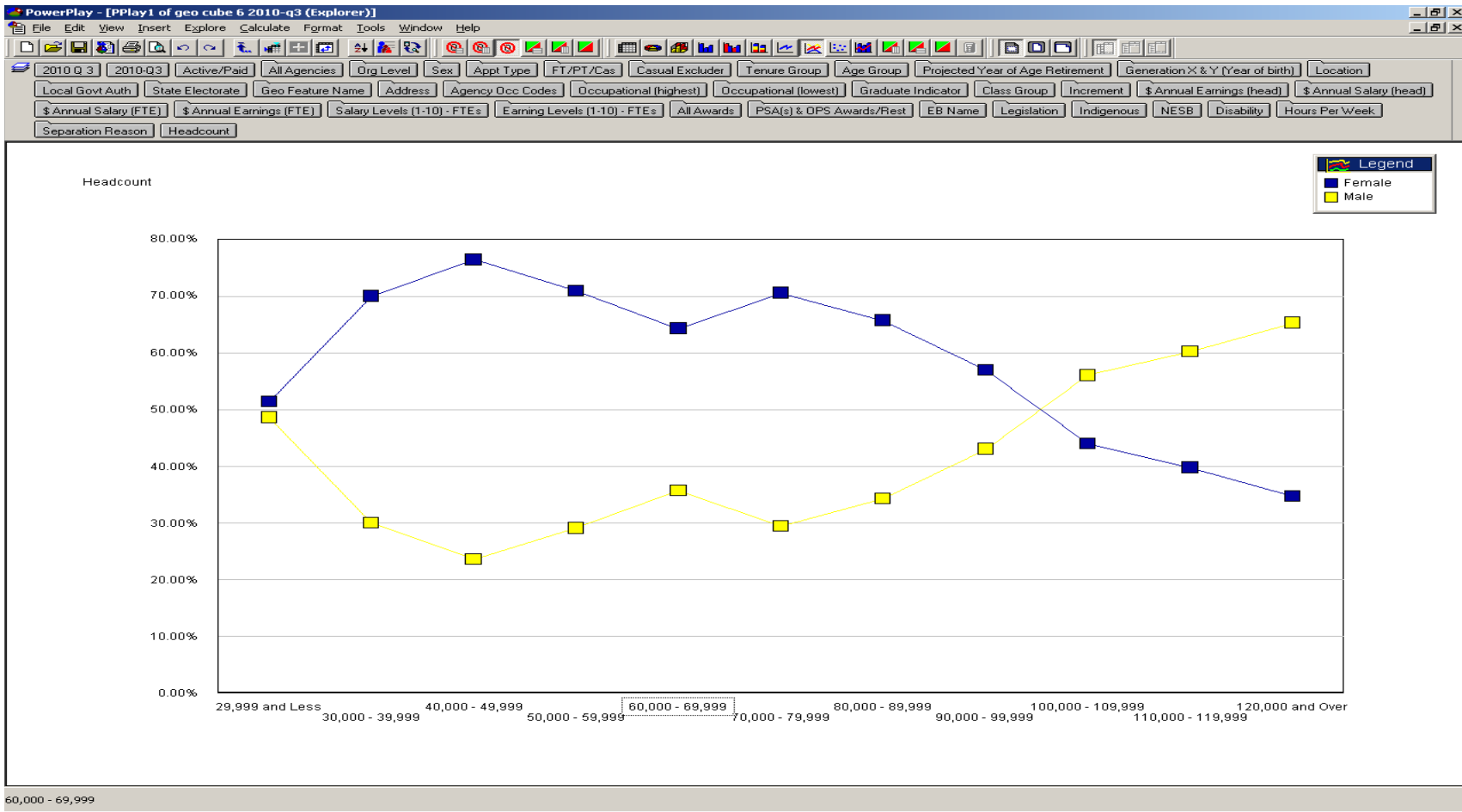
SAMPLE REPORT ONLY - DO NOT USE FIGURES
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[Link to Business Rules and Notes](#)

