Waikato Projections

Geographx

Agenda

1. Overview

2. Future Proof & regional projections

3. Your requirements

4. Next steps –> Working Group

Use of Projections

- LTPs, RPS, Regional/District Plans

- Transport planning (RLTP, RPTP, NZTA funding)

- Infrastructure and Asset Management Plans

- Non-statutory strategic planning (Waikato Plan, Future Proof, Sea Change, Econ Development)

at the (inter)-regional, district/city, local level

Other drivers

➢ Better Local Government
➢ Business Growth Agenda

Shared and common evidence-base to ensure consistency in planning and decision-making
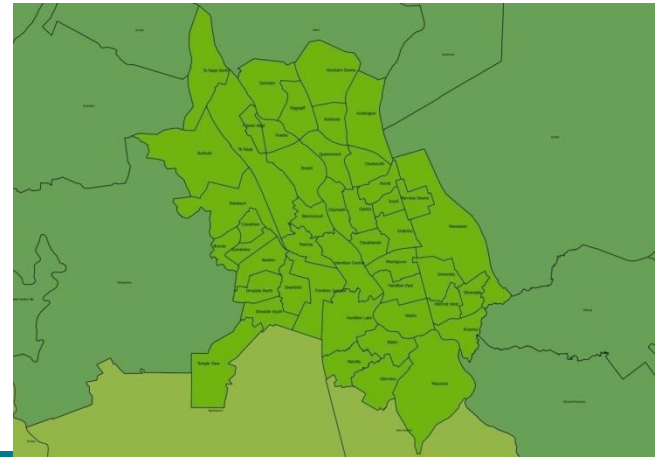
Population Projections for the Waikato Region

NZ Population Clock
4,730,776
as at Wednesday, 10 Nov 2016 at 09:04:21

➢ NIDEA, University of Waikato

  ✓ Population (by age/gender)

  ✓ Households

  ✓ Labour force

➢ From 2013 to 2063

➢ By TA and CAU

Projections are <u>not</u> predictions.

All projections are wrong…
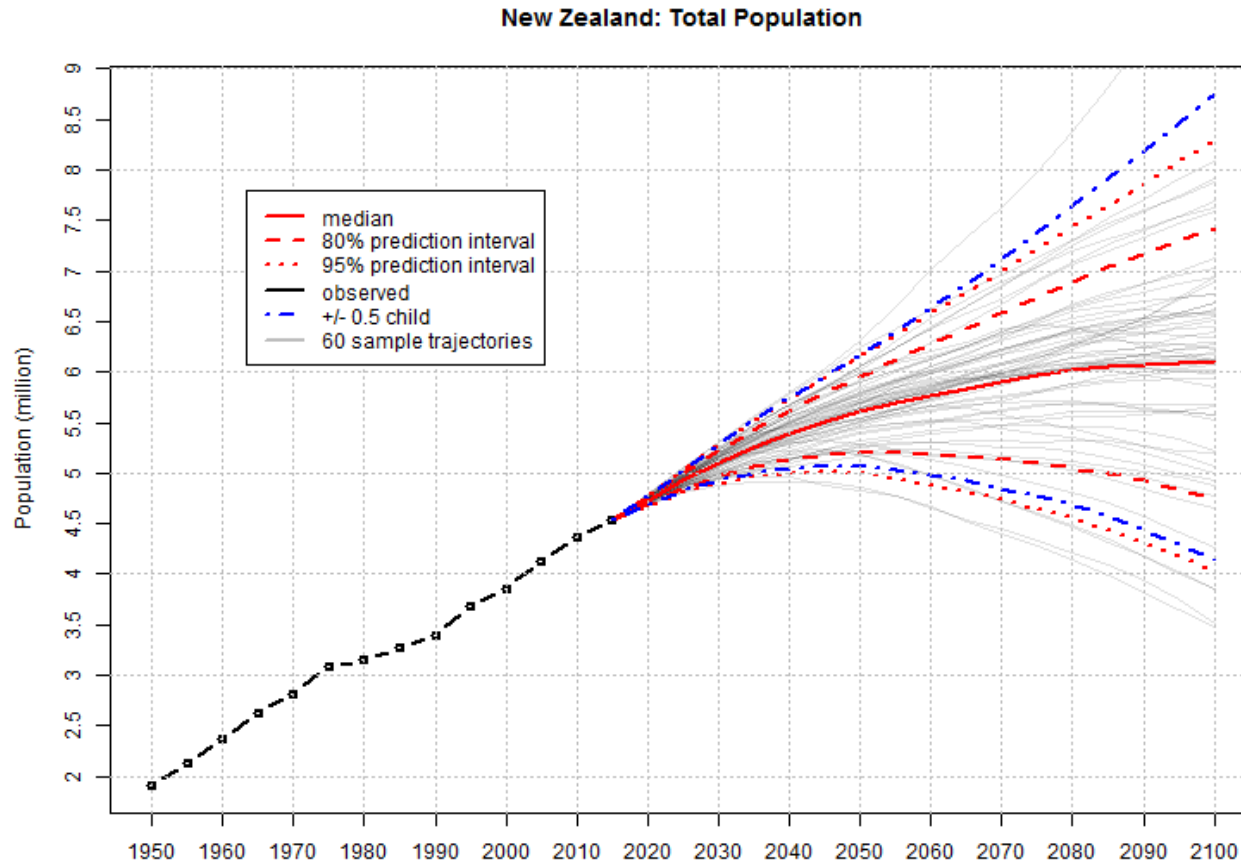
Healthy environment
Strong economy
Vibrant communities

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato

UN Population Projections for NZ

Un Department of Social and Economic Affairs, 2015, http://esa.un.org/unpd/wpp/Graphs/

