



BC Centre for Disease Control
An agency of the Provincial Health Services Authority

Untangling the complexity of food security to develop provincial-level indicators

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Overview

1. Background
2. Rationale for FS indicator framework
3. FS indicator framework
4. Indicator development
5. Next steps
6. Connecting back to CAS



Food security indicators for BC 2009

Organizational Commitment

- Presence of food policy in health authorities

Community Capacity

- Community actions supported by the CFAI

Household Food Insecurity

- Annual cost of NNFB as proportion of income
- Nutrition-related health conditions
- B.C. pop'n eating fruit and veg 5X/day
- B.C. pop'n that has enough food they wanted to eat

Local Food Production and Access

- No indicators due to lack of data sources

Navigating complexity



Purpose of Framework

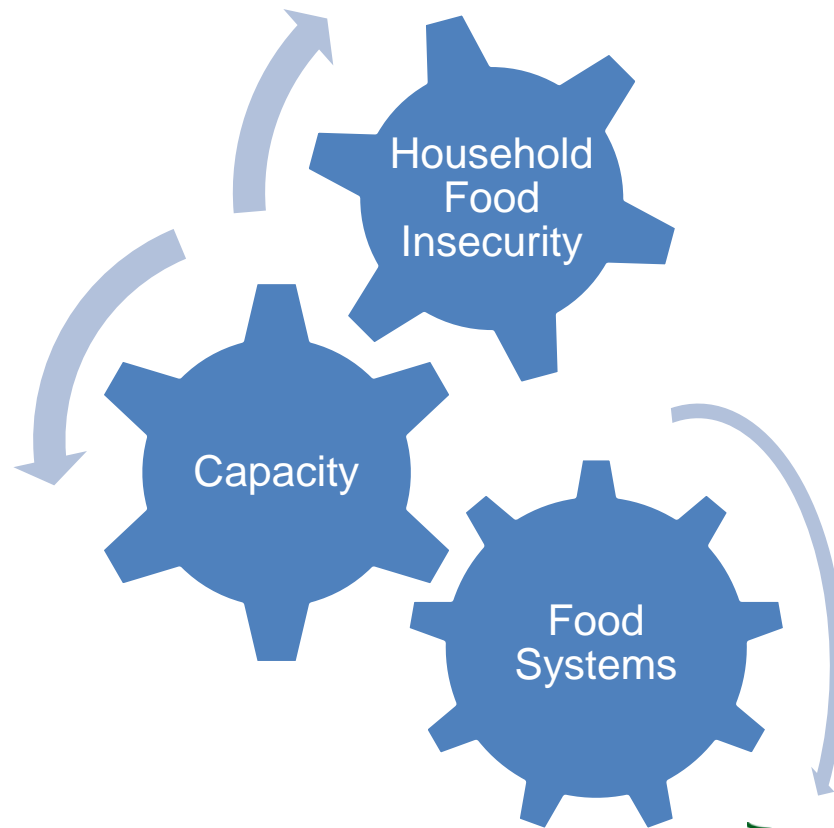
- Foundation for indicator set;
- Rationale for indicator selection;
- Illustrate causal relationships & interconnectedness;
- Identify how and where food security can be assessed and influenced.



Food Security Indicator Framework

Food Security Elements	Determinant Indicators: National/ Provincial <i>Why?</i>	Current State Indicators <i>What?</i>	Impact Indicators <i>Now what?</i>	Response Indicators <i>So what?</i>
1. Individual and household food insecurity				
2. Food systems i. Resilient (people & structure) ii. Health promoting iii. Environmentally sustainable (ecosystem health) iv. Safe				
3. Food Security Capacity i. Social cohesion & participation ii. Skills & knowledge iii. Resources				