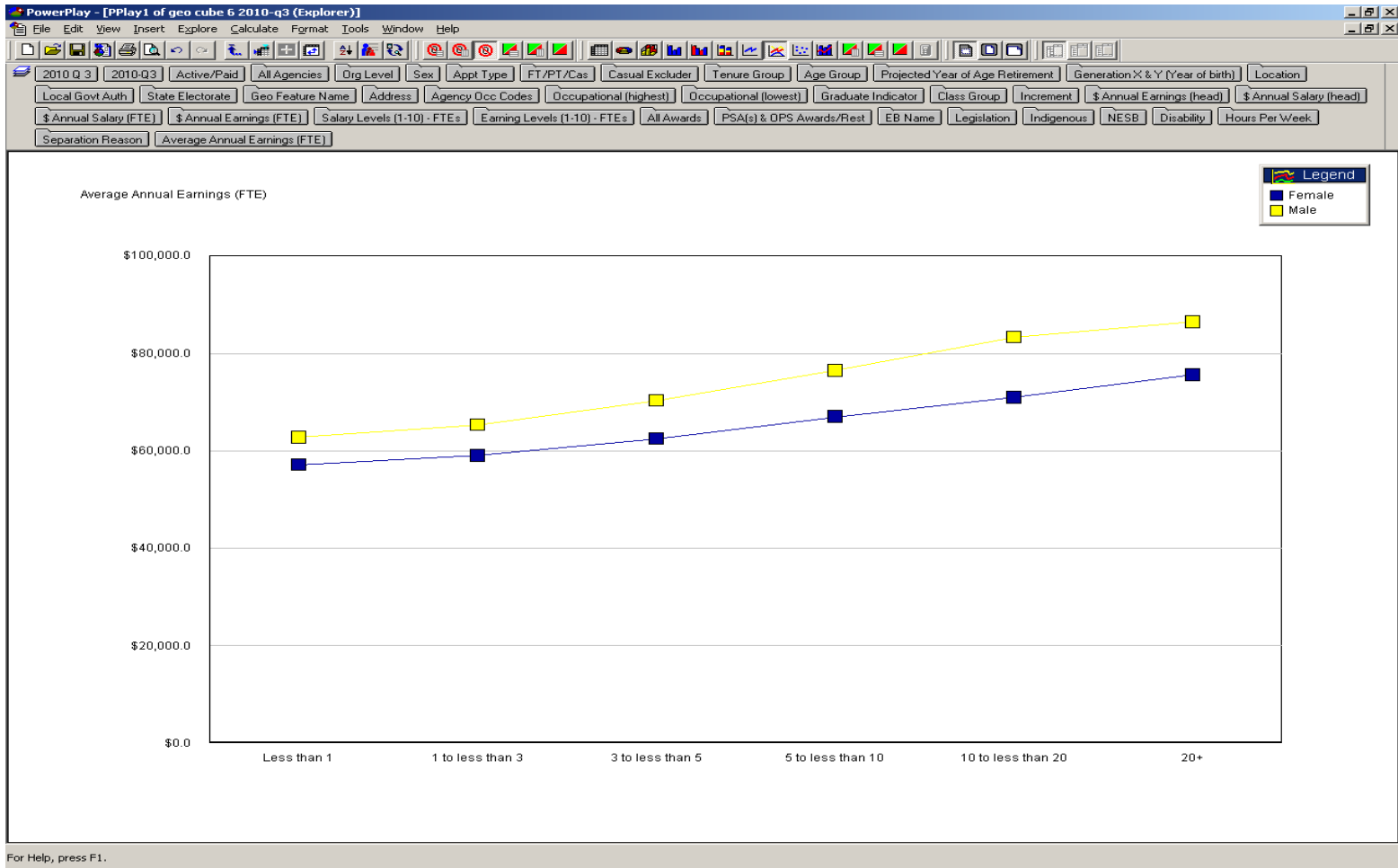
Cognos 7



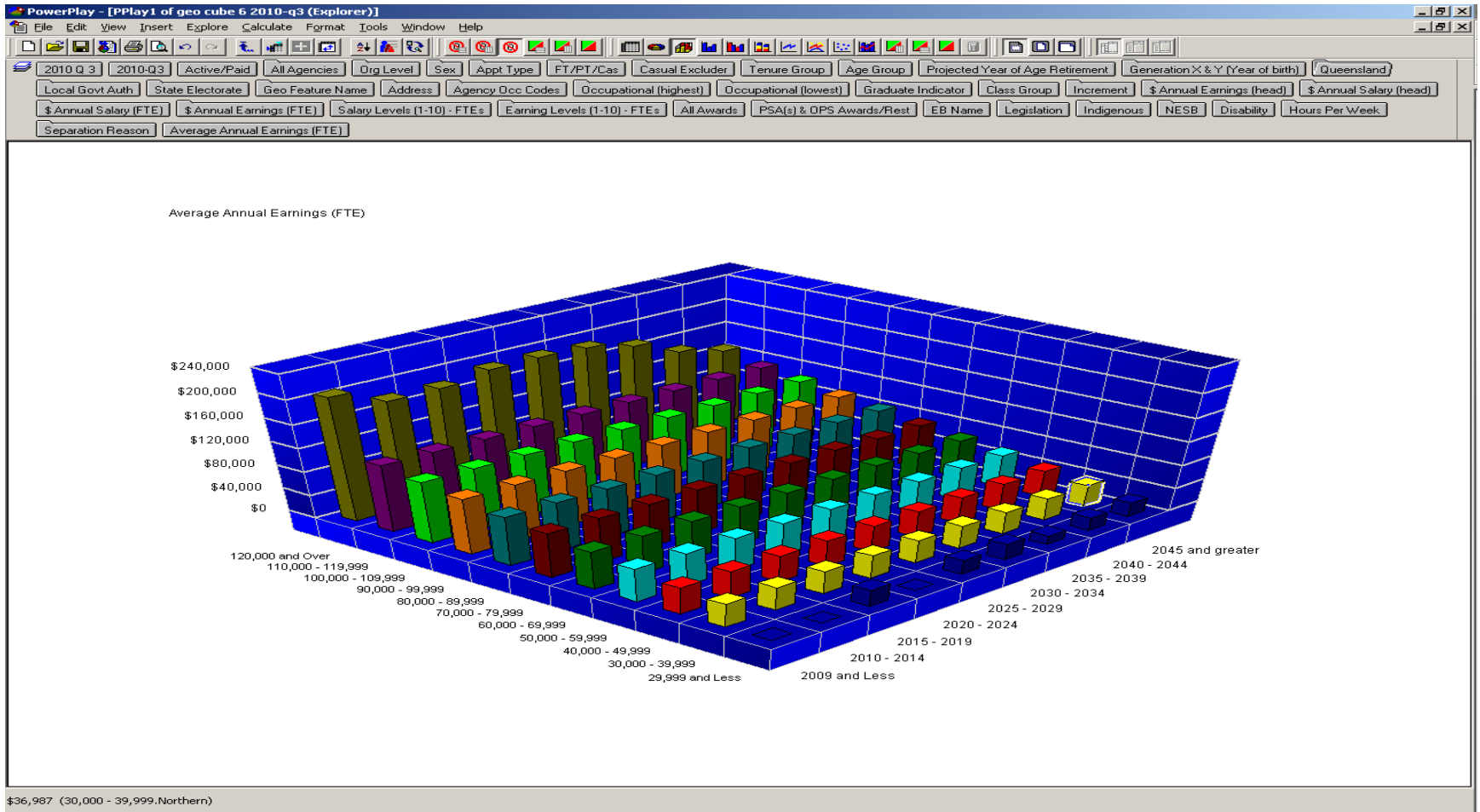
Cognos 7



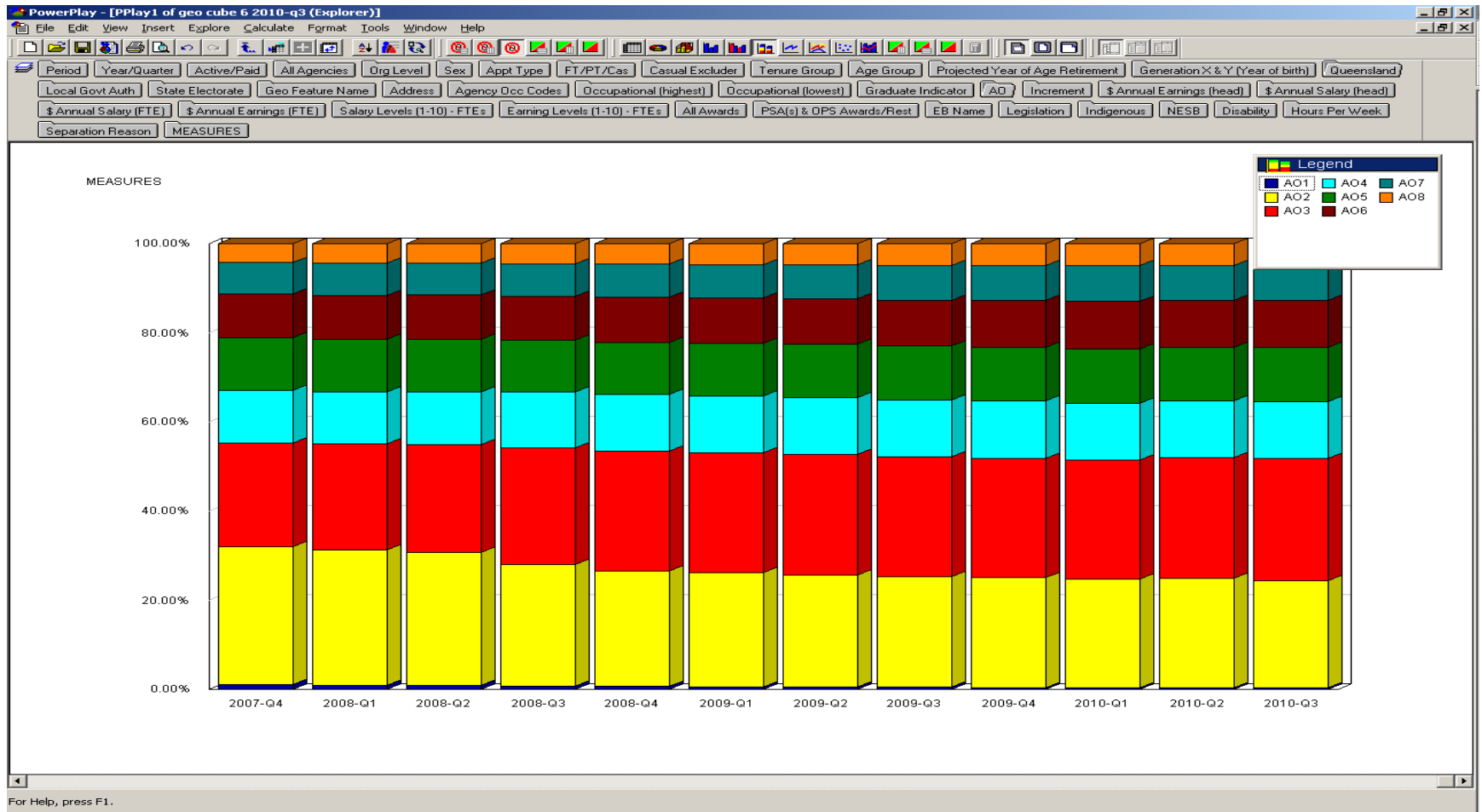
Cognos 7



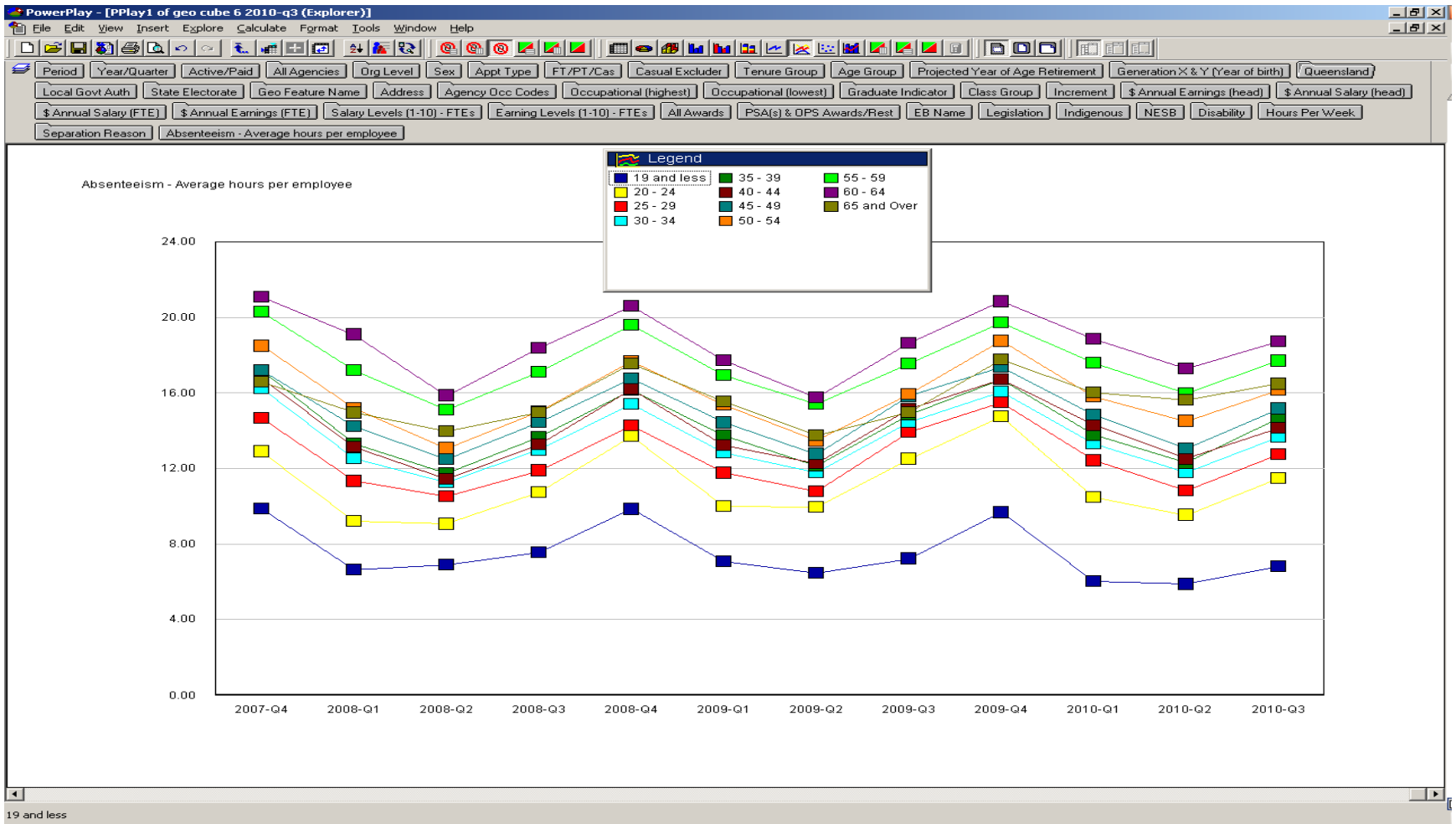
Projected retirements



Cognos 7 class creep



Cognos 7 – absenteeism

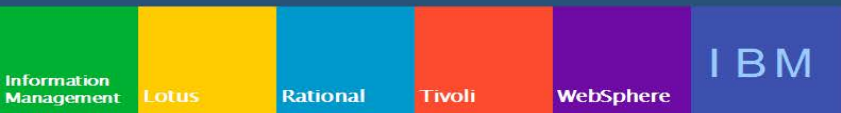




Smarter Solutions for a Smarter Government.

Q and A

IBM Software Industry Solutions





Smarter Solutions for a Smarter Government.

Welcome to the Smarter Government Briefing Series

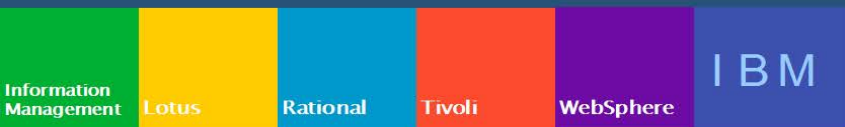
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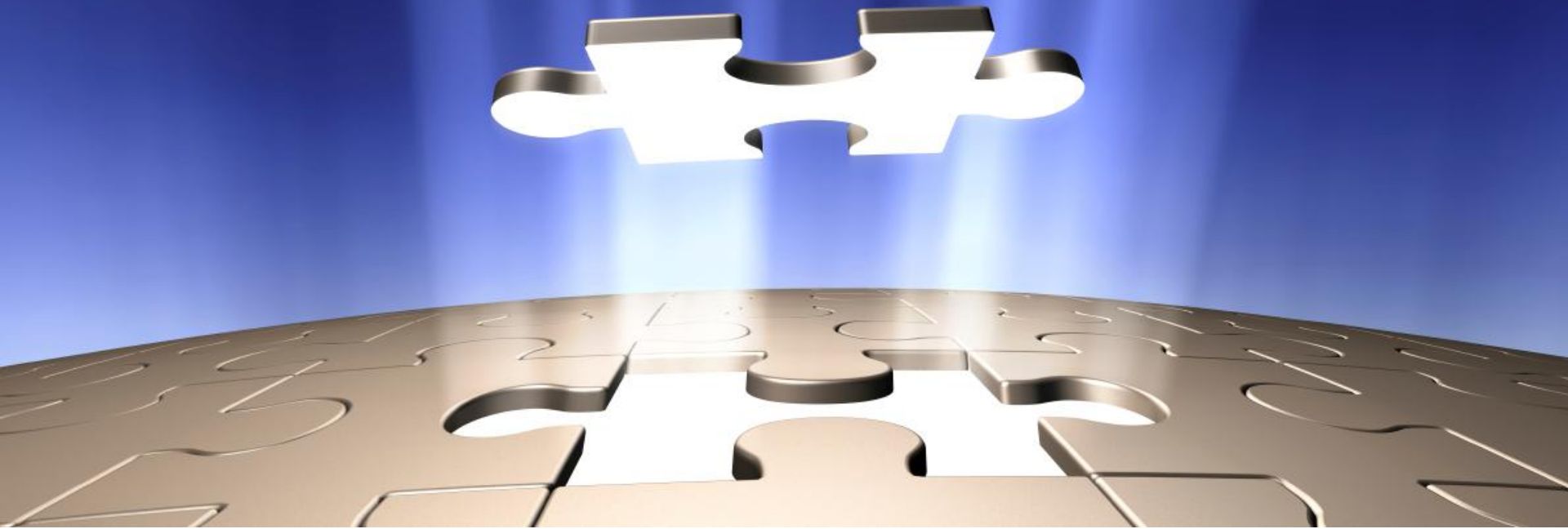
Workforce Analytics, Reporting and Performance Management
(with a Geospatial view)

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C3 Business Solutions

IBM Software Industry Solutions





