

HEALTHY AGING FOR ALL NEW ZEALANDERS

A view from inside Electra Services

... The numbers

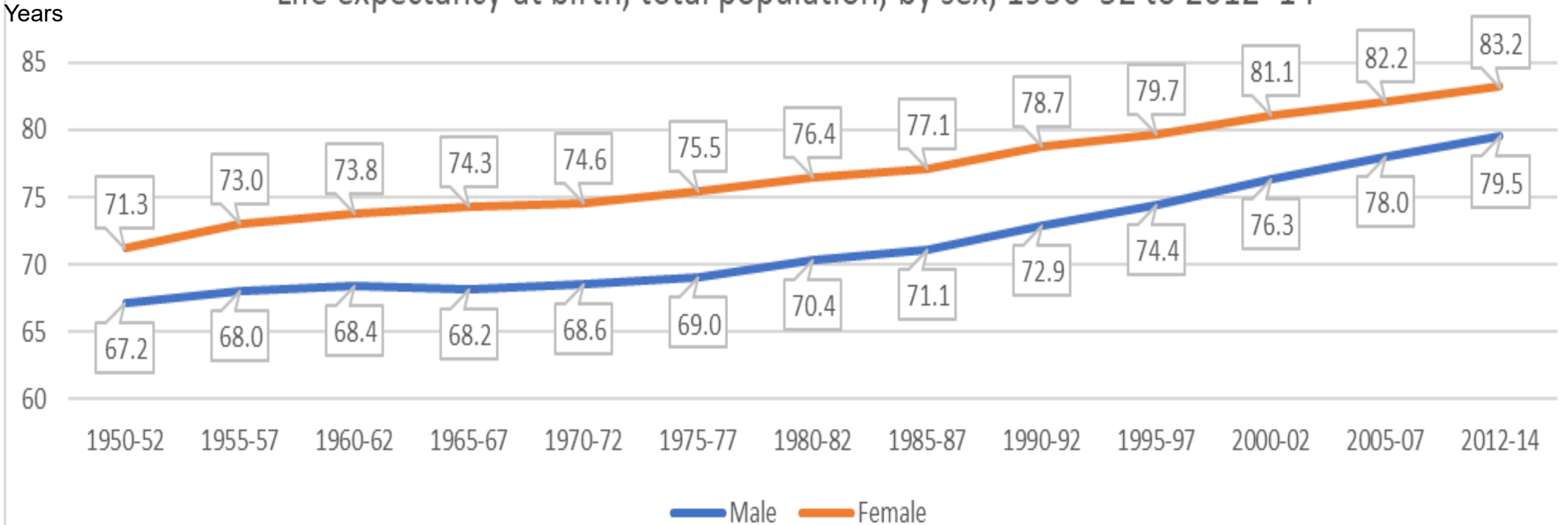
... Current support approach

... Looking at things from the top of the cliff