New Zealand: Total Population

Probabilistic population projections for Waikato District
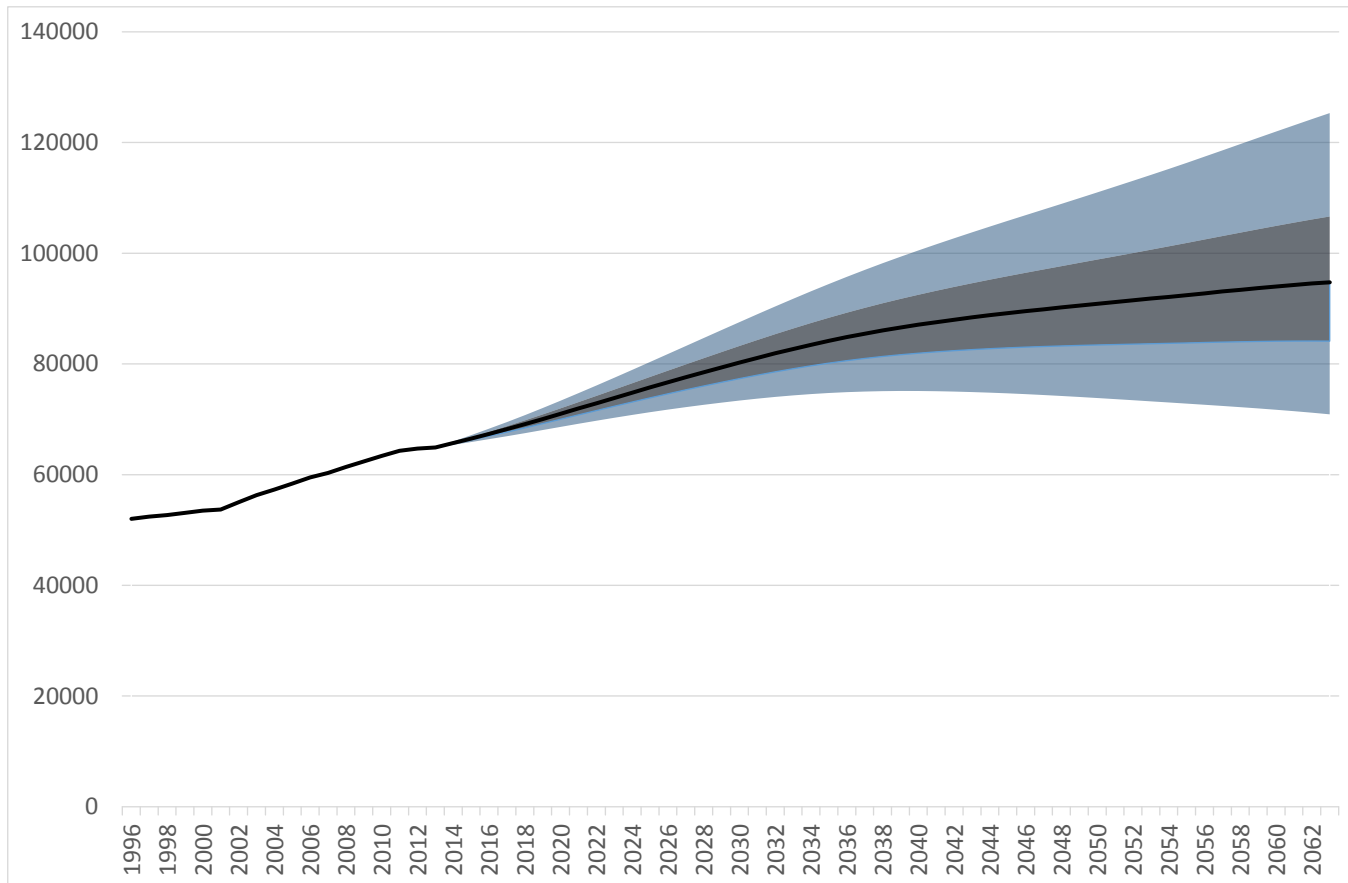