Collecting and linkage of HR Data with Geospatial Capability

Agenda

- Who is C3 Business Solutions
- Collecting HR Data
- HR Geospatial Analytics

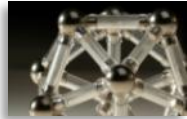
C3 | business solutions™

- specialist business intelligence & information management consultancy
- quality-certified
- 25th fastest growing company in Australia
- just named in the smart 50 company list
- 2010 iAward winner for R&D and innovation



Products and Solutions

- o products



- o solutions



...all web-based...all one of a kind...

C3 | integrity™

C3 | cohesion™

C3 | mapper™

...custom built for each client...

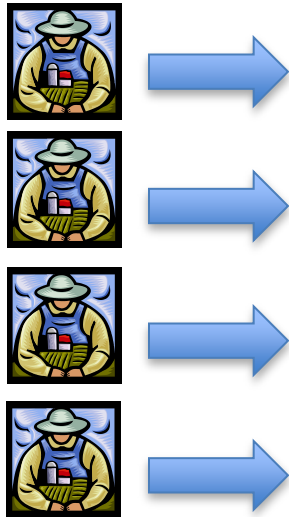
C3 | carbon analytics™

C3 | performance management™

C3 | geospatial analytics™

manual data loading process

traditional process

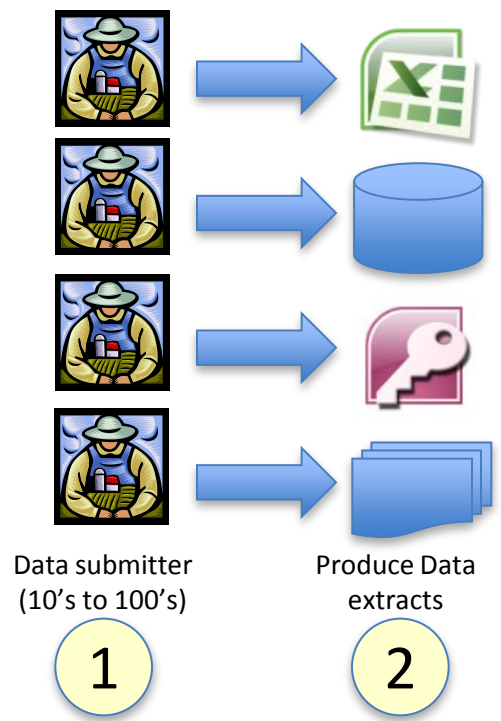


Data submitter
(10's to 100's)