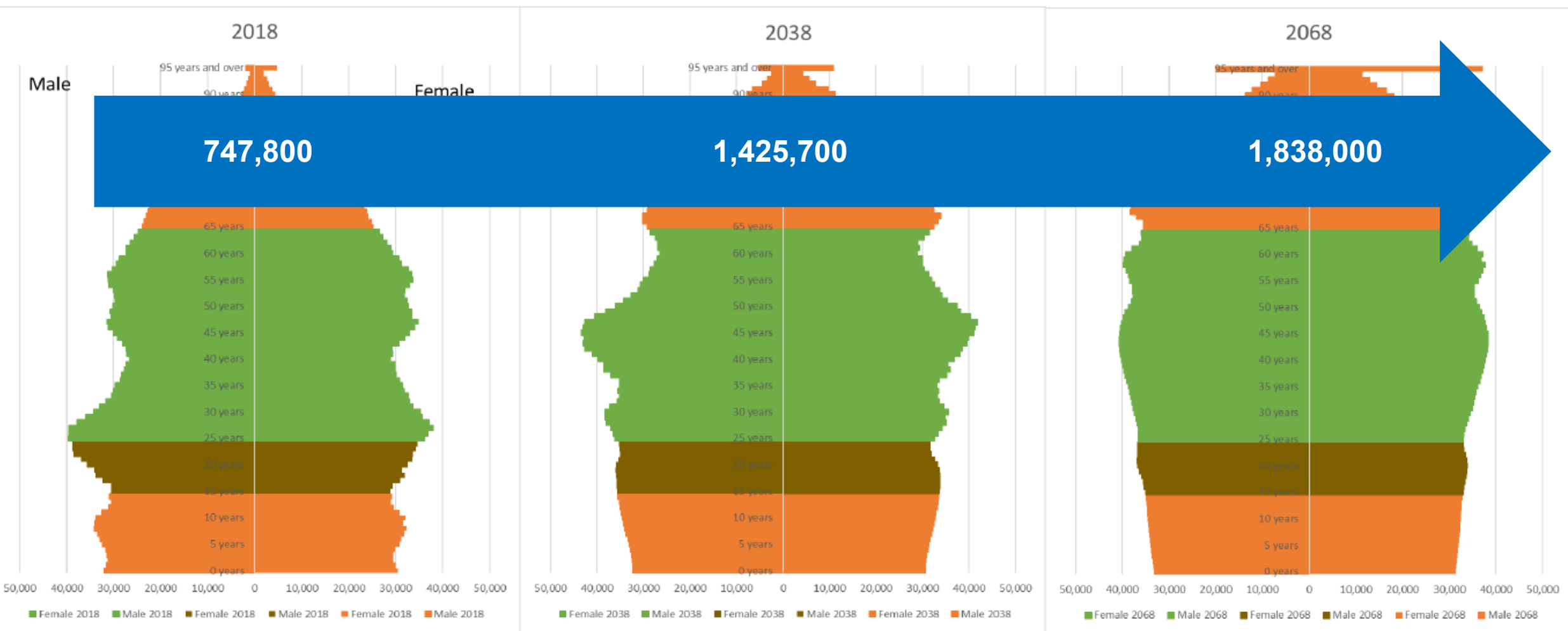


WE'RE LIVING LONGER

Life expectancy at birth, total population, by sex, 1950-52 to 2012-14

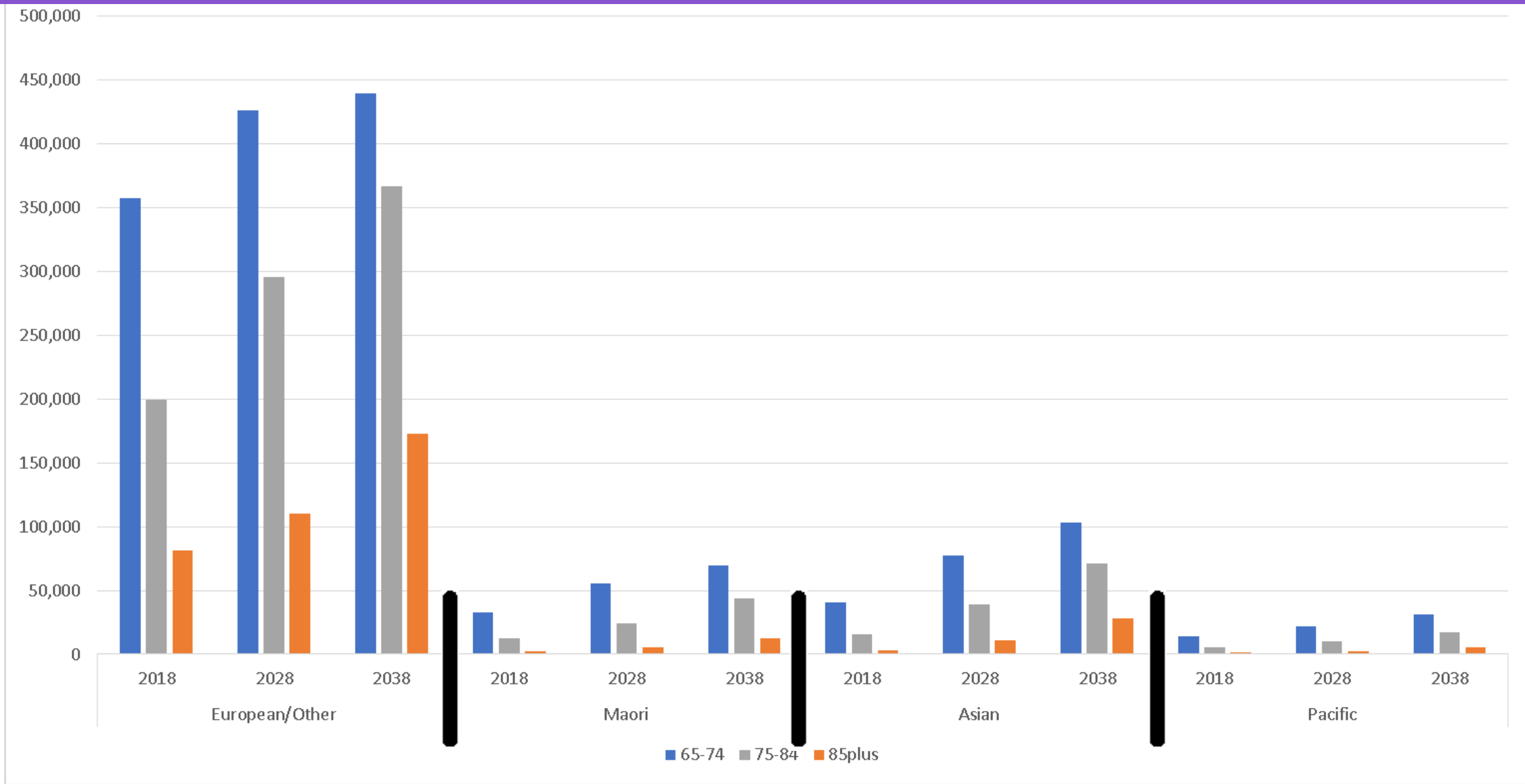


POPULATION GROWTH PROJECTION (MEDIUM SERIES)

