

Pathways to Positive Outcomes for Families and Whanau

Andrew Sporle¹, Gabrielle Jenkin² and
Prof. Peter Davis²

¹Statistics, Auckland University; ² Public Health and General Practice, Chch
School of Medicine and Health Sciences, Otago



The Project

- Four year quantitative social research project
- Funded from FRST
- Uses existing data from multiple sources
- Multidisciplinary
 - Sociology
 - Public Health (epidemiology)
 - Statistics
- Aim to develop new method of social research and social outcome monitoring



What we want to do

Objectives

- develop standard measures of household composition, socio-economic status and wellbeing
- examine factors contributing to family wellbeing
- examine interaction between ethnicity and SES
- examine SES patterns of household formation (Prandy)
- feasibility of data linkage and routine monitoring

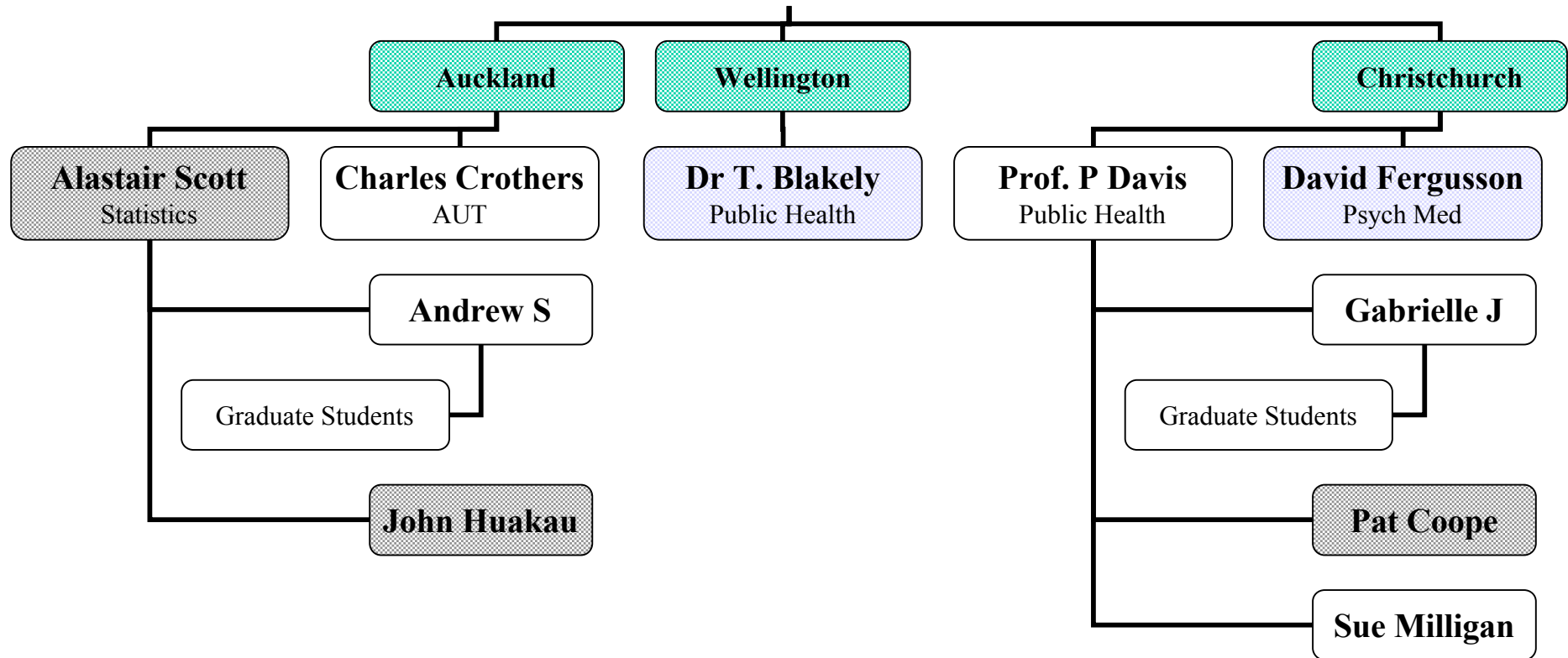


Project Origins

- **Social Epidemiology**
 - Life course determinants of wellbeing
 - Development of statistical methods
- **Social Indicator Work**
 - SES indicators applicable to adult or areas
 - Need for indicators for children or households
- **Social Program Evaluation**
 - Family focused policies
 - Limited measures
 - Limited methods - especially routine



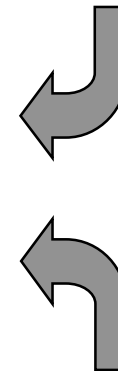
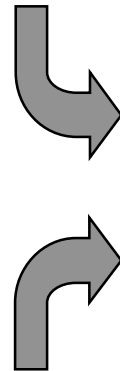
Research Team