Food security elements



Elements and sub-elements

Individual and household food insecurity

Food systems

- Resilient
- Health promoting
- Environmentally sustainable
- Safe

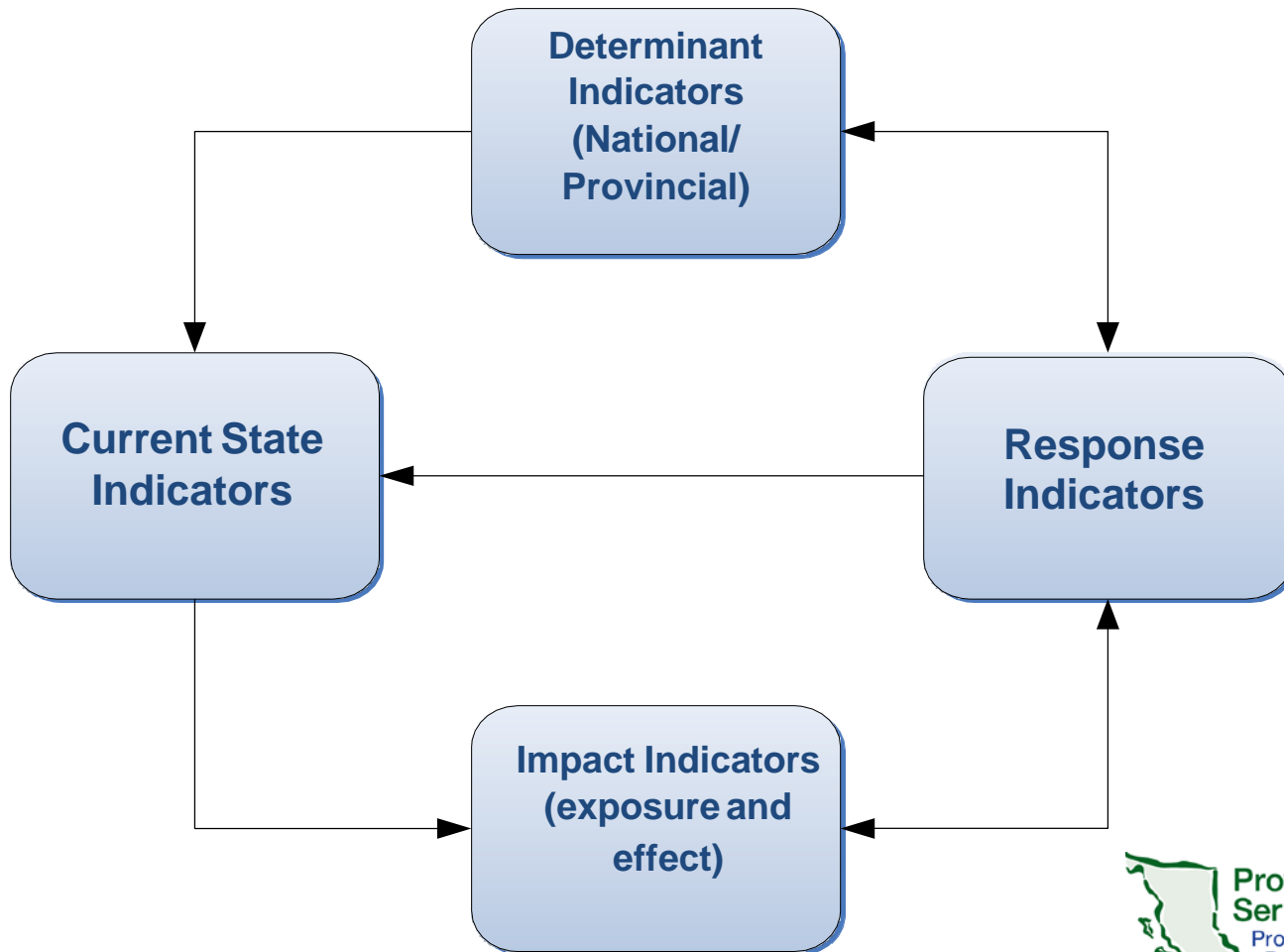
Capacity

- Social cohesion & participation
- Skills & knowledge