1

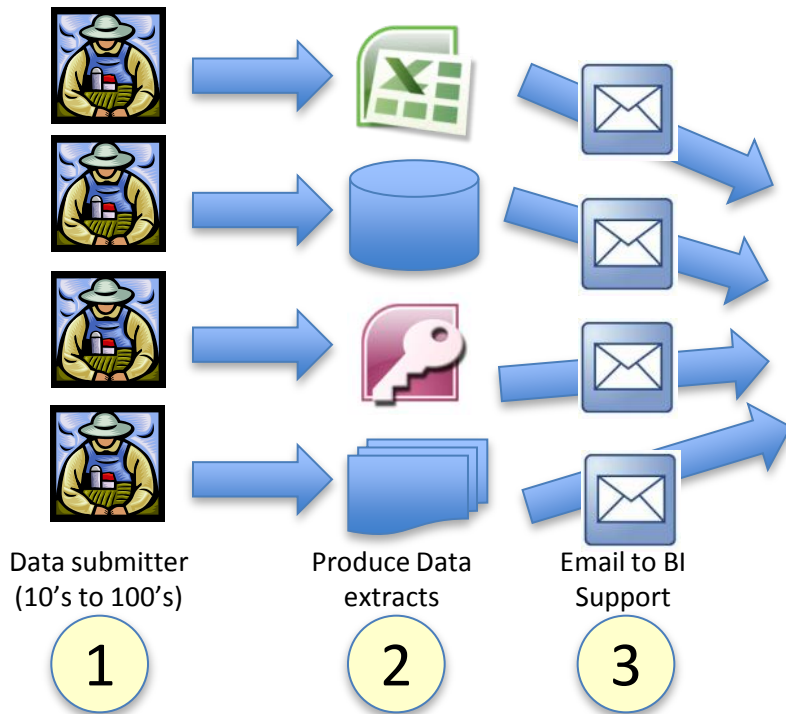
manual data loading process

traditional process



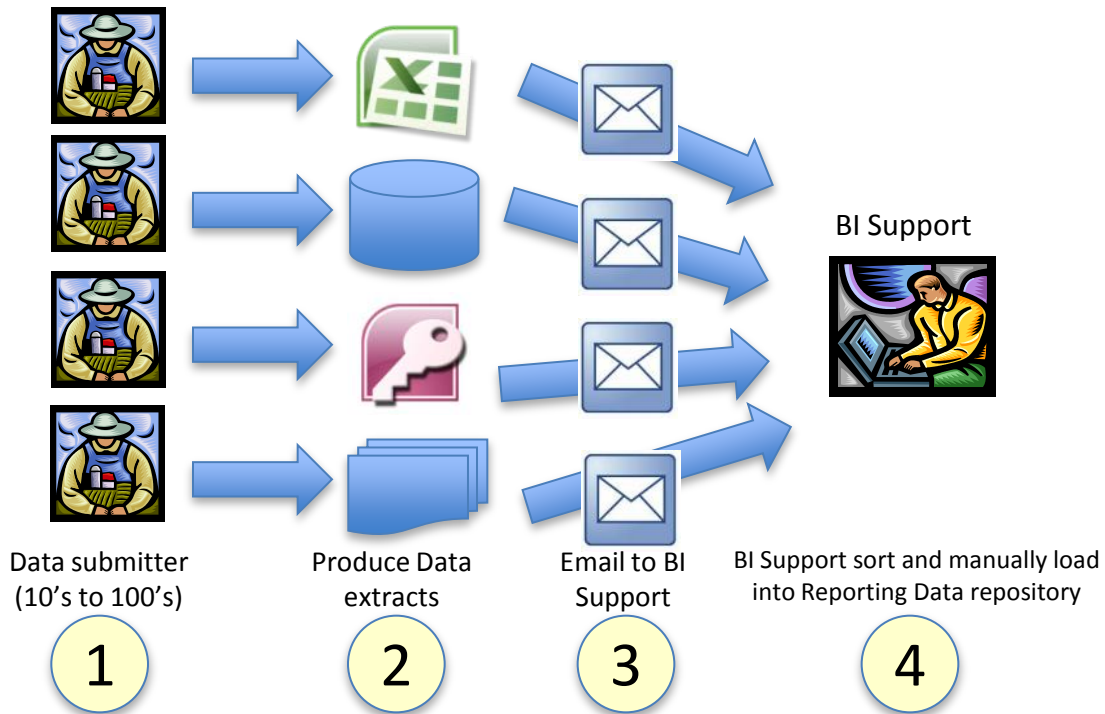
manual data loading process

traditional process



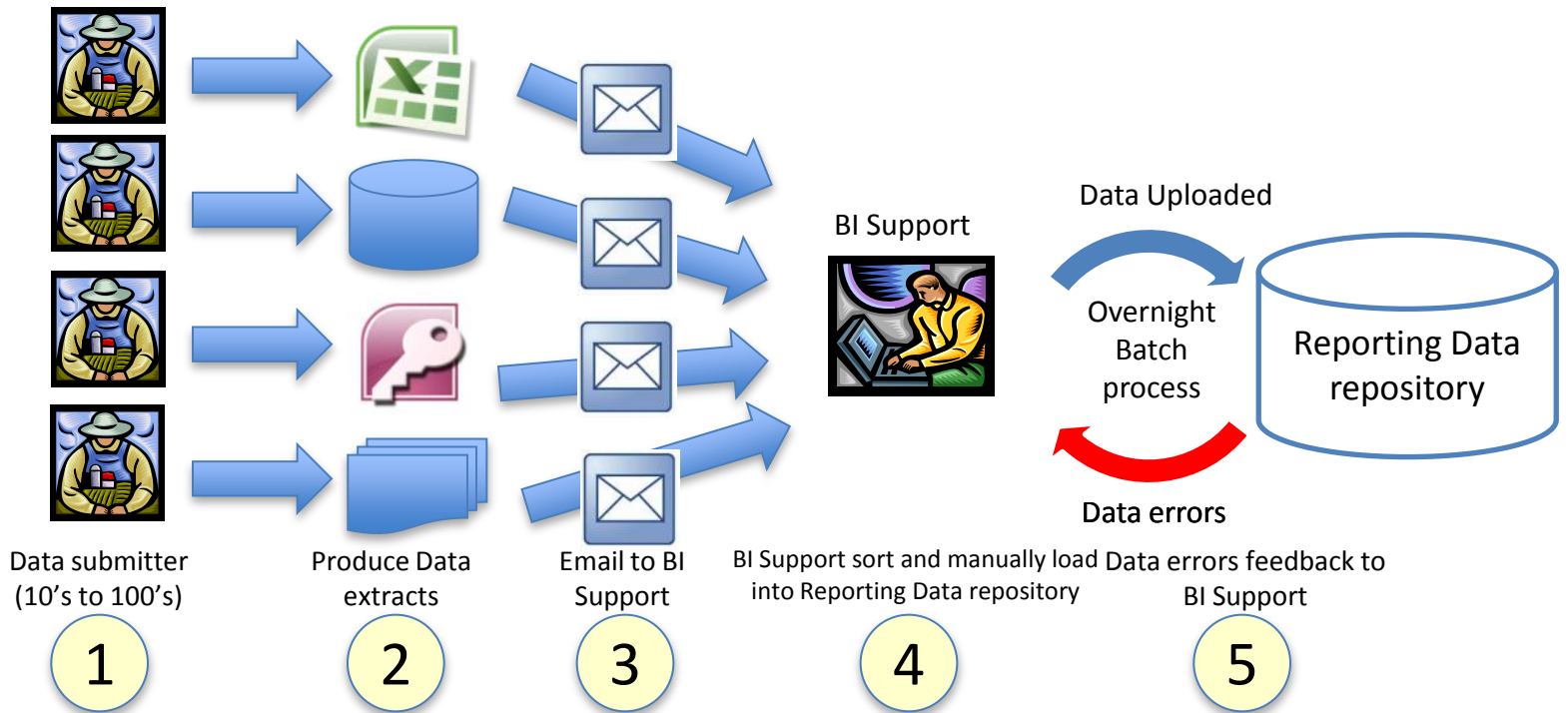
manual data loading process

traditional process



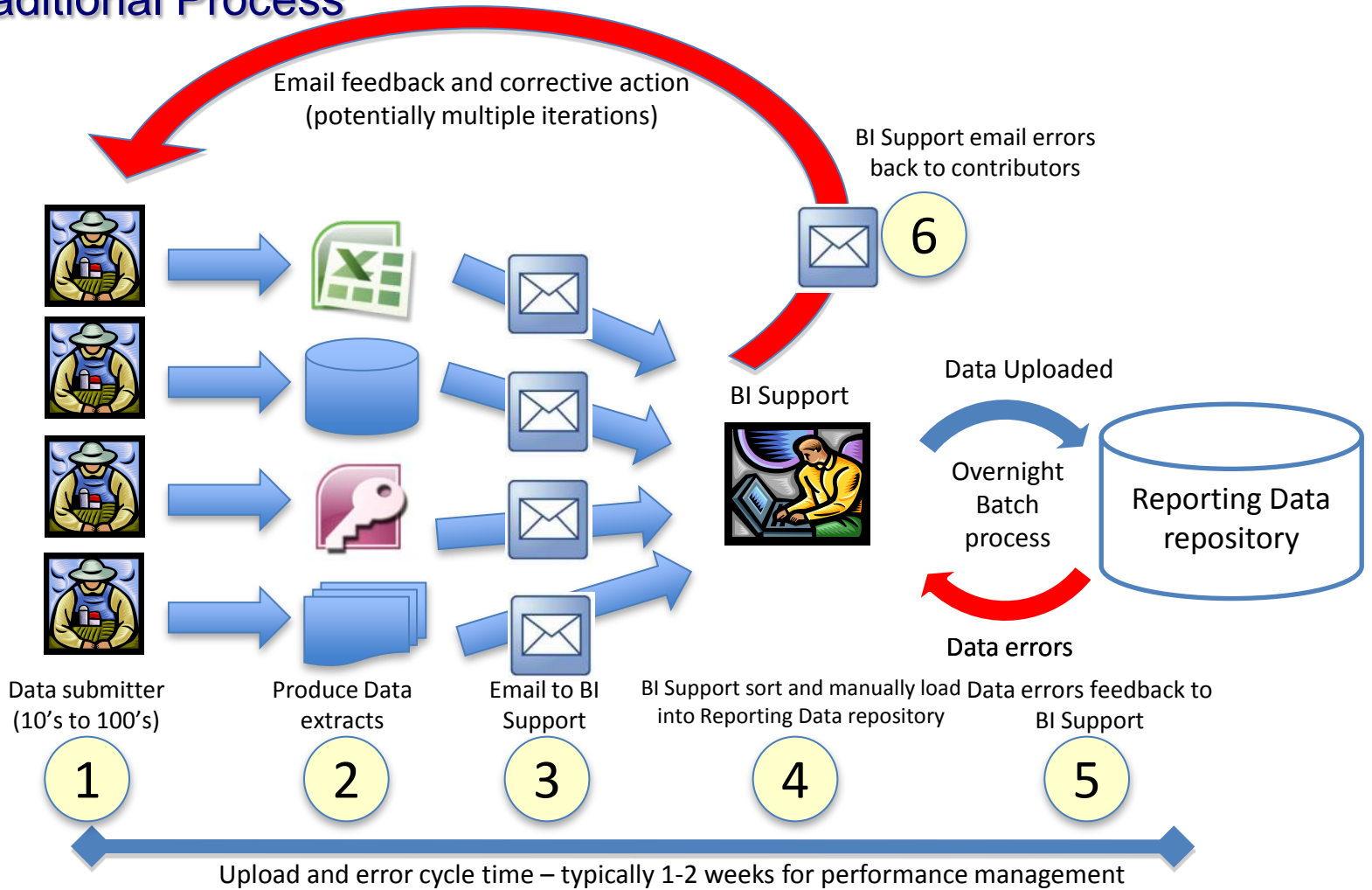
manual data loading process

traditional process



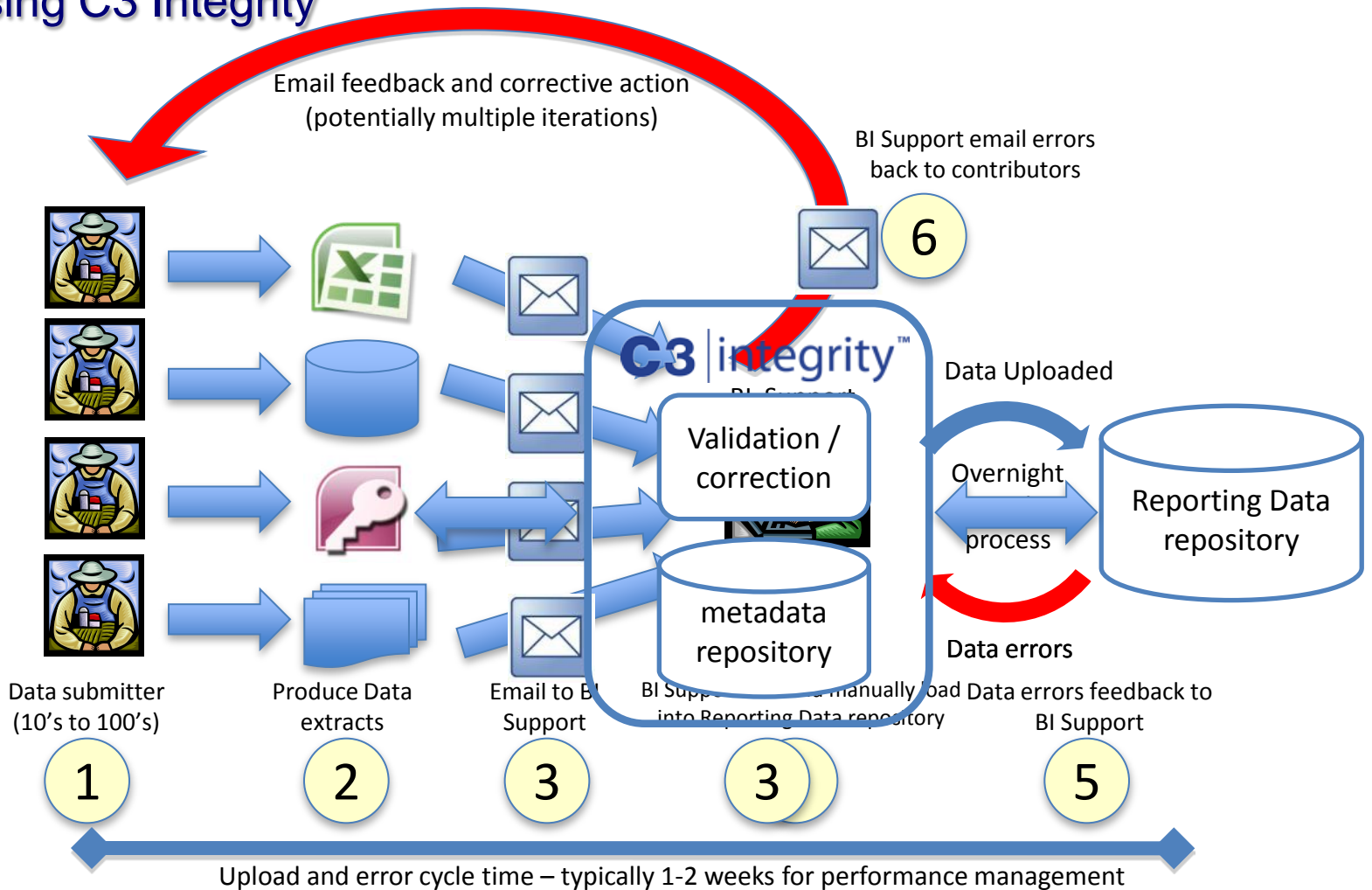
