



# A Pan-Canadian Framework on Antimicrobial Resistance

Presentation to the National Farmed Animal Health and Welfare Council  
November 30, 2016

PROTECTING AND EMPOWERING CANADIANS  
TO IMPROVE THEIR HEALTH



# PURPOSE

- To provide an update on the development of a Pan-Canadian framework on Antimicrobial Resistance (AMR)

# Since the last time we were here

## International:

- Increased recognition that AMR requires global action at all levels
- G7 and G20 have identified AMR as a priority at the Leaders level, and by Ministers of Health, Agriculture and Science
- Demonstrating the significant level of concern across the international community, in September 2016 the United Nations General Assembly (UNGA) convened a High Level Meeting on AMR
- Consensus that an effective response requires a coordinated approach to across multiple sectors
- The WHO Global Action Plan on AMR was recognized as the blueprint for action
- Countries called on to:
  - Develop and fund sustainable cross-sectoral national action plans
  - Focus on concrete indicators to measure the effectiveness of interventions
  - Harmonize regulatory frameworks as a mechanism to support R&D

# Since the last time we were here cont'd

## Domestic – Implementation of Federal Action Plan Commitments:

- Workshop held in October 2016 to begin discussion on AMR and antimicrobial use (AMU) surveillance in animal agriculture
- Advancing regulatory and policy changes for medically important veterinary antimicrobials
- Supporting research and innovation, including the launch of a point of care diagnostics initiative, a funding opportunity on transmission dynamics, and funding through investigator-initiated competitions
- Discussions are underway between the CFIA and CVMA to conduct a multi-year project on AMU data collection with practising veterinarians
- F/P/T governments are developing a Pan-Canadian framework on AMR, and action plan

# Development of a Pan-Canadian Framework on AMR

- Across Canada, responsibility for AMR is shared across multiple sectors, all levels of government, and with stakeholders
  - Numerous actions to address AMR are being taken by actions in public health, healthcare, and agriculture and agri-food sectors --- but are often undertaken independently
- An effective Pan-Canadian approach must reflect the multi-sectoral nature of AMR and uses a “One Health” lens that would:
  - Involve all levels of government
  - Be coordinated across human health, agriculture/agri-food sectors and include engagement with external stakeholders
  - Clearly define roles and responsibilities of each sector to ensure accountability
- PHAC is leading efforts to develop a pan-Canadian framework by bringing together federal, provincial and territorial governments as well as key stakeholders from the veterinary and medical communities, industry and academia
- With a Pan-Canadian framework we are trying to:
  - Coordinate and leverage individual actions being taken across sectors;
  - Share information and best practices;
  - Create opportunities for collaboration;
  - Establish a coherent approach that will guide our collective efforts and ensure we are moving together in the same direction

# Pan-Canadian Framework and Action Plan on AMR

- The Pan-Canadian framework will be a high level policy document outlining strategic objectives, outcomes and potential action areas under each of the pillars
- The framework will serve to guide, align collective actions across sectors and is being developed on a faster track --- targeting its completion in May 2017
- Once the framework is complete, will then focus on the development of an action plan to support implementation of the Framework objectives
- The action plan will lay out details of concrete deliverables, measurable outcomes and timeframes
- On a longer track to provide the opportunity for further discussion about what everyone can contribute within their sphere of influence
- Existing good work undertaken in the agriculture and agri-food sector are of value to informing the framework and action plan, for example:
  - NFAHWC's Report on Antimicrobial Stewardship in Food Animals in Canada
  - CVMA's Pan-Canadian Framework for Professional Standards for Veterinarians
  - Chicken Farmers of Canada's 5-year Strategic Plan
  - Research by Beef Cattle Research Council and other industry organizations

# Pan-Canadian Framework on AMR Draft

Surveillance

Stewardship

Infection Prevention & Control

Research and Innovation



## Desired Outcomes

Enhanced understanding of how AMR spreads in human and animal settings

Comprehensive picture of AMR and AMU in Canada

Effectiveness of current antimicrobial drugs of importance to humans maintained

Health professionals and the public adopt appropriate antimicrobial use practices

Reduced infections in health care and the community

Better tools and approaches to detect and treat drug resistant infections in humans and animals

## Potential Actions

Support the development of a centralized, harmonized database platform to integrate human and animal health data

Identify priority organisms that contribute to AMR in animals and humans

Enhance human AMR/AMU data collection in community-based settings

Strengthen the promotion of appropriate AMU in human and animal medicine

Develop awareness, education and training to improve prescribing practices in human and veterinary settings

Strengthen regulatory oversight and framework on veterinary medicines and medicated feeds

Increase awareness and understanding of AMR, and the role that infection prevention and control play in limiting the spread of infectious agents

Improve management practices to reduce the need for antimicrobials

Increase awareness and understanding of the importance of biosecurity measures to limit the spread of infectious agents and the need for antimicrobial use

Support the development of rapid diagnostics that guide the choice of treatment and therapeutic use

Support clinical trials for drugs that are already on the market, and/or don't have other support

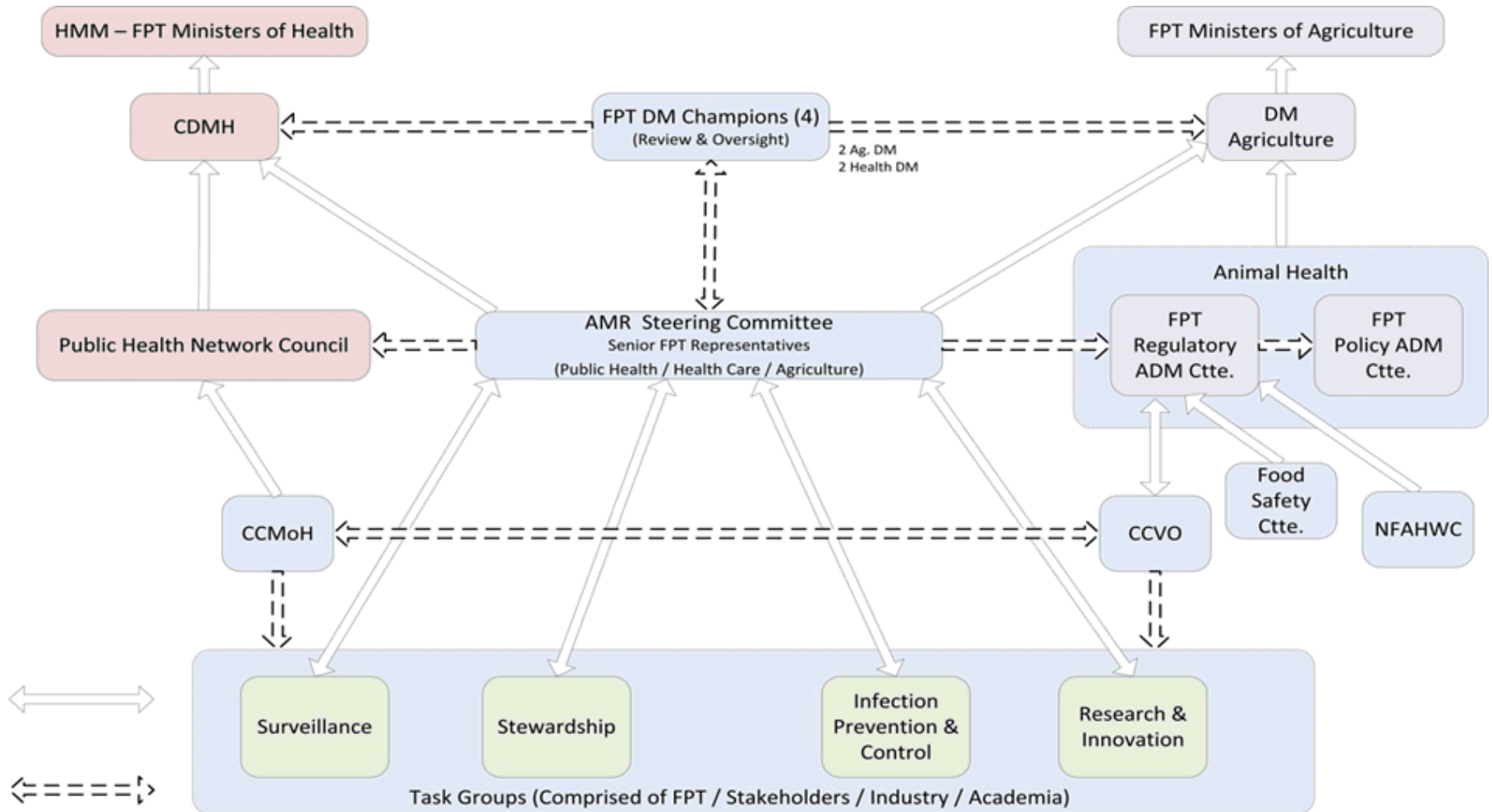
Explore alternative and adjuvants to antibiotics as a made in Canada approach that addresses both veterinary and human medicine

# Governance Structure for Pan-Canadian Framework

- AMR is a complex issue involving multiple players and actors across sectors
- An F/P/T dedicated AMR Governance Structure is bringing together human health, animal health, and agriculture to develop the framework and action plan
- The structure provides a systematic, coordinated approach in working together and moving in the same direction to mitigate risks of AMR



# F/P/T Governance Model on AMR



# F/P/T AMR Task Groups

- Task groups established for each component of the framework
- Task Groups are composed of subject matter experts from industry, academia, and non-governmental organizations from both human and animal health sectors, and were nominated by F/P/T governments
  - Food producer organizations are represented on each of the groups
- **Task Group members act as AMR champions in reaching across to colleagues to engage them in the work of their group**
- Task Groups will be responsible for:
  - Identifying existing best practices, expertise, tools, resources, while also identifying gaps and opportunities
  - Providing the F/P/T AMR Steering Committee with advice and recommendations for health care (hospital and community settings) and animal health in the veterinary and on-farm/agri-food settings

# Opportunities to engage on the Pan-Canadian Framework

- To function effectively, membership of Task Groups is limited
  - Task Group members will act as AMR champions in reaching across to colleagues to engage them in the work of their group
    - For example, the Stewardship Task Group reached out to the NFAHWC to present its *Antimicrobial Stewardship in Food Animals in Canada* Report
    - The Research and Innovation Task Group connected with various livestock stakeholders (beef, pork, chicken, dairy etc) and reviewed research documents to inform their work
- Conducted an online survey, and are undertaking consultative interviews with human and animal health stakeholders to seek information on framework components
  - The General Manager of the Cattlemen's Association and the Co-Chair of the NFAHWC was a participant to these engagement initiatives
- In addition to this NFAHWC Meeting, the Public Health Agency of Canada senior officials engage stakeholders at key events:
  - Canadian Meat Council Meeting (September 2016)
  - Canadian Veterinary Medical Association Council Meeting (November 2016)
  - Multi-sectoral Antimicrobial Stewardship Expert Forum (November 2016) (hosted by CIHR)
  - Alberta One Health Antimicrobial Workshop (November 2016)

# Things for NFAHWC to Consider

- From your perspective what are the key points for inclusion in the framework and action plan?
- What could you contribute as actionable deliverables under each of the framework components for the action plan?
- What actions are the Council expect to see as outcomes of the Pan-Canadian framework and action plan?
- How can the Council support work on AMR within their own sector for sustainable results when the framework and action plan are completed?
- How can the Council interface with the other sectors on the framework and action plan for sustainable results?

# Role of Key Federal Departments Engaged in Pan-Canadian Framework on AMR

## Health Portfolio

- **Public Health Agency of Canada** is providing national leadership and works with partners on the public health aspects of antimicrobial resistance, e.g. surveillance, laboratory analysis, infectious disease outbreaks, awareness and public health guidance development
- **Health Canada** regulates the approval of antimicrobial drugs for humans and animals, and sets policies and standards related to the safety and nutrition of the food supply
- **Canadian Institutes of Health Research** supports antimicrobial research and collaborates internationally on AMR research projects
- **Canadian Food Inspection Agency** enforces regulatory requirements for the health and safety of animals and the food supply, and the development of national biosecurity standards

## Agriculture and Agri-Food

- Agriculture and Agri-Food Canada supports the development and adoption of industry-led assurance systems, and monitors trade and market access activities