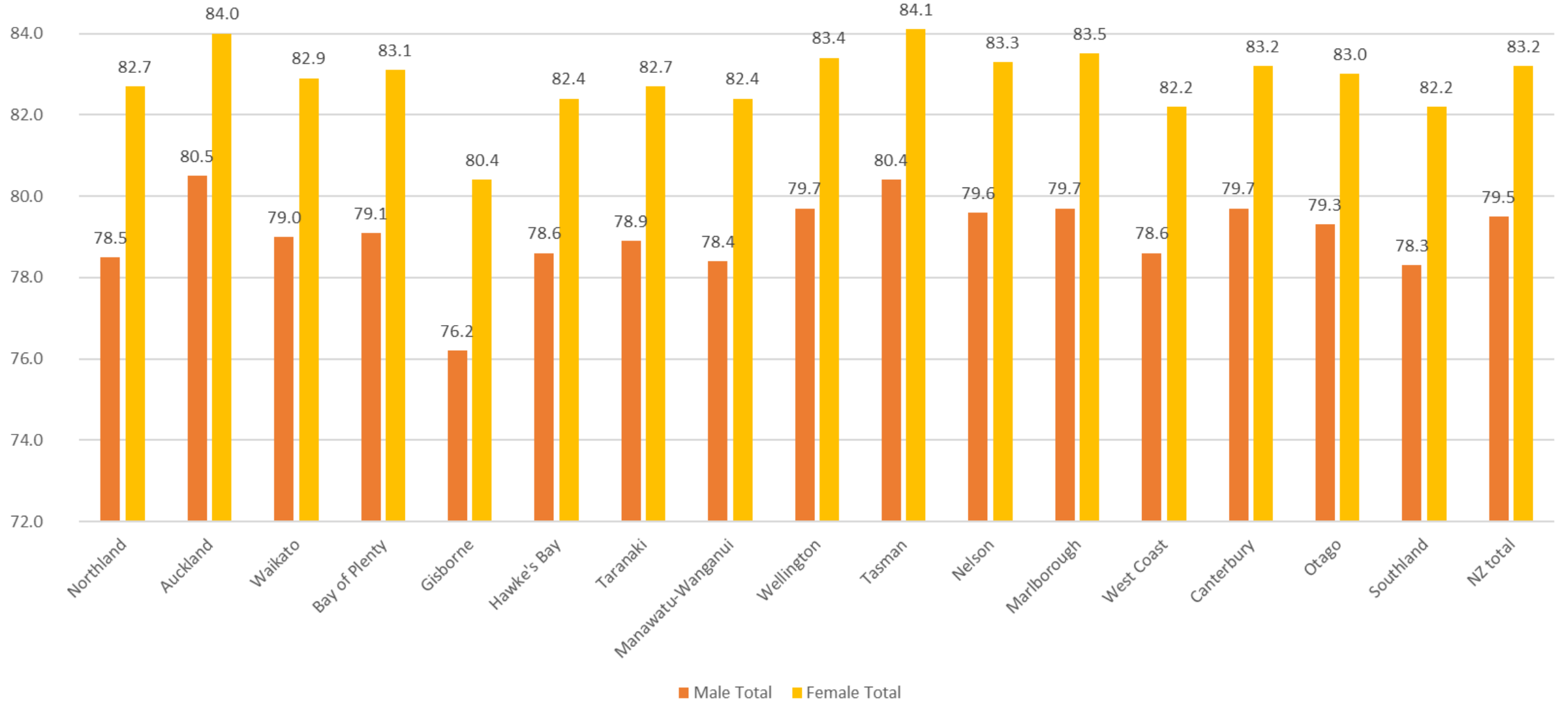


Under 15
 15-24
 25-64
 65 and over

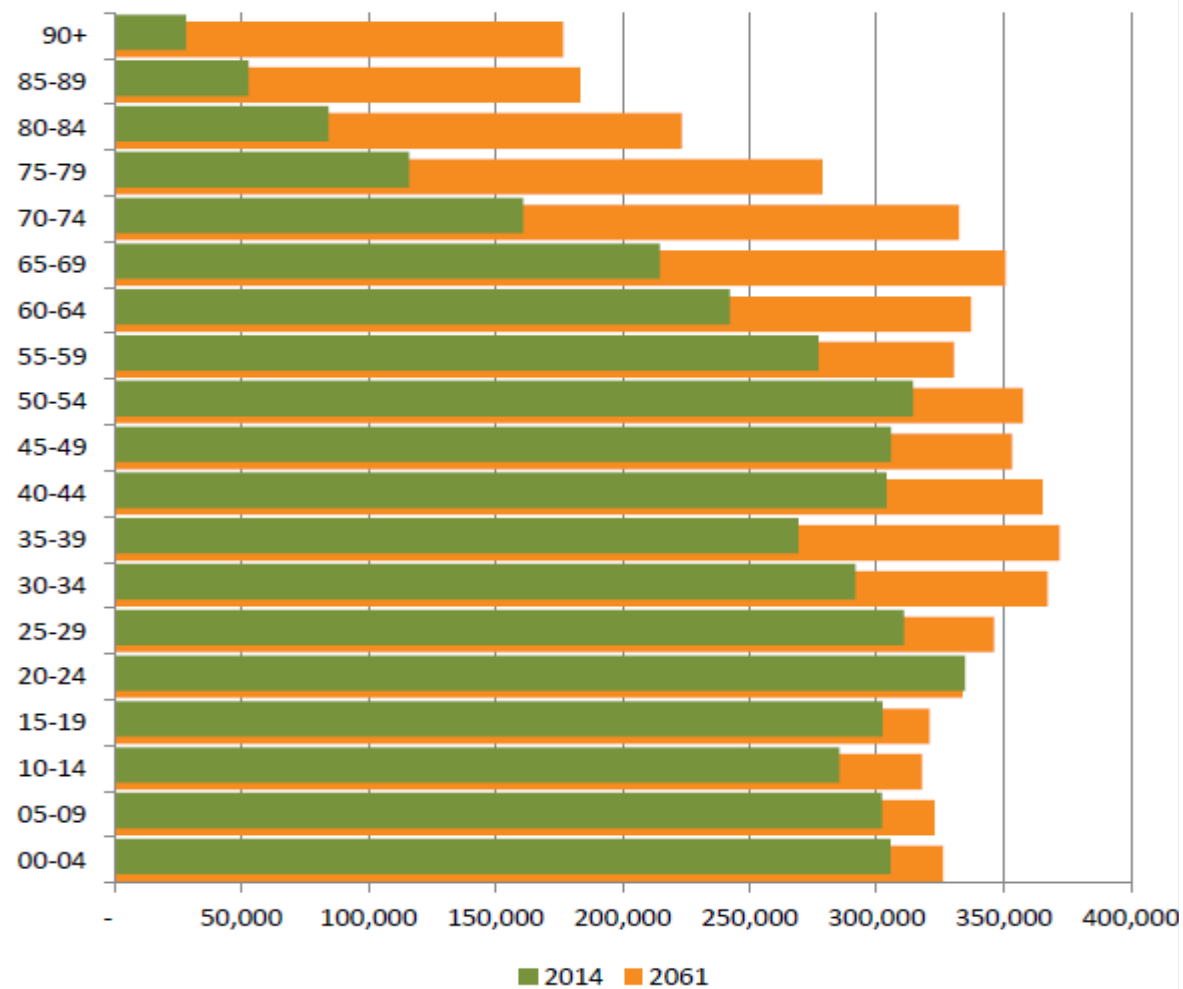
GROWTH ACROSS ETHNICITIES



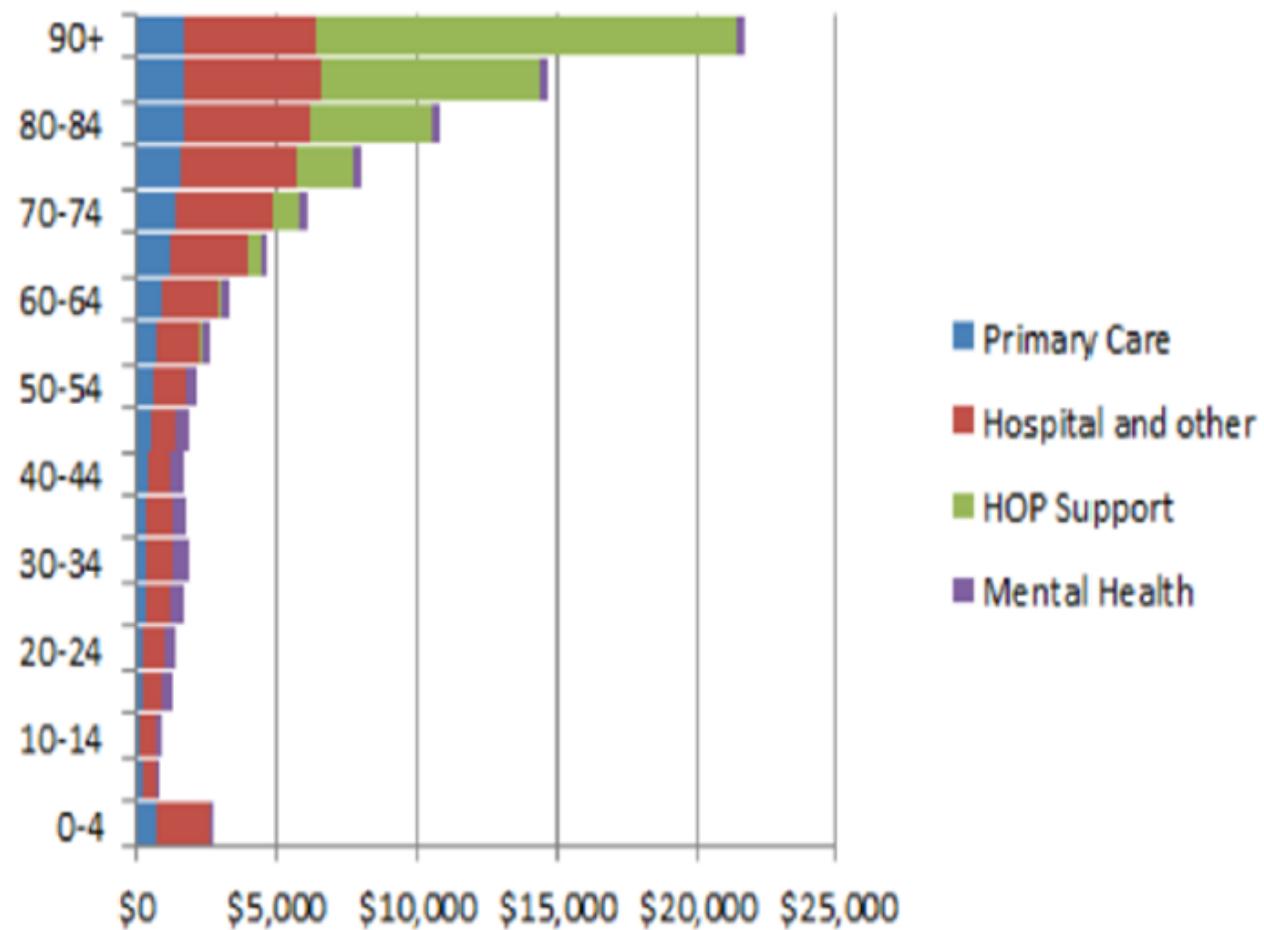
MEDIAN LIFE EXPECTANCY AT BIRTH (2012-2014)



MINISTRY OF HEALTH VIEW



DHB Expenditure per person 2014/15 \$



PROBLEM STATEMENT

“88% of health loss in this country is now caused by long-term mental and physical conditions (non-communicable diseases), while 8% is attributable to injuries and 4% to infectious diseases, nutritional deficiencies and neonatal disorders. It tells us, among other things, that improving the health of future cohorts of older people with multiple long-term conditions will be a key challenge; that mental illness and dementia are growing challenges; and that better prevention of long-term conditions can bring major benefits.”

Ministry of Health (2016) Health Loss in New Zealand 1990-2013: A report from the New Zealand Burden of Diseases, Injuries and Risk Factors Study. Wellington: Ministry of Health. p.iii

OTHER GOVERNMENT AGENCIES SEE THE CHALLENGE

Treasury predicts health costs will increase 56% relative to GDP in the 2015-2060 period

<https://treasury.govt.nz/sites/default/files/2016-11/ltfs-16-htm.pdf>

ACC have invested more than \$30m in a program over 3-years to support older people at risk of falling

ACC receive around 150,000 claims per year due to fall-related injuries, costing \$163m from people in the over-65 age group

With the population of over-65s growing, the cost of claims could be as huge as \$418m by 2025