Manual HR Data Collection

Traditional Process



Manual HR Data Collection

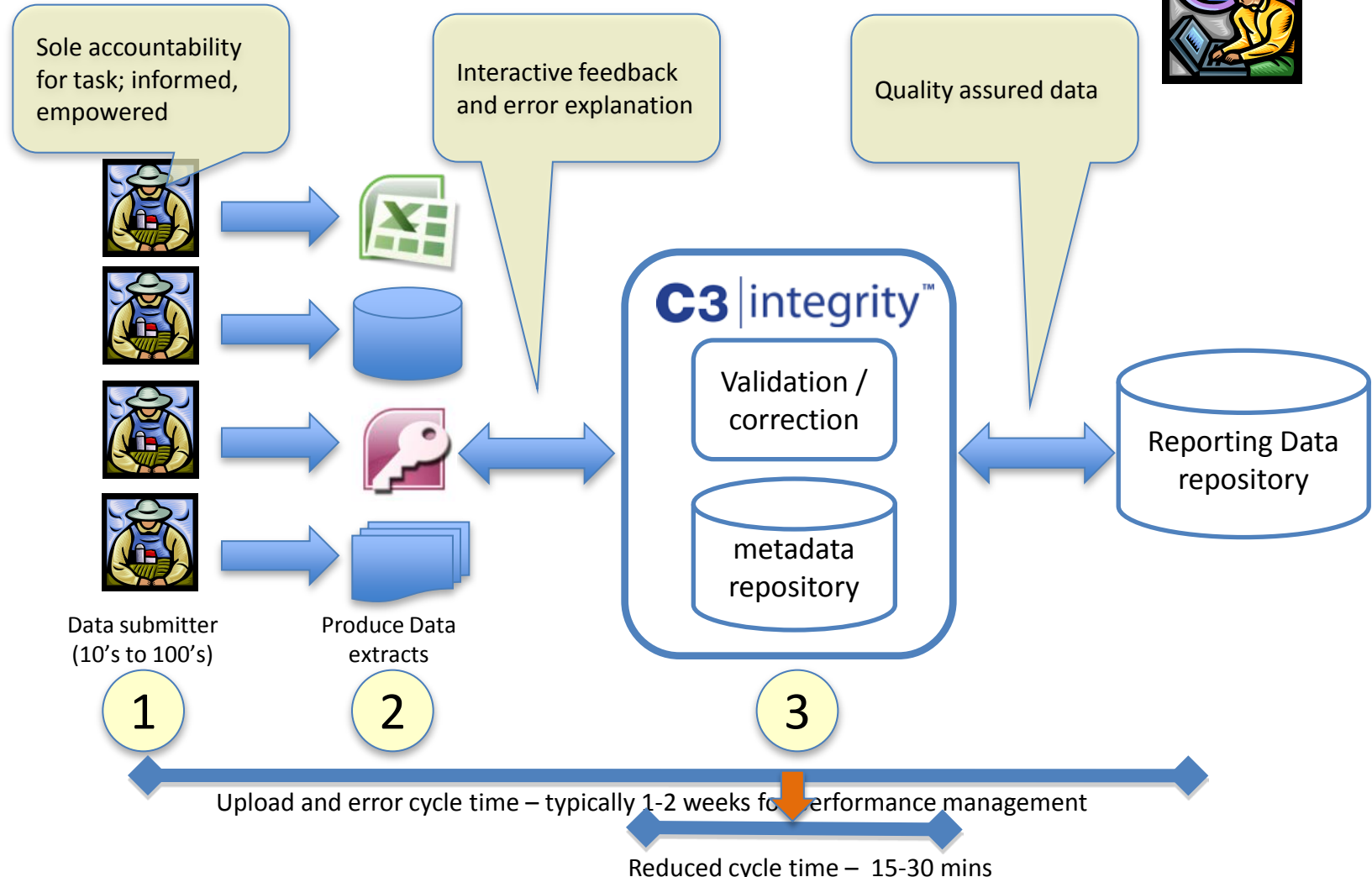
Using C3 Integrity



Manual HR Data Collection

Using C3 Integrity

BI Support



C3 Integrity demonstration



View Payroll Dataset

C3|integrity™
root [HELP](#) [LOG OUT](#)

Home
New upload
Data sets
Upload activity
Access groups
Users
Preferences

View data set *Payroll*

What would you like to do?

