Taking a systems view of food security

Professor Louise Signal & Colleagues, 8 July 2021











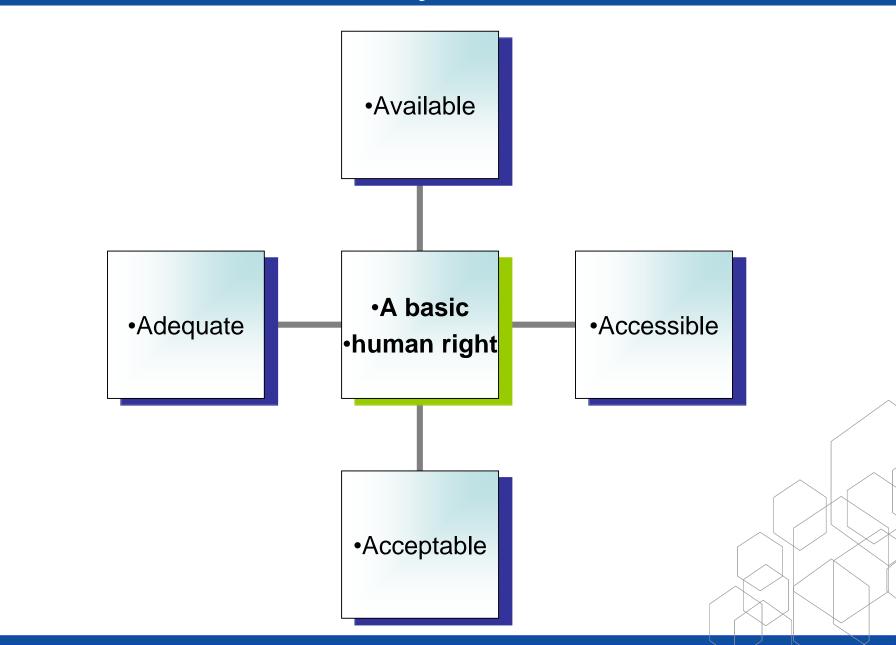


ENHANCE Research Aim

To explore the environmental influences on, and interventions to enhance, food security and physical activity for Māori, Pacific and low-income households

Funded by New Zealand Ministry of Health and Health Research Council

Food security defined



Methods

- Literature review to identify environmental influences
- 9 focus groups 3 Māori, 3 Pacific & 3 low-income people
 - in absence of robust local data
- Intervention points
- Identified interventions in 3 workshops with 56 key stakeholders from Māori, Pacific & Iow-income communities; policy-makers; non-governmental organisations; & academics
- Evaluation of potential interventions (literature reviews & key informants)
- Portfolio of policies, programmes & actions
 i.e. A Comprehensive Systems Approach

Task:

List all the causes of food insecurity

Results: literature review - influences

Economic: income, employment, expenses & debt, welfare system, housing

Physical: health, household facilities, transport, gardens, rural/urban location

Social & cultural: skills & time, family, cultural expectations, community, pride/ stigma, immigration, food advertising

Political: taxation, welfare, policy

Results: focus groups

"It's all just too hard"

- Desire for better access to healthy food
- Barriers: money, knowledge & skills, habit, time, availability, culture
- Supports: \(\triangle money, \) \(\triangle cost healthy food, \) \(\triangle skills & knowledge, gardens \)
- Solutions needed at multiple levels

Where to intervene?

- Triangulation of literature review & focus group research
- Take a systems approach
- Identify key places (control parameters) for intervention in order to create system-wide change.

Health Promotion International, Vol. 28 No. 1 doi:10.1093/heapro/das006 Advance Access published 14 March, 2012