Project Links

Chch Health and
Development Study

NZ Census
Mortality Study



FAMILY AND
WHANAU
WELLBEING
PROJECT

NZ Socioeconomic
Index

National Youth
Wellbeing Study



Statistics NZ

MSD
(possibly)



Proposed Methods

- Time Series
 - Focus on household type across time
- Synthetic Cohort
 - Focus on age bands across time
- Modeling with external data
 - Examine outcomes in longitudinal data
- Possible data matching
 - Combining individual information from more than one source

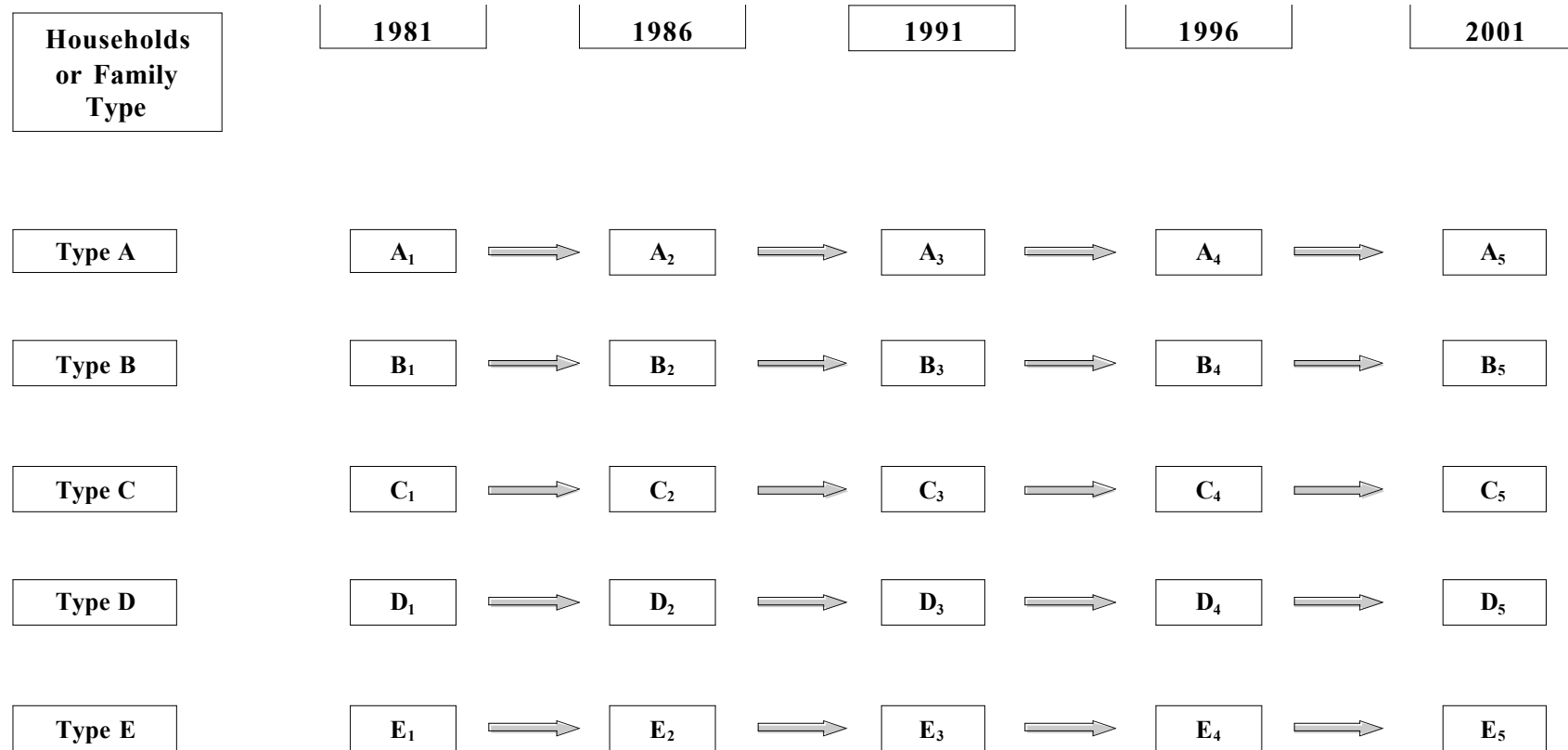


Time Series

- Series of 'snapshots' at different times
- What's happening to whom at particular points of time
- Can't tell us what happens to people across time