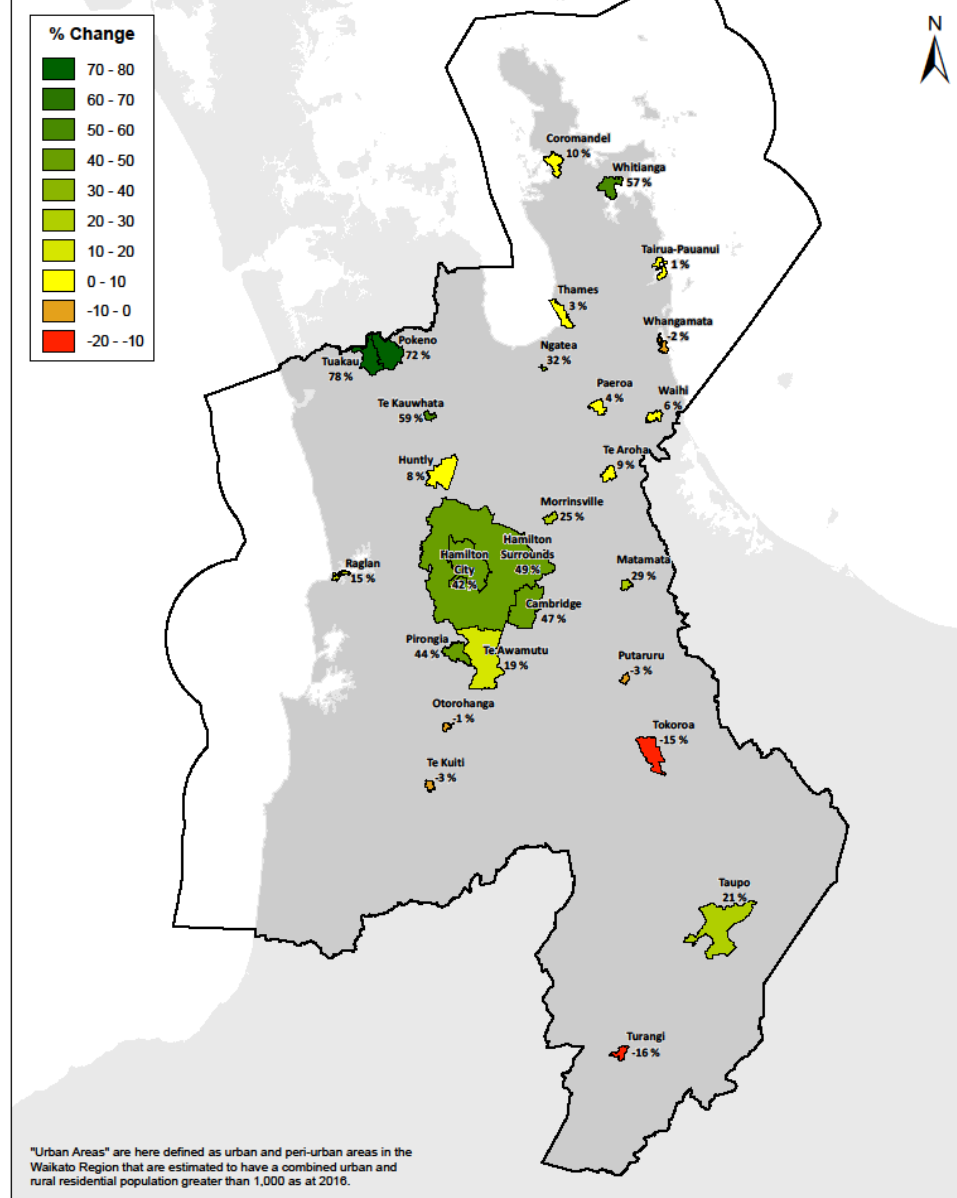
Waikato Population Model (NIDEA)
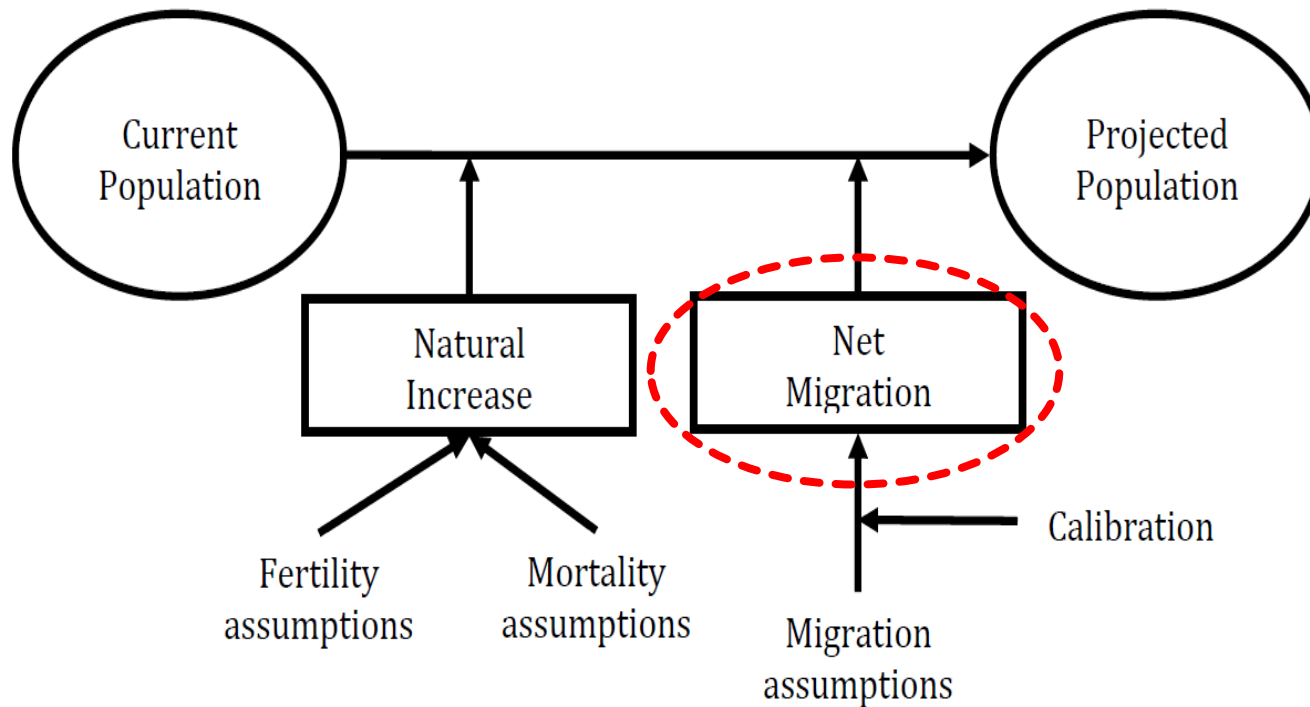
Population
(estimated resident pop)

