



AUT Auckland Community Profiling Data-System: 2001-2013

Working Paper 1

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The AUT Auckland Community Profiling Data-system attempts to bring together in one data-base (at present several related databases) built environment and social (and related) data concerning spatial components of Auckland. The data system is to support particular aggregate (but also contextual) data analyses and as a basis for design developments. This working



paper describes the actual/intended data which is available. It is intended that projects might be set up to analyse portions of this data, hopefully adding other data from other sources to that provided here. A GIS mapping capability is intended. The data-system is intended to support analyses which will allow tracing of the effects of different components of the urban region on other components (spatially, in terms of different sub-systems and in terms of different socio-demographic groupings). A series of working papers will be posted on the website as they are completed.

The base for the data-system is the spatial census data (especially that provided through the census meshblock data, but enhanced by further data runs) which would be augmented by:

- Other official statistics also available on a spatial basis (in some cases these will need to be considerably reworked to fit SNZ boundaries);
- Survey data (geocoded to appropriate spatial units within Auckland) which includes information on individuals, and especially on their attitudes and reported behaviours, which can be used (in part) in multi-level modelling to investigate contextual effects, although in the case of some surveys only aggregate data is available.

After indicating some of the main components which can be included listings are provided of some of the constituent variables (e.g. survey questions) included in the various sources.

Other related data-sources include:

Knowledge Auckland: <http://www.knowledgeauckland.org.nz/>

Auckland Indicators: <http://stateofauckland.aucklandcouncil.govt.nz/>

Auckland Counts: <http://www.censusauckland.co.nz/> [Mappable and tabular census data at LB and AU levels]

Statistics NZ place mapping <http://www.stats.govt.nz/Census/2013-census/profile-and-summary-reports/quickstats-about-a-place.aspx>

Auckland Regional Public Health Service Mapping; <http://www.arphs.govt.nz/about/publications-and-reports/arphs-demographic-profile-census-2006#.VPizPuEpgQU>

Auckland Communities Foundation -

MacroAuckland: <http://www.aucklandcf.org.nz/32/macroauckland/the-macroauckland-approach>

Description of Data-System

(1) Spatial Units: Zones (4); Local Boards (20), Area Units (c400), MeshBlocks (c10k)

- (2) Time–Period 2001, 2006, 2013 (some extension back to 1996, 1991 is intended)
- (3) Measures: numbers, proportions, change measures, averages, diversity measures
- (4) Units: Individuals, Families, Households (nb: since data is measured at each of these levels which needs investigation to choose most appropriate levels)
- (5) Sub-Groupings: Relevant Statistics NZ data is often available separately for men and women and sometimes by ethnicity and survey data usually has a range of possible sub-groupings identified.
- (6) Data-Sources:
 - Census meshblock database (2001, 2006, 2013)
 - Extra Census 2013 data (In several variable-sets only a limited number of categories/variables is provided in the MB database)
 - Surveys: Big City QOL @ LB level (2012, 2014 and some earlier)
 - NZES 2014 @ Electorate and other level (some earlier)
 - AUT Housing and Local Authority Voting Survey
 - GSS 2010 (by zone and s.e.s. decile grouping)
 - World Internet Project Survey: some geocoded
 - Earlier Auckland surveys
 - Other sources:
 - Housing rental and property sales (Suburb groupings)
 - WINZ benefit data (Office level)
 - Health data (AU level)
 - School data (level, Decile, Ethnic composition, changes, Results)
 - Police offence data
 - Community & Family Services government expenditure mapping
 - Etc.

(7) Details from Selected Data-Sets: Variables available

(7.1) Meshblock and related Variables (especially at CAU level)

Individuals (part 1)

- Census usually resident population count/Census night population count
- AU level population projections
- Sex
- Age in five-year age groups; Age in broad groups; Median age
- Years at usual residence
- Usual residence five years ago (2008) indicator
- Birthplace + Extended
- Years since arrival in New Zealand, for the overseas-born
- Ethnic groups (grouped total responses) + Extended (2)
- Six languages (total responses) + Extended
- Maori descent

Individuals (part 2)

- Religious affiliation (total responses) + Extended
- Cigarette smoking behaviour
- Legally registered relationship status
- Partnership status in current relationship
- Tenure holder
- Number of children born
- Highest qualification
- Study participation
- Total personal income (grouped) ; Median personal income
- Sources of personal income (total responses)