Time Series 2



Changing distributions of outcomes for household or family type

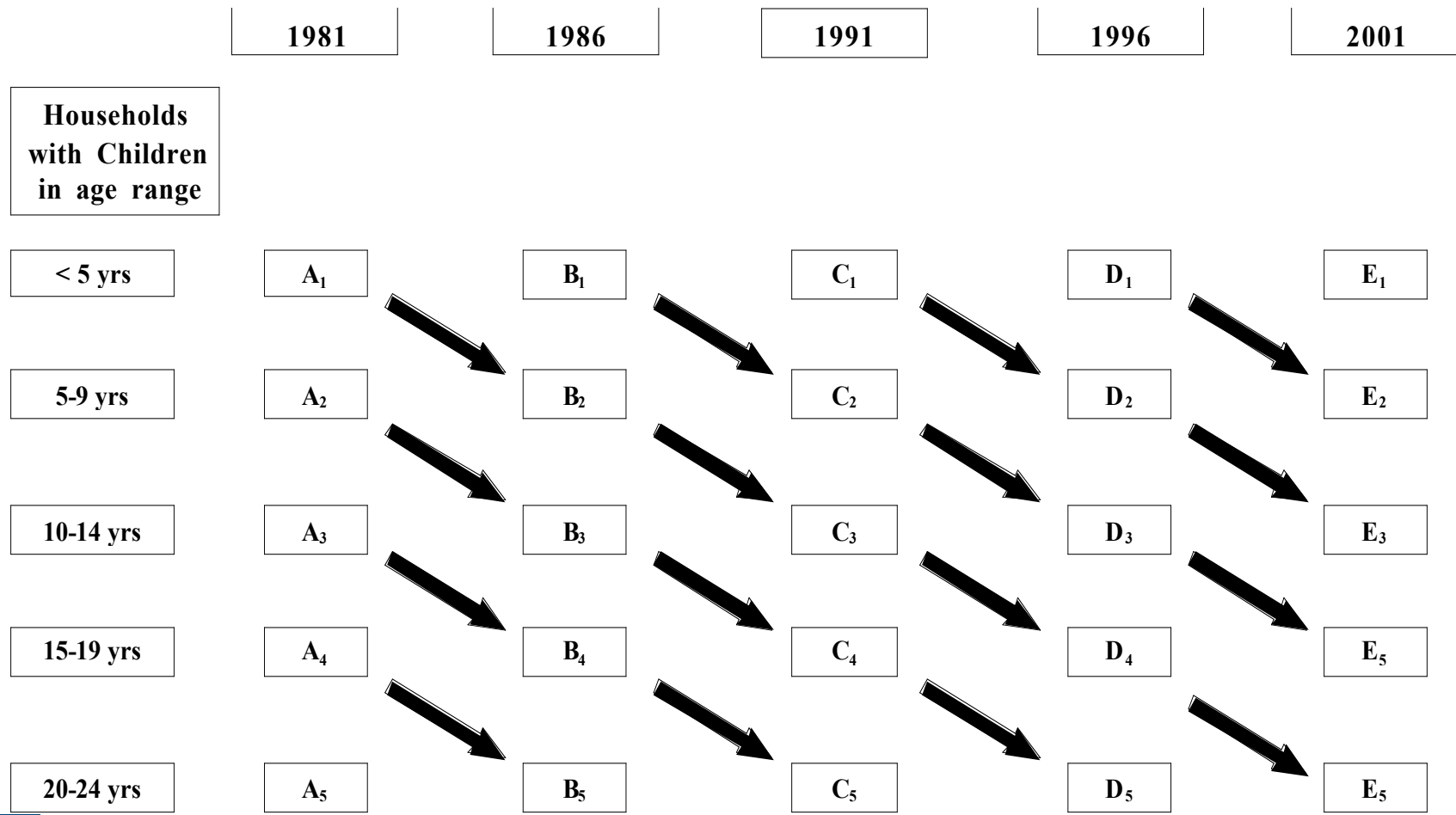


Synthetic Cohort

- Attempting to recreate a cohort of people or families
- Enables following groups through time
- Can examine ongoing impact of events or circumstances at a certain time
- Used in economics (HES)
- Limited to what information was collected at the time



Synthetic Cohort 2



Modeling with External Data

- Census contains very limited information
- Much of this isn't consistent over time
- Detailed analysis requires more detailed information
 - Patterns of outcomes from times series and synth cohort
 - Locate predictors of outcomes in longitudinal data
 - Establish links between predictors using modeling techniques
 - Apply models to time series and synth cohort data



Possible Data Matching

- Match data for individuals from different datasets without knowing their identity
- Match either
 - across time
 - across different datasets
- Provides more detailed information or longitudinal information on an individual
- **BUT**
 - **Strict legal boundaries (Statistics Act)**
 - **Practical issues (e.g. changing definitions)**



Possible Data Sources include

- Routine
 - Census 1981 – 2001
 - Disability surveys
 - Household Labour Force survey
 - Health surveys
 - Administrative data (e.g. benefits)
- Researcher initiated
 - CHDS
 - National Youth Wellbeing Survey



What's in it for MoH and MSD?

- Useful information
 - What type of information would be useful?
 - What reporting mechanisms would be most useful?
 - What reporting timeframes would be most useful?
- Possible synergies with current or future work programmes
 - Does this project overlap with your work program?
 - Key contact people?
 - Possible co-operation options
 - Next steps?

