



# Creating healthier food environments in Canada:

## Current policies and priority actions





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# Background

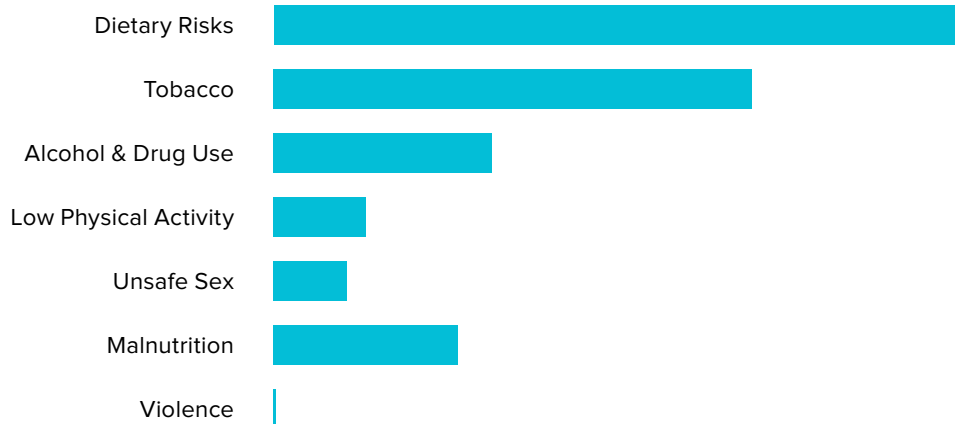
## Diet related NCDs

The high global burden of non-communicable diseases (NCDs) is worrisome. Poor diet is a major contributor to a range of NCDs, notably cardiovascular diseases, some types of cancer, and diabetes. Evidence suggests that diet is now the leading behavioural risk factor for mortality globally, spanning high, middle and low-income countries alike. See Figure 1a.

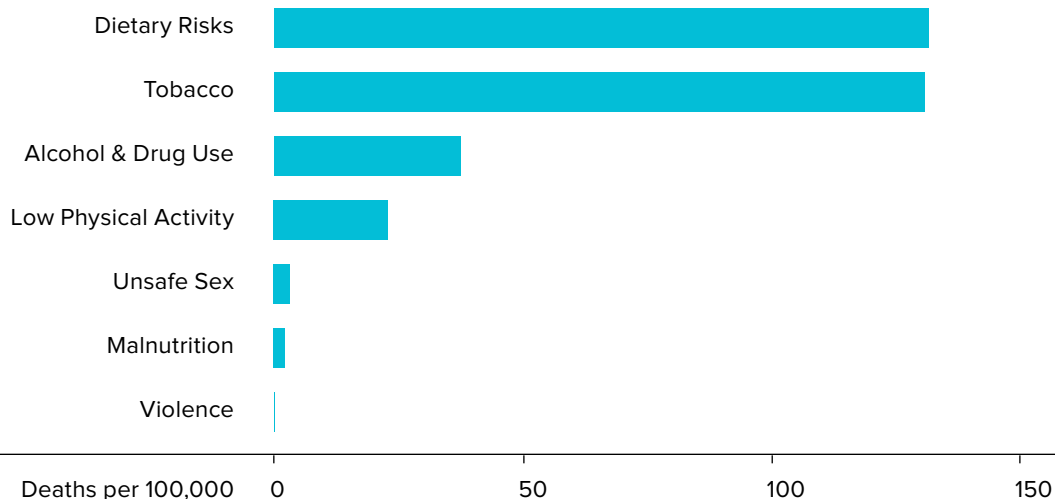
Canada is no exception, and unhealthy diet is now the leading behavioral risk factor for death in Canada.<sup>1</sup> See Figure 1b. The most recent nationally representative nutrition data from Canada suggest that there has been little improvement in dietary habits over the past 10 years, and that the overall quality of the Canadian diet is poor.<sup>2,3</sup> In addition, 27% of Canadians are living with obesity.<sup>4</sup>

**Figure 1a and 1b. Behavioural risk factors contributing to the mortality burden, both sexes, all ages, 2016.**

### Global



### Canada



In this document, the term “nutrients of public health concern” refers to added sugar, saturated and trans fat and sodium, as these are the nutrients considered by experts to most closely relate to risk of obesity and NCDs, and are currently consumed in excess amounts by most Canadians, according to guidelines from Health Canada and the World Health Organization.<sup>5,6,7</sup> In addition, low consumption of vegetables and fruit are of concern as the vast majority of Canadians consume vegetables and fruit in amounts much lower than recommended targets.<sup>8</sup>

## Importance of food environments

The food environment is comprised of all of the factors that influence food choices and dietary habits. The definition of the food environment is broad, and includes the physical, economic, political and sociocultural surroundings, opportunities and conditions that can all influence food choices and, ultimately, health.<sup>9,10</sup>

Government policy lays a foundation for the food environment, by establishing regulations and priorities for investment of government funding and resources, providing a framework in which the food industry and the general public operate. The current Canadian food environment is dominated by nutrient-poor, energy dense food items, which are increasingly more accessible, available at a lower cost and more heavily promoted than their healthy food counterparts, which plays a significant role in contributing to poor dietary habits among Canadians. Comprehensive government policy action is needed to support a food environment that can contribute to healthy diets and improve health among all Canadians.

The purpose of this research was to evaluate policies and actions that federal, provincial and territorial governments are taking to create a healthier food environment in Canada, and to prioritize areas for action to address current policy gaps.

## INFORMAS

Benchmarking food environments

The INFORMAS network (International Network for Food and Obesity/non-communicable diseases Research, Monitoring and Action Support) was founded by a group of international experts from 9 universities and 4 global NGOs in the area of food and nutrition, and has since expanded to include dozens of researchers from 19 countries around the globe. The objective of INFORMAS is to ‘monitor and benchmark food environments and policies globally to reduce obesity, diet related non-communicable diseases and their related inequalities,’ and the work aligns with overarching efforts of the United Nations and the World Health Organization to prioritize monitoring of NCDs and associated risk factors to improve population health.<sup>10–15</sup>

The INFORMAS groups is led by Prof. Boyd Swinburn from University of Auckland, and Dr. Mary L’Abbe is the Canadian lead for INFORMAS. For more information, visit [www.informas.org](http://www.informas.org) and <http://labbelab.utoronto.ca/projects/international-projects/>

# Food-EPI Process

The Food Environment Policy Index (Food-EPI) was developed by INFORMAS to comprehensively assess government policies and actions for creating healthier food environments using a set of evidence-based, standardized tools.<sup>16</sup>

The Food-EPI framework distinguishes government actions based on two components: 1) Policy and 2) Infrastructure support, to incorporate policy and infrastructure domains that have been identified by experts as those that contribute most to influencing the food environment.