Individuals (part 3a)

- Work and labour force status
- Status in employment
- Occupation – ANZSCO major group
- Occupation – ANZSCO major group, for workplace address
- Occupation – NZSCO99 major group
- Occupation – NZSCO99 major group, for workplace address
- Industry – ANZSIC06 division
- Industry – ANZSIC06 division, for workplace address
- Industry – ANZSIC96 division
- Industry – ANZSIC96 division, for workplace address

Individuals (part 3b)

- Hours worked in employment per week
- Main means of travel to work
- Main means of travel to work, workplace address
- Unpaid activities (total responses)

Family

- Total families
- Family type
- Total family income (grouped); Median family income
- Sources of family income (total responses)

Households

- Total households
- Household composition
- Number of usual residents in household; Mean number of usual household members
- Total household income (grouped); Median household income
- Sources of household income (total responses)
- Tenure of household
- Sector of landlord
- Weekly rent paid; Median weekly rent paid
- Number of motor vehicles to which the household has access
- Access to telecommunications (total responses)
- Derived Variables: Household Crowding, Jensen Scale, Rental Affordability, DepIndex (acquired as a paid job from StatsNZ)

Dwellings

- Occupied private dwelling type + Extended categories
- Dwelling record type (for occupied dwellings)
- Number of rooms
- Number of bedrooms; Mean number of bedrooms
- Fuel types used to heat dwelling (total responses)

+ Nonoccupied Dwellings (empty, under construction)

7.2: Consolidated List of Quality of Life Survey Variables

S1 Ethnicity - New Zealand European

Age

Age groups

City or other location

Q1b Lived in the region

Q3 Pride in appearance of city

Q5 Accessibility of parks

Q7 Safe at home during the day

Q7 Safe at home after dark

Q7 Safe walking in neighbourhood after dark

Q7 Safe in city centre during the day

Q7 Safe in city centre during the night

Q9 How safe for children

Q11 Rating local issues - Rubbish or litter lying on the streets

Q11 Rating local issues – Graffiti

Q11 Rating local issues - Vandalism, including broken windows on shops and public buildings

Q11 Rating local issues - Car theft, damage to cars or theft from cars

Q11 Rating local issues - Dangerous driving including drink driving and speeding

Q11 Rating local issues - People who you feel unsafe around because of their behaviour, attitude or appearance

Q11 Rating local issues - Air pollution

Q11 Rating local issues - Water pollution including pollution in streams, rivers, lakes and in the sea

Q11 Rating local issues - Noise pollution

Q12 Use of public transport

Q13 Rating of public transport – affordable

Q13 Rating of public transport – safe

Q13 Rating of public transport – convenient

Q14 Council decisions

Q14 Council more say

Q14 Council confidence

Q15 Publics influence on the Council

Q16 Employment status

Q18b Satisfaction with work/life balance

Q20 Overall rating of health

Q21a Didn't see doctor when should have

Q22 Active days

Q24a Community sense important

Q24b Community sense felt

Q26 Membership of social networks – list

Q28 Feelings of isolation

Q30 How happy

Q31 Satisfaction with life

Q32a Feel stressed
Q33 Rich and diverse arts scene
Q34a Feelings about people from different countries
Q35 Overall quality of life
Q36 Born in NZ
Q37 Time in NZ
Q38 Size of household
Q40 Who owns house
Q41 Education
Q42 Personal income
Q43 Household income
Q5 Gender

7.3a: Variables in AUT Housing/Voting Survey (Part 1)

Q99GEN GENDER

Q99SUB SUBURB

Q99LB LOCAL BOARD

Q99AREA AREA

Q1 LEVEL OF INTEREST IN LOCAL GOVERNMENT POLITICS

Q2 INTEREST CHANGED SINCE AMALGAMATION INTO SUPERCITY

Q3 INTEREST INCREASED OR DECREASED

Q4 RATING OF AUCKLAND AS A PLACE TO LIVE

Q5 AUCKLAND BETTER OR WORSE PLACE TO LIVE SINCE AMALGAMATION

Q7 OPINION ON GROWTH OF AUCKLAND

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Auckland s beaches

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Council facilities community halls and community centres