Urban Areas
Change 1996-2016 (%)

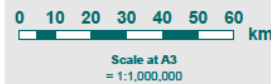# **Projected population changes in the districts, by 2063**

Continuing regional growth, but significant variations across the region

Projected Population Change by Territorial Authority between 2013 - 2063 (NIDEA July 2015)
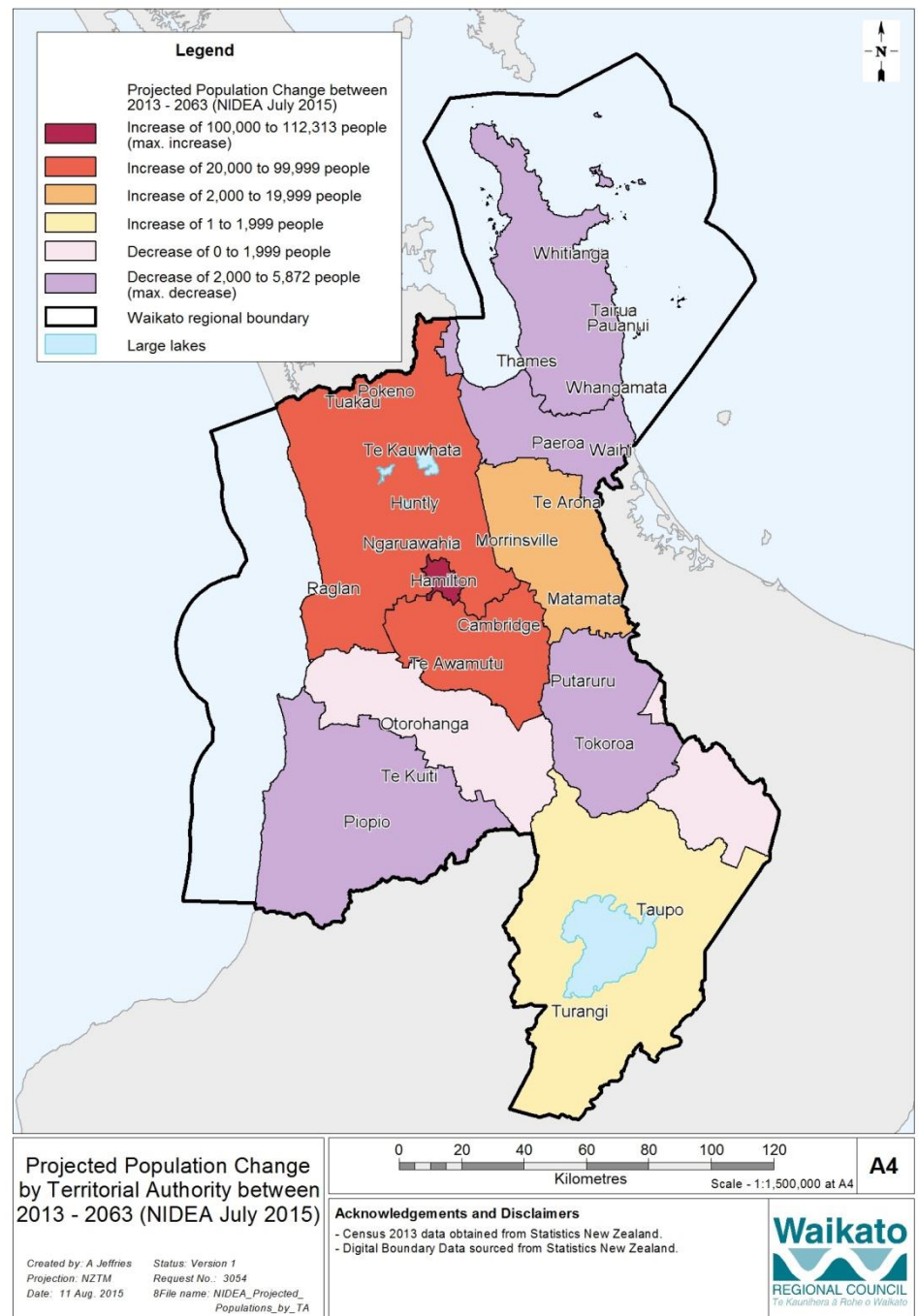
Key issues – ageing and depopulation
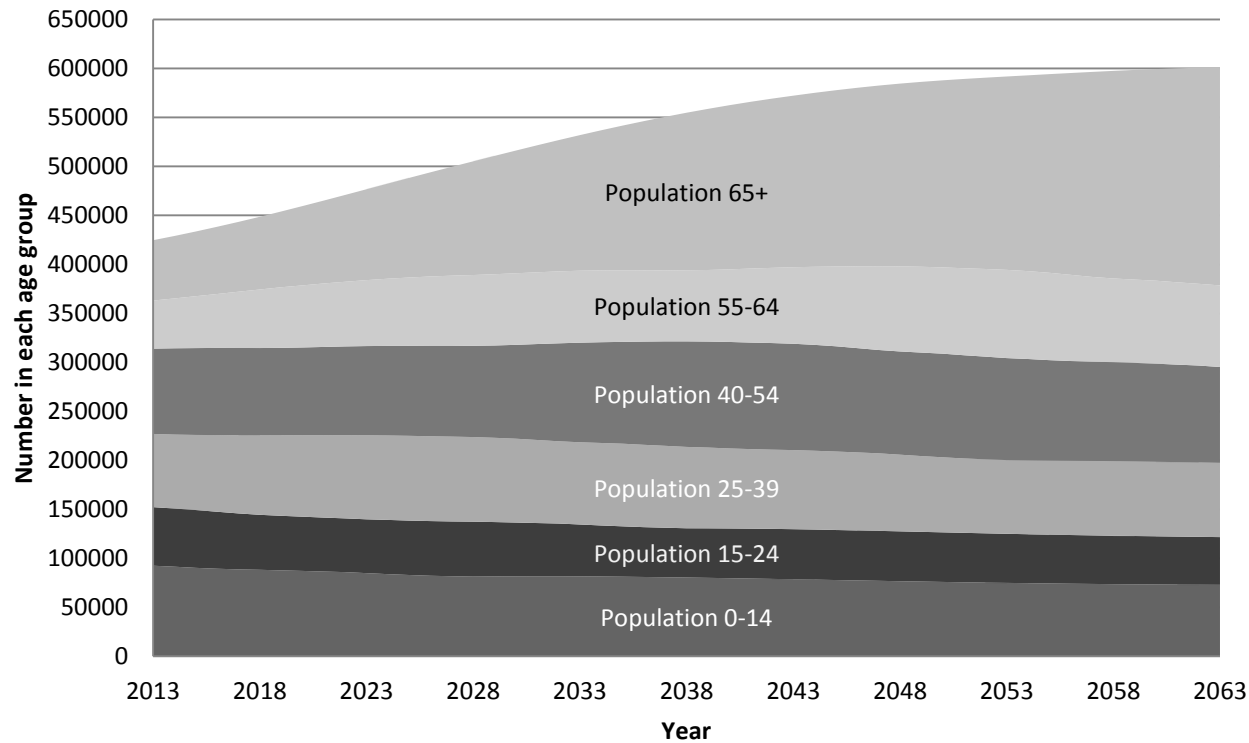
Waikato population projections 2013 to 2063, by age group

Healthy environment
Strong economy
Vibrant communities

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato

Projections 2013-2063

- Projections of: **Land Use, Population, Economics**
- Waikato region, TAs (11) and CAUs (201)

- **Land Use** – Waikato Regional Council (WISE/Alchemists Ltd)
  - Land use (25 urban and rural land use classes; 100mx100m)
- **Population - NIDEA, University of Waikato**
  - Population (by age/gender)
  - Households
  - Labour force
- **Economic** – Market Economics Ltd
  - Employment
  - Value-added

Simplified process links:

Land Use

Population → Economics

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato

Process for developing land use, population and economic projections for the Waikato Region