## Policy Component

Within the Policy component, there are 7 domains or policy areas that can be implemented to create a healthier food environment. These include:



- 1. Food Composition:** There are government systems implemented to ensure that, where practicable, processed foods and out-of-home meals minimize the energy density and the nutrients of concern (sodium, saturated fat, trans fat, added sugar)



- 5. Food Provision:** The government ensures that there are healthy food service policies implemented in government-funded settings to ensure that food provision encourages healthy food choices, and the government actively encourages and supports private companies to implement similar policies



- 2. Food Labelling:** There is a regulatory system implemented by the government for consumer-oriented labelling on food packaging and menu boards in restaurants to enable consumers to easily make informed food choices and to prevent misleading claims



- 6. Food Retail:** The government has the power to implement policies and programs to support the availability of healthy foods and limit the availability of unhealthy foods in communities (outlet density and locations) and in-store (product placement)



- 3. Food Promotion:** There is a comprehensive policy implemented by the government to reduce the impact (exposure and power) of promotion of unhealthy foods to children (<16 years) across all media



- 7. Food Trade and Investment:** The government ensures that trade and investment agreements protect food sovereignty, favour healthy food environments, are linked with domestic health and agricultural policies in ways that are consistent with health objectives, and do not promote unhealthy food environments



- 4. Food Prices:** Food pricing policies (e.g., taxes and subsidies) are aligned with health outcomes by helping to make the healthy eating choices the easier, cheaper choices

# Infrastructure Support Component

Within the Infrastructure Support component, there are 6 support domains that outline government infrastructure supports that enable the implementation of successful government policy and action. These include:



- 1. Leadership:** The political leadership ensures that there is strong support for the vision, planning, communication, implementation and evaluation of policies and actions to create healthy food environments, improve population nutrition, and reduce diet-related inequalities



- 4. Funding and Resources:** Sufficient funding is invested in 'Population Nutrition' to create healthy food environments, improved population nutrition, and reductions in obesity, diet-related NCDs and related inequalities



- 2. Governance:** Governments have structures in place to ensure transparency and accountability, and encourage broad community participation and inclusion when formulating and implementing policies and actions to create healthy food environments, improve population nutrition, and reduce diet-related inequalities



- 5. Platforms for Interaction:** There are coordination platforms and opportunities for synergies across government departments, levels of government, and other sectors (non-governmental organizations, private sector, and academia) such that policies and actions in food and nutrition are coherent, efficient and effective in improving food environments, population nutrition, diet-related NCDs and their related inequalities



- 3. Monitoring and Intelligence:** The government's monitoring and intelligence systems (surveillance, evaluation, research and reporting) are comprehensive and regular enough to assess the status of food environments, population nutrition and diet-related NCDs and their inequalities, and to measure progress on achieving the goals of nutrition and health plans



- 6. Health-in-all-policies:** Processes are in place to ensure policy coherence and alignment, and that population health impacts are explicitly considered in the development of government policies within and outside of the health sector

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## Global Food-EPI

The **Food Environment Policy Index (Food-EPI)** has been implemented in 13 countries to date, and is soon to be implemented in several more. Each country has adapted the methods to ensure that the analysis is appropriate at the country level using the same process infrastructure.





These international efforts will provide opportunities for international cross-country comparisons and lay the groundwork for policy evaluation national and subnational levels worldwide.

## Policy Indicators and International Benchmarks

The table below shows indicator areas, and samples of the international benchmarks against which the Canadian policies were compared. The table below shows indicator areas, and samples of the international benchmarks against which the Canadian policies were compared. International benchmarks of best practice are based on current practices implemented by governments across the world, identified

by the INFORMAS group as being most likely to positively influence the food environment, using the most recent evidence and data available. A table including all of the Food-EPI Good Practice Statements for each indicator can be found in Appendix A. The comprehensive list of international benchmarks can be found in the Federal Evidence Document at [www.labbelab.utoronto.ca/Food-EPI-Canada-2017](http://www.labbelab.utoronto.ca/Food-EPI-Canada-2017).

**Table 1. Indicators and international benchmark examples**

	Indicator title	Sample of international benchmarks of current best practice
	Composition targets for packaged foods	<b>ARGENTINA:</b> Mandatory maximum sodium levels in various food categories <b>DENMARK:</b> Ban on trans fat
	Composition targets for out-of-home foods	<b>NETHERLANDS:</b> Voluntary agreement with trade organization for nutrients of concern
	Nutrition information on labels	<b>MANY COUNTRIES (including Canada):</b> Require trans fat information on labels <b>USA:</b> To require added sugar on labels
	Health claim regulations	<b>AUSTRALIA:</b> Regulations for health and nutrition claims on healthy products only
	Front-of-package food labelling	<b>CHILE:</b> Warning labels for foods high in calories, saturated fat, sodium and sugar
	Menu labelling	<b>AUSTRALIA:</b> Three states require kilojoule labelling in chain restaurants
	Promotion to children via broadcast media	<b>QUEBEC, CANADA:</b> Prohibits all advertising to children under 13 years through all media
	Promotion to children via non-broadcast media	<b>QUEBEC, CANADA:</b> Prohibits all advertising to children under 13 years through all media
	Promotion to children in children's settings	<b>CHILE:</b> Restricts advertising to children under age 14 for foods high in nutrients of concern
	Minimize taxes on healthy foods	<b>POLAND:</b> Tax exemption for basic foods <b>TONGA:</b> Reduced import duties on all types of fish
	Increase taxes on unhealthy foods	<b>MEXICO:</b> Introduced an excise duty on drinks with added sugar and calorically dense foods
	Subsidies on foods	<b>SINGAPORE:</b> 'Healthier ingredient scheme' supports manufacturers to use healthy oils



Food-related income support **USA:** The Supplemental Nutrition Program for Women, Infants, and Children (WIC) aims to provide healthier foods



School nutrition policies **CHILE:** Limits foods sold in schools that are high in nutrients of concern

Public sector nutrition policies **LATVIA:** Set sodium levels for foods in hospitals  
**UK:** Minimum standards for public sector buying and catering services

Support for public sector nutrition policies **JAPAN:** Dietitians help implement nutrition programs in schools, public settings, etc.