- Resources

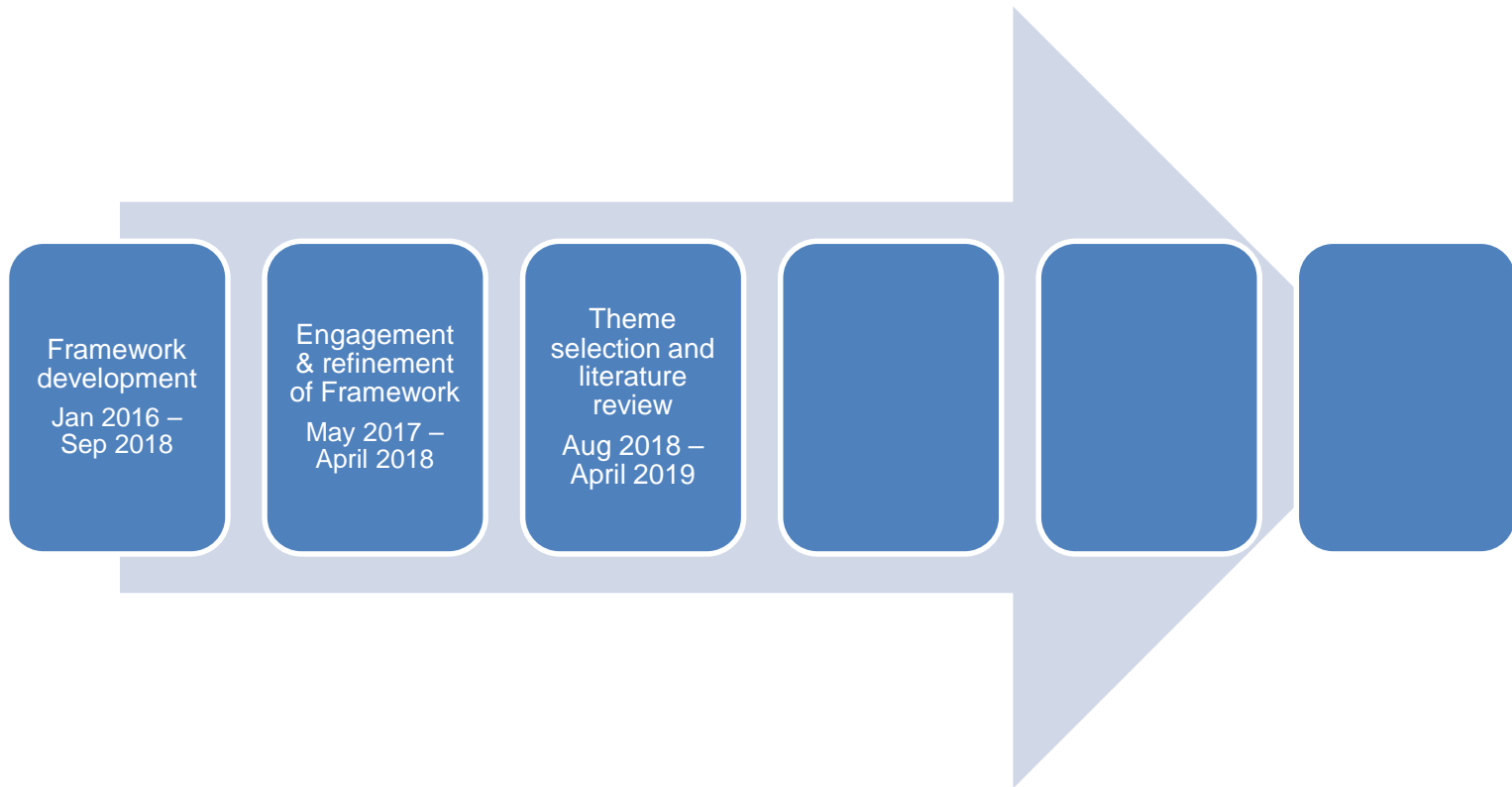
Food Security Indicator Framework

	Determinant Indicators: National/ Provincial <i>Why?</i>	Current State Indicators <i>What?</i>	Impact Indicators (Exposure & Effect) <i>Now what?</i>	Response Indicators <i>So what?</i>