Work stream process for creating updated population and economic data for WISE, WRTM, and FP
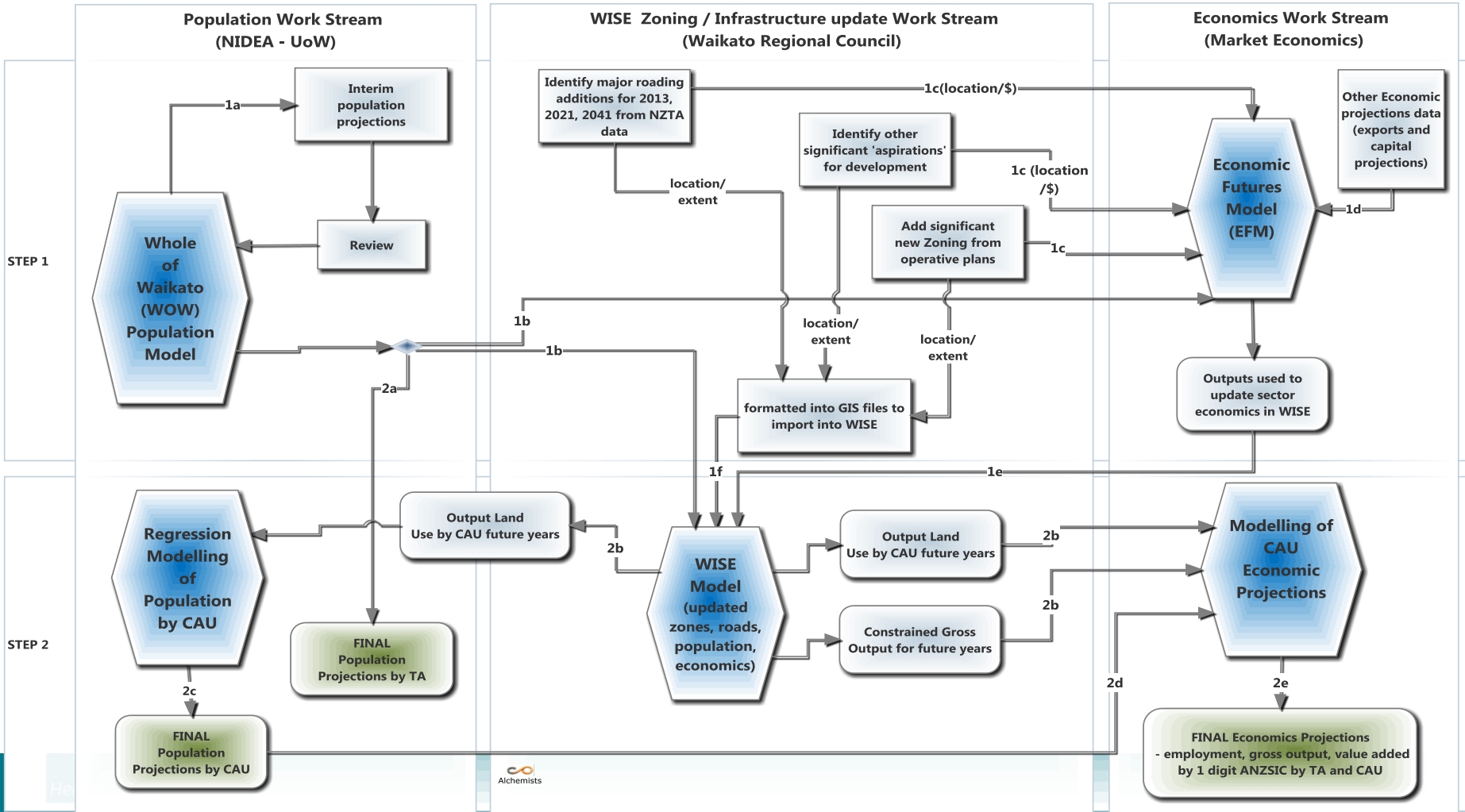
2015 Update of WISE – Input from TAs

Land Use

4a - Draft 2013 LU Map

4b - Validation process with TA's of 2013 land use map

4c - Revise 2013 and 2006 land use maps process

4c - Final 2013, 2006 LU Maps

7a - Calibration of WISE V4.0

7b - Version 4.0 Release

8 - WISE V4.0 Documentation updated

Zoning

3a - EMS to revise zoning matrix file

Revise TA zoning data (link to WP process)

3c-d - Revise zoning settings where required in WISE (add new, delete redundant, set precedence's) reload zone files at 100m
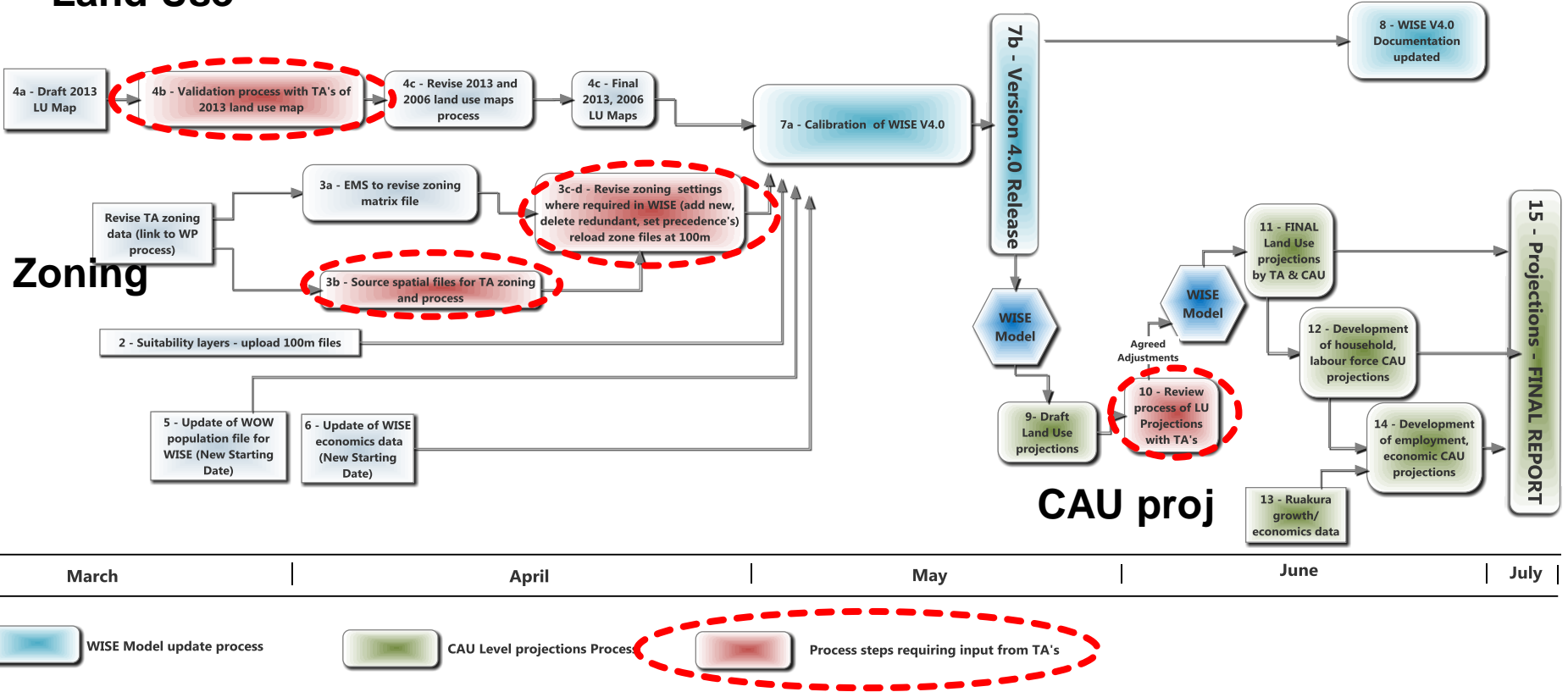
3b - Source spatial files for TA zoning and process

