

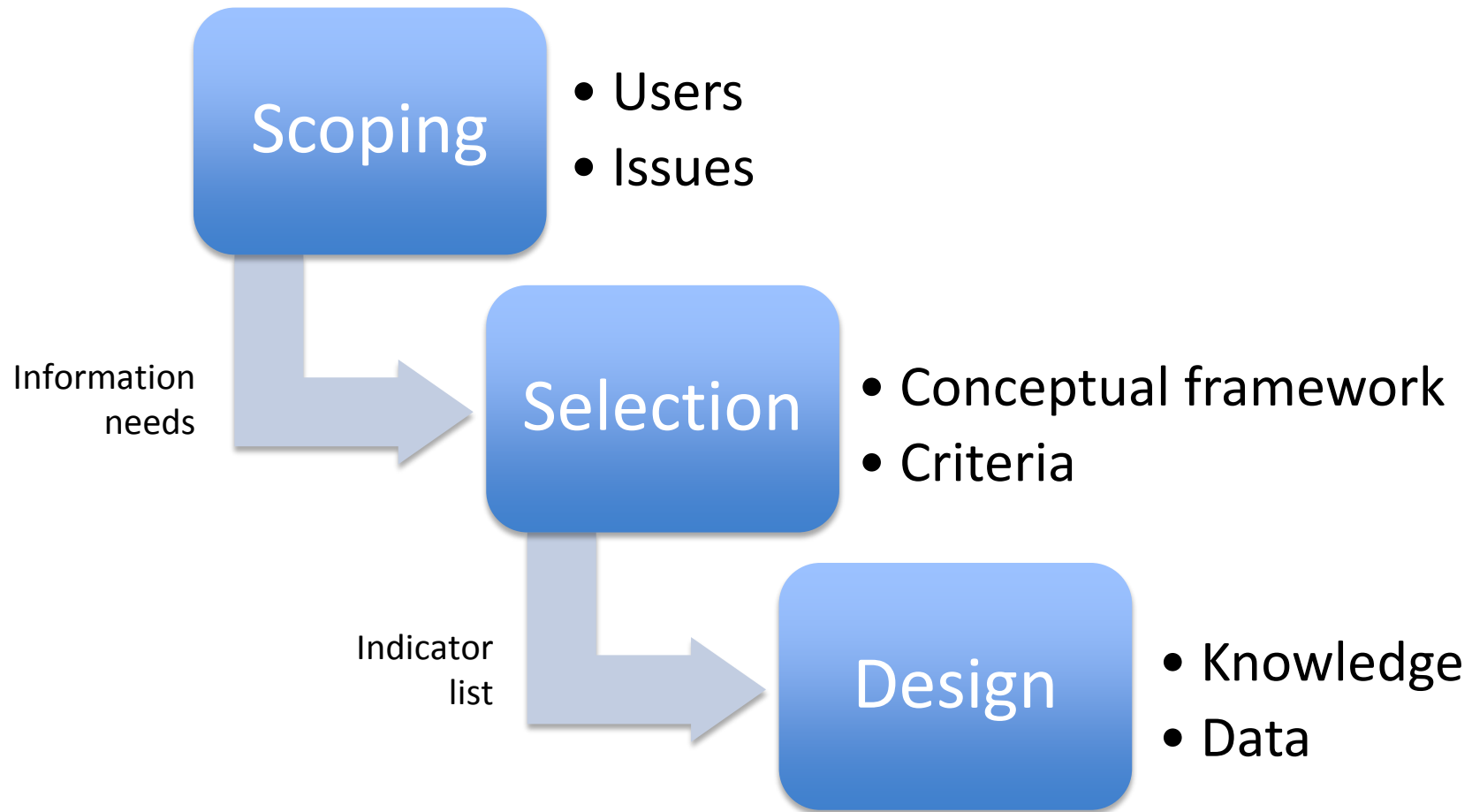
DEVELOPING CLIMATE CHANGE AND HEALTH INDICATORS