Food security indicator causal network



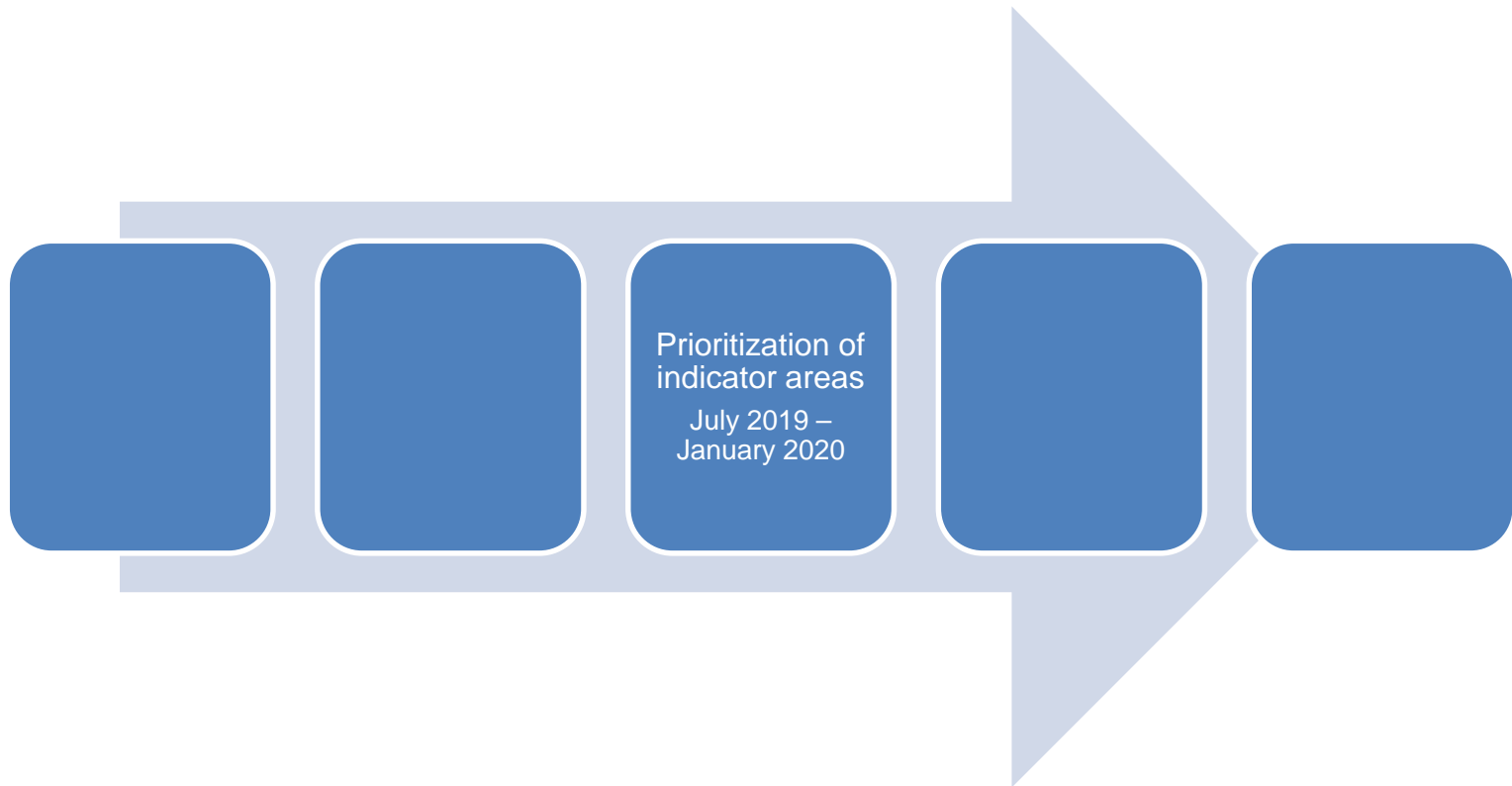
Process...