<https://www.stuff.co.nz/national/health/8204497/acc-invests-30m-to-reduce-falls-and-fractures-for-older-new-zealanders>

MODEL OF CARE

- ... In-hospital requirements increasing pressure on finite resources
- ... In-home clinical assessment used to model support need(s)
- ... DHB funds local providers to deliver support from task list
- ... Separation of support functions can lead to multiple interactions with the older person

Multi or trans-disciplinary support operating into community

SECTOR TODAY

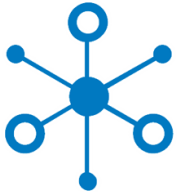
- ... Approximately 38,000 residential aged care beds across 660 locations
- ... 80,000 people working in support services delivering around 11m hours of support to the sector
- ... 70 providers but 50% of support hours delivered by 2 providers
- ... 35 PHOs and over 1,000 General Practices

Will the support sector be able to keep pace with need from aging population

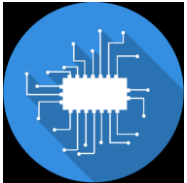
TECHNOLOGY MUST BE PART OF THE SOLUTION



... The cloud - allows low cost scalable solution deployment



... IoT Sensors and Wearables offer low cost solutions to be deployed to constantly gather data

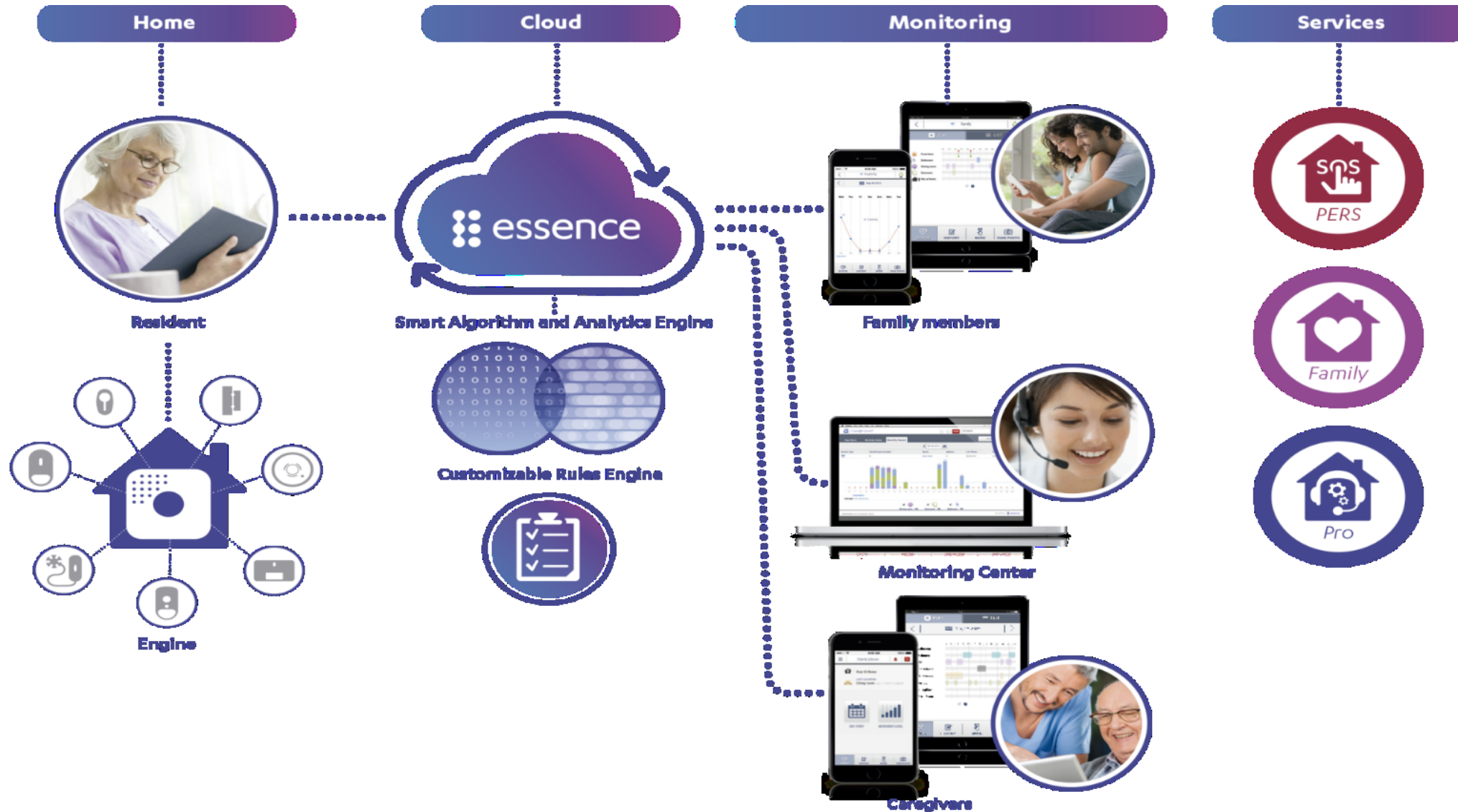


... Artificial Intelligence - allows the data to create personal profiles and proactively detect deterioration in health