- Work with this data set
- Edit this data set
- Export this data set in XML format
- Create a new format for this data set
- View this data set's formats
- Create a new row validation for this data set
- View this data set's row validations

Reporting for this data set

- Search/Export rows
- Run error summary reports
- View qualifiers by upload
- View access groups

Work with attribute validations

- Create a new attribute validation
- View all attribute validations

Dataset

Name	Payroll
Short description	Payroll
Long description	Payroll
Table name	tbl_payroll
Active	<input checked="" type="checkbox"/>

Formats

Name	Parser type	Template
CSV	CSV	

Row validations

Name	Id	Description	Action when invalid
<i>This data set has no row validations</i>			

Attributes

Display name	Database column name	Validation	Natural key	Generated	Qualifier	Action when missing	Searchable
Status	status	STRING (50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Sex	sex	STRING (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Occupation Groups	occupation_groups	STRING (50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Work Long	work_long	Float	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Work Lat	work_lat	Float	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Home Postcode	home_postcode	STRING (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Home Suburb	home_suburb	STRING (50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Employee Long	employee_long	Float	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Employee Lat	employee_lat	Float	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

Begin a New Upload



Begin a new upload

What would you like to do? <<

- Cancel upload
- Home
- View all data sets
- Search upload activity

New upload

1. Select a data set to upload

2. Qualify your data set
No qualifiers defined for this data set

3. Append or replace data
 Append new and update existing data
 Replace all data

4. Select the file to upload or leave blank to manually enter

5. Select the format for your file

6. Start validating file immediately and send an email when complete

Transferring...

Summary of selected data set

Seq	Attribute	Validation
1	Status	STRING (50)
2	Sex	STRING (1)
3	Occupation Groups	STRING (50)
4	Work Long	Float
5	Work Lat	Float
6	Home Postcode	STRING (10)
7	Home Suburb	STRING (50)
8	Employee Long	Float
9	Employee Lat	Float

[Full details...](#)

Edit Upload for Payroll

C3 | integrity™ root [HELP](#) [LOG OUT](#)

[Home](#) [New upload](#) [Data sets](#) [Upload activity](#) [Access groups](#) [Users](#) [Preferences](#)

Edit upload for *Payroll*

What would you like to do? <<

- Work with this upload
- Home

Upload status

Details

Upload type	Replace all
File	payrollBad.txt of 813 bytes with 9 rows received

Validation status


Not yet validated

[Abandon](#) [Validate](#)

Validation Overview – Errors

C3 | integrity™
root [HELP](#) [LOG OUT](#)

Home
New upload
Data sets
Upload activity
Access groups
Users
Preferences



What would you like to do? <<

- Work with this upload
- Home
- Add a new record
- View all records
- View valid records
- View invalid records

- Work with errors
- Download all issues
- Download critical error summary
- Download error summary

Edit upload for *Payroll*

Upload status

Details

Upload type: Replace all

File: [payrollBad.txt](#) of 813 bytes with 9 rows received

Validation status

5 valid records
 33.33% error/data percentage
 2 records contain 1 critical error
 1 record contains 1 error

These records have critical errors, and must be fixed before you may upload

Number of records	Description
2	Sex must be less than or equal to 1 characters

These records have errors, and will be discarded if you upload

Number of records	Description
1	Unable to read float

Abandon Upload

View Invalid Records



Invalid rows in upload for *Payroll*

What would you like to do? <<

- Work with this upload
- Add a new record
- Back to upload

Errors	Status	Sex	Occupation Groups	Work Long	Work Lat	Home Postcode	Home Suburb	Employee Long	Employee Lat	Action
Sex must be less than or equal to 1 characters	Permanent	Female	Intermediate Clerical Sales and Service Workers	153.01	-27.47	4173	Tingalpa			
Sex must be less than or equal to 1 characters	Permanent	Male	Managers and Administrators	145.77	-16.92	4868	Bayview Heights			
Unable to read float	Permanent	F	Intermediate Clerical Sales and Service Workers	ABC	-27.46	4031	Kedron			

Validation Overview – No Errors

C3 | integrity™ root [HELP](#) [LOG OUT](#)

[Home](#) [New upload](#) [Data sets](#) [Upload activity](#) [Access groups](#) [Users](#) [Preferences](#)

Edit upload for *Payroll*

What would you like to do? <<

- Work with this upload
- Home
- Add a new record
- View all records
- View valid records
- View invalid records

Upload status

Details

Upload type	Replace all
File	payrollBad.txt of 813 bytes with 9 rows received

Validation status

8 valid records
0.0% error/data percentage

[Abandon](#) [Upload](#)

Upload Successful


C3 | integrity™ root [HELP](#) [LOG OUT](#)

[Home](#) [New upload](#) [Data sets](#) [Upload activity](#) [Access groups](#) [Users](#) [Preferences](#)

Home

What would you like to do?

- Work with uploads and data sets
- Begin a new upload
- View all data sets
- Search upload activity

 5 rows uploaded to Payroll

Your last 5 activities **Your missing uploads**

5 rows last updated for [Payroll](#) *less than a minute ago* *You have no missing uploads*

5 rows abandoned for [Payroll](#) *2 days ago*

8 rows uploaded for [Payroll](#) *2 days ago*

0 rows last updated for [Incident Notification](#) ([Victoria], [Abbotshall]) *13 days ago (resume)*

0 rows last updated for [Incident Notification](#) ([Victoria], [Abbotshall]) *13 days ago (resume)*

Your last 10 incomplete uploads **Your messages**

0 rows for [Incident Notification](#) ([Abbotshall], [Victoria]) last updated *13 days ago (resume)* *You have no messages*

0 rows for [Incident Notification](#) ([Abbotshall], [Victoria]) last updated *13 days ago (resume)*

0 rows for [Incident Notification](#) ([Abbotshall], [Victoria]) last updated *13 days ago (resume)*

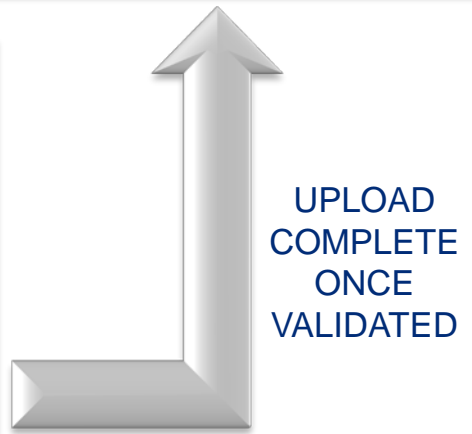
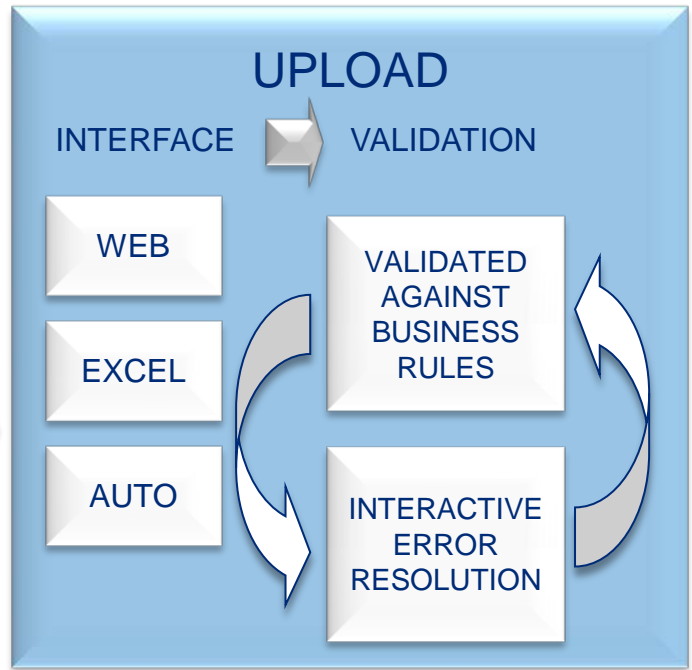
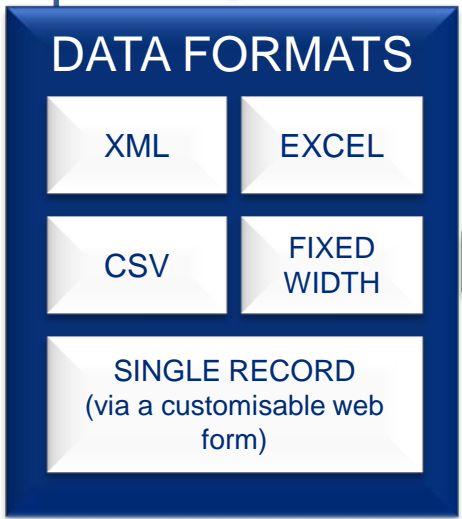
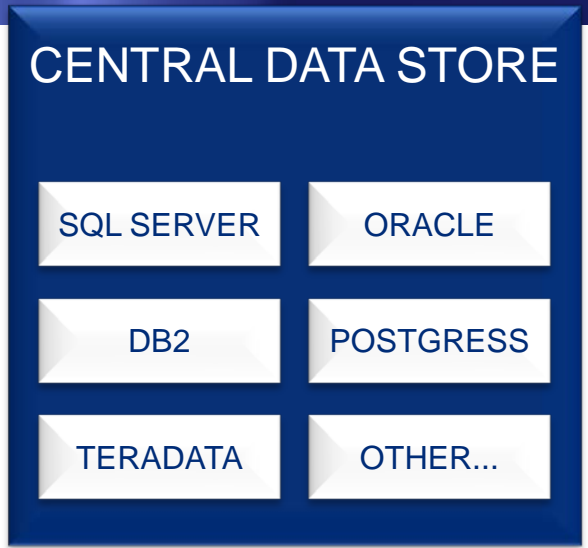
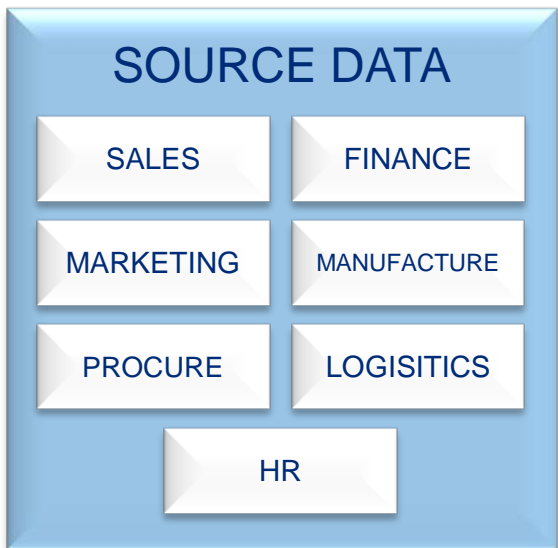
0 rows for [Incident Notification](#) ([Abbotshall], [Australian Capital Territory, New South Wales, Northern Territory, Queensland, South Australia, Victoria, Western Australia]) last updated *13 days ago (resume)*