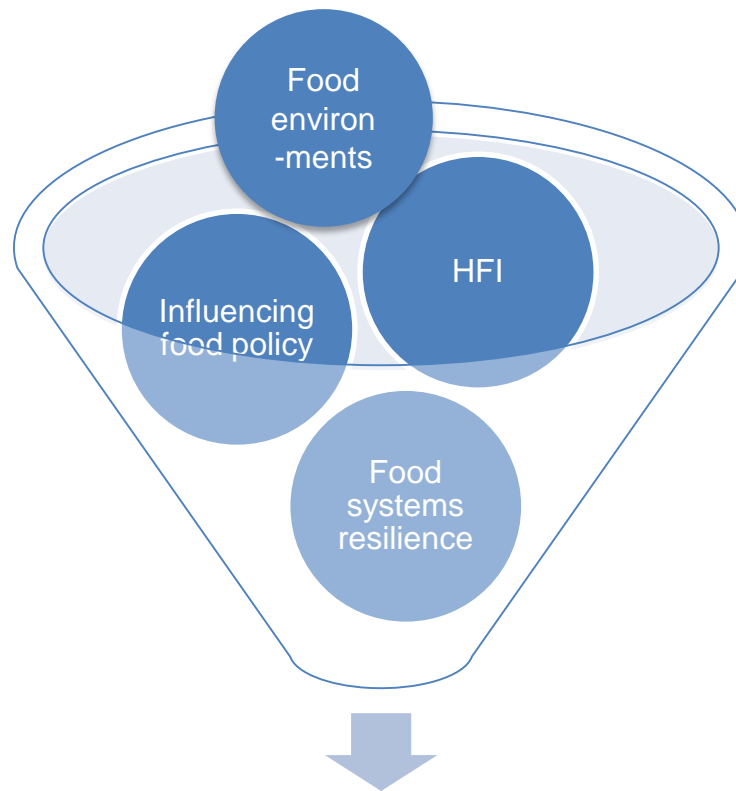


Indicator categories & areas

Categories	Areas
HFI	<ol style="list-style-type: none"> 1. HFI and FV intake 2. HFI and health conditions 3. HFI and food cost/ affordability
Food environments	<ol style="list-style-type: none"> 1. Availability of, and distance to, grocery stores. 2. Geographic access (proximity, density, variety) 3. Spatio-temporal access to grocery store 4. Zoning for food availability 5. Community approaches to addressing access to healthy food
Food system resilience	<ol style="list-style-type: none"> 1. Supply chain diversity / redundancy 2. Production: Agricultural diversity/redundancy across scales 3. Production: Agricultural input sustainability, security or self-sufficiency; economic performance; capacity for local/regional food production 4. Province/System-Wide: Social capital; food system planning
Influencing food security policy	<ol style="list-style-type: none"> 1. Measuring overall policy efforts 2. Using the National Nutritious Food Basket 3. Measuring policy and advocacy efforts specific to the Community Food Action Initiative (CFAI)

