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Food security is being increasingly challenged:



Pandemic • Changing Climate • Weather Events

Conflict Cost of living

↑ FOOD **VULNERABILITIES**

- Empty supermarket shelves
- Food price spikes
- Food inequities

URGENT NEED TO STRENGTHEN FOOD SYSTEM RESILIENCE

- Withstand and quickly recover from food supply chain disturbances
- Ensure food security in the face of disaster
- Adapt to socio-ecological change and learn from disaster lessons
 - Enhance regional food self-reliance



Large scale agriculture: monocultures, industrial farming **Over-reliance on long global** and national supply chains

HHF

Concentrated food retail market by supermarkets





governance



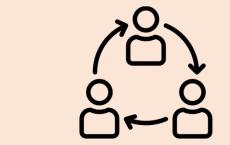
Contingency planning for food security

Food policy to Coordination across strengthen resilience; LGAs. Joined-up local food procurement

The critical role of governance in developing resilient regional food systems (RFS)









↑ Local food for consumers

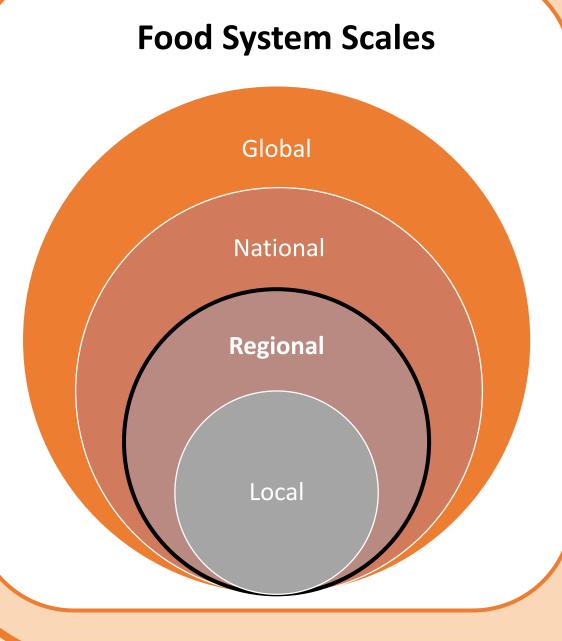
- \uparrow convenience
 - ↑ healthy food access



This research **aims** to support decision-making and planning to \uparrow capacity for regionally produced food to contribute to food security during disaster and for long-term resilience

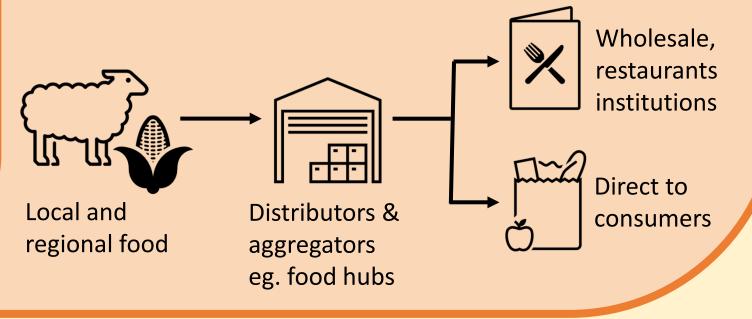
Research Question: What factors support stakeholders and decision-makers to enable resilient regional food systems in Australia? **Research plan**

1.Systematic literature review (in progress) 2.Comparative case studies (expert interviews and stakeholder workshops) 3.Synthesis framework/mechanism



Characteristics of regional scale food systems:

- Sub-national, incorporating several local food systems
- Integrating regional food networks and coordination (food policy councils)
- Intermediary marketing channels (food hubs, food coops, food-to-institution)



Method: Comparative Case Studies

Study regions: Cairns and Northern Rivers

- Regions at high disaster risk
- Recent experience of severe disaster

Theory:

- Food system resilience frameworks (1) UNDRR and (2) Vermont School of Law
- Collective Social Learning

INDRR DISASTER RESILIENCE SCORECARD FOR CITIES

OOD SYSTEM RESILIENCE ADDENDUM Consultative Version 1.0

(1)

Research significance:

Enhancing sustainable development through resilient regional food systems

"We must urgently seize the current moment to fundamentally transform food systems in ways that improve their resilience in order to fully meet the SDGs" (High Level Panel of Experts, 2020) NO Poverty 2 ZERO HUNGER ↑ Resilience ↑Access to **↑**Smallholder of those in healthy, local farmer vulnerable food livelihoods situations and **SUSTAINABLE CITIES** AND COMMUNITIES **B** DECENT WORK AND ECONOMIC GROWTH **9** INDUSTRY, INNOVATIO AND INFRASTRUCTUR ↑ Economic 个Regional productivity community through resilience diversification 12 RESPONSIBLE CONSUMPTION **17** PARTNERSHIPS FOR THE GOALS 个 Public, ↑ Disaster 个 Public AND PRODUCTIO private and resilience procurement \mathfrak{B} civil society policy policy partnerships

Question 1:

Cairns

Northern

Rivers

How have regional food supply chains *contributed to* food security during a severe natural disaster?

> **Question 2:** What mechanisms would guide regional food system governance to \uparrow resilience?

Involving:

- Expert interviews
- Stakeholder workshops
- Framework analysis