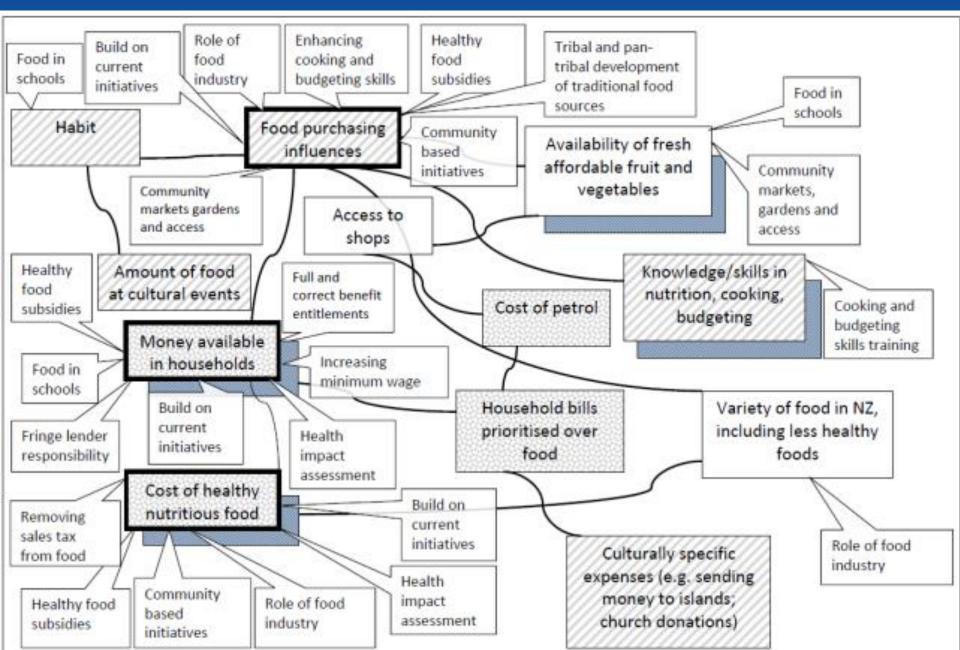
Tackling 'wicked' health promotion problems: a New Zealand case study

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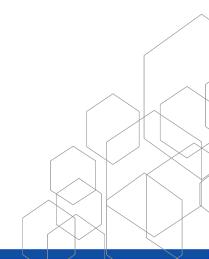


Food Security System



Three areas identified

- Money available in households
- Cost of healthy, nutritious foods
- Food purchasing influences



Policy paper methods & topics

Methods – literature review & key informant interviews Topics

- Money available in households
 - Fringe lender responsibility
 - Economic instruments
 - Full benefit entitlements
 - Provision of food in schools
- Food purchasing influences
 - Iwi development
 - Cooking skills
 - Community markets, gardens, transport and access
- Cost of healthy nutritious food
 - Community-based initiatives
 - Role of the food industry

Fringe lender responsibility

- Increase in fringe lenders, e.g. mobile trucks in low-income areas & pay-day lenders, who lend to low-income customers at very high interest rates
- People are borrowing for everyday needs
- Can result in accumulated debt, a culture of debt dependency & increased stress

Recommendations

- Regulation of fringe lenders
- Access to affordable credit
- Financial literacy for users of fringe lenders

Health Promotion Journal of Australia



Punching loan sharks on the nose: effective interventions to reduce financial hardship in New Zealand

Louise Signal, Tolotea Lanumata, Sharron Bowers

2012: 23; 108-111

https://doi.org/10.1071/HE12108



Iwi development and food security

- Māori experience higher rates of food insecurity than non Māori, influenced by higher unemployment rates, low educational obtainment and low-incomes
- Workshop participants suggested 'increasing lwi and other pan-tribal economic development in traditional Māori food sources as possible intervention.
- Economic Development can potentially impact in two ways:
 - Increase food supply e.g Mataitai reserves, community gardens
 - Creation of jobs: e.g land based polyculture, horticulture of taewa/riwai
- Area for future consideration and research as it offers some potential for culturally specific interventions.

Original Article

Enhancing Māori food security using traditional kai

Christina McKerchar¹, Sharron Bowers², Craig Heta³, Louise Signal² and Leonie Matoe⁴

Global Health Promotion 1757-9759; Vol 22(3): 15-24;

Conclusions

Urgent action to ensure food security is required:

- Just as there is no one cause to such wicked problems; likewise, there is no one solution.
- multiple interventions designed to impact across the social system from which food security emerges
- across a range of physical, economic, political and sociocultural factors
- across government, iwi, pan tribal organisations, community and the food industry
- need strong government leadership to ensure that the rights of all New Zealanders are enacted enabling them to be food secure & live long productive lives in good health.
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