Child Protection Simulation Analysis Model
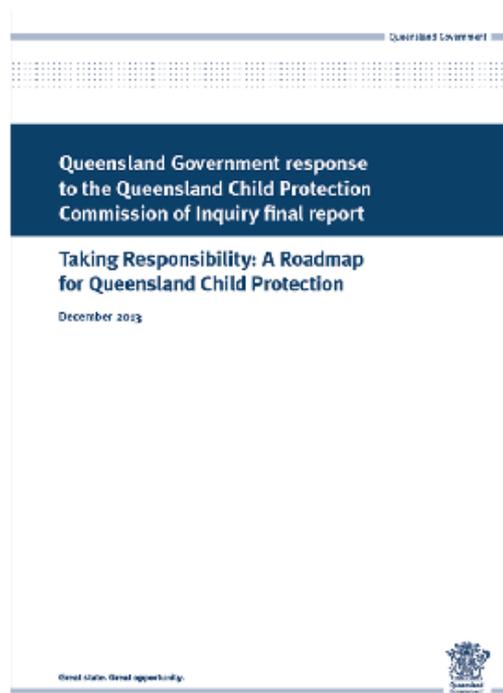
Child Protection Simulation Model

- Carmody Report into child protection

- Government accepted all recommendations

- Department wished to test work package options

- ExtendSim model developed in 2014 allowed phasing of targeted work packages (WP) and testing impact of WP/s by region/s

- Key metrics were downstream counts, eg next 10-15 years

- Approximately 550K probability distributions (PD) determined child pathways by financial year, current age, indigenous status, region, initial/re-entry status and WP where active.

Child Protection Simulation Model

2014

- 7 regions
- 550K PD manually produced by Dept from raw Excel data
- Time-consuming for Dept staff when new FY data introduced
- automation in future would be better option for Dept

2019

- 5 regions
- 400K PD now automatically produced by model during initialisation from raw Excel data ('00s of '000s of records)
- Calculated by using import function and programming in ModL across system's 23 services

Child Protection Simulation Model

2021

- 6 regions

- 475K PD automatically produced by model during initialisation from raw Excel data ('00s of '000s of records)

- Calculated by using import function and programming in ModL across system's 23 services

Future: Next Steps

- TBA

Results / Report

- 74 key metrics per FY
- All analysis being conducted by Dept staff

So what?

- Model has been updated structurally 3 times since 2014 (7 regions to 5 then to 6) and has a large degree of automation

- All analysis is being conducted by Departmental staff

- Departmental analyst advised that updated model with automation is saving them significant time

- Testing and analysis by Dept now more effective & efficient

Queensland Government
Department of Children, Youth Justice and Multicultural Affairs

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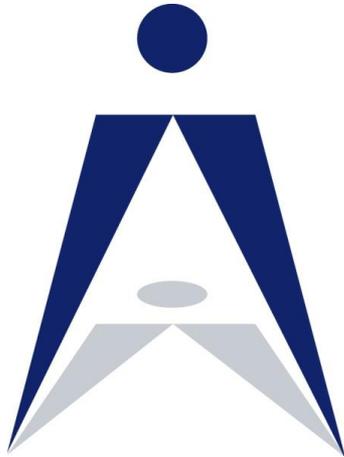
Performance Reporting and Analytics

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* From Andrew: "I am happy to be your contact to take enquiries".

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