2 - Suitability layers - upload 100m files

5 - Update of WOW population file for WISE (New Starting Date)

6 - Update of WISE economics data (New Starting Date)

WISE Model

9 - Draft Land Use projections

Agreed Adjustments

WISE Model

10 - Review process of LU Projections with TA's

11 - FINAL Land Use projections by TA & CAU

12 - Development of household, labour force CAU projections

14 - Development of employment, economic CAU projections

13 - Ruakura growth/ economics data

15 - Projections - FINAL REPORT

CAU proj

March	April	May	June	July

WISE Model update process

CAU Level projections Process

Process steps requiring input from TA's

Healthy environment
Strong economy
Vibrant communities

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato
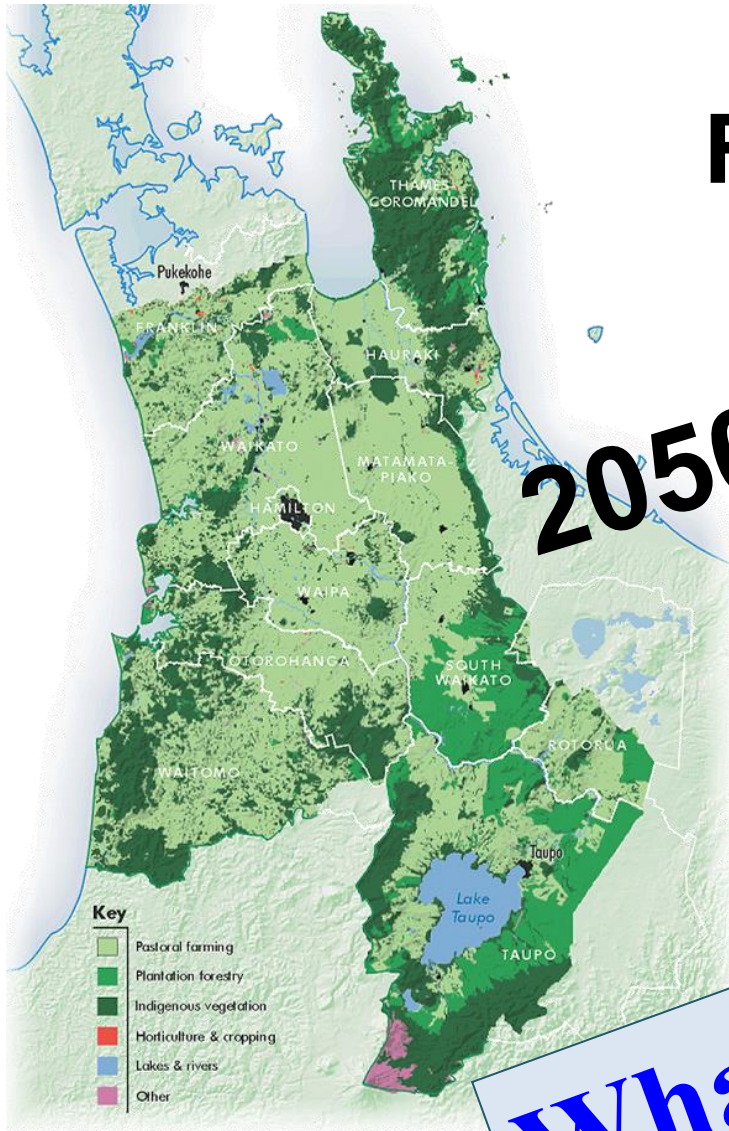
Projections – Some Caveats