Presented by Kirstin Lindberg

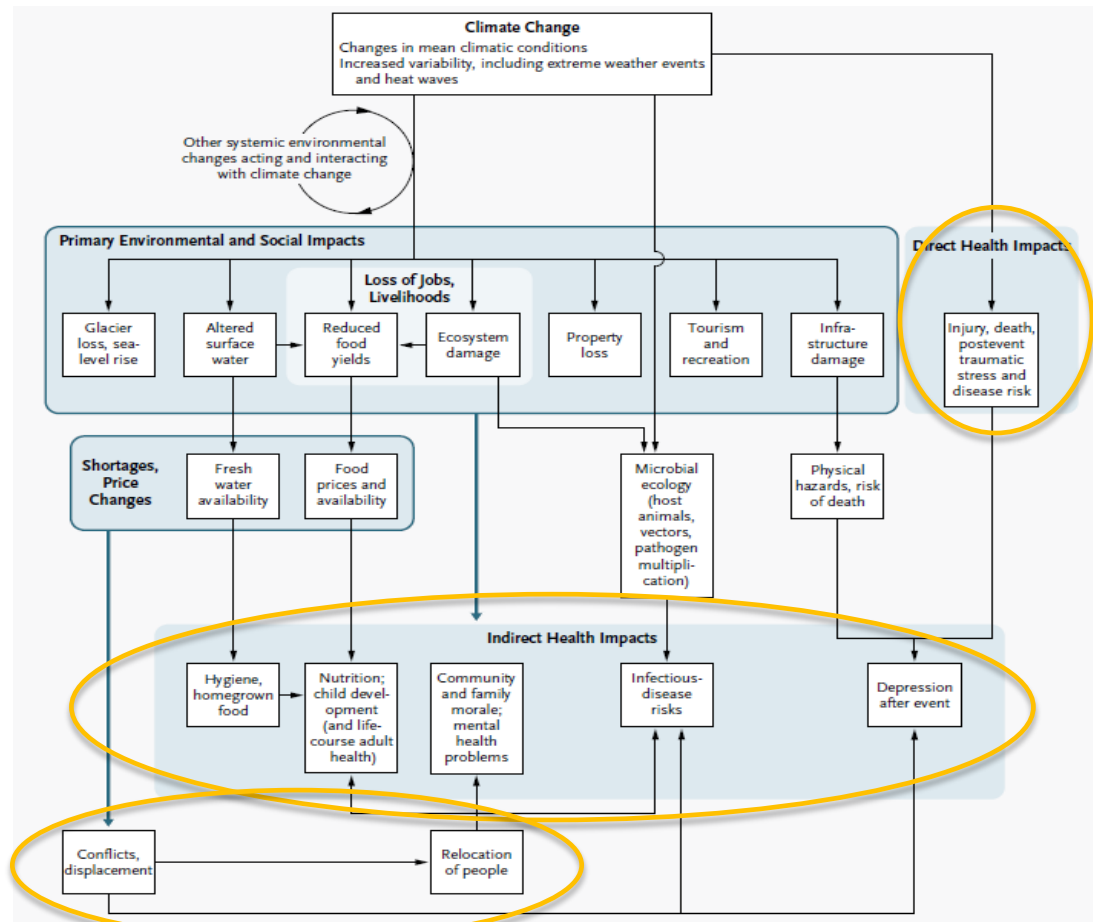
Credit for the work – Dr Maria Poynter, with
assistance from David Briggs, Kylie Mason,
Andrew Parnell and Deborah Read



WHAT WE DID – OVERVIEW



SELECTION - CONCEPTUAL FRAMEWORK



- Direct effects
e.g. Injury from extreme weather events
- Indirect effects
e.g. Changing disease patterns
- Diffuse effects
e.g. Displacement

SELECTION – INDICATORS

Indicator group	Indicator	Definition	Data source	Indicator selection criteria								
				Data availability	Scientific validity	Sensitivity	Consistency	Comparability Methodologically sound measurement	Intelligible and easily interpreted	Ability to be disaggregated	Timeliness	
Vulnerable populations (as modifier)	Ethnicity	Proportion of the population self-defining as Māori	Census	y	y	n/a	y	y	y	y	y	~
	Extremes of age	Proportion of the population <5years, ≥65years, or ≥80 years	Census	y	y	n/a	y	y	y	y	y	~
	Socioeconomic deprivation	NZDep2013 score	Otago University	y	y	n/a	y	y	y	y	y	~
	Contents insurance	Proportion of households with a residential contents insurance policy	IAG contents insurance	y?	n	n	n	n	n	~	y	?
Temperature related	Number of degree heating days	Number of days in which energy is required to heat a building, based on daily mean outdoor temperature and a specified base (indoor) temperature	CliFlo (NIWA)	y	~	~	~/n	~	y	~	y- to regions	y
	Minimum temperature <0°C	Number of days with a minimum air temperature less than 0°C	CliFlo (NIWA)	y	y	y	~	y	y	y	y- to regions	y

RESULTS – INDICATOR LIST

- Number of days with minimum air temperature $< 0^{\circ}\text{C}$
- Number of days with maximum air temperature $> 25^{\circ}\text{C}$
- Number of days of soil moisture deficit
- Number of notifications of cryptosporidiosis
- Number of notifications of giardiasis
- Number of notifications of salmonellosis
- Proportion self-defining as Māori
- Proportion < 5 years, ≥ 65 years, or ≥ 80 year
- NZDep2013 socioeconomic deprivation



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Environmental Health
Indicators New Zealand