



Emergency Management Plan and Control of Poultry Infectious Diseases in Quebec

Presentation to NFAHWC

**November 28th, 2018
Ottawa, Ontario**



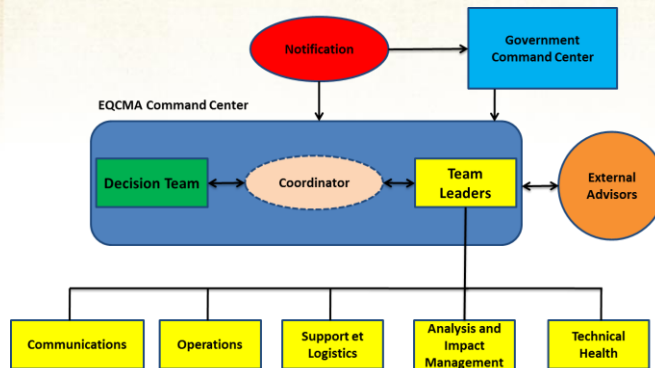
Presentation plan

- **How EQCMA started**
- **EQCMA's structure, mission and mandate**
- **Targeted diseases for intervention**
- **Intervention tools**
- **Example of disease management**
- **Conclusion**



How did it start?

- Triggering event: Highly Pathogenic Avian Influenza outbreak in British Columbia in 2004
- Early 2005 – EQCMA start-up
- 2005-2008 – Development of Emergency Management Plan (EMP)



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Targeted Diseases for EMP

Federally reportable diseases:

- Avian influenza
 - Highly pathogenic
 - Low pathogenic H5 or H7 strains
- Newcastle Disease (highly pathogenic)
- Pullorum Disease
- Fowl Typhoid



How did we go about developing our EMP?

1. Identification of a coordinator
2. Mobilization of volunteers (40-50)
3. Defining a governance structure
4. Identifying reference documentation
5. Build the EMP step by step...



Reference Documentation

- **First: Reference documentation**
 - Health of Animals Regulations
 - CFIA Functional Plan
 - CFIA Notifiable Avian Influenza Hazard Specific Plan
 - Other provincial poultry industry sector plans
- **Second: Who is doing what?**
 - EQCMA's document on government (CFIA-MAPAQ)
 - industry's shared and respective responsibilities



Simulations

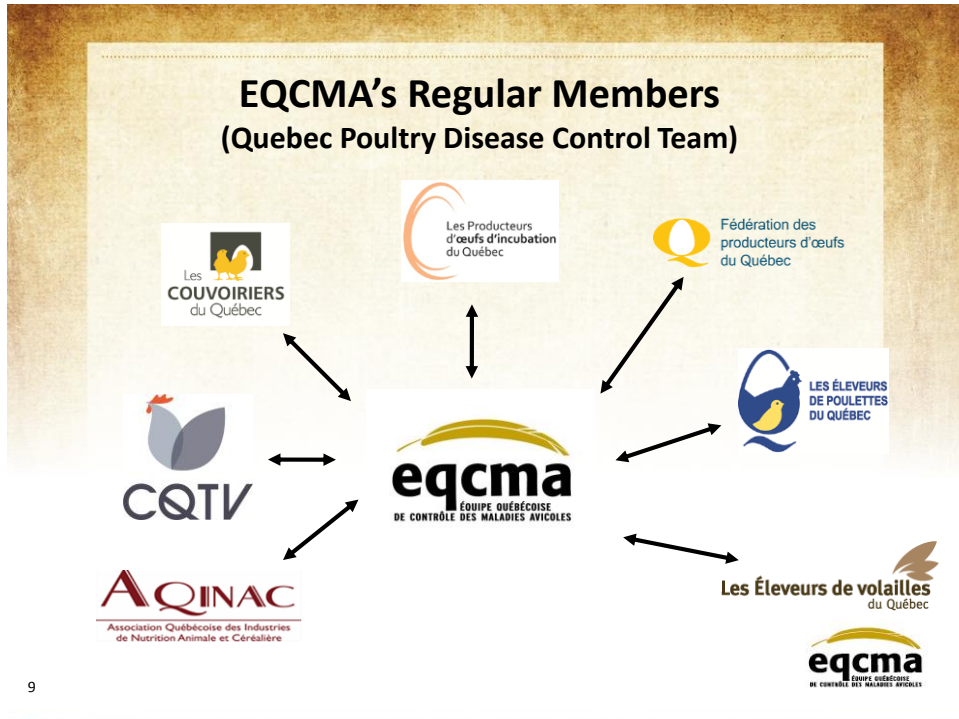
- **3 Table top simulations**
- **1 Field simulation**