Support for private sector nutrition policies **SINGAPORE:** Program provides grants and tools to private and public institutions to promote health in workplaces



Planning policies for unhealthy food outlets **SOUTH KOREA:** 'Green food zones' around 200 m of schools can sell healthy foods only

Planning policies for healthy food outlets **USA:** Provides grants to states to attract healthier retail outlets in underserved areas

Health and unhealthy food availability in stores **USA:** The WIC program requires authorized stores to stock healthier products

Healthy and unhealthy food availability in restaurants **SINGAPORE:** Program to support food vendors with healthier options  
**FRANCE:** Banned unlimited free refills in restaurants



Risk impact assessments **USA:** Environmental impact assessments sometimes incorporate Health Impact Assessments

Manage and protect regulatory capacity **MANY COUNTRIES:** Sanitary and phytosanitary clauses in World Trade Organization agreements







Political support for population nutrition **BRAZIL:** Minister of Health support for new dietary guidelines  
**CARICOM COUNTRIES:** NCD commissions in 6 member states

Population intake targets established **BRAZIL:** National targets for fruit and vegetable consumption and salt intake

Dietary guidelines **BRAZIL:** National dietary guidelines address healthy eating from a cultural, ethical and environmental perspective

Implementation plan to improve food environments **EU:** The European Food and Nutrition Action Plan 2015–20 outlines clear strategic goals, guiding principles, objectives, priorities and tools

Priorities for inequalities related to nutrition **NEW ZEALAND:** Reports estimates from health and nutrition surveys by ethnic group and area level deprivation index  
**AUSTRALIA:** The National Indigenous Reform Agreement (Closing the Gap)

Indicator title	Sample of international benchmarks of current best practice
	<p><b>Restrict commercial influence</b></p> <p><b>USA:</b> Federal and state lobby registries which must disclose amount spent on lobbying</p> <p><b>AUSTRALIA:</b> Australian Public Service Commission's Values and Code of Conduct</p>
Evidence in policymaking	<p><b>AUSTRALIA:</b> The National Health and Medical Research Council Act 1992 requires development of evidence-based guidelines</p>
Transparency in policy development	<p><b>AUSTRALIA/NZ:</b> Food Standards Australia New Zealand requires stakeholder engagement in the development of new standards</p>
Public access to information	<p><b>AUSTRALIA/NZ:</b> The Freedom of Information Act and Open Access principles across governments</p>
	<p><b>Monitoring food environments</b></p> <p><b>NEW ZEALAND:</b> Measures food environments in all schools and early childhood education centres</p>
Monitoring population intakes	<p><b>USA:</b> The NHANES assesses health and nutrition status of representative samples of adults and children annually</p>
Monitoring overweight and obesity	<p><b>UK:</b> Measures all children in England in the first and last years of primary school</p>
Monitoring NCD prevalence and risk factors	<p><b>OECD COUNTRIES:</b> Have regular, robust prevalence, incidence and mortality data for diet-related NCDs and risk factors</p>
Evaluation of programs and policies	<p><b>USA:</b> Provides dedicated research funding for natural experiments evaluating policies that may influence obesity and health</p>
Monitoring health inequalities	<p><b>NEW ZEALAND:</b> All annual surveys report estimates by subpopulations (including ethnicity)</p>
	<p><b>Sufficient population nutrition budget</b></p> <p><b>NEW ZEALAND:</b> Funding for population nutrition was estimated at 0.6% of the health budget</p>
Government-funded research	<p><b>AUSTRALIA:</b> Obesity, diabetes and cardiovascular health have been designated as National Health Priority Areas</p>
Health promotion agency	<p><b>AUSTRALIA:</b> The Victorian Health Promotion Foundation was created in 1987</p>
	<p><b>Coordination mechanism across government</b></p> <p><b>MALTA:</b> Established an inter-ministerial Advisory Council on Healthy Lifestyles</p>
Coordination mechanism with commercial food sector	<p><b>UK:</b> The UK 'Responsibility Deal' initiative brought together food companies and NGOs to voluntarily take steps to address NCDs</p>
Coordination mechanism with civil society	<p><b>BRAZIL:</b> The National Council of Food and Nutrition Security (CONSEA) includes civil society actors as advisors</p>

Systems-based approach with local organizations

**NEW ZEALAND:** Healthy Families NZ supports community-led initiatives for better health



Health considerations in all food policies

**SLOVENIA:** Undertook a Health Impact Assessment (HIA) to assess the health effects of national agricultural policy

Health impact assessments in non-food policies

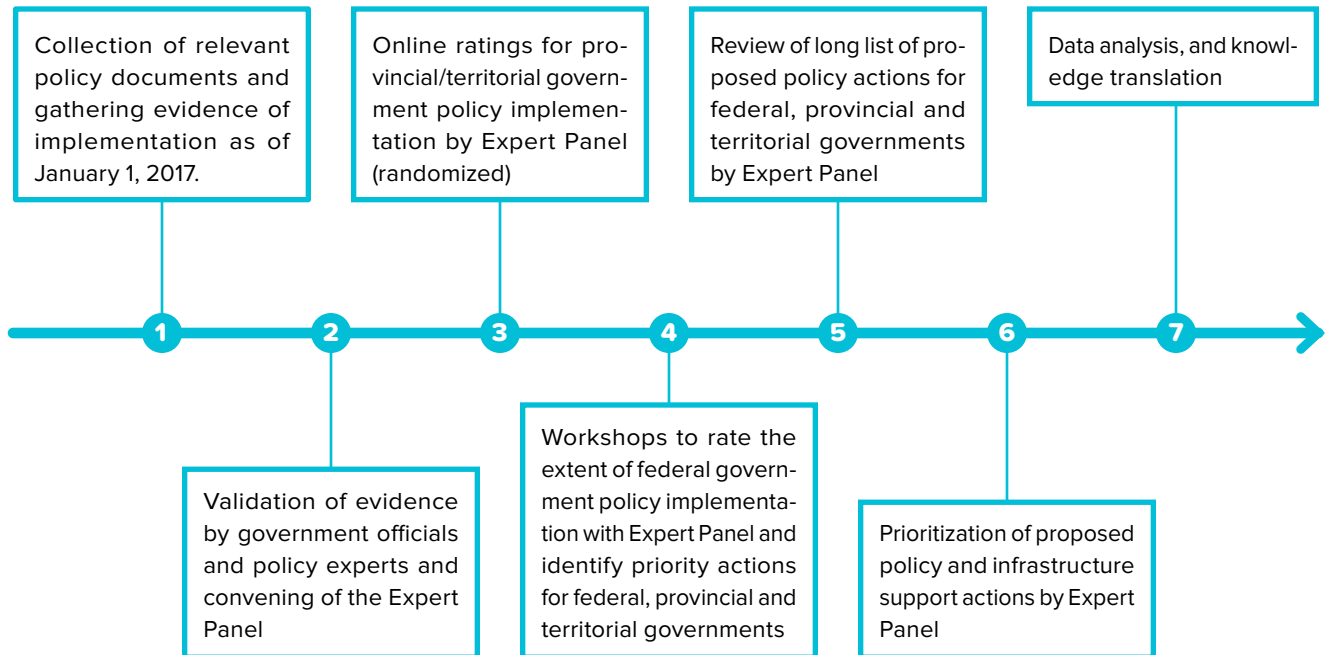
**FINLAND:** Has worked towards health-in-all-policies for over four decades

## Food-EPI Canada 2017 Methods

The Food-EPI was adapted to the Canadian context to enable a thorough understanding of the state of food environment policy across the country. Given the nature of regulatory jurisdiction in Canada, policies were evaluated for the federal government, as well as for provincial and territorial governments.

