

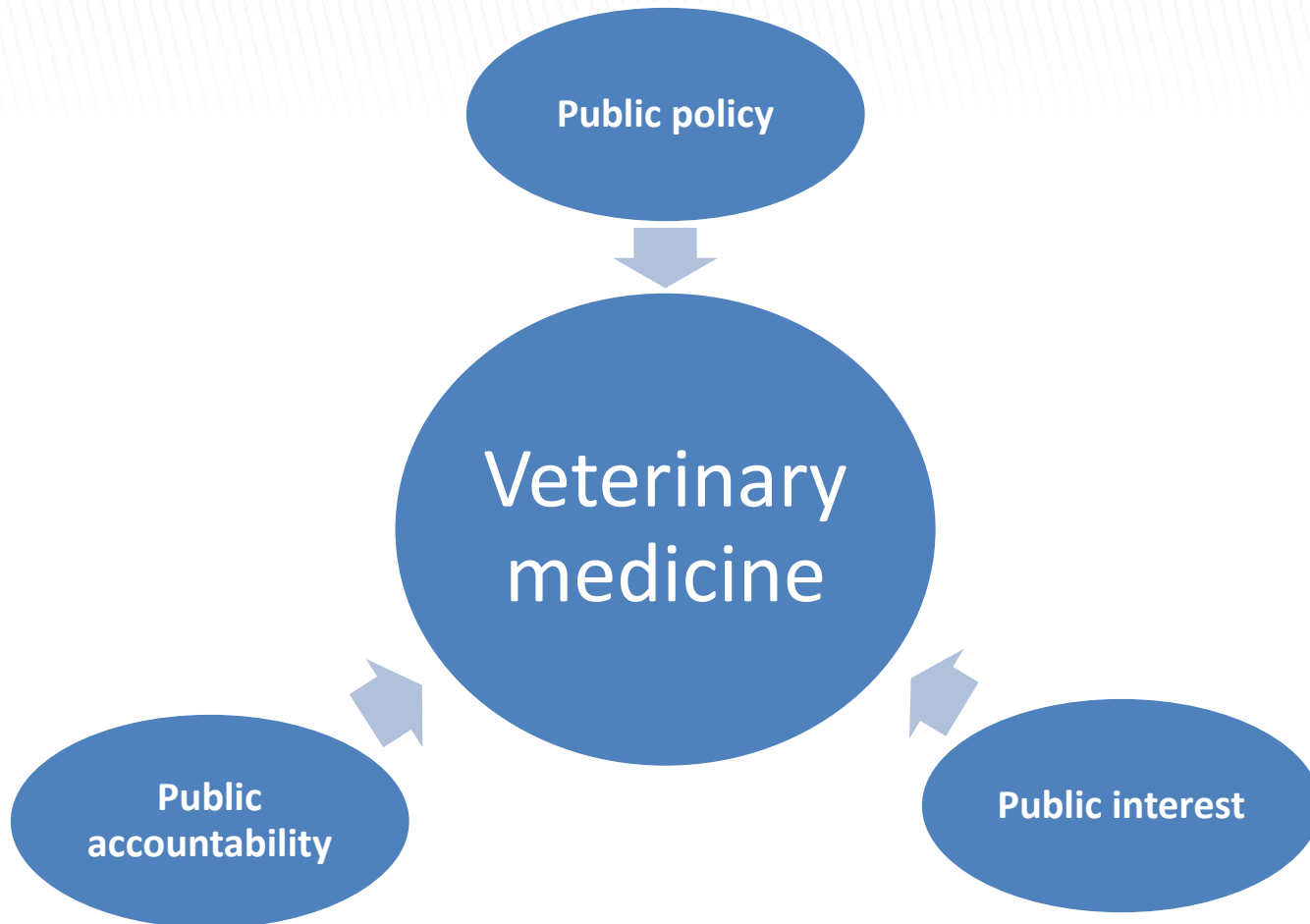
Antimicrobial Stewardship and Veterinary Medicine in Ontario

- A Beginning •



This project was funded in part through *Growing Forward 2 (GF2)*, a federal-provincial-territorial initiative. The Agricultural Adaptation Council assists in the delivery of *GF2* in Ontario.

Role of a Regulatory College in 2015





CVO Strategic Plan 2014 - 2017

Mission:

To guide, govern and inspire excellence in the profession through partnerships with veterinarians and the public in the service of society

Objectives:

Inspire quality practice through assuring competence

*Create a culture of collaboration by engaging all stakeholders in
veterinary self regulation*

***Advance One Health stewardship enabling public health initiatives
within veterinary medicine***

*Lead legislative reform of the Veterinarians Act that enhances
regulatory transparency, flexibility and innovation*

Growing Forward 2

- encourage innovation
- assist with projects including animal health and assurance systems, encompassing food safety, traceability and animal welfare

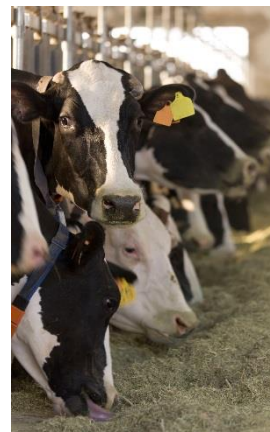


Objectives of Project

- an understanding of the current antimicrobial prescribing practises of food animal veterinarians in Ontario, analyzed against the recommended antimicrobial prudent use protocol (CVMA guidelines),
- the identification of key challenges for veterinarians in prescribing antimicrobials to food animals using the national antimicrobial prudent use protocol, and
- a set of recommendations aimed at creating food animal antimicrobial prescription alignment within the profession in Ontario and setting the stage for antimicrobial stewardship at the practice and system level.

Six Commodity Groups

- Beef
 - Dairy
 - Poultry
 - Sheep/Goats
 - Swine
 - Veal
- 750 veterinarians



Stages

- Background Review
 - publications, literature, guidelines, policies
- Survey
- Facilitated discussions
- Consultation
 - veterinarians
 - broader stakeholder group





Prescribing Practises Identified

- Include Category I and II but majority Category II and III

Most Commonly Used

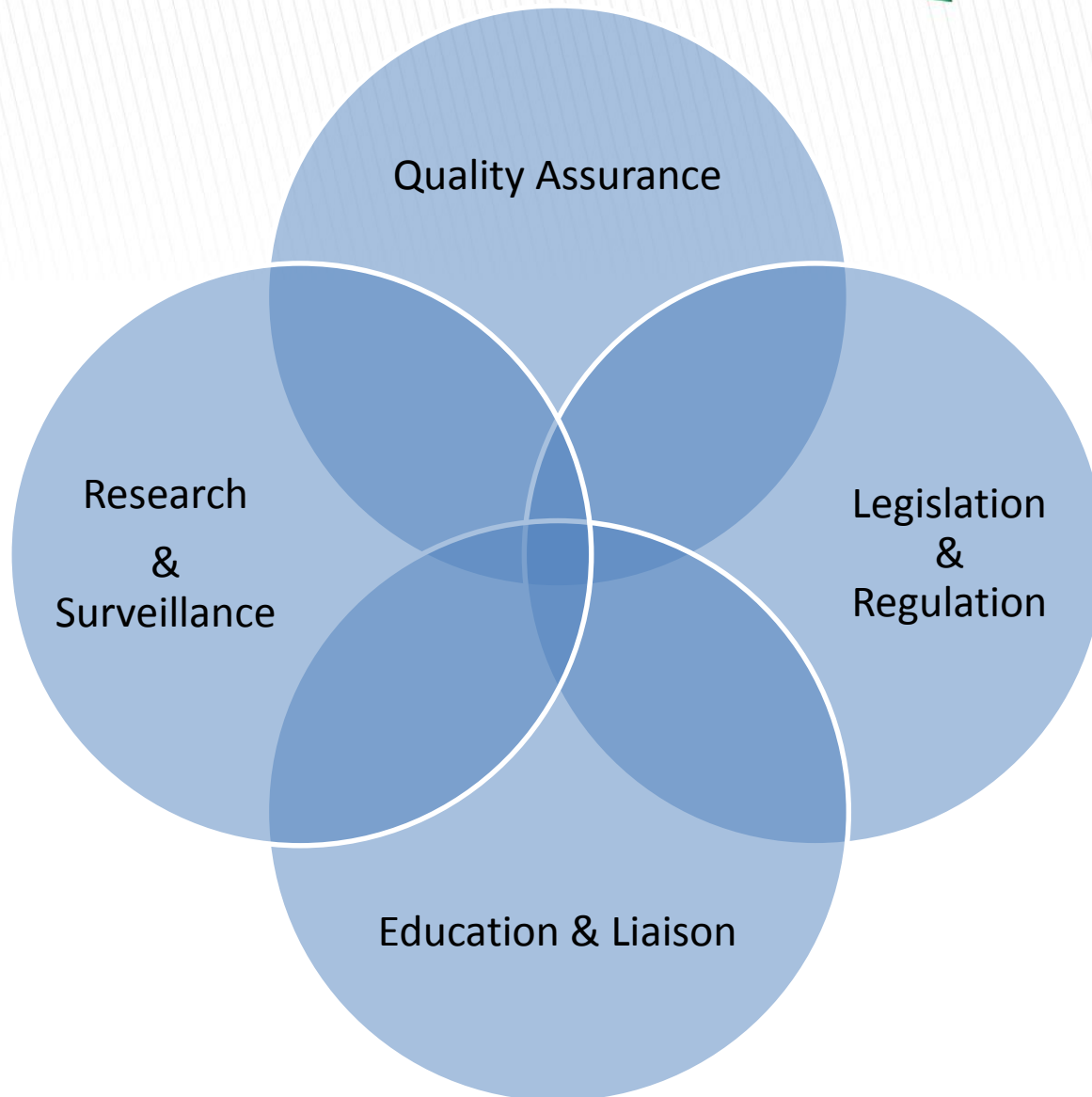
| Antibiotic | Category | Beef % | Dairy % | Poultry % | Sheep/Goats % | Swine % | Veal % |
|---------------|----------|--------|---------|-----------|---------------|---------|--------|
| Penicillins | II | 18 | 32 | 41 | 26 | 41 | 10 |
| Tetracyclines | III | 25 | 8 | 20 | 25 | 30 | 21 |
| TMS | III | 9 | 26 | 12 | 18 | 7 | 5 |
| Macrolides | II | 19 | 1 | 0 | 8 | 9 | 32 |
| Florfenicol | II | 22 | 1 | 0 | 11 | 2 | 21 |
| Ceftiofur | I | 4 | 29 | 0 | 10 | 11 | 5 |
| Bacitracin | III | 0 | 0 | 16 | 0 | 0 | 0 |

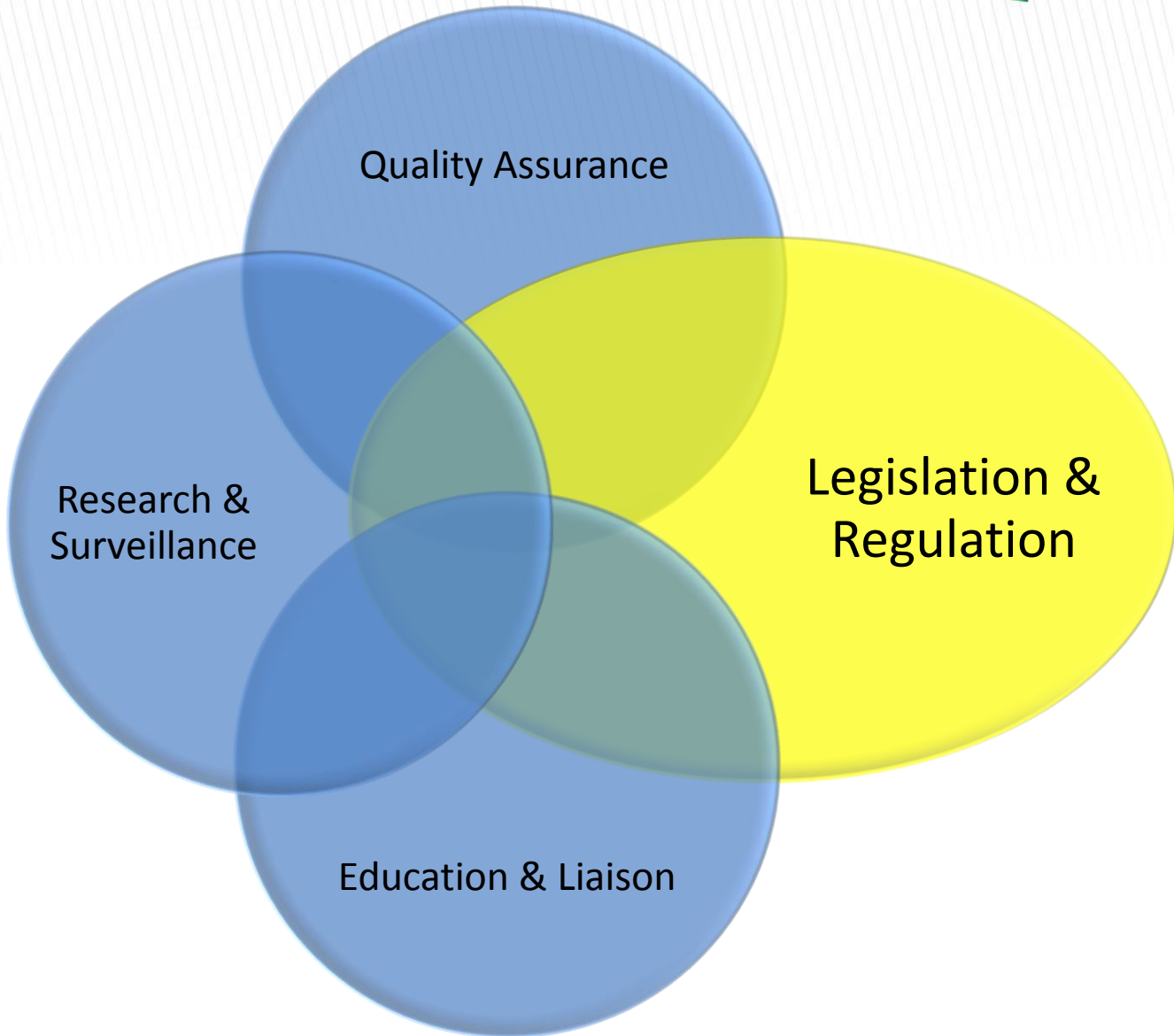
Suggested Actions

Fall into four themes

- Not a consensus
- Hard to gauge level of support



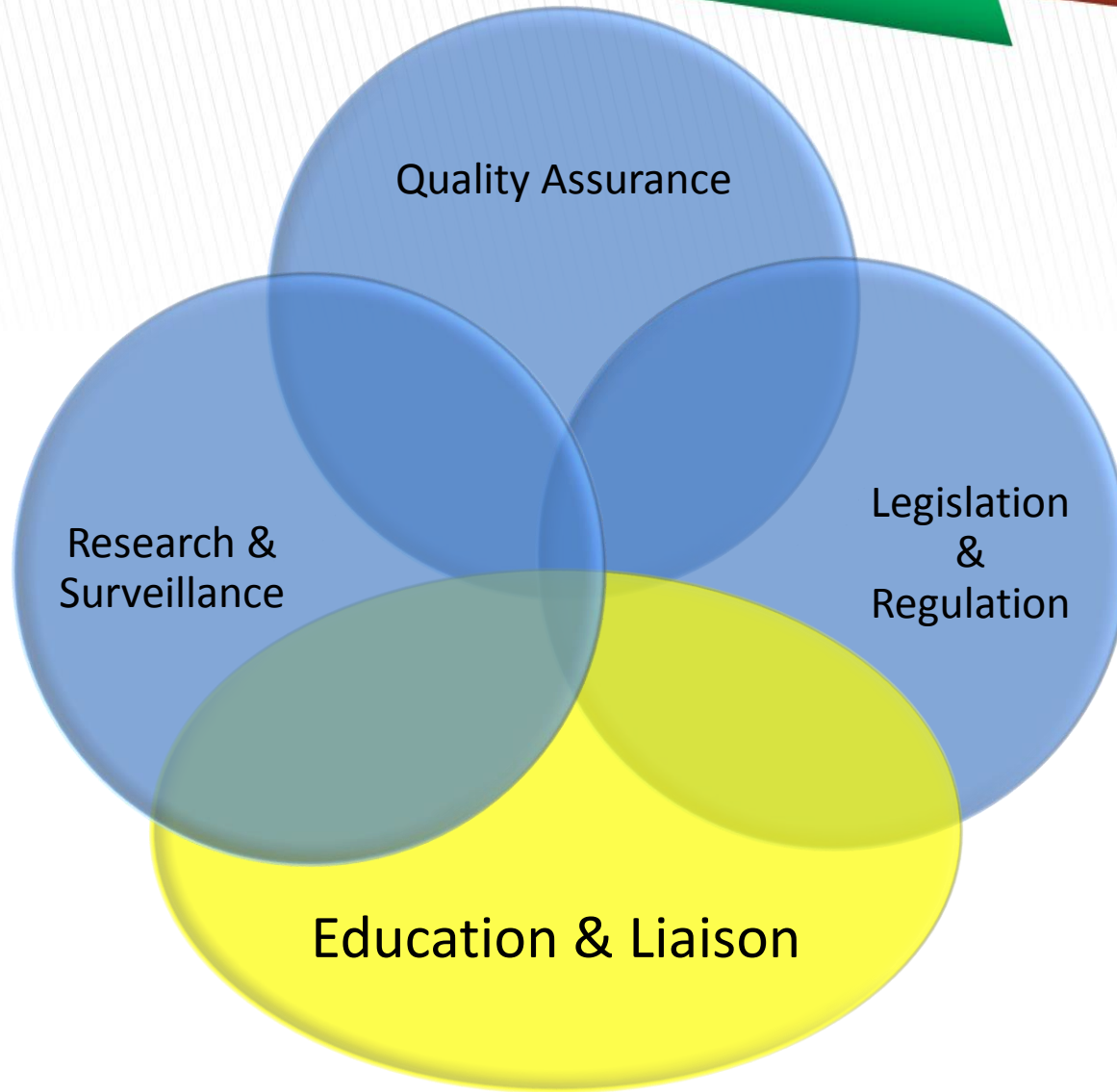




Legislation & Regulation

- own use importation, over-the-counter access and active pharmaceutical ingredients
- veterinary prescription only
- national standards
- remove growth/production label claims
- mandate overall reduction





Quality Assurance

Research &
Surveillance

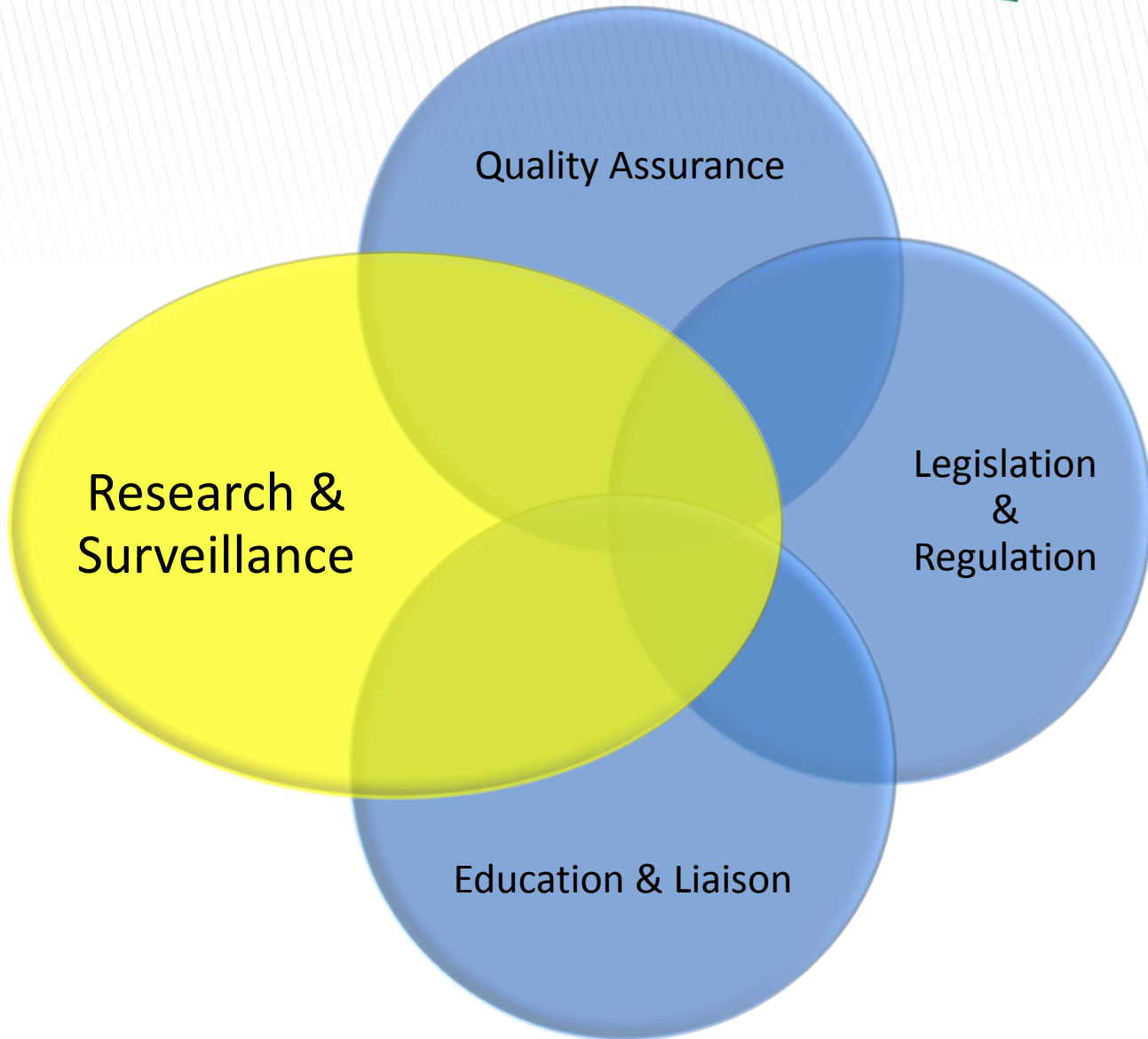
Legislation
&
Regulation

Education & Liaison

Education & Liaison: Components

- share information amongst groups
- education is key
- veterinarians willing to assume teaching role
- formal and regular meetings
- consistent terminology





Quality Assurance

Research &
Surveillance

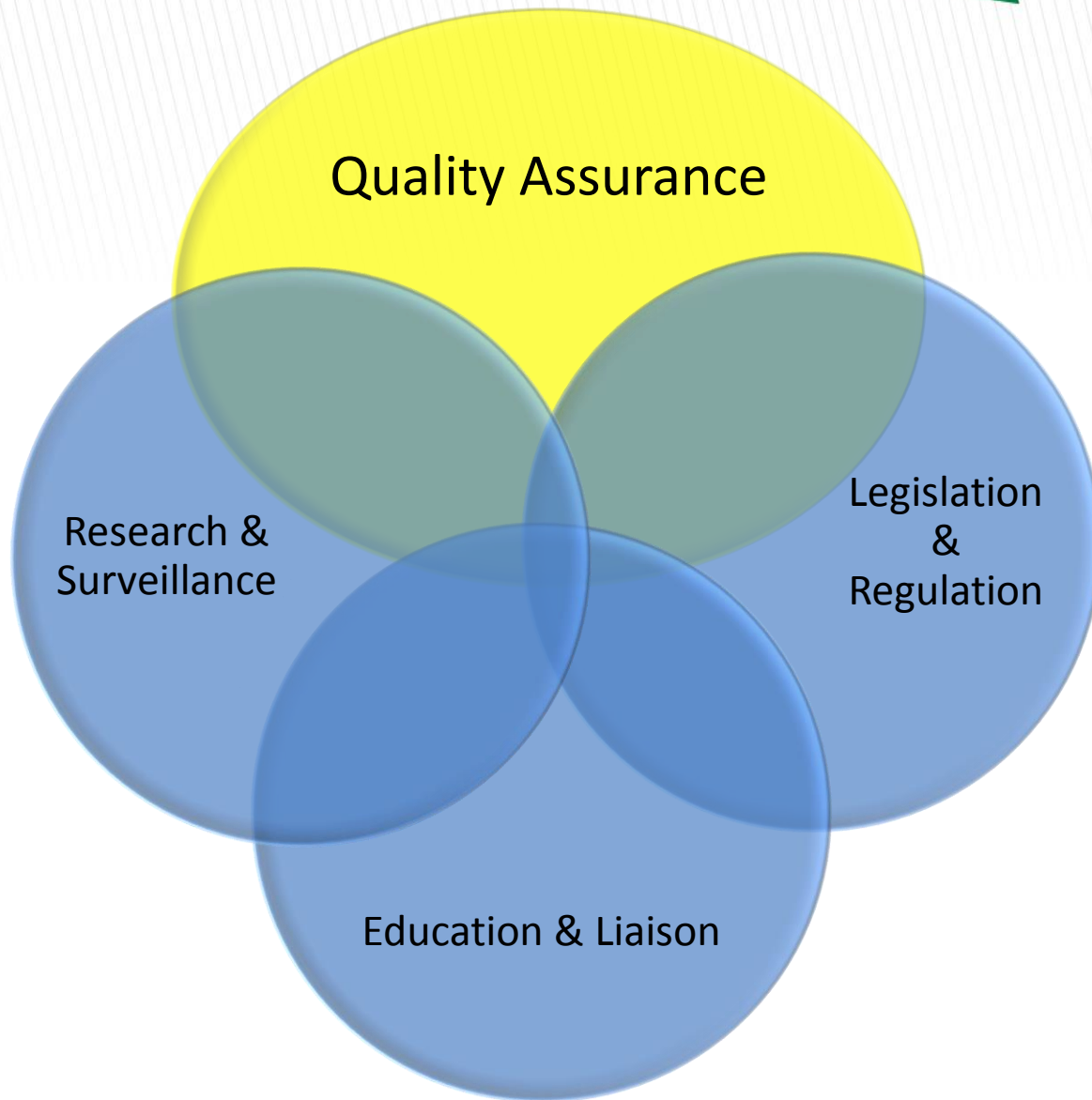
Legislation
&
Regulation

Education & Liaison

Research & Surveillance

- coordinated, integrated research program
- surveillance of antibiotic use and resistance (enhance CIPARS)
- evidence-based guidance
- share data
- research impacts on animal welfare





Quality Assurance

- Producers
- Veterinarians



Quality Assurance

- Focus on VCPR, established protocols, and mandatory continuing education



Veterinary Stewardship





Consultation

- Overall support and agreement

But ...



Next Steps

- need to probe suggested actions
 - realistic
 - practical
 - doable
- prioritize
- assess potential impact
- achieve consensus amongst the veterinary community

Next Steps

- Council approved direction to seek GF2 funding for a Phase 2 initiative
 - Focus to include producers



Full Report and Webinar posted on www.cvo.org



**Antibiotic Use in Food-Producing Animals in Ontario:
A Study of the Current Practises and Perceptions
of Ontario Veterinarians**



FINAL REPORT

A College of Veterinarians of Ontario
Growing Forward 2 Project



Thank you!