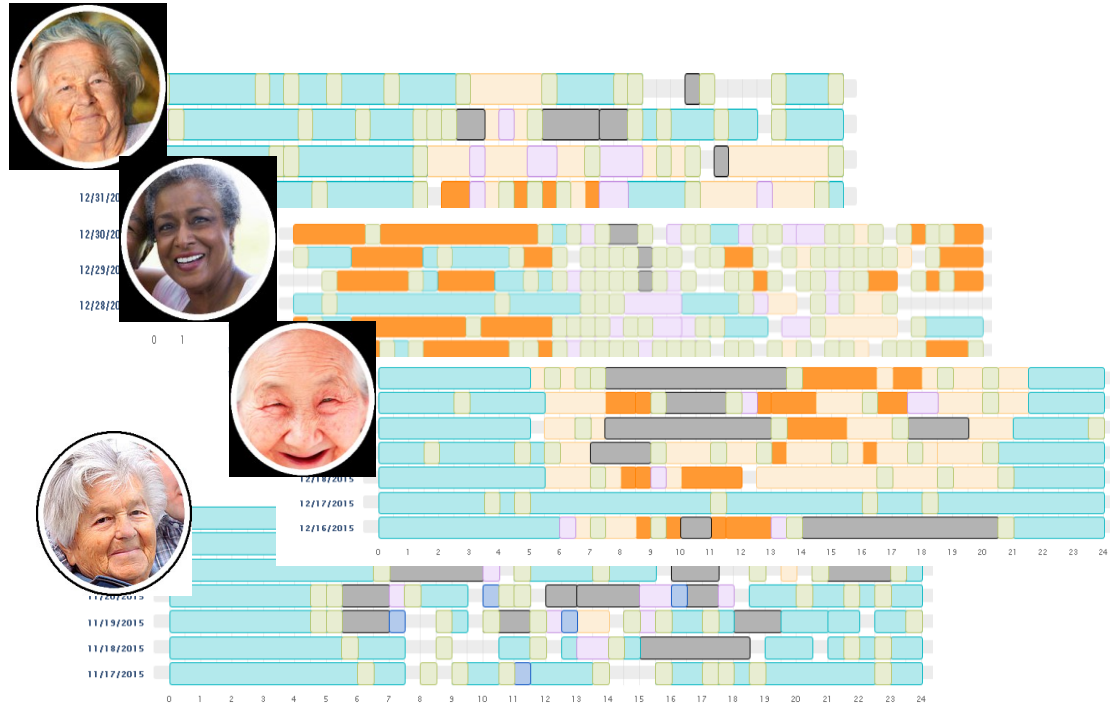
... Voice Recognition - providing multiple ways of alerting

PLATFORM OF INTEGRATED SUPPORT



USING AI TO MONITOR CONTINUOUSLY MONITOR

Behavior Analytics



Smart & Early Indicators

+

Fast Intervention

=

Avoid Hospitalisation

Medical insights

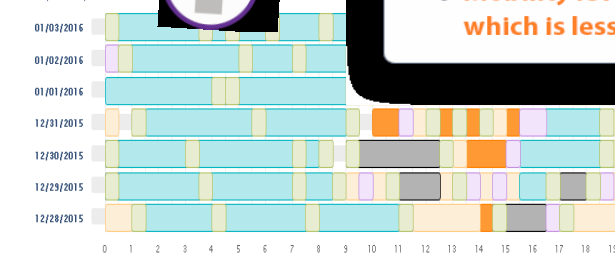
Severe Flu detected

Event Type
Resident's unusual activity level was detected

Detected: 02/03/2016 - 19:00

- 19:00:00 - 11:00:00**
 - Slept for 13.18 hours, (0.0% that it can happen)
- 00:00:00 - 05:00:00**
 - Went to restroom 4 times at night, which is more than usual
- 19:00:00 - 05:00:00**
 - Mobility level (of 32%), which is less than usual