A Formal Structure

- **EQCMA registered as a non-profit organisation on February 6th, 2009**
- **Foundation meeting on April 17th, 2009**
- **Office located in Longueuil (UPA Headquarters)**
- **Coordinator (2008) + project manager (2015)(1 FTE)**





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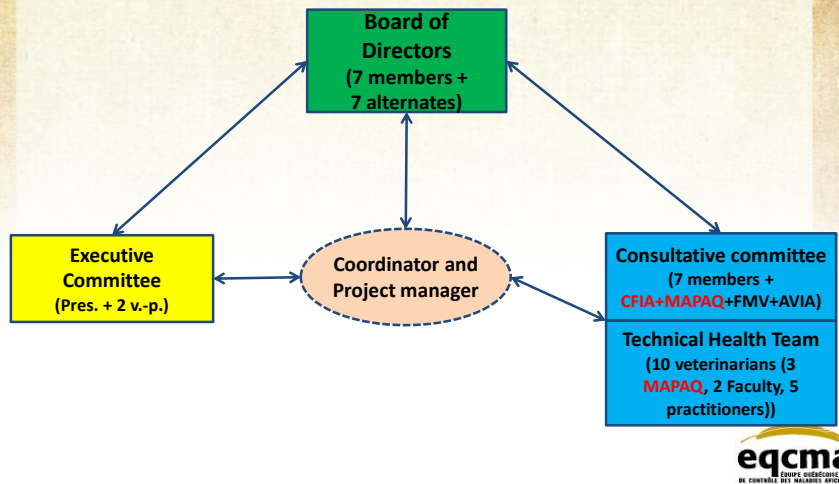
50 associate members...

(Exterminators, pharmaceuticals, turkey hatcheries, disinfectant distributors, poultry catchers and transporters, C&D providers, renderers, etc.)

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Decision Structure



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Mission

To work in collaboration with government authorities and poultry industry stakeholders on:

- prevention,
- preparation and
- intervention

against targeted poultry diseases to minimize their potential impact on the Quebec poultry sector.



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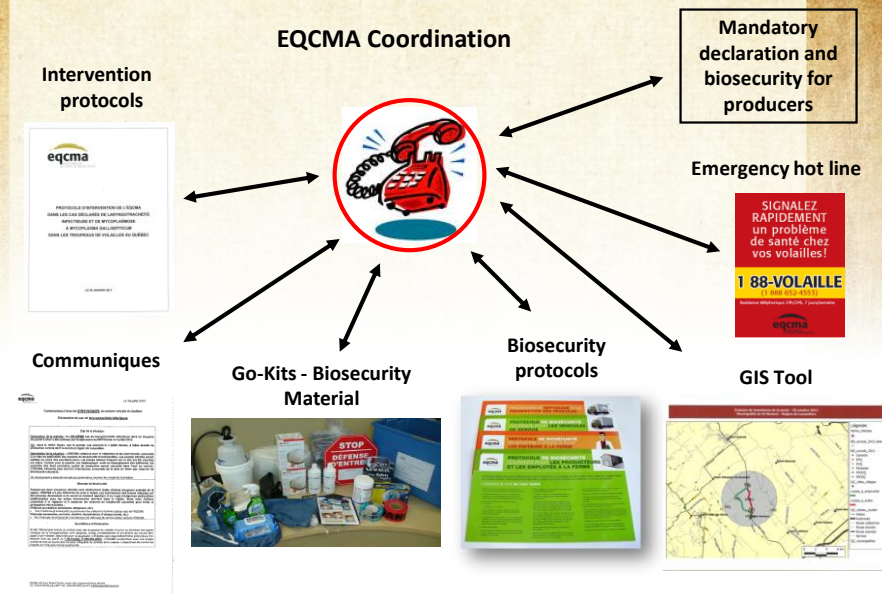
Targeted Diseases