- Not forecasts or predictions

- Models are not reality

- Uncertainty

- Models cannot mind read

- Limited knowledge – ongoing improvement

Healthy environment
Strong economy
Vibrant communities

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato
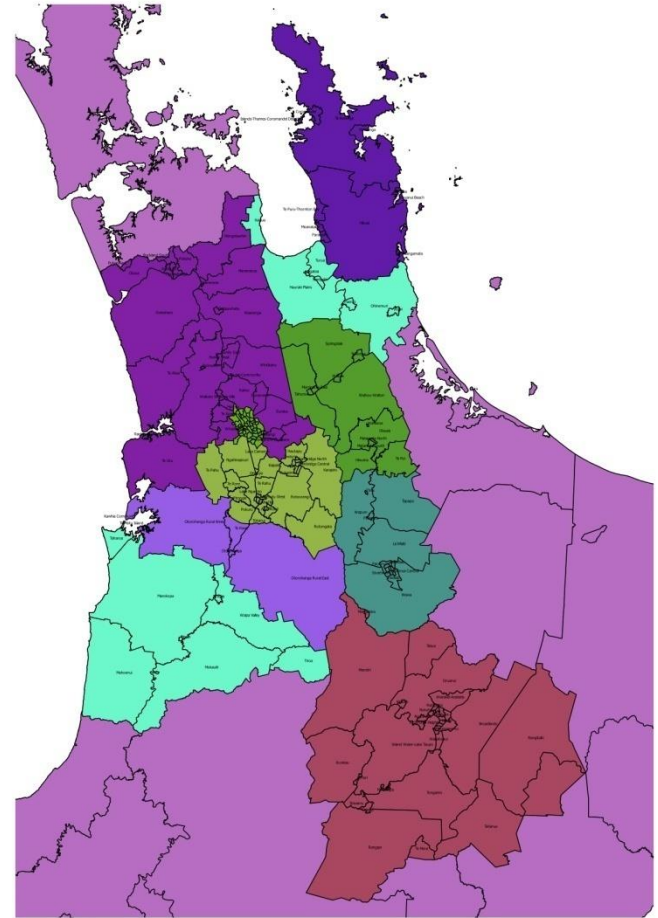
Future Scenarios

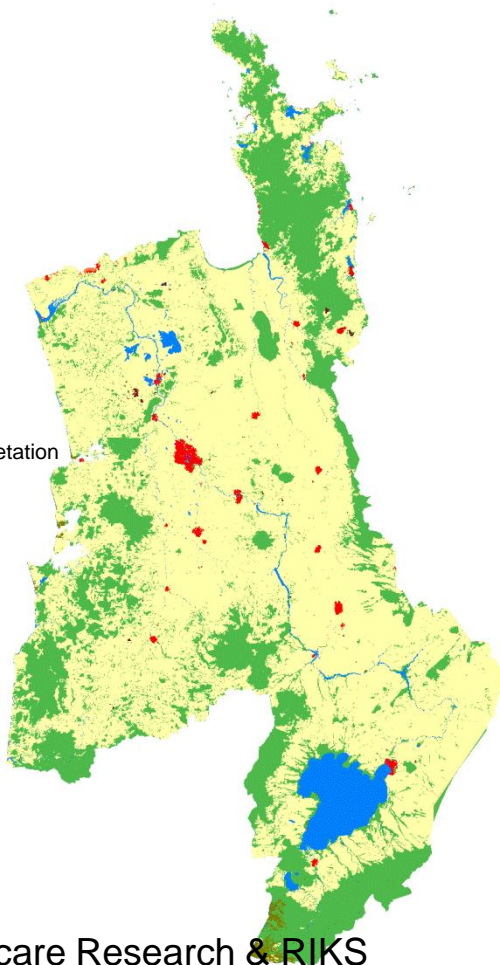2050?

What, if…?

Healthy environment
Strong economy
Vibrant communities

Waikato in 2050 – Three Different Futures *(what/ifs?)*
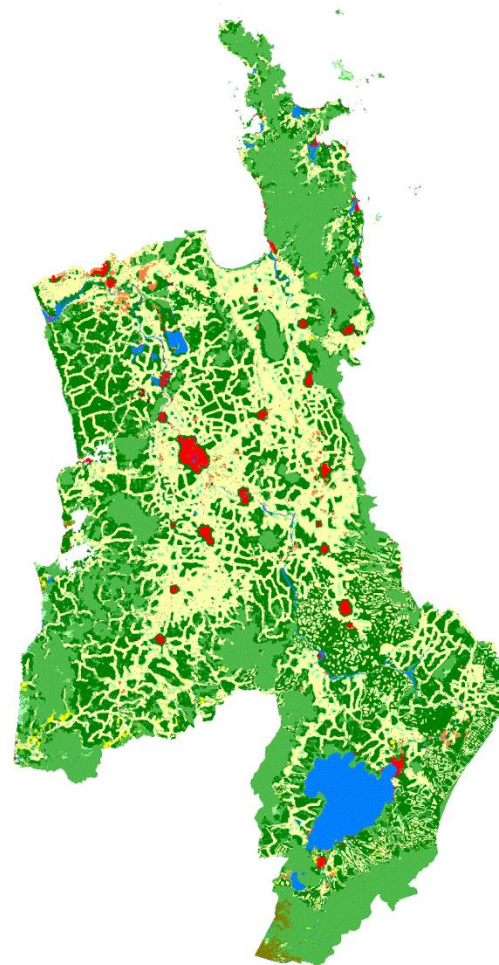## (based on WISE Prototype)

1-Dairy Expansion
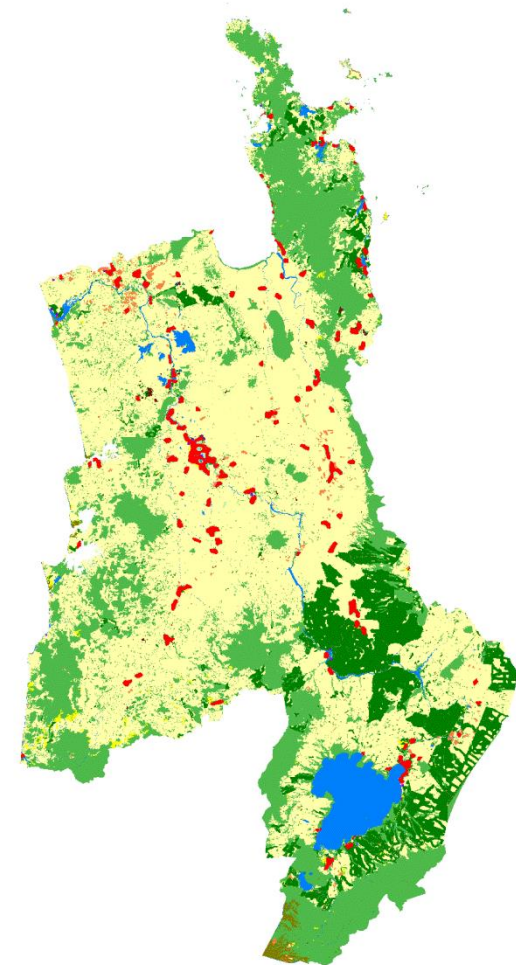Land for dairying increases ~4% annually