0 rows for [Incident Notification](#) ([Abbotshall], []) last updated *13 days ago (resume)*

0 rows for [Incident Notification](#) ([Abbotshall], []) last updated *13 days ago (resume)*

0 rows for [Incident Notification](#) ([Abbotshall], []) last updated *13 days ago (resume)*

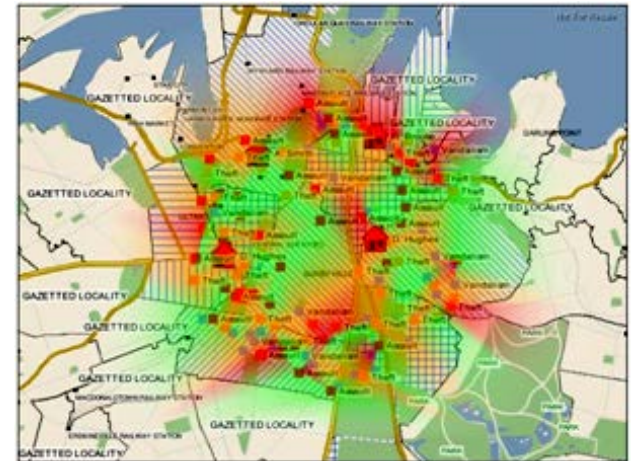
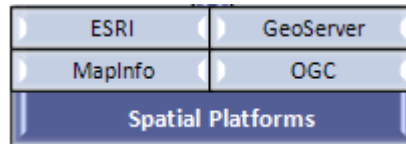
C3 Integrity For Users



C3 | geospatial analytics™

*Linking IBM Cognos Business Intelligence with Integeor
Map Intelligence and Maps*

Cognos.
software



C3 | geospatial analytics™

C3 Geospatial HR demonstration



IBM Cognos

The screenshot displays the IBM Cognos Connection web interface. At the top, the title bar reads "IBM Cognos Connection" and includes a search bar and navigation icons. Below this, the breadcrumb path is "Public Folders > C3 Geospatial Analytics > Public Service Commission". A toolbar with various icons for file operations is visible. The main content area shows a table of files and folders:

<input type="checkbox"/>	Name	Modified	Actions
<input type="checkbox"/>	archive	December 1, 2010 8:18:49 AM	More...
<input type="checkbox"/>	Analysis and Reporting	December 1, 2010 1:13:00 PM	More...

Queensland Terrain

Cognos Viewer - Analysis and Reporting
Home | About

Queensland Government
Public Service Commission

Spatial Analysis:

Controls | Bookmarks | Themes | Tools | Print | End Session

Legend

Employee Status by Home Location
Employee Status by Home Location grouped by Status

- Casual
- Contract
- Permanent
- Temporary

Number of Employees by LGA
Number of Employee Status by Work Location within LGA 2006.

- <= 0
- <= 0
- <= 0
- <= 0
- <= 0
- > 0

Update Report

Status:

- Contract
- Permanent
- Casual
- Temporary

[Select all](#) [Deselect all](#)

Sex:

- M
- F

[Select all](#) [Deselect all](#)

Occupation Groups:

- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

[Select all](#) [Deselect all](#)

Use Cognos Filters for Interactivity

Cognos Viewer - Analysis and Reporting

Queensland Government Public Service Commission

Spatial Analysis:

Legend

Number of Employees by LGA

Number of Employee Status by Work Location within LGA 2006.

- ≤ 1
- ≤ 2
- ≤ 4
- ≤ 252
- ≤ 252
- > 252

Map data ©2006 Google (A) Technologies, GSRMPA, Google, Whereis(R), Sensis Pty Ltd

0 100 200 300 400 500 km

Status:

Update Report

- Contract
- Permanent
- Casual
- Temporary

Select all Deselect all

Sex:

- M
- F

Select all Deselect all

Occupation Groups:

- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

Select all Deselect all

Show All Data On The Map

Cognos Viewer - Analysis and Reporting

Queensland Government Public Service Commission

Spatial Analysis:

Legend

Number of Employees by LGA

Number of Employee Status by Work Location within LGA 2006.

- ≤ 1
- ≤ 2
- ≤ 5
- ≤ 21
- ≤ 1,221
- > 1,221

Map data © 2006 Esri, DeLorme, GeoEye, GSB, etc.

0 100 200 300 400 500 km

Update Report

Status:

- Contract
- Permanent
- Casual
- Temporary

Select all Deselect all

Sex:

- M
- F

Select all Deselect all

Occupation Groups:

- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

Select all Deselect all

South East Queensland

Cognos Viewer - Analysis and Reporting

Queensland Government Public Service Commission

Spatial Analysis:

Legend

Number of Employees by LGA

Number of Employee Status by Work Location within LGA 2006.

Light Yellow	<= 1
Yellow	<= 2
Orange	<= 4
Dark Orange	<= 16
Red	<= 100
Dark Red	> 100

Map showing Local Government Areas (LGA) and their corresponding employee counts. Major LGAs include Brisbane, Gold Coast, Sunshine Coast, Bundaberg, and many others. The map is color-coded according to the legend.

Map controls: Street, Terrain, Satellite, Navigation, Scale (0 to 150 km).

Update Report

Status:

- Contract
- Permanent
- Casual
- Temporary

Select all Deselect all

Sex:

