

Priority Setting and Stakeholder Interactions in Canada

Julie Yome

National Biomonitoring
Health Environments and Consumer Safety Branch
Health Canada



Ten Years of Biomonitoring in Canada

Canadian Health Measures Survey

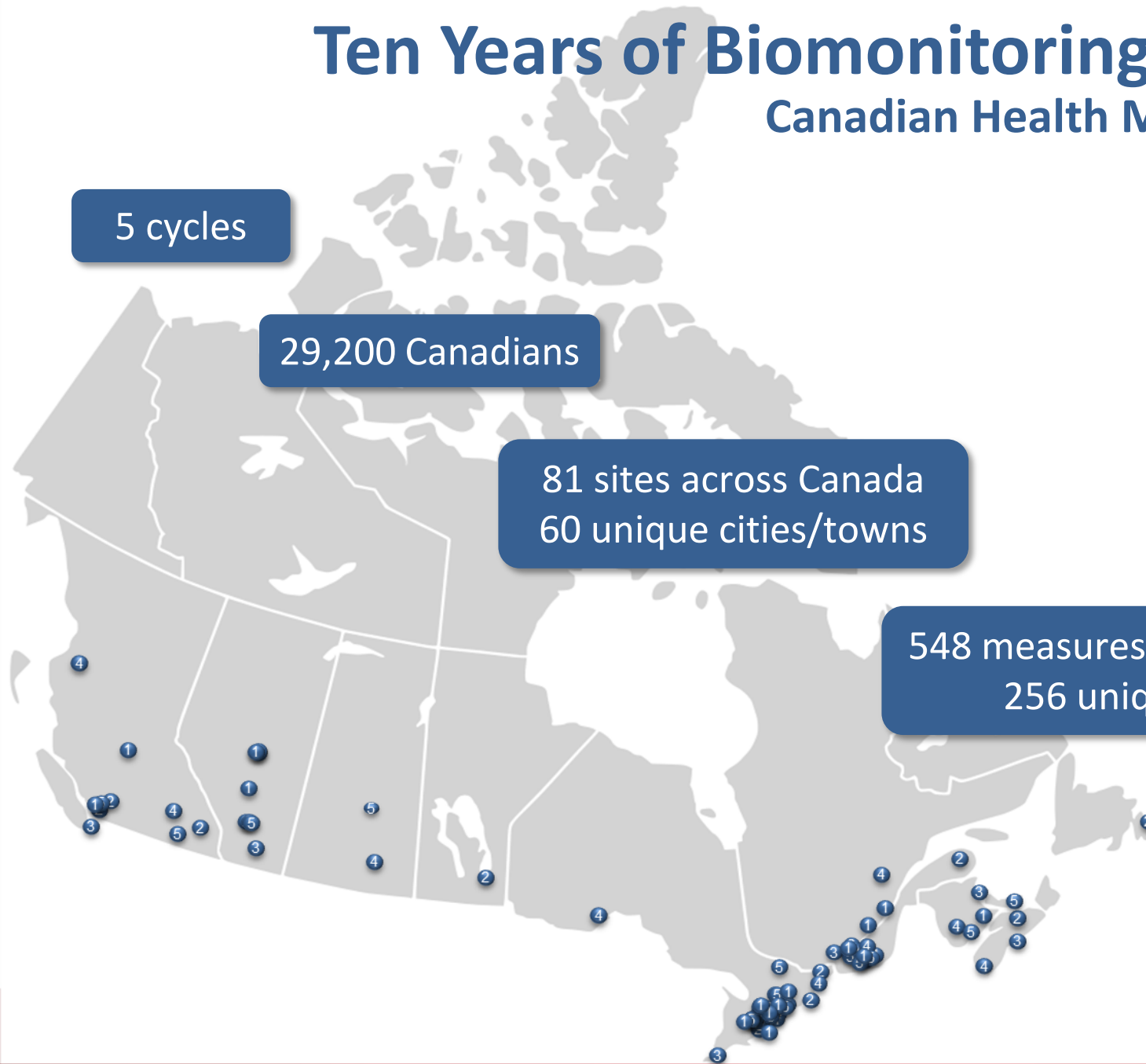
2007-2017

5 cycles

29,200 Canadians

81 sites across Canada
60 unique cities/towns

548 measures in blood and urine
256 unique chemicals



Canadian Health Measures Survey



Partners:
Statistics Canada
Health Canada
Public Health Agency of Canada

- National survey on the general health and lifestyles of Canadians to provide information on chronic and infectious disease, physical fitness, nutrition, and other factors that influence health – includes a **biomonitoring component**

Design

- Cross-sectional survey carried out in 2 year cycles
- Age groups: 3-5, 6-11, 12-19, 20-39, 40-59, 60-79 years
- Nationally representative of 96% of the Canadian population