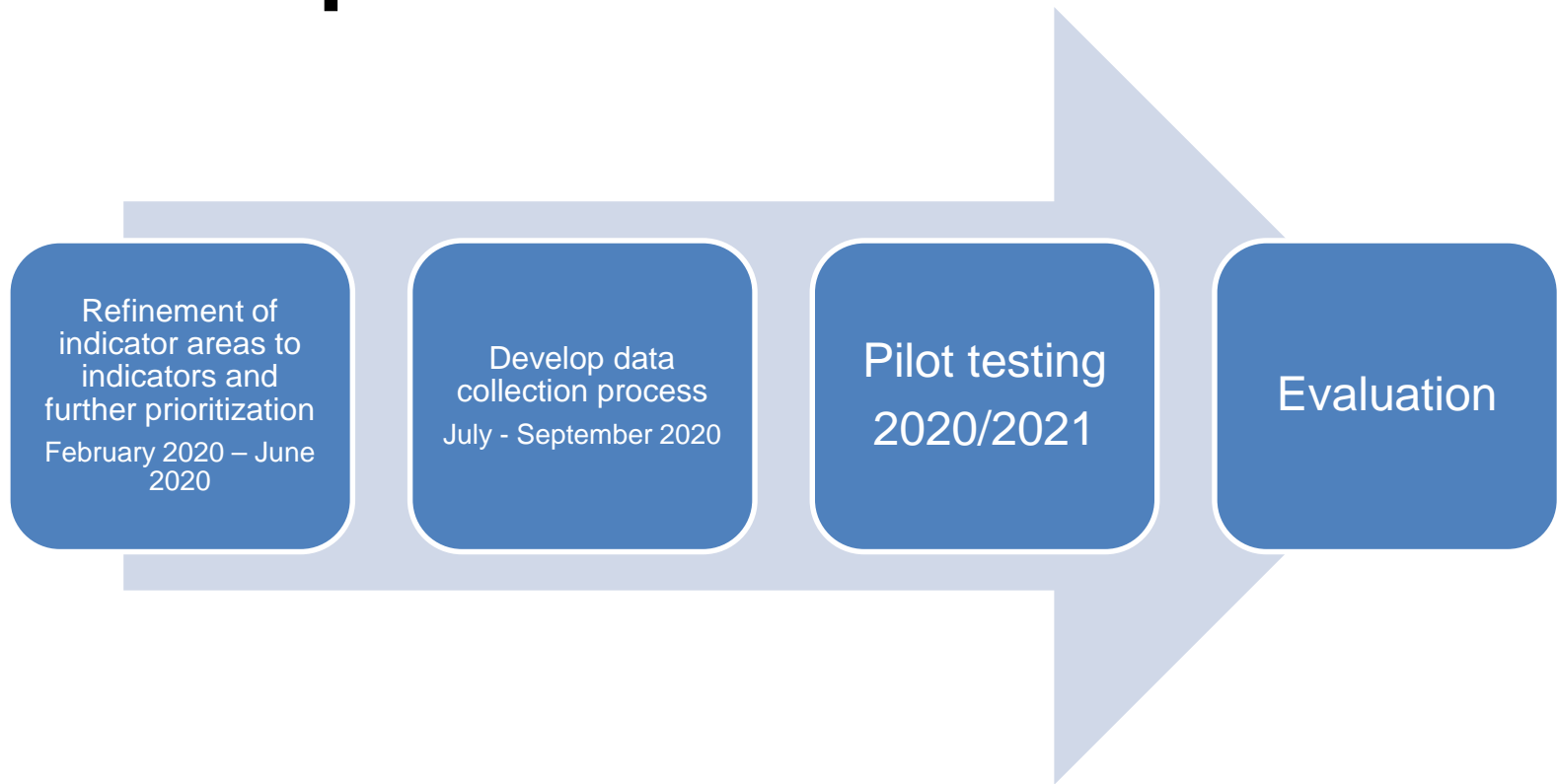
Process...





List of priority indicator areas

Next steps



Key learnings

- Challenging to simplify as there are multiple connected systems
- Simplifying meant limited information on Indigenous food sovereignty
- Indicators need to reflect current context
- Jurisdiction of the health authorities