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - City-wide events

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Library services

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Council run parks and reserves

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Recreational facilities

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Public transport

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Disposal and treatment of wastewater

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - The amount of council information available to you

Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - The extent to which Auckland now is a single region compared to having several different councils previously

Q9A HEARD OF AUCKLAND COUNCIL PLAN AND DIRECTION

Q9B HOW FAMILIAR WITH AUCKLAND COUNCIL PLAN AND DIRECTION

Q9C LEVEL OF AGREEMENT WITH AUCKLAND COUNCIL PLANS

Q10 LEVEL OF CONFIDENCE IN AUCKLAND SYSTEM LOCAL GOVERNMENT

Q11 LOCAL GOVERNMENT VS CENTRAL GOVERNMENT

Q12 SUITABILITY OF APARTMENT LIVING

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - The Auckland governance reforms have benefited the region as a whole

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - The Auckland governance reforms have benefited your local community

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - There are many opportunities for active participation and involvement in the arts

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - The mayor is an effective leader for the region

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - You have received good value for money from your rates

Q14 OPINION ON NUMBER OF LOCAL BOARDS

Q15 LIKELIHOOD OF VOTING IN 2013 LOCAL ELECTIONS

Q16 INTENDED VOTE FOR MAYOR

Q16B WHICH OTHER CANDIDATE
 Q18 VOTE FOR GROUPS OR INDEPENDENTS IN LOCAL BODY ELECTION
 Q19 WHICH GROUPING VOTE FOR
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Roading congestion
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Public transport
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - The Auckland economy
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Rates
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Housing
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Crime & safety
 Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Social issues
 Q20B ANY OTHER IMPORTANT ISSUES RELEVANT
 Q21 THINK THERE SHOULD BE MAORI SEATS
 Q22 THINK INDEPENDENT MAORI STATUTORY AUTHORITY IS A GOOD IDEA
 Q23 PARTY VOTE IN 2011 GENERAL ELECTION
 Q24 VOTE IN 2010 LOCAL ELECTION
 Q25 AGE
 Q26 ETHNICITY
 Q27 MAIN ETHNICITY
 Born
 Q28 FREQUENCY USE PUBLIC TRANSPORT
 Q29 NUMBER OF PEOPLE IN HOUSEHOLD 18+
 Q30 NUMBER OF PEOPLE UNDER 18 YEARS
 Q29 NUMBER OF PEOPLE IN HOUSEHOLD
 Q31 COMBINED HOUSEHOLD INCOME
 Q32 RESIDENCE OWNED OR RENTED
 Q33 RESIDENCE SEPARATE HOUSE OR NOT
 Q34 HOW MANY DWELLINGS IN GROUP
 Q35 HOW LONG LIVED IN CURRENT RESIDENCE
 Q36 HOW LONG LIVED IN AUCKLAND
 Q37 OFFER OF REPORT
 Q39 RECONTACT
 Q41 EMAIL ADDRESS REQUEST
 Q1 LEVEL OF INTEREST IN LOCAL GOVERNMENT POLITICS
 Q4 RATING OF AUCKLAND AS A PLACE TO LIVE
 Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Auckland s beaches
 Q8 SATISFACTION WITH ASPECTS OF AUCKLAND - Council facilities community halls and
 community centres
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Q9C LEVEL OF AGREEMENT WITH AUCKLAND COUNCIL PLANS

Q10 LEVEL OF CONFIDENCE IN AUCKLAND SYSTEM LOCAL GOVERNMENT

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - The Auckland governance reforms have benefited the region as a whole

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Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - The mayor is an effective leader for the region

Q13 LEVEL OF AGREEMENT WITH STATEMENTS ABOUT LIFE AND POLITICS - You have received good value for money from your rates

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Roading congestion

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Public transport

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - The Auckland economy

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Rates

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Housing

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Crime & safety

Q20 RELEVANCE OF TOPIC TO VOTING CHOICE - Social issues

7.3b: Variables in AUT Housing/Voting Survey (Part 2)

Q99GEN GENDER

Q99AREA AREA

Q1 VOTE IN 2013 LOCAL ELECTIONS

Q2A REASONS VOTED

Q2B REASONS DID NOT VOTE

Q2C PREFERRED VOTING METHOD

Q3 MAYORAL VOTE

Q4 REASONS FOR MAYORAL VOTE

Q5 VOTE FOR INDEPENDENTS OR GROUPS

Q6 WHICH GROUPING VOTE FOR

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Roading congestion

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Public transport

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - The Auckland economy

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Rates

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Housing

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Crime & safety

Q7 RELEVANCE OF TOPIC TO VOTING CHOICE - Social issues

Q7B ANY OTHER IMPORTANT ISSUES RELEVANT

Q8PRE PREAMBLE FOR Q8 FOR RECONTACTS

Q8 PREFERRED WORD FOR DWELLING

Q9 RESIDENCE SEPARATE HOUSE OR NOT

Q10 HOW MANY DWELLINGS IN GROUP

Q11 LOCATION OF HOME

Q12 HOW LONG LIVED IN CURRENT RESIDENCE

Q13 INVOLVED IN DECISION

Q14 IMPORTANCE RATING FOR ASPECTS OF CHOOSING DWELLING - The xxxxx itself

Q14 IMPORTANCE RATING FOR ASPECTS OF CHOOSING DWELLING - The outdoor areas of your xxxxx

Q14 IMPORTANCE RATING FOR ASPECTS OF CHOOSING DWELLING - The neighbourhood

Q14 IMPORTANCE RATING FOR ASPECTS OF CHOOSING DWELLING - It was available and was the best we could get from limited options

Q14B ONE MOST IMPORTANT

Q15 RESIDENCE OWNED OR RENTED

Q15B INTEND PURCHASE A HOME

Q16 PREFERRED TYPE OF HOME

Q17A INTEND MOVING NEXT 2 YEARS

Q17B WHY INTEND TO MOVE

Q18 HOW WELL HOME PERFORMS - Providing enough personal space for each person in your household

Q18 HOW WELL HOME PERFORMS - Providing enough communal space for everyone in your household

Q18 HOW WELL HOME PERFORMS - Providing enough space to host guests

Q18 HOW WELL HOME PERFORMS - Being warm and dry

Q18 HOW WELL HOME PERFORMS - Being efficient and cost effective to heat

Q18 HOW WELL HOME PERFORMS - Using water efficiently

Q18 HOW WELL HOME PERFORMS - Being easy to maintain

Q20B HOW ACHIEVABLE IS IT TO MAKE CHANGES

Q21 RATING OF HOME AS PLACE TO LIVE

Q22 CHANGES TO ACHIEVE LONG TERM ENVIRONMENTAL SUSTAINABILITY

Q23 TYPE OF HOUSING IN NEIGHBOURHOOD

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Parks or other natural areas

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Walking paths other than footpaths

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Cycle lanes

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Local shop or shops

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Cafes or restaurants

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Entertainment opportunities

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Employment opportunities that are relevant for you or your household

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Schools

Q24 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Playgrounds other than in school grounds

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Feeling safe in the streets during the day

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Feeling safe in the streets at night

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Access to public transport

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Walking

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Cycling

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Enjoyment of nature

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Access to local shops

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Access to education facilities

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Access to work and employment opportunities

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Access to entertainment

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Connections to neighbours

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Providing peace and quiet

Q26 FREQUENCY USE FACILITIES IN NEIGHBOURHOOD - Providing excitement and allowing necessary noise

Q27 AGREEMENT WITH STATEMENTS ABOUT COMMUNITY - A sense of community in my neighbourhood is very important to me

Q27 AGREEMENT WITH STATEMENTS ABOUT COMMUNITY - My neighbourhood has a strong sense of community

Q28B HOW ACHIEVABLE IS IT TO MAKE CHANGES

Q29 RATING OF NEIGHBOURHOOD AS PLACE TO LIVE

Q30 RATING OF SUITABILITY OF APARTMENT LIVING

Q32 AGE

Q33 ETHNICITY

Q34 MAIN ETHNICITY

Q35 WHERE BORN

Q36 HOW LONG LIVED IN NEW ZEALAND

Q37 HIGHEST LEVEL OF EDUCATION

Q38 FREQUENCY USE PUBLIC TRANSPORT

Q39 NUMBER OF PEOPLE IN HOUSEHOLD 18+

Q40 NUMBER OF PEOPLE UNDER 18 YEARS

Q41 COMBINED HOUSEHOLD INCOME