Weekly Activity



HOW CAN THIS HELP – LOOK AT HIP FRACTURES

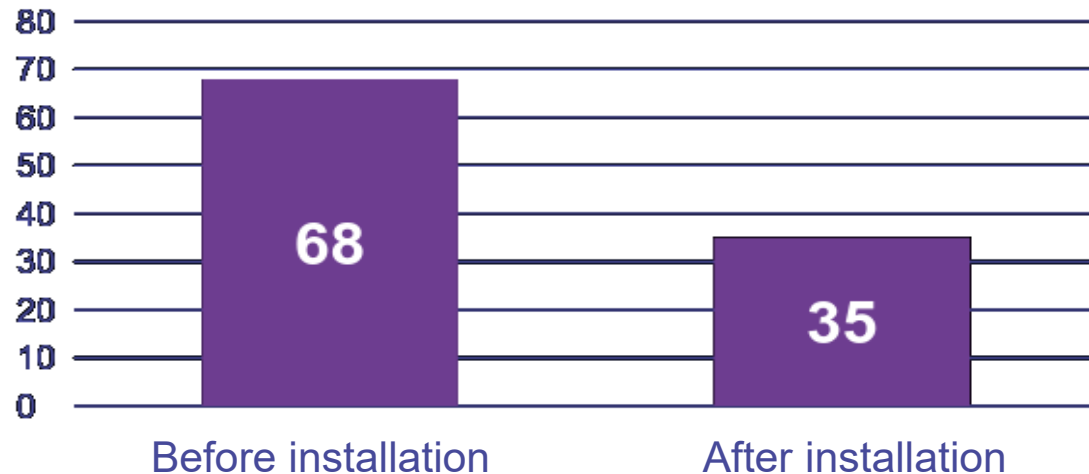
- ... Approximately 3,500 people in New Zealanders aged 50+ suffer a hip fracture each year currently
- ... Average hospital stay as a result of hip fracture is around 25-days
- ... Only half the older people who survive a hip fracture recover to their pre-fracture level of mobility
- ... Between 10 & 20% who suffer a hip fracture will be admitted to a residential aged care facility as a result of the fracture
- ... Up to 60% of older people will require help with daily activities for up to 2 years after the event
- ... Approximately 27% of older people will die within a year of suffering a hip fracture

CASE STUDY – FACILITY CARE RESEARCH

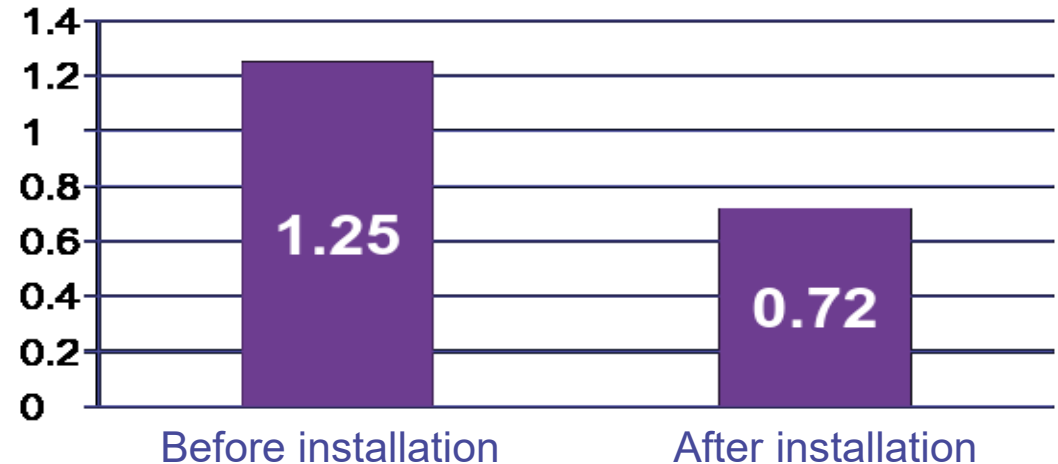
- Study conducted with 2 comparable groups
- Each group contained 54 seniors
- Research compared the falls during a 46-week period, with and without the Securely monitoring system



Total Falls
51% decrease in total falls



Average falls per week
0.53 improvement



WHAT WE UNDERSTAND THE REALITY IS



1/3


1 of 3 seniors
falls each year



20%

press the panic button
after falling



60%

spend 12 hours on avg.
on the floor



50%

of the falls are not
reported to doctors



88%

of reported falls require
hospitalisation



WHAT DOES THIS MEAN FOR BUSINESSES

- ... Plentiful business opportunities around services into the home
- ... Significant growth in support services
- ... Growing work force with experience
- ... Volunteering



OUR AMBITION

To enable New Zealanders to live
with confidence and independence