- **Federally Reportable Diseases**
 - Highly pathogenic avian influenza and low pathogenic H5 or H7 strains
 - Newcastle Disease (highly pathogenic)
 - Pullorum Disease
 - Fowl Typhoid
- **Other diseases with economical impact (since 2010)**
 - **Infectious Laryngotracheitis (ILT)**
 - ***Mycoplasma gallisepticum* (MG)**



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Our intervention tools against the targeted diseases



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New tools to face disease outbreaks

- CO₂ euthanasia equipment for poultry flocks in barns (2017)



- Bigger volume of biosecurity material (2019)
- Indemnifications program (insurance) for the 6 targeted diseases (2019)

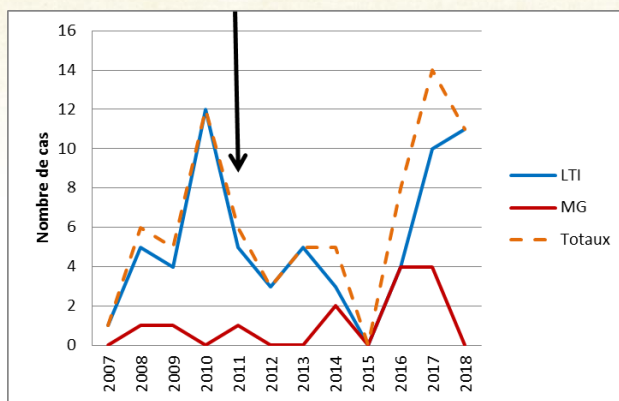


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Disease Management Challenges