Household Component

- Interview
- Indoor air (\geq cycle 2) and tap water (\geq cycle 3) sampling

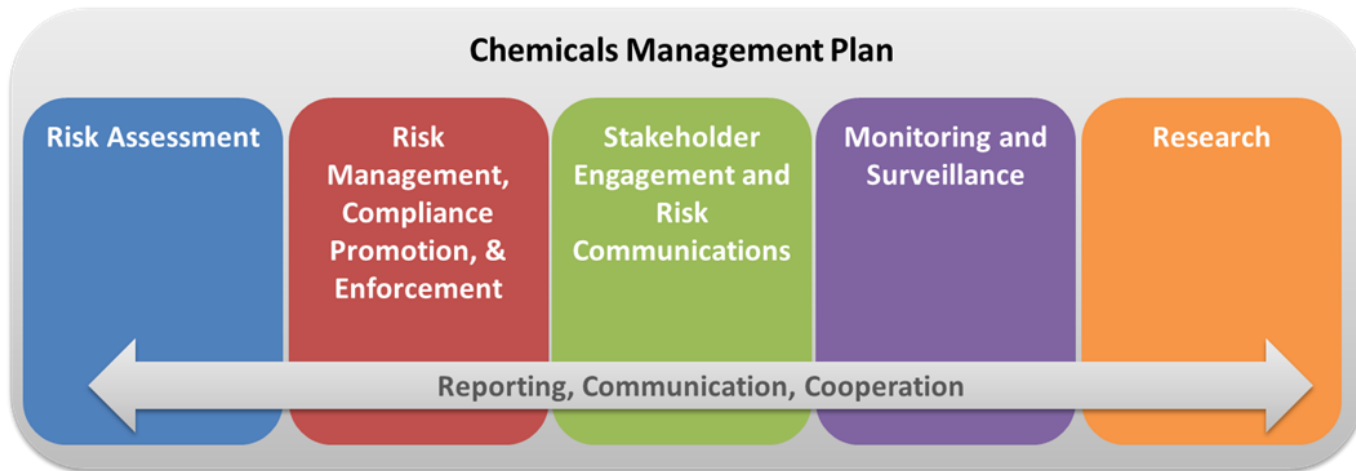


Mobile Examination Centre Component

- Direct physical measures, including blood and urine