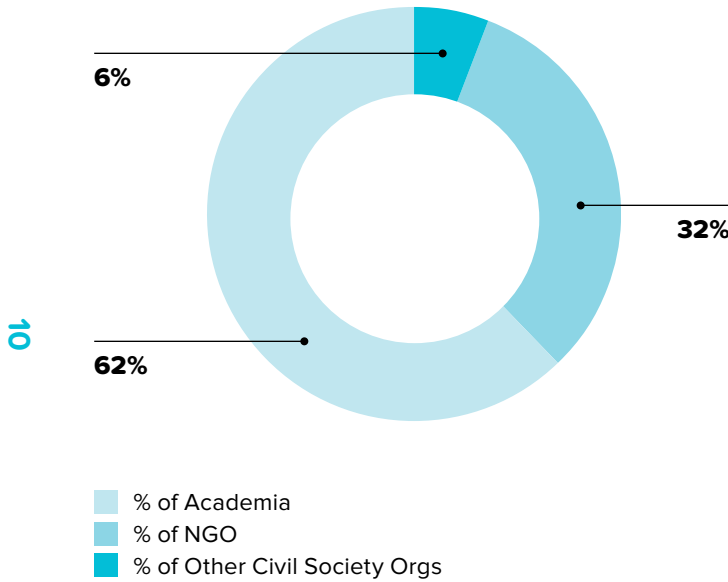
A depiction of the overall Food-EPI Canada process can be found in Figure 2.

**Figure 2. Steps of the Food-EPI Canada 2017 process**

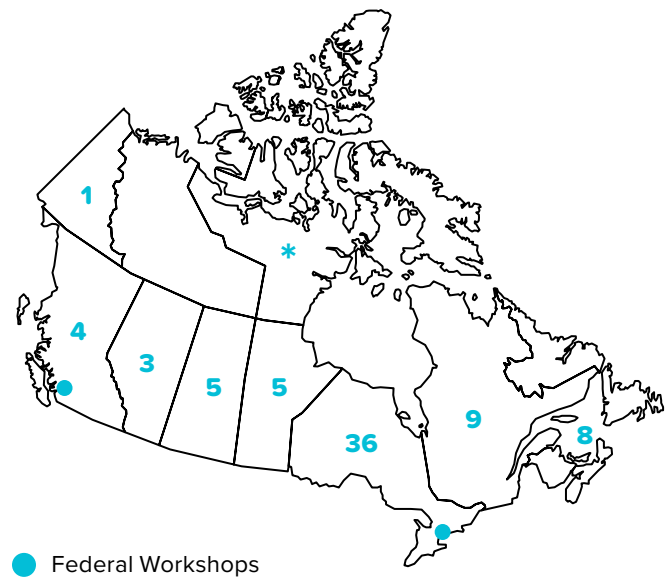


Experts involved in the Food-EPI process came from across the country, for a total of 71 experts involved in the overall process.

**Figure 3. Participants from each sector**



**Figure 4. Expert geographic location**



**\* A Note on Nunavut**

The Food-EPI process is underway in Nunavut as well; however, due to the novel food environment in Nunavut and the unique nutrition challenges faced by the Nunavummiut, a separate process will be undertaken to adapt the Food-EPI tool as appropriate to the Nunavut context, and engage local experts and government in evaluating the food environment to support policy action.

## Provincial Methods

Experts were randomized to conduct policy ratings for one of the 12 provinces or territories included in the ratings (excluding Nunavut – see note above). Experts may or may not have been residents of or worked in the province or territory to which they were randomly assigned. The Provincial/Territorial Evidence document to which the expert was randomized was provided to describe the level of policy implementation and provincial/territorial context. The Ontario Evidence document can be accessed at: [www.labbelab.utoronto.ca/Food-EPI-Canada-2017](http://www.labbelab.utoronto.ca/Food-EPI-Canada-2017).

Participants were instructed to rate the policy compared to international best practice examples using a Likert scale of 1 to 5 (1=0-20% implemented, 2=20-40% implemented, 3=40-60% implemented, 4=60-80% implemented, 5=80-100% implemented). Experts were told to consider the various steps of the policy cycle (agenda-setting and initiation, policy development, implementation, enforcement, etc.), including intentions and plans of the government such as the establishment of working and advisory groups, and government funding for actions undertaken by non-governmental organizations.

# Prioritizing Policy and Infrastructure Support Actions

As a final activity, participants were asked to rate the policy and infrastructure support actions according to two elements: 'Importance' and 'Achievability'. Criteria that were to be taken into account when evaluating these elements can be found in Table 2.

**Table 2. Criteria for 'Importance' and 'Achievability' elements**

## Importance

<b>Need</b>	Size of the implementation gap
<b>Impact</b>	Effectiveness of the action on improving food environments and diets (including reach and effect size)
<b>Equity</b>	Progressive/regressive effects on reducing food/diet-related health inequalities
<b>Other Positive Effects</b>	For example on protecting rights of children and consumers
<b>Other Negative Effects</b>	For example regressive effects on household income, infringement on personal liberties

## Achievability

<b>Feasibility</b>	How easy or hard the action is to implement
<b>Acceptability</b>	The level of support from key stakeholders including government, the public, public health and industry
<b>Affordability</b>	The cost of implementing the action
<b>Efficiency</b>	The cost-effectiveness of the action

The policy ratings for Ontario were conducted by 7 experts, randomized from the Expert Panel. The prioritization ratings for Ontario were conducted by 3 experts.

# Ontario Results



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## Areas where the Ontario government is doing particularly well:

**Food Labelling:** Calorie labelling in regulated food service premises with 20 or more locations in Ontario



**Food Provision:** Comprehensive, mandatory school nutrition standards (PPM 150) in place in all schools and resources to support implementation of the standards



**Leadership:** The Healthy Kids Strategy to establish a strategy and plan, with funding and support for implementation, to improve food environments



**Funding and Resources:** Funding a health promotion agency, Public Health Ontario (PHO), that supports diet and nutrition research and capacity



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## Areas where little or no policy implementation was evident compared to some of the most promising international practices:

**Food Promotion:** Policies to limit or restrict marketing to children



**Food Retail:** Zoning or planning policies for less healthy food outlets, policies or support for retailers and food service providers to promote healthy food choices



