

Day 3 Summary





He waka eke noa

Tefua 'a Vaka Lautala

Data sources



- Data sources for producing official Tongan population estimates and projections
 - Births and deaths detailed data, lags in registration
 - External migration timely, not detailed SYOA
 - International data sources
 - Secondary Tongan data sources

Secondary data sources



- Electoral enrolments
- School enrolments
- Tax data
- Heath enrolments
- Social welfare / income support data
- Driver registrations
- Electricity/water consumption data
- Cellphone data

Data adjustments



- Census
- Incomplete component data and extrapolation
 - Last available figure
 - Historical averages
 - Linear trend (regression)
 - Complex trends (polynomial, exponential, ARIMA)
- Broad grouped component data and interpolation
 - Historical distributions
 - Fitted curves, eg Karup King, Sprague
- If in doubt, simpler is better
 - Easier to implement
 - Easier to explain to customers
- Only adjust if it improves the estimate
- Update and revise as new data becomes available

Software



- Excel spreadsheets
- Stats NZ estimates R code
- Stats NZ projections SAS programs
- Repeatable, controlled, replicable
- Minimises risk of error