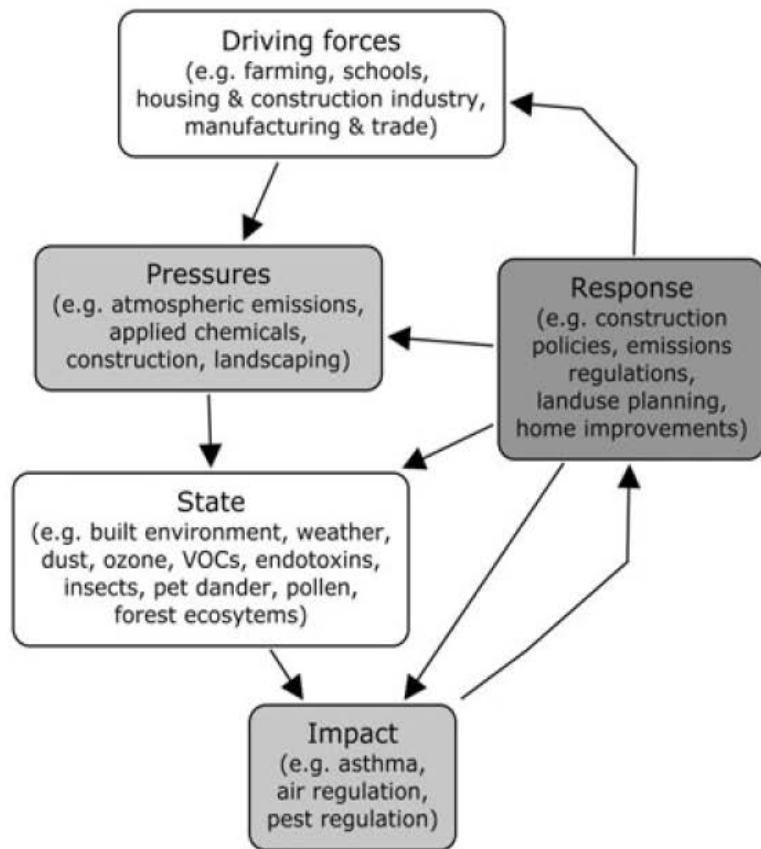
Questions

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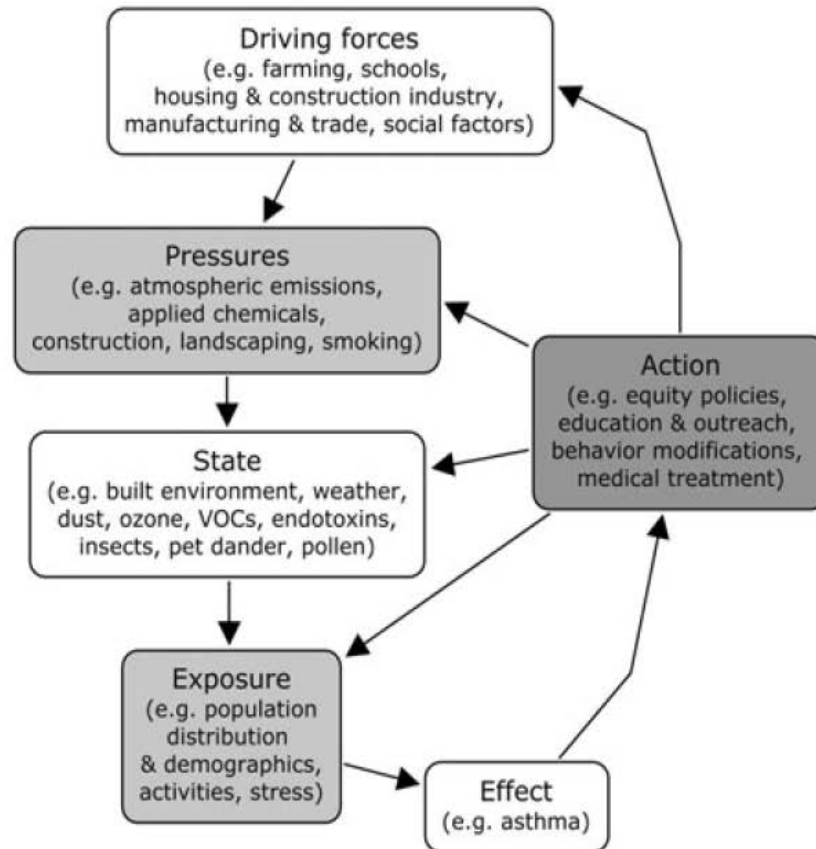
<http://www.bccdc.ca/our-services/programs/food-security>

Environmental Health Indicator Frameworks

(a) DPSIR



(b) DPSEEA



Example: Individual and Household Food Insecurity Causal Network