**Leadership:** Setting population intake targets for nutrients of public health concern or vegetables and fruit



**Monitoring:** Monitoring and evaluating food environments

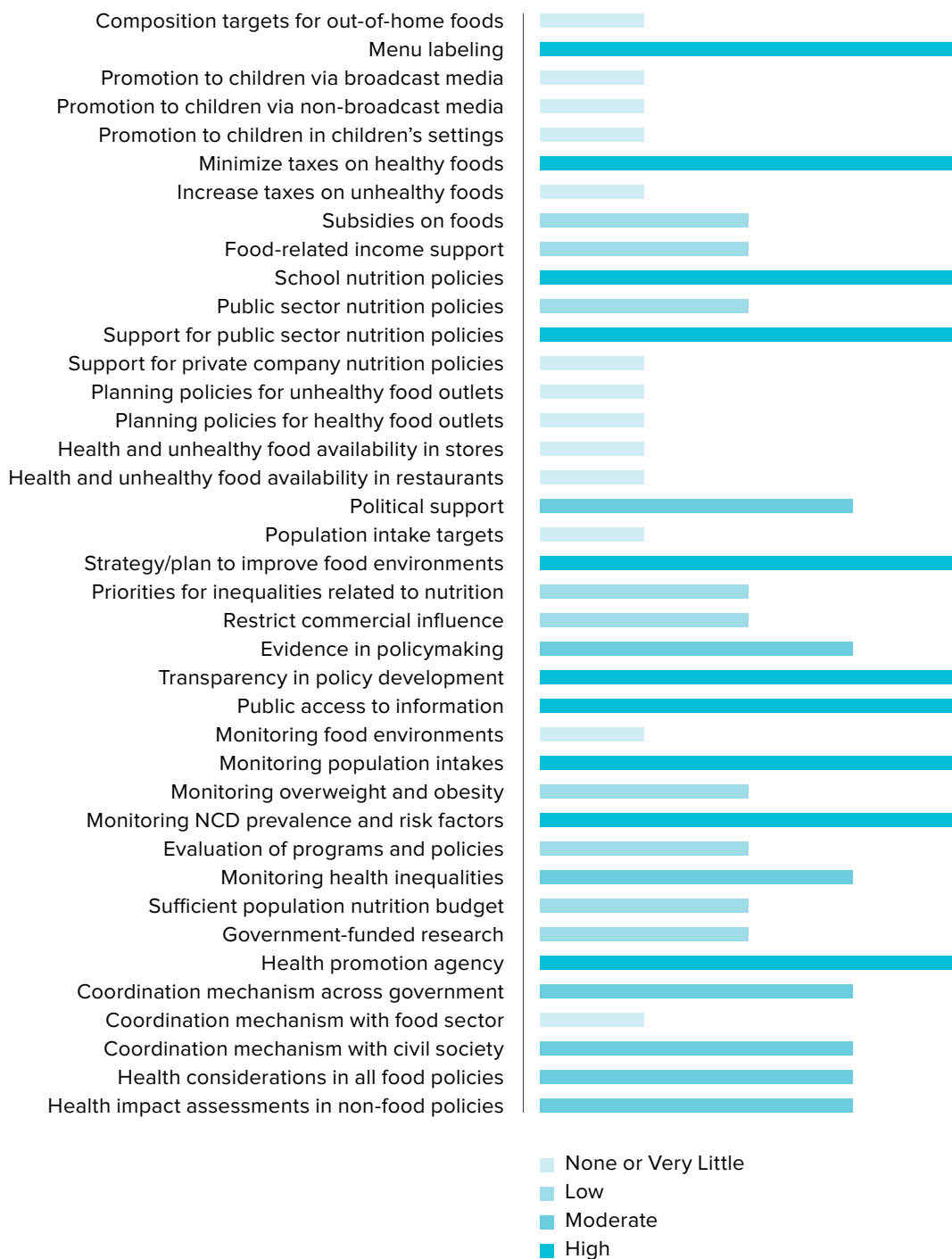


**Platforms for Interaction:** Mechanisms to support coordination between the government and the food sector



*Expert ratings of policy implementation for Ontario can be found in Figure 5.*

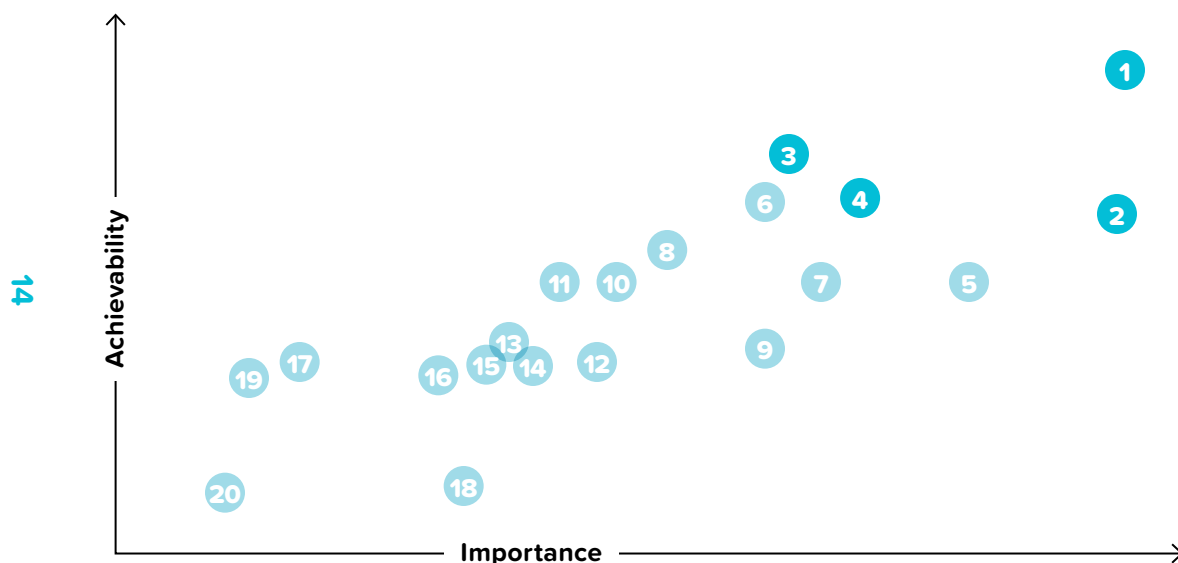
**Figure 5. Expert ratings of implementation of 39\* provincial government policy areas from online ratings for Ontario**



\*Only 39 of the 47 Food-EPI indicators were identified as falling within provincial or territorial jurisdiction

# Policy Actions Recommended to Support Healthy Food Environments in Ontario

Figure 6. Prioritized policy actions graph



## Full Recommendations for Prioritized Policy Actions

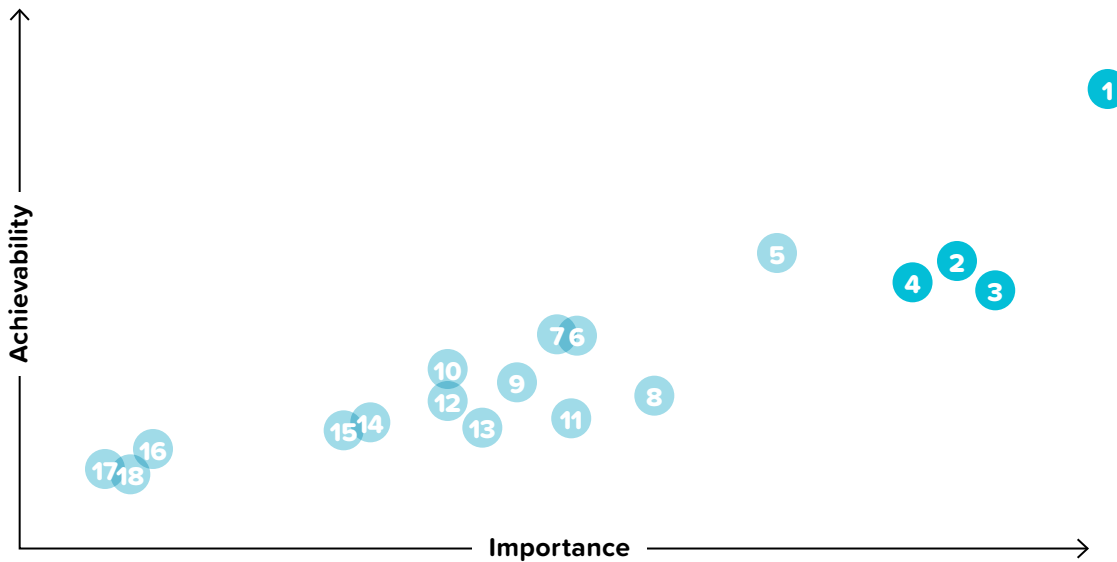
A list of all proposed actions can be found in Table 3.

1. Update the Healthy Menu Choices Act to provide additional information for sodium on menus, and implement a comprehensive menu labelling education campaign and added fiscal incentive for industries to reformulate. In addition, require chain food service providers to fully disclose amounts of energy and the 13 core nutrients found on the Nutrition Facts table per serving size in an online format
2. Implement a point-of-sale sales tax on all sugary drinks, as defined by comprehensive, evidence based nutrient profiling criteria. Invest the revenue from the tax to targeted areas that address public health as appropriate to provincial context, and advertise the re-investment of the tax dollars to the public
3. Develop and implement clear, consistent policies including public procurement standards to provide and promote healthy food choices in food service activities (cafeterias, vending machines, food at events, fundraising, promotions, etc.) in public sector settings under provincial control (long term care facilities, hospitals, and recreation centres, correctional services, etc.)
4. Evaluate what is currently in school curricula regarding food literacy and food skills training, and require this as a mandatory component of primary and secondary school education



# Infastructure Support Actions Recommended to Support Healthy Food Environments in Ontario

Figure 7. Prioritized infastructure support actions graph



## Full Recommendations for Prioritized Infastructure Support Actions

A list of all proposed actions can be found in Table 3.

1. Acknowledge and endorse the importance of provincial public health nutrition and obesity and non-communicable disease prevention strategies in political platforms, mandate letters and speeches from the throne
2. Continue to support the Healthy Kids Community Challenge and invest in additional themes that promote healthy eating behaviours that have yet to be addressed
3. Create a multi-sectoral government body that includes participation from civil society to support and sustain the Ontario Food and Nutrition Strategy
4. Continue funding for the Nutrition Resource Centre as a health promotion resource centre for Ontario that supports capacity for planning, implementing and evaluating evidence-based healthy eating and nutrition, health promotion interventions across Ontario

# Proposed Actions

**Table 3. List of proposed policy and infrastructure support action recommendations for the Ontario government to improve food environments, in order of priority ranking according to policy experts**

## POLICY ACTIONS

1. Update the Healthy Menu Choices Act to provide additional information for sodium on menus, and implement a comprehensive menu labelling education campaign and added fiscal incentive for industries to reformulate. In addition, require chain food service providers to fully disclose amounts of energy and the core nutrients found on the Nutrition Facts table per serving size in an online format
2. Implement a point-of-sale sales tax on all sugary drinks, as defined by comprehensive, evidence based nutrient profiling criteria. Invest the revenue from the tax to targeted areas that address public health as appropriate to provincial context, and advertise the re-investment of the tax dollars to the public
3. Develop and implement clear, consistent policies including public procurement standards to provide and promote healthy food choices in food service activities (cafeterias, vending machines, food at events, fundraising, promotions, etc.) in public sector settings under provincial control (long term care facilities, hospitals, and recreation centres, correctional services, etc.)
4. Evaluate what is currently in school curricula regarding food literacy and food skills training, and require this as a mandatory component of primary and secondary school education
5. Develop agricultural policies and subsidies that incentivize production, processing, distribution and consumption of vegetables, fruits and legumes that are unprocessed or minimally processed, local (within Ontario) and sustainable
6. Remove sugary drinks, as defined by comprehensive, evidence based nutrient profiling criteria, from the premises of all public sector settings
7. Include specific provisions regarding the healthfulness of foods purchased by the Government of Ontario in the Local Food Procurement Policy
8. Develop and implement provincial policies that require local zoning acts to consider public health nutrition in their development
9. Develop supplementary planning guidance to support municipal zoning efforts that restrict unhealthy food vendors, such as fast food chains or food trucks, within certain distances from schools or other settings where children typically gather
10. Develop a harmonized nutrition guideline for children and youth, applied to all publicly-funded and child-directed settings (including schools, childcare settings and recreation settings) such that they are mandatory by legislation, with adequate resources and supports in place to increase capacity among providers, educators and food service operators to successfully implement the guidelines for foods sold or provided free of charge in child-directed settings
11. Implement targeted commodity subsidies and subsidized transportation for fruit, vegetable and legume producers that support local and sustainable production to reduce costs in domestic markets and increase their consumption, with a specific emphasis on distribution to northern and remote communities with limited access to fresh produce

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12. Prohibit restrictive covenant caveats that prevent the establishment of grocery stores or other healthy food vendors in specific areas or premises
- 
13. Establish a mechanism to provide synthesized, evidence-based guidance and support for retailers and food service outlets to both encourage and enable them to provide healthier food choices
- 
14. Implement targets for sodium, free sugar, and saturated fat in the foods provided in restaurant and food service outlets using a structured voluntary approach with the threat of mandatory requirements if compliance is poor after an established time period, and implement a monitoring system for nutrients of concern in the food supply to track compliance
- 
15. Reduce restrictions for zoning requirements to increase the availability of fresh fruits and vegetables, with a particular focus in designated, underserved neighbourhoods
- 
16. Introduce a comprehensive provincial policy restricting marketing of unhealthy food and beverages as identified by a comprehensive, evidence-based nutrient profiling system to children under the age of 17 in schools and public settings frequented by children, such as arenas and community centres and via other non-broadcast media
- 
17. Provide incentives and information appropriate to all private organisations (especially small- and medium-sized enterprises) to promote and sustain the provision of healthy food in workplaces (including in employee cafeterias and in vending machines), highlighting the benefits of a healthier workplace food environment on employee health, productivity and wellness
- 
18. Implement a provincial basic income guarantee to provide adequate financial support to cover the costs of living, including the cost of purchasing healthy, nutrient-rich diets, informed by the current pilot program in Ontario
- 
19. Establish a support service delivered by experienced dietitians to train cooks, chefs, foods service and other key staff in developing healthier recipes, and offer food ideas and other helpful resources to provide healthier menus and food products for various public sector settings
- 
20. Expand the Northern Fruit and Vegetable Program to include all schools in the province
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## INFRASTRUCTURE SUPPORT

1. Acknowledge and endorse the importance of provincial public health nutrition and obesity and NCD prevention strategies in political platforms, mandate letters and speeches from the throne
- 
2. Continue to support the Healthy Kids Community Challenge and invest in additional themes that promote healthy eating behaviours that have yet to be addressed
- 
3. Create a multi-sectoral government body that includes participation from civil society to support and sustain the Ontario Food and Nutrition Strategy
- 
4. Continue funding for the Nutrition Resource Centre as a health promotion resource centre for Ontario that supports capacity for planning, implementing and evaluating evidence-based healthy eating and nutrition, health promotion interventions across Ontario
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5. Regularly report on provincial dietary intake using data from national surveys, stratified by socio-demographic factors associated with health inequities (income, education, gender, Aboriginal status, geographic location, etc. as relevant)

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  6. Develop clear provincial guidelines for establishing relationships with the food industry, including policy development and public private partnerships, ensuring that food industry representatives are not involved in setting policy objectives and agendas where they have conflicts of interest with improving population nutrition

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  7. Establish requirements and a process for the collection and use of evidence in all provincial food policies

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  8. Work with First Nations/ Inuit/ Metis leadership and others to develop a comprehensive strategy to promote access, availability, and affordability of healthy foods for Indigenous populations on and off reserve within the context of local foodways and cultural traditions

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  9. Implement formal health impact assessments as part of food and non-food policy development and proposal processes, including explicit details about the consideration of potential impacts of policies on population nutrition and health (a health-in-all-policies approach)

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  10. Increase the opportunity for policy-maker and researcher partnerships and provide infrastructure support for the development, monitoring and evaluation of government policies

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  11. Establish regular provincial monitoring for the nutritional quality of foods served and marketed in child-directed food environments and public sector settings

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  12. Establish stable and ongoing provincial research funding opportunities for food environment and obesity and NCD prevention research in collaboration with and with support of existing research bodies in Ontario

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  13. Establish measurable goals to identify and close the gaps in health outcomes between Aboriginal and non-Aboriginal communities, and publish annual progress reports and assess long-term trends, as recommended in the Truth and Reconciliation Commission Calls to Action

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  14. Continue to revise the Ontario Healthy Kids Strategy to complement the federal actions of the Healthy Eating Strategy, and include specific actions and policies in the Healthy Kids Strategy to specifically improve public health nutrition among vulnerable populations

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  15. Establish health impact assessment (HIA) and health equity impact assessment (HEIA) capacity, including training and funding for HIAs and HEIAs at the provincial and local level

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  16. In the absence of federal targets, develop public provincial targets for population intakes of all nutrients of public health concern and monitor the achievement of targets and disparities in intakes across subpopulations which could contribute to health inequities

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  17. Develop and implement community-wide structures or networks, with associated resources, to provide broad and coordinated support for community-based interventions designed to create and maintain healthy food environments across multiple settings

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  18. Establish a provincial Healthy Eating Committee with a focus on population nutrition and healthy eating environments with broad representation from all sectors (including the private sector and civil society) with sufficient resources to support participation of non-governmental groups

# Provincial & Territorial Results



Each province or territory was rated by 5–7 experts. The inter-rater reliability ranged from 0.33 to 0.92, with average inter-rater reliability of 0.64, and 9 of 12 jurisdictions with a coefficient greater than 0.5. A minimum of 3 experts conducted the prioritization activity for each province or territory.

The evidence documents summarizing the current policy status for all provinces and territories that were rated by experts are available at: [www.labbelab.utoronto.ca/Food-EPI-Canada-2017](http://www.labbelab.utoronto.ca/Food-EPI-Canada-2017).

## Provincial and Territorial Policy Highlights

### Provincial highlights and areas where provinces and territories are meeting international benchmarks:

- **Quebec** is an international benchmark for banning all marketing to children across all media and is a world leader in restricting marketing to children
- **Ontario** has implemented mandatory calorie labelling in chain restaurants and other regulated food service premises, meeting the international benchmark
- **British Columbia** has set limits for the composition of out-of-home foods with regards to trans fat in all foodservice outlets
- **Alberta** has mechanisms for funding food environment research and monitoring, and has funded large food environment research projects in the previous 12 months
- **Quebec** has taken steps to move towards a health-in-all-policies approach for both food and non-food policies
- **All provinces** and territories have some form of monitoring for NCD prevalence and risk factors
- **All provinces** and territories have legislation that makes government information available upon request, therefore increasing public access, and all provinces and territories have budgets available online

### Areas where little or no policy implementation was evident across most provinces or territories compared to some of the most promising international practices:

- Policies regarding advertising to children
- Taxes on unhealthy foods or beverages
- Retail-related policies or support for retailers and food service outlets to offer and promote healthier food choices
- Monitoring of food environments
- Providing opportunities for communication with the food sector
- Concrete actions to incorporate health-in-all-policies approaches

## Summary of Provincial & Territorial Results

**Table 4. Provincial and territorial ratings regarding implementation for 39 policy and infrastructure support indicators**

Indicator	AB	New	MB	NB	NL	NWT	NS	ON	PEI	QC	SK	YK
Composition targets for out-of-home foods	Low	Moderate	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Moderate	None or Very Little	None or Very Little
Menu labelling	None or Very Little	Moderate	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Promotion to children via broadcast media	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little
Promotion to children via non-broadcast media	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little
Promotion to children in children's settings	None or Very Little	None or Very Little	Low	Low	None or Very Little	None or Very Little	Low	None or Very Little	Low	High	None or Very Little	None or Very Little
Minimize taxes on healthy foods	High	High	High	High	High	High	High	High	High	High	High	High
Increase taxes on unhealthy foods	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little
Subsidies on foods	Low	Low	Low	None or Very Little	None or Very Little	High	Low	Low	None or Very Little	Low	None or Very Little	None or Very Little
Food-related income support	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little
School nutrition policies	High	High	High	High	Low	High	High	High	None or Very Little	Low	Low	Low
Public sector nutrition policies	Low	Moderate	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little
Support for nutrition policies	High	High	High	High	High	High	High	High	High	High	High	High
Private company nutrition policies	High	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Planning policies for unhealthy food outlets	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Planning policies for healthy food outlets	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Food availability in food stores	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little
Food availability and promotion in restaurants	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Political support	None or Very Little	Low	None or Very Little	Low	Low	Low	Low	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Population intake targets	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Strategy/plan to improve food environments	None or Very Little	High	Low	Low	High	Low	Low	High	Low	Low	None or Very Little	Low
Priorities for inequalities	None or Very Little	None or Very Little	None or Very Little	High	High	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Restrict commercial influence	Low	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little
Evidence in policymaking	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Transparency in policy development	None or Very Little	Low	None or Very Little	None or Very Little	High	Low	None or Very Little	High	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Public access to information	High	High	High	High	High	High	High	High	High	High	High	High
Monitoring food environments	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	Low	Low	None or Very Little
Monitoring population intakes	Low	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Monitoring overweight and obesity	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	High	None or Very Little
Monitoring NCD prevalence and risk factors	High	None or Very Little	None or Very Little	High	High	None or Very Little	None or Very Little	High	None or Very Little	Low	None or Very Little	None or Very Little
Evaluation of programs and policies	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Monitoring health inequalities	Low	High	High	High	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Sufficient population nutrition budget	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Government-funded research	High	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Health promotion agency	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	High	None or Very Little	None or Very Little
Coordination mechanism across government	None or Very Little	None or Very Little	None or Very Little	High	High	Low	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little
Coordination mechanism w/ food sector	None or Very Little	None or Very Little	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Coordination mechanism with civil society	None or Very Little	None or Very Little	High	High	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little
Health considerations in all food policies	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little
Health impact assessments in non-food policies	Low	Low	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	None or Very Little	High	None or Very Little	None or Very Little

None or Very Little    Low    Moderate    High

# Provincial & Territorial Priorities

The priority rankings for the policy and infrastructure support actions across the 12 provinces and territories were examined to identify emerging patterns regarding actions that were frequently ranked as higher priority. The below list represents actions that were rated as highly important and achievable across many provinces and territories. Coordinated efforts from provincial and territorial governments to achieve these actions are likely to have a significant positive impact on the food environment in Canada.

## The policy actions that were most consistently ranked as higher priority across the 12 provinces and territories included:

1. Provide a universal fruit and vegetable program in all schools
2. Strengthen school nutrition standards, and harmonize these standards to have a consistent guideline for foods served in settings where children gather, including early childhood education centres, and other public sector settings frequented by children
3. Strengthen nutrition standards and procurement policies for public sector settings and provide support for successful implementation of these policies, including long term care facilities, hospitals, recreation centres, and correctional services, etc.
4. Examine current school curricula with regards to food literacy, and introduce food literacy and food skills training as a mandatory component of school curricula
5. Introduce a comprehensive provincial or territorial policy restricting marketing of unhealthy food and beverages as identified by a comprehensive, evidence-based nutrient profiling system to children under the age of 17 in public settings frequented by children, such as arenas and community centres with a sufficient enforcement mechanism to ensure compliance
6. Implement a point-of-sale sales tax on all sugary drinks, as defined by comprehensive, evidence based nutrient profiling criteria. Invest the revenue from the tax to targeted areas that address public health as appropriate to provincial context, and advertise the re-investment of the tax dollars to the public



## The infrastructure support actions that were most consistently ranked as higher priority across the 12 provinces and territories included:

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1. Establish an up-to-date strategy or framework for public health nutrition and healthy eating with comprehensive food environment considerations, and specific actions and policies in the health strategy to improve population nutrition among vulnerable and disadvantaged populations
2. Acknowledge and endorse the importance of public health nutrition and obesity and non-communicable disease prevention strategies in political platforms, mandate letters and speeches from the throne
3. Work with First Nations/ Inuit/ Metis leadership and others to develop a comprehensive strategy to promote access, availability, and affordability of healthy foods for Indigenous populations on and off reserve within the context of local foodways and cultural traditions
4. Establish measurable goals to identify and close the gaps in health outcomes between Aboriginal and non-Aboriginal communities, and publish annual progress reports and assess long-term trends, as recommended in the Truth and Reconciliation Commission Calls to Action
5. Establish a Healthy Eating Committee that includes representation from all sectors (government, private sector and civil society) with sufficient resources to support participation of non-governmental groups



# Implications for Policy

Canadian provincial, territorial and federal governments met global best practice in some, but not all, policy areas that are the most critical to improve the food environment in Canada. Leadership is needed from all federal, provincial, and territorial decision makers to establish a comprehensive strategy to address unhealthy diets and rates of diet-related NCDs. This research demonstrates that food environment policies differ greatly across jurisdictions in Canada, and that there are many areas where governments could act to improve the food environment. Comprehensive, cohesive and coordinated action between jurisdictions, departments and agencies are often needed to provide a comprehensive policy framework to achieve targeted public health nutrition goals. It is our hope that this research will help guide the food and nutrition policy agenda in Canada in the coming years.

Policy makers and others are encouraged to also examine the broad range of policy actions in other Canadian and international jurisdictions beyond those rated as the current priority actions. These contain a wealth of additional actions for consideration, particularly as the policy landscape nationally and globally continues to strengthen and evolve in many areas.

Nutrition related risk factors account for the largest mortality burden in Canada and across the world. Globally, many governments are demonstrating significant leadership by implementing policies and government infrastructure to support healthier food environments, and to make the healthy choice the easier choice. High rates of NCDs are thought to be one of the greatest obstacles in achieving the United Nations' Sustainable Development Goals. As international governments innovate with novel policies to address rising rates of diet-related NCDs and obesity, Canadian governments will need to continue to act and build upon current policies to ensure they do not fall behind in their duty to protect and promote the health and wellness of Canadians. Monitoring and evaluating policy implementation and impact is also critical to ensure that policies are achieving the desired results, and will contribute to our understanding of the effectiveness of these policies more broadly.

## What next?

We will be repeating the Food-EPI Canada process in several years, to examine progress in implementing policy and infrastructure supports to improve the food environment. Ongoing monitoring of policies and efforts will increase accountability of governments to implement policies, and help establish the roadmap for food environment policy in Canada in the years to come.

Additionally, as governments world wide continue to introduce and evaluate innovated policies directed at improving the food environment, a richer inventory of possible policy actions for consideration will no doubt continue to develop.

# List of Canadian Experts

The experts that contributed to the provincial, territorial and federal assessment of policies and prioritization, and their respective affiliations, are listed below. Note that participants may or may not have lived and worked in the province or territory that they rated. All experts took part on their own behalf, and were not formally representing the organizations to which they belong. Experts were involved in the ratings and scoring for the prioritization exercise. The final preparation of this report and the contents here within are solely the responsibility of the authors, and experts have not explicitly endorsed the contents of this report.

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This study was approved by the University of Toronto Research Ethics Board (REB Application #33249).



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