Number of diagnosed ILT and MG cases between January 2007 and November 2018

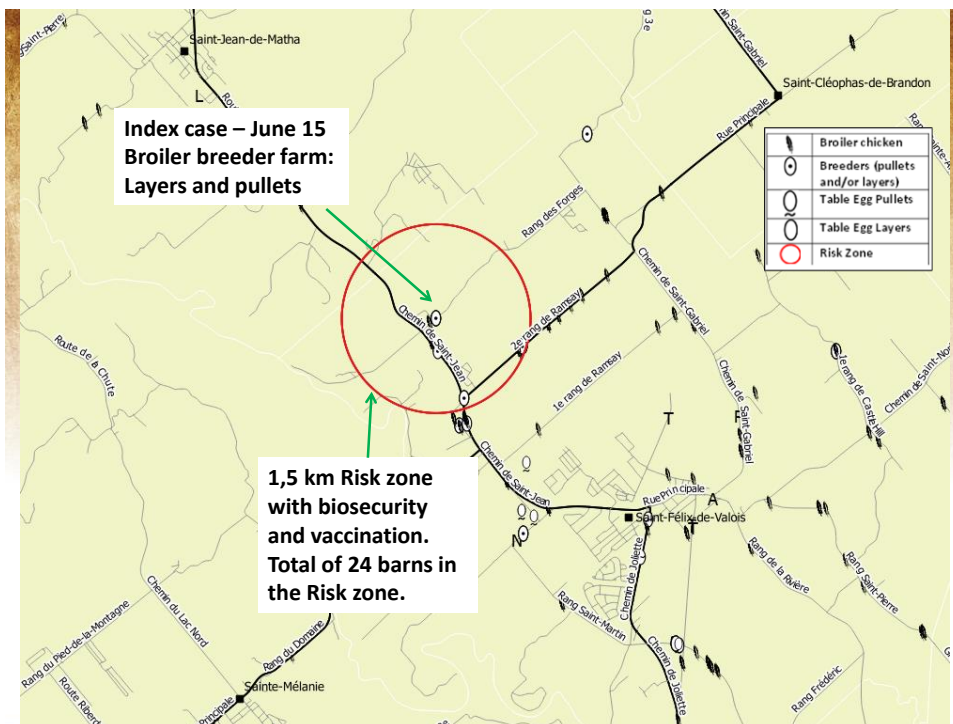
EQCMA

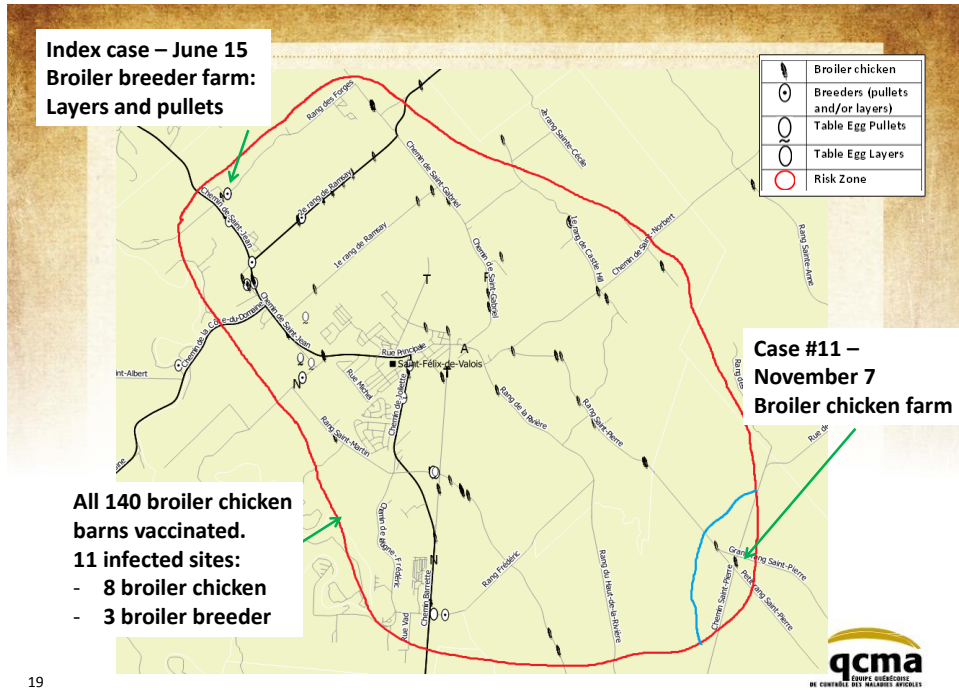


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Example of an outbreak: ILT in St-Félix-de-Valois June 15th 2018 to

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EQCMA's Role

- Intervention coordination based on ILT and MG Protocol
- Consultation on an as needed basis of Veterinarian Committee members and other veterinary practitioners involved in managing infected sites in collaboration with MAPAQ
- Communications to producers and industry partners (about 275 recipients including associations)
- Follow-up on biosecurity measures with all product and service providers to infected farms

EQCMA
 ME QUINQUE RÉGIONS
 DE COMPTABLE DES MALADIES AVIQUES

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Veterinarian Committee Role

- Same members as MAPAQ Poultry Vet Network
- Advisory role to EQCMA Board
- Lead the development of the ILT and MG Intervention Protocol
- Advisory role during disease outbreaks or emerging diseases (eg. vaccination strategy, risk zone)

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MAPAQ's Role

- Confirmation and communication of diagnostics to veterinarians and EQCMA
- Coordinate conference calls of Avian Veterinary Network and other practitioners
- Potential collaboration or intervention related to backyard flocks upon industry request
 - 2018 St-Felix outbreak
 - Voluntary vaccination offered
 - 30 backyard flocks vaccinated on site
 - Shared cost between EQCMA and MAPAQ

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Producer Associations' Role

- Follow-up and validation of on-farm biosecurity to be applied on infected premises by affected producers (regulations enforcement)
- To communicate with producers in the risk zone to promote rigorous implementation of routine or enhanced biosecurity and vaccination measures in consultation with EQCMA
- Collaborate with EQCMA on on-going and arising issues (e.g. voluntary preventive slaughter, meetings of producer and industry partners, protocol reviews)



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Industry Stakeholders' Role

- Forward EQCMA's communications to members and field personnel and assist in reinforcing EQCMA's recommendations among producers (biosecurity, vaccination, etc.)
- Support EQCMA on specific issues:
 - Abattoirs: slaughter of planned out-of-province infected flocks, preventive slaughter and oversight of enhanced biosecurity by catching crews and transporters, information on planned dates of slaughter of infected/vaccinated flocks
 - Hatcheries: share information on status of vaccination of flocks on a barn basis in the risk zone and placement dates
- Collaborate with EQCMA on on-going and arising issues (e.g. biosecurity protocols, meetings of producer and industry partners)



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Other Diseases of Interest

- **Bronchitis – Delmarva strains (2017-2018)**
 - «False Layer Syndrome»
- ***Mycