

TOKOROA **warm** homes **clean** air

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South Waikato
PACIFIC ISLANDS HEALTH
Committee Inc



Warm Homes, Clean Air Tokoroa

- A project to address air quality and home heating issues in Tokoroa
- An example of a collaborative initiative



National Environmental Standards for air quality

- Limited number of exceedences allowed by 2013
- Effects on consents

Fine particulates (PM10)

- Death and illness
- Loss of work/school
- No safe level

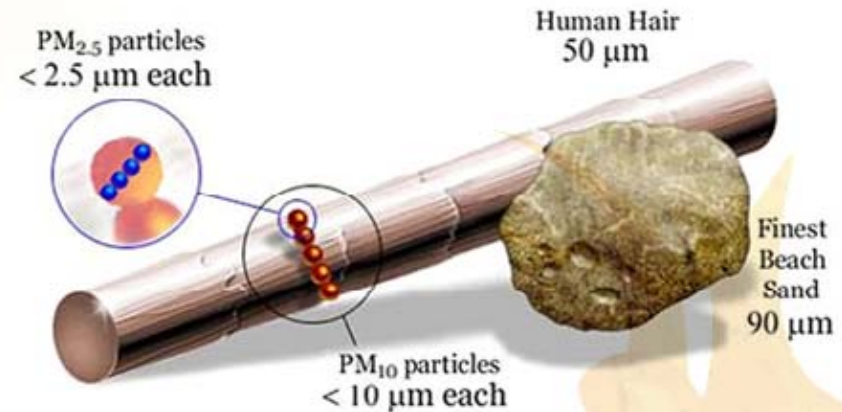
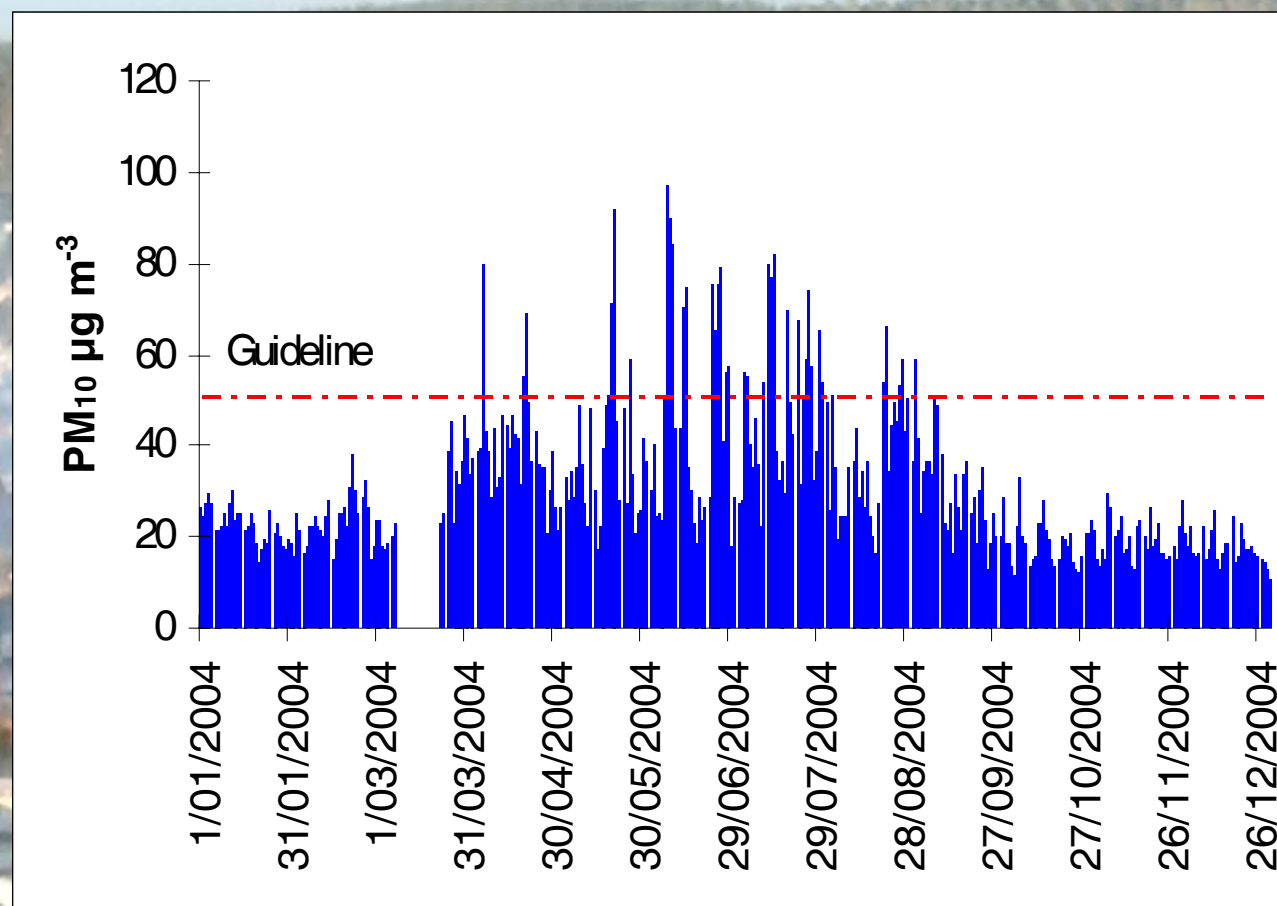


Table 2: Ambient air quality standards from 1 September 2005

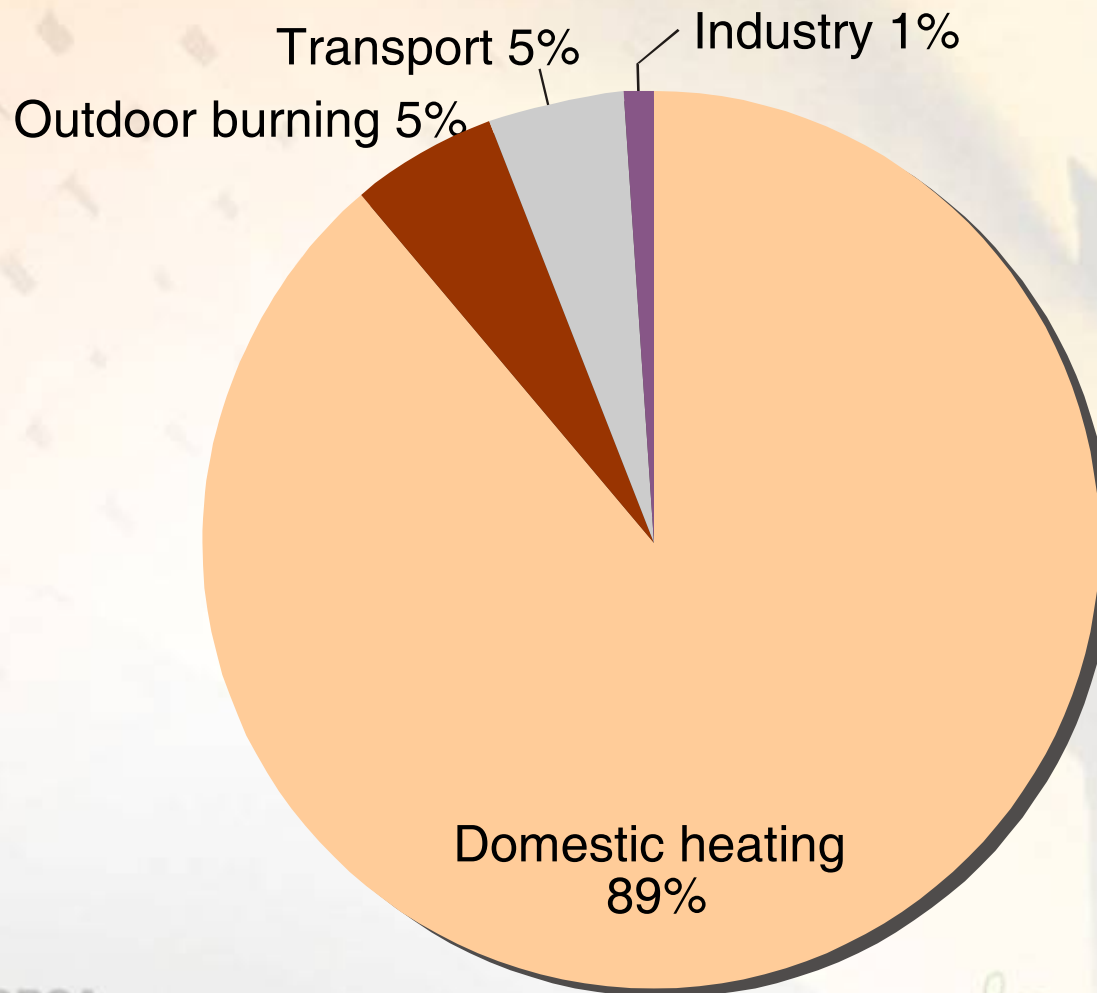
Pollutant	Standard	Time average	Allowable exceedences per year
Carbon monoxide (CO)	10 mg/m ³	8-hours (running mean)	1
Nitrogen dioxide (NO ₂)	200 µg/m ³	1-hour	9
Ozone (O ₃)	150 µg/m ³	1-hour	0
Fine particles (PM ₁₀)	50 µg/m ³	24-hours	1
Sulphur dioxide (SO ₂)	350 µg/m ³ 570 µg/m ³	1-hour 1-hour	9 0

Air Quality



Tokoroa – 21 June 2006

Sources: Tokoroa



Scale of change

70% households
920 replacements



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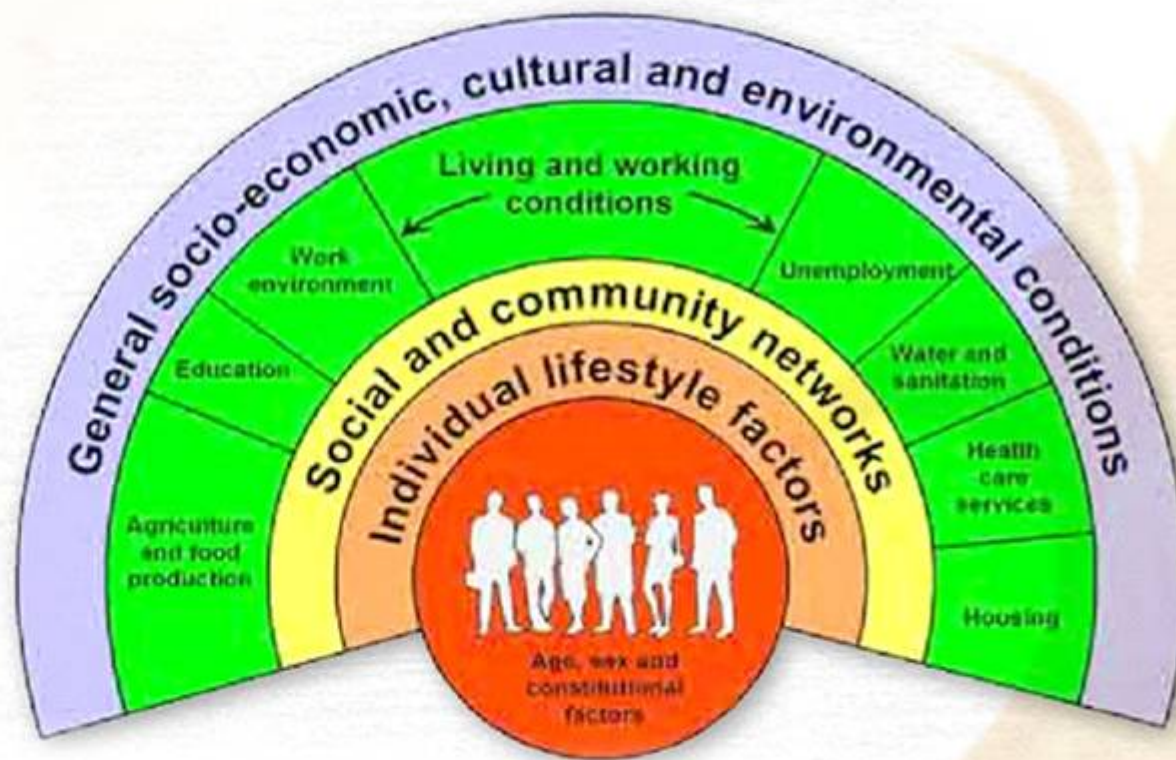
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Council



Determinants of wellbeing and drivers of behaviour

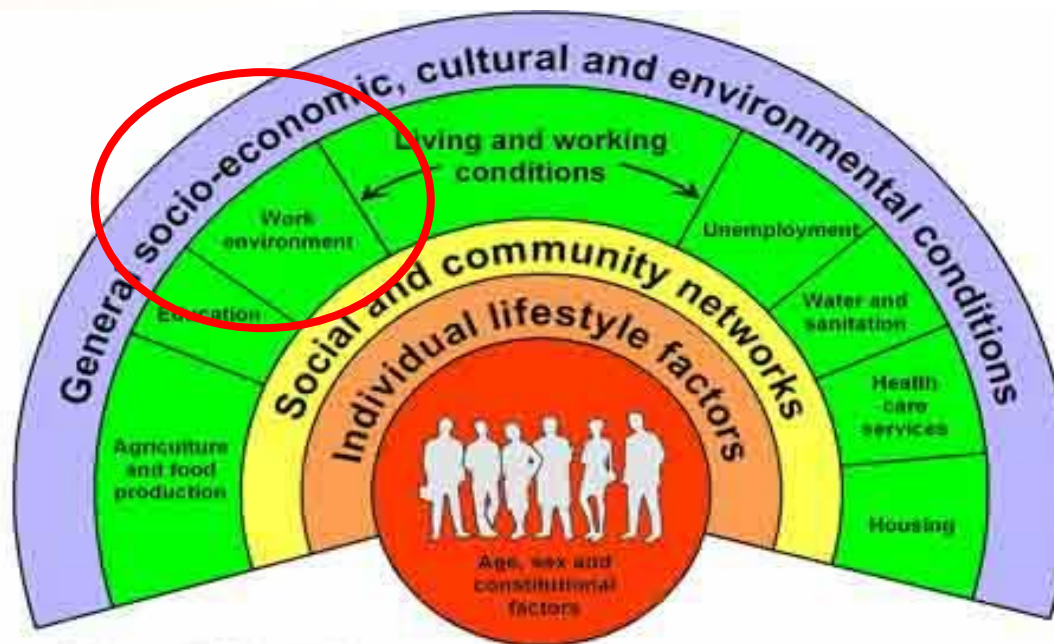


Tokoroa

Influences on community wellbeing

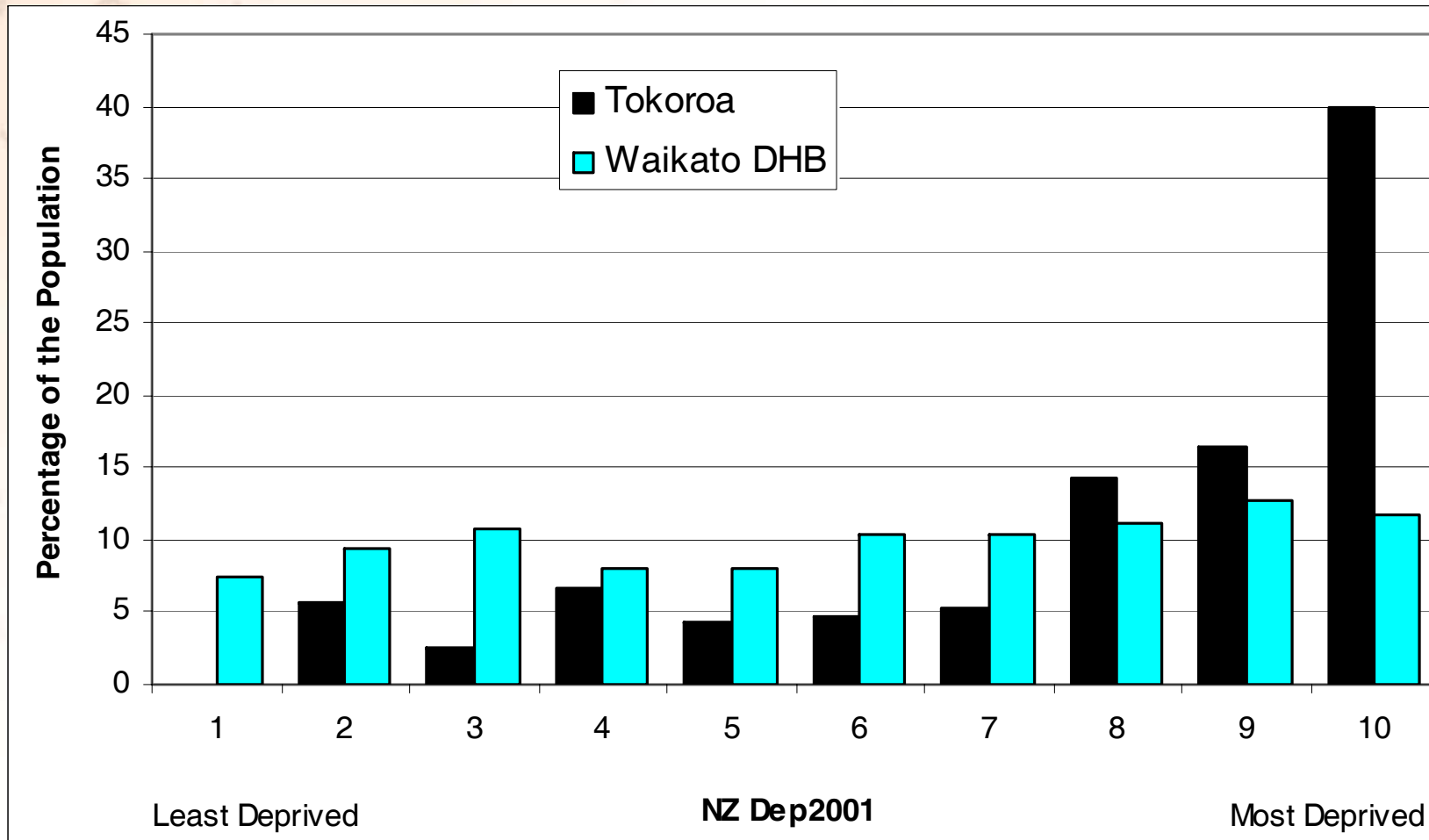
Socio-economic:

- high deprivation
- financial influences



Source: Dahlgren and Whitehead, 1991

Deprivation



Waikato
District Board

Waikato DHB
Health Committee Inc

TOKOROOA
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Environment
Waikato
REGIONAL COUNCIL

South
Waikato
District
Council

Waikato District Health Board

Influences on finances

- Not able to comply
- Want to comply, but:
 - unflued gas
 - portable electric
 - no home heating (1.2% households in 2001)



Tokoroa

Influences on community wellbeing

Cultural:

- strong networks (community, cultural, agencies)
- Maori and Pacific



Source: Dahlgren and Whitehead, 1991.

TOKOROA

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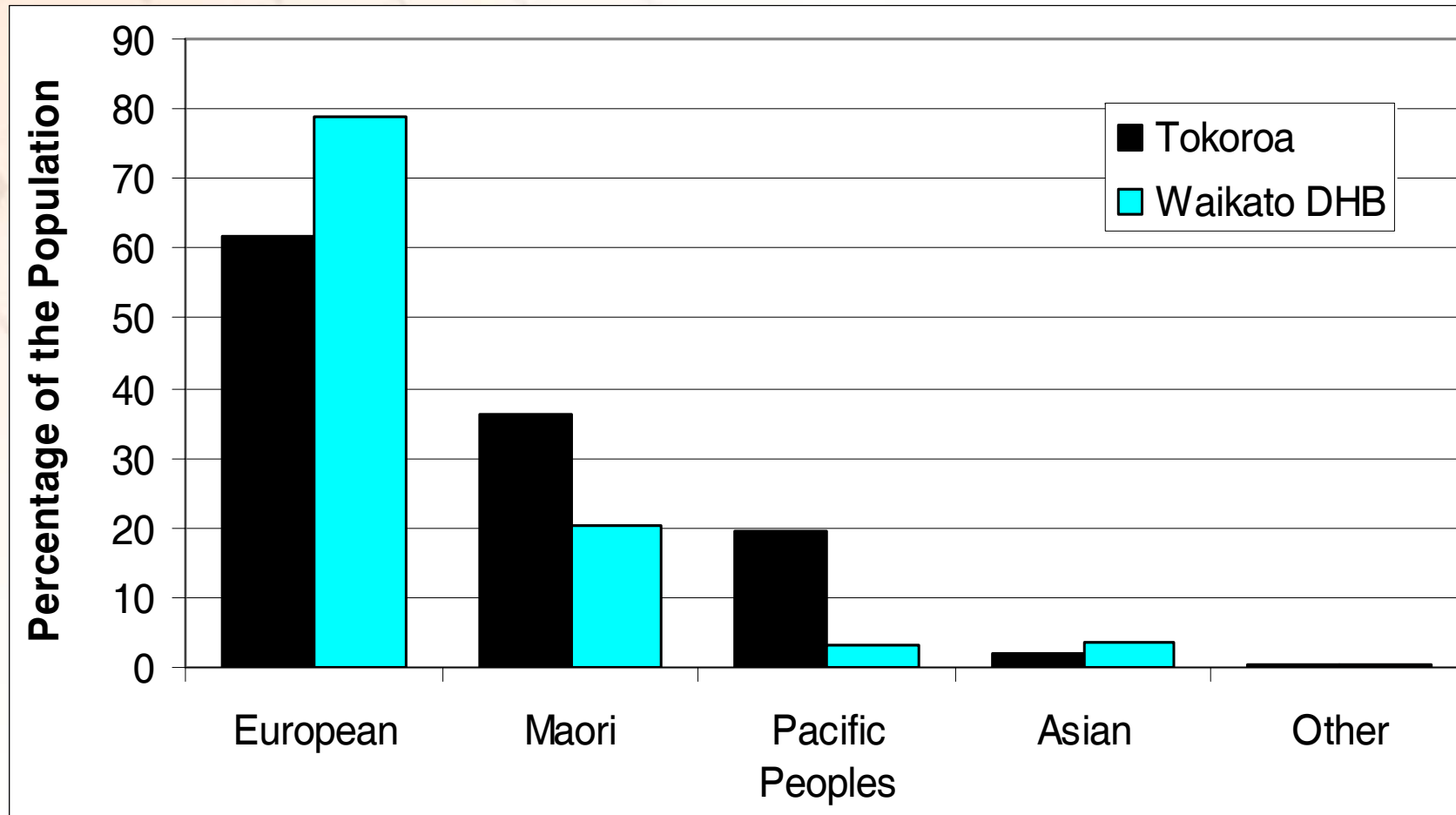
WAIKATO
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South
Waikato
District
Council

Waikato District Health Board

Raukawa
Trust Board
South Waikato
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Committee Inc

Ethnicity



Waikato
Board

HEALTH
Committee Inc

Tokoroa

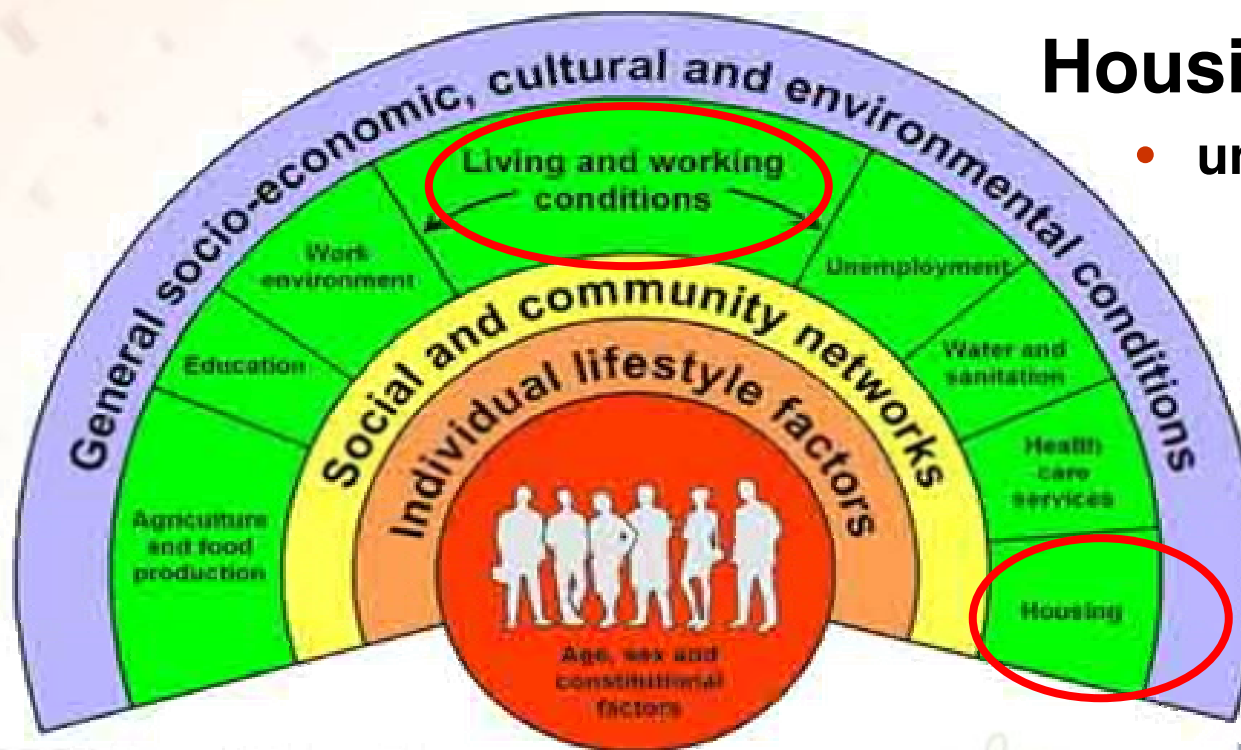
Influences on community wellbeing

Knowledge and practices:

- wood burning fires
- cheap firewood

Housing:

- uninsulated



Source: Dahlgren and Whitehead, 1991

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warm homes clean air



b Our natural environment is protected and respected. Its ecological balance is restored, its air, soil and water quality is improved, and its native biodiversity is enhanced.

d The traditional role of Iwi and Hapu as Kaitiaki is acknowledged, respected and enabled.

a Our region has economic growth and development that is well-planned and balanced with environmental, cultural and social needs and values.

a All our people and communities can participate in decision-making. We are educated, informed and have the resources we need to take responsibility for our own futures.

***How can these
air and heating
issues be
addressed?***

Our roles – project team

Raukawa Trust Board
Social, cultural, economic
& environmental affairs
of whanau, marae and
hapu

Councils

- Air quality
- Energy
- Sustainability
- Community wellbeing

District Health Board

- Population wellbeing
- Prevention of ill health
- Reduce inequalities
- Primary health

Pacific Islands Health Committee

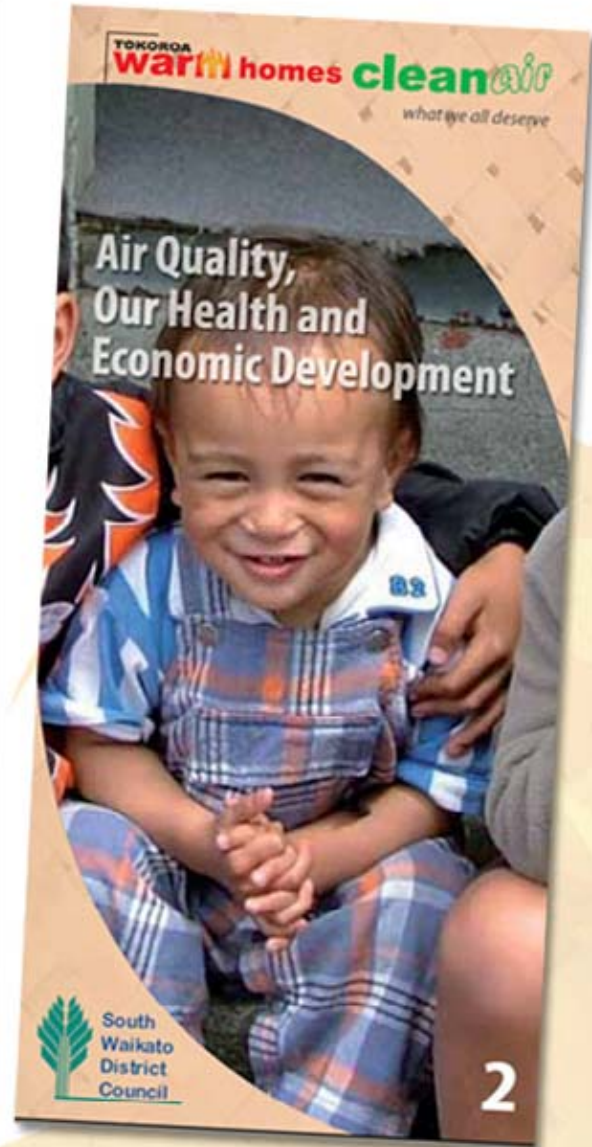
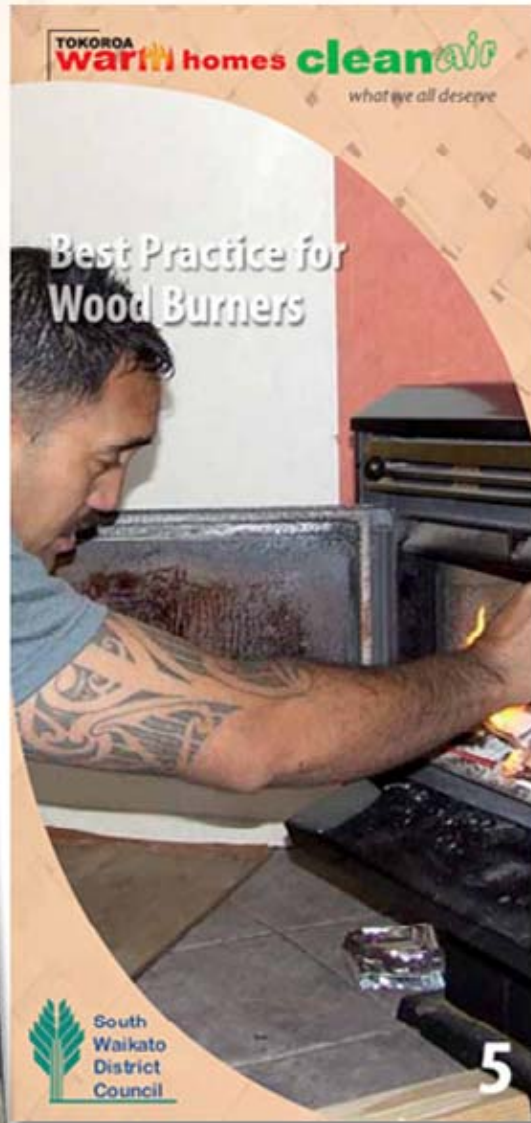
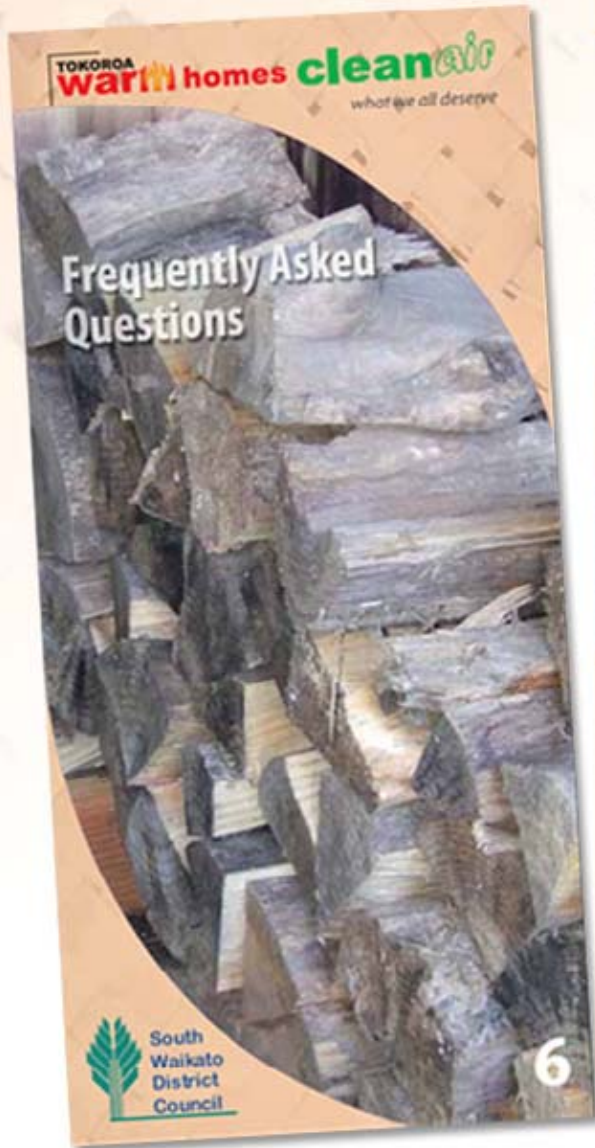
- Health and well
being of pacific
people



Project Team



Information



Home Heating Expo



Checking we are on the right track

- Raukawa meetings
- Pacific Island Fono
- Health Promotion & social services staff
- Landlords, tenants, low income



Next steps

- Coordination and momentum
- Support from others
- Insulation & capacity building
- Package likely to include: incentives, rules, information





Tokoroa – 21 June 2006