2-Diversification
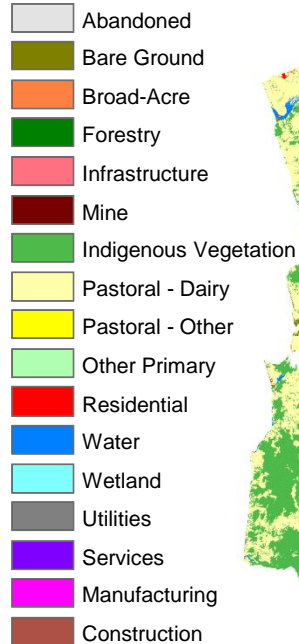Demand for non-dairy primary production land increases

3-Village Life
Residential land increases 7-fold

Land Use

- Abandoned
- Bare Ground
- Broad-Acre
- Forestry
- Infrastructure
- Mine
- Indigenous Vegetation
- Pastoral - Dairy
- Pastoral - Other
- Other Primary
- Residential
- Water
- Wetland
- Utilities
- Services
- Manufacturing
- Construction

Source: Landcare Research & RIKS

Use of projections/WISE Model for Scenarios
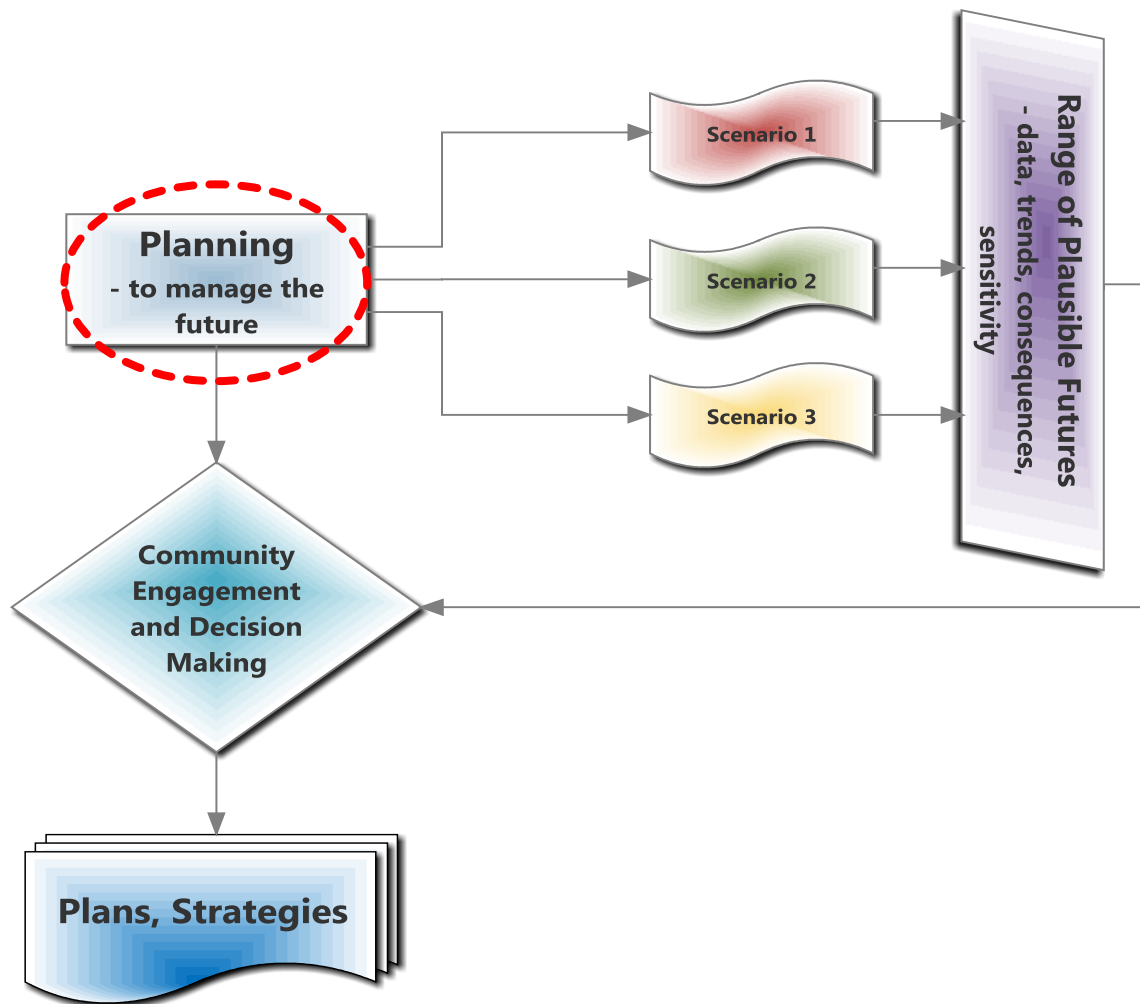
Thank you

Data files and documents available from:

- ftp://Projections:CRiZSjCR@pubftp.waikatoregion.govt.nz

- (follow instructions in email of meeting invite, access expires 9 Dec 2016)

Data:

1) TA and CAU Land Use projections

2) TA population projections (pop, households, labour force) – *CAU by Nov 2016*

3) *TA and CAU Economic projections (value added, employment) – End Dec 2016*

Reports:

1) Population, family and household, and labour force projections for the Waikato region, 2013-2063 (2015 update): http://www.waikatoregion.govt.nz/TR201528/

2) Land Use, Demographic and Economic Projections for the Waikato Region, 2013 to 2061' (methodology, process and March 2016 data): www.waikatoregion.govt.nz/tr201603/

WISE Model:

1) YouTube video: https://www.youtube.com/watch?v=RgEABCz1RrI

2) Website: http://www.creatingfutures.org.nz/

Healthy environment
Strong economy
Vibrant communities

Waikato
REGIONAL COUNCIL
Te Kaunihera ā Rohe o Waikato