- M
- F

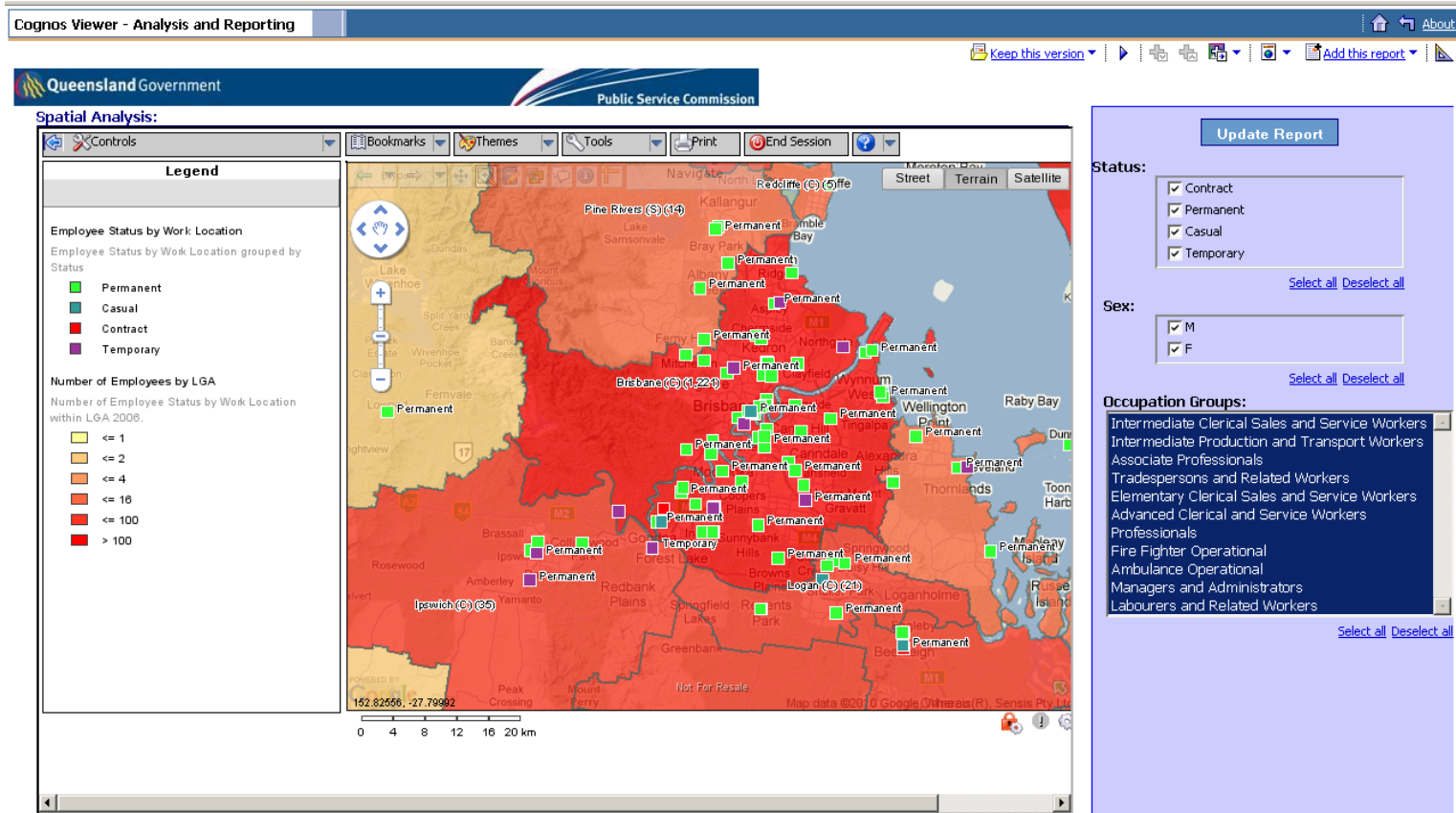
Select all Deselect all

Occupation Groups:

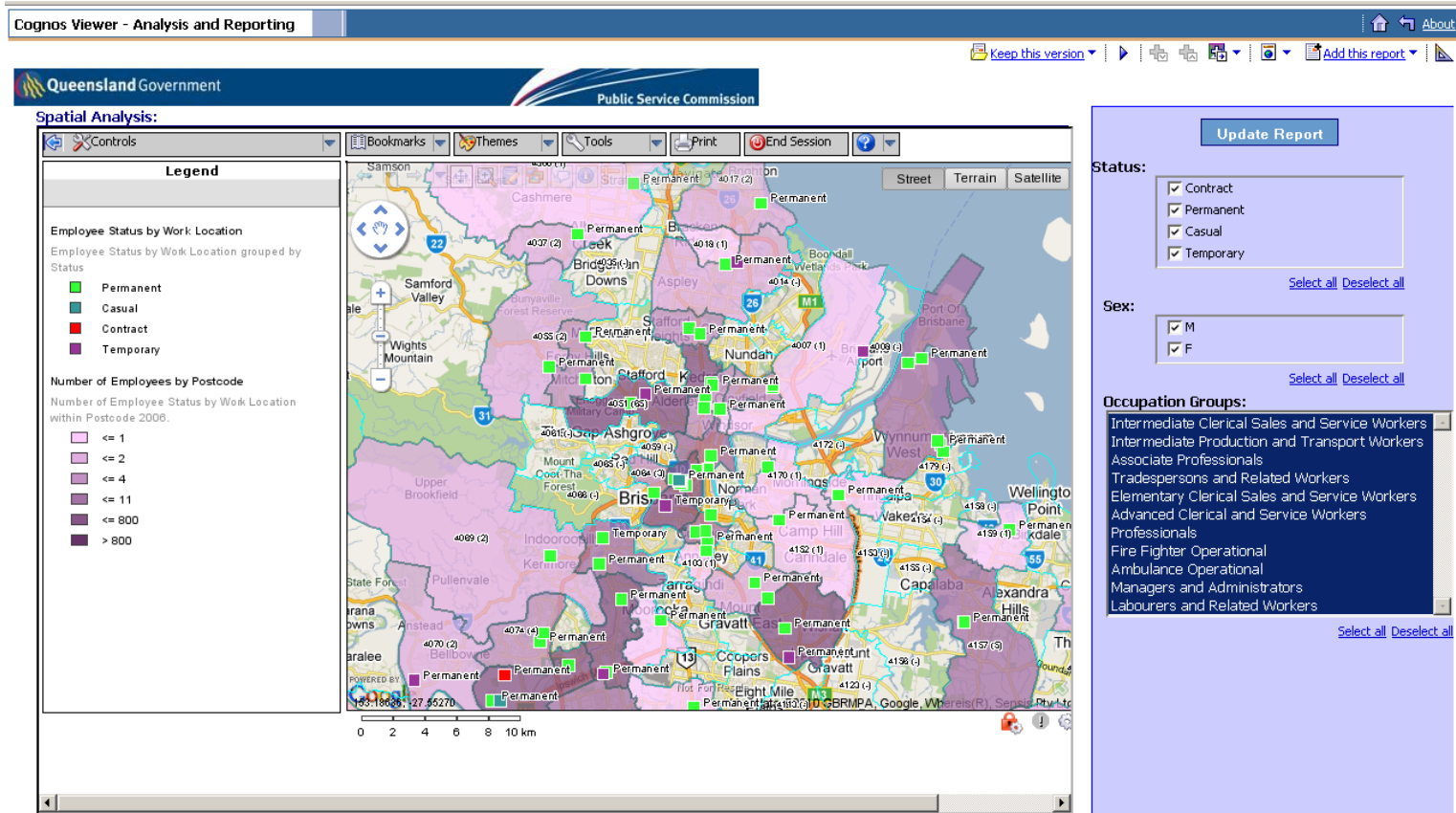
- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

Select all Deselect all

Work Locations by LGA



Work Locations by Post Code



Work vs. Employee Home Location

Cognos Viewer - Analysis and Reporting

Queensland Government Public Service Commission

Spatial Analysis:

Distance Calculator

Line Color:

Label Color:

Distance labels: Point labels:

Selected Points:

Coordinate Format: Lat, Long

Total Distance: (kilometers)

Map showing Brisbane area with various locations marked. A red line connects a point near Stafford to a point near Wynnum West. A blue line connects a point near Moorooka to a point near Alexandria Hills. A purple line connects a point near Forest Lake to a point near Moreton. Other points are scattered across the region, many labeled 'Permanent'.

Update Report

Status:

Contract
 Permanent
 Casual
 Temporary

[Select all](#) [Deselect all](#)

Sex:

M
 F

[Select all](#) [Deselect all](#)

Occupation Groups:

Intermediate Clerical Sales and Service Workers
 Intermediate Production and Transport Workers
 Associate Professionals
 Tradespersons and Related Workers
 Elementary Clerical Sales and Service Workers
 Advanced Clerical and Service Workers
 Professionals
 Fire Fighter, Operational
 Ambulance Operational
 Managers and Administrators
 Labourers and Related Workers

[Select all](#) [Deselect all](#)

Geocode New Work Location

Cognos Viewer - Analysis and Reporting

Queensland Government Public Service Commission

Spatial Analysis:

Controls | Bookmarks | Themes | Tools | Print | End Session

Center At Address

Geocode Address

Street: 53 albert st
 City: brisbane
 State: qld
 Zip/Post Code: 4000
 Zoom Level: 2.71258438

Geocode Address

Point Controls

Symbol Image: [Image]
 All Points
 53_albert_st

Street Terrain Satellite

53 albert st

Permanent

Permanent

Permanent

Permanent

Permanent

Permanent

0 100 200 300 400 500 m

Update Report

Status:

Contract
 Permanent
 Casual
 Temporary

[Select all](#) [Deselect all](#)

Sex:

M
 F

[Select all](#) [Deselect all](#)

Occupation Groups:

- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter, Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

[Select all](#) [Deselect all](#)

Street View

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Add this report

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Public Service Commission

Spatial Analysis:

Controls
Bookmarks
Themes
Tools
Print
End Session

Center At Address

Geocode Address

Street:

City:

State:

Zip/Post Code:

Zoom Level:

Point Controls

Symbol Image:

All Points

53 albert st

0 10 20 30 40 50 m

Street Terrain Satellite

Status:

Contract
 Permanent
 Casual
 Temporary

[Select all](#) [Deselect all](#)

Sex:

M
 F

[Select all](#) [Deselect all](#)

Occupation Groups:

- Intermediate Clerical Sales and Service Workers
- Intermediate Production and Transport Workers
- Associate Professionals
- Tradespersons and Related Workers
- Elementary Clerical Sales and Service Workers
- Advanced Clerical and Service Workers
- Professionals
- Fire Fighter Operational
- Ambulance Operational
- Managers and Administrators
- Labourers and Related Workers

[Select all](#) [Deselect all](#)

thank you – questions?

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data collection & collaboration