- Clinic questionnaire

Stakeholder Interactions

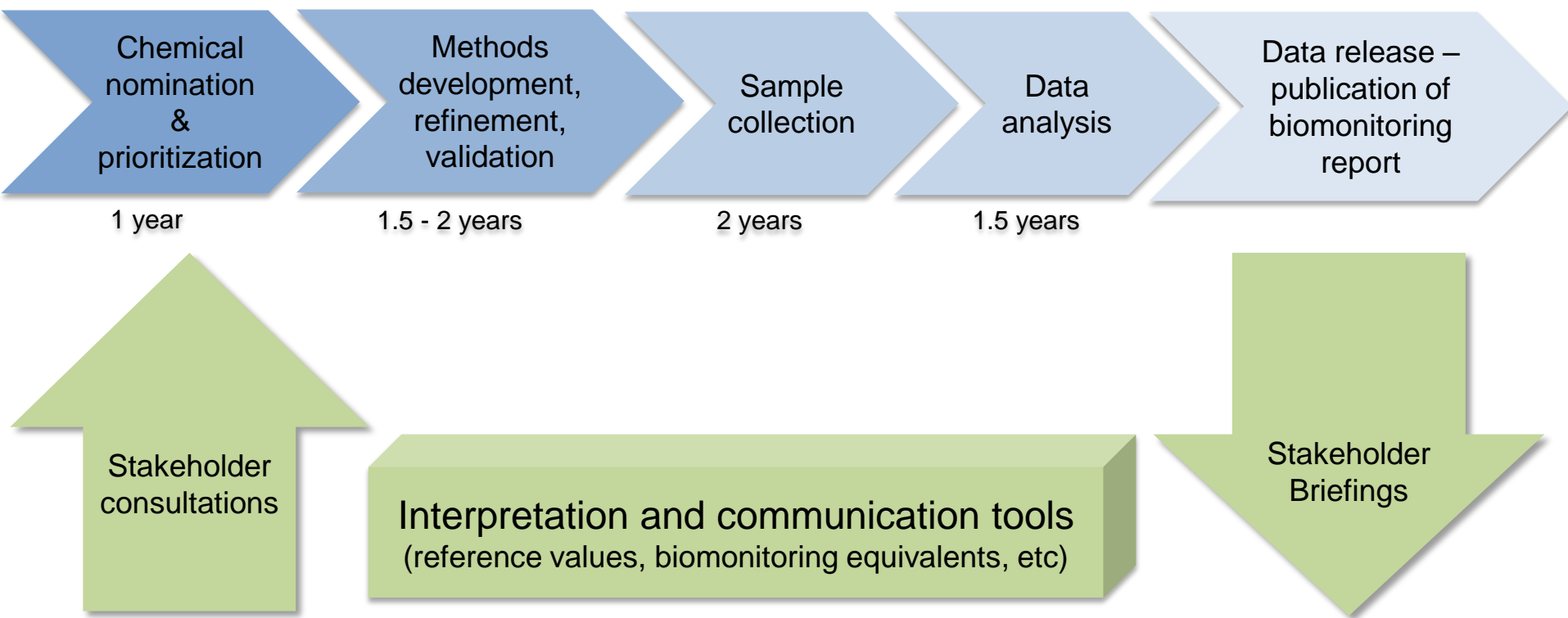
- Stakeholder consultations are an important part of chemicals management in Canada under the Chemicals Management Plan (CMP)



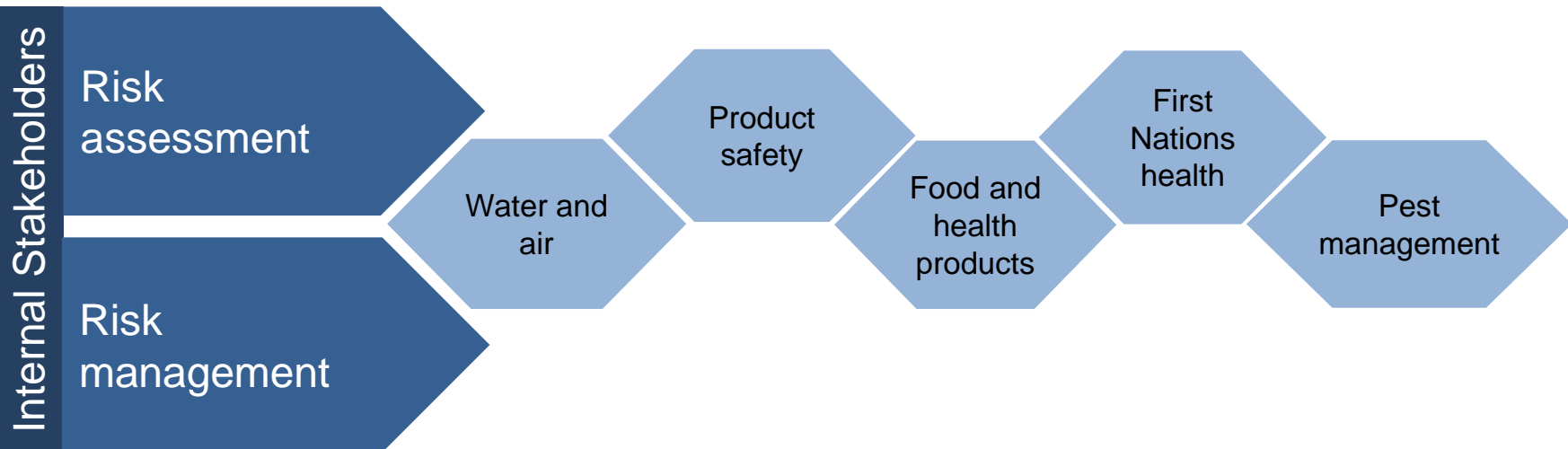
- There is a great deal of interest from stakeholders in the biomonitoring component of the Canadian Health Measures Survey
- High level of engagement when consultations take place

Stakeholder Interactions - Biomonitoring

Each cycle of the Canadian Health Measures Survey



Stakeholders Consulted



Stakeholder Consultations – Chemical Nomination

Cycle 1 2007-2009

Workshop consultation - Canadian and U.S. government, and academic participants from the fields of chemistry, environmental and occupational epidemiology, risk assessment, and public health and policy.

Cycle 2 2010-2011

Questionnaire consultation - Internal and external groups with expertise or interest in human biomonitoring of environmental chemicals. Questionnaire distributed through existing committees, directed mail-outs, and a notice posted on the Government of Canada's Chemical Substances website.

Cycle 3 2012-2013

Informal consultation

- Based on cycle 2 priorities, with additional prioritization criteria.
- Additional consultation with experts within Health Canada to determine if the original rationale for nomination still relevant.
- Prioritized to give precedence to those that are also being monitored in a cycle 3 indoor environment study (indoor air, tap water).

Cycle 4 2014-2015

Cycle 5 2016-2017

Informal consultation

- Same as above, based on ongoing discussions with internal experts and stakeholders.
- Further refinement as new methods available.

Cycle 6 2018-2019

Chemical Nomination and Prioritization

Cycle 7 (2020-2021) and beyond

Stakeholder consultation – electronic questionnaire

1. **New chemicals** to add
 2. **Existing chemicals** to remove or modify
- Rationale for measure – data gap
 - Other survey information useful to inform exposure
 - Biomarkers of exposure
 - Targeted population
 - Methods available

Prioritize candidate chemicals

- Known or suspected health effects
- Evidence of exposure or use in commerce in Canada
- Information needed to inform regulatory activities
- Level of public concern
- Similarity to chemicals monitored in other national and international programs
- Feasibility or ease of collection of the biological specimen
- Availability of appropriate analytical methods, or ability to develop method
- Analytical cost

Negotiate inclusion with Statistics Canada

- Logistical considerations
 - Cost
 - Blood or urine volume
 - Age group

National biomonitoring under the Canadian Health Measures Survey

www.hc-sc.gc.ca/ewh-semt/contaminants/human-humaine/index-eng.php

Ellen Lye

Health Canada

ellen.lye@hc-sc.gc.ca

1(613) 952-3496

Julie Yome

Health Canada

julie.yome@hc-sc.gc.ca

1(613) 957-4188



10 Years of Human Biomonitoring
Canadian Health Measures Survey

— 2007-2017 —

10 ans de biosurveillance humaine
Enquête canadienne sur les mesures de la santé



Northern Contaminants Program

**Programme de lutte contre
les contaminants dans le Nord**