

## Indigenous Franchise KPIs using Centrelink data

### Background

As Australia's federal electoral roll does not have a personal Indigenous identifier, estimating the **enrolment**, 19 rates for Indigenous persons is problematic. Having these key franchise KPIs for the Indigenous population is important for *Closing the Gap* purposes and the AECs focus on how the franchise could be better delivered.

In 2014 the AEC's Research Section commenced indirect estimation of these figures, using a regression model of the relationship between the Indigenous population and each of the three franchise KPIs at a small area level, such as polling place catchment or the ABS' SA2 geography. While the models did not fit the data particularly well, the resulting Indigenous **enrolment**, 19 rates were statistically based on real data, rather than anecdote. Yet the resulting enrolment and turnout rates in particular were alarmingly low, and hopefully represented a worst case picture.

### Centrelink Data

Around the same time, the Research Section informally proposed that person-level Centrelink extracts that the AEC received occasionally for other Roll validation work, could perhaps be extended to include Centrelink's Indigenous indicator. This came to fruition in 2017<sup>1</sup>.

As part of the Annual Roll Integrity Review (ARIR), the person-level matching between the Roll and Centrelink now included Centrelink's Indigenous indicator. However as Centrelink customers represent only around half of the Roll, the matching (even if perfect) would be far from assigning all enrolments an Indigenous flag. Nevertheless, for the first time the AEC has a very large number of enrolled persons, over 6 million, with an explicit Indigenous status.

### 1. Enrolment Rate

The enrolment rate, even for all persons regardless of indigenaity, is difficult to calculate reliably due to conceptual, collection and methodological differences between the Roll (numerator) and the ABS-based enrolment-eligible population (denominator, "EEP"). In the case of the Indigenous population these problems are magnified by having no Indigenous identifier on the Roll and less reliable estimates of Indigenous EEP.

However, matching the Roll to Centrelink data allows a more direct method of estimating the Indigenous enrolment rate. It is still subject to quite courageous assumptions, but as fewer are required it likely represents an improved approach. In summary:

- For all Centrelink customers with an identified Indigenous or non-Indigenous status, calculate the proportion on the Roll. This is the raw enrolment rate of Centrelink clients.
- Calculate the ratio of the actual AEC enrolment rate versus the Centrelink-based rate, for the same point in time. This is the overall factor to adjust any Centrelink-based rates to align with AEC enrolment rates.
- Apply the adjustment factor to raw Centrelink-based enrolment rates by Indigenous status to give Indigenous and non-Indigenous enrolment rates.
- This process can be done at the State level, though results will have lower reliability.

NOTE: While this method avoids indirectly modelling Indigenous enrolment rates via geographic association, it does assume that any *bias* in Centrelink clients being enrolled is equal for Indigenous and non-Indigenous, and that there are no substantive Indigenous-status biases inherent in the Roll-to-Centrelink person matching.

<sup>1</sup> Acknowledge with appreciation the work of the former Electoral Integrity Unit and the IT Branch.

19

[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]

- [REDACTED]  
[REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]

19

[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]

- [REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]  
[REDACTED]
- [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]

## Conclusion and Results

The Centrelink client file with Indigenous indicator newly available to the AEC has presented an excellent opportunity, via matching to the Roll 19 [REDACTED], to improve estimation of Indigenous franchise KPIs.

While the results are subject to a number of non-trivial assumptions, the more direct estimation methods lead to a higher likelihood of robust results. The figures should nevertheless still be regarded as *indicative* only.

**INDIGENOUS-STATUS FRANCHISE KPIs**

KPI	Indigenous	Non-Indigenous
Non-enrolment (2017)	29%	3%
19		

^ enrolment 19

**INDIGENOUS-STATUS (NON-)ENROLMENT**

30 June 2017

State	Indigenous	Non-Indigenous
NSW	17%	2%
VIC	28%	4%
QLD	32%	4%
SA	34%	3%
WA	39%	3%
TAS	19%	3%
NT	30%	2%
ACT	26%	1%
AUST	29%	3%

19

**Notes:**

These modelled national estimates contain many assumptions and cannot be ascribed to any particular sub-national location. The absence of an Indigenous identifier on the Federal Roll has been partially supplemented with Centrelink information.

19

These figures can be footnoted "unofficial internal AEC modelling".

Business Intelligence, Research and Electoral Integrity Section. 8 May 2018.

## **REDACTION CODES**

- 1 Personal Information (name) redacted.
- 2 Personal Information (date of birth) redacted.
- 3 Personal Information (photograph) redacted
- 4 Personal Information (facsimile of signature) redacted.
- 5 Personal Information (facsimile of manuscript initialling) redacted.
- 6 Personal Information (Individual's address) redacted.
- 7 Personal Information (individual's telephone number) redacted.
- 8 Personal Information (individual's opinion) redacted.
- 9 Personal Information (opinion about individual) redacted.
- 10 Personal Information (employment history) redacted.
- 11 Personal Information (qualifications) redacted.
- 12 Personal Information (health) redacted.
- 13 Personal Information (identifying individual) redacted.
- 14 Business information (Bank Account details) redacted.
- 15 Business information (Billing Account details) redacted.
- 16 Business information (internal operations) redacted.
- 17 Legal Professional Communication redacted.
- 18 Deliberative material redacted.
- 19 Irrelevant material redacted.
- 20 Electoral Roll material redacted.
- 21 Tests, examinations or audits material redacted.
- 22 Management or assessment of personnel material redacted.
- 23 Proper and efficient conduct of the operations of AEC material redacted.
- 24 Lawful methods or procedures for preventing, detecting, investigating, or dealing with matters arising out of, breaches or evasions of the law.
- 25 Trade Secrets.
- 26 Commercial valuable information.
- 27 Financial interests of the Commonwealth.
- 28 Property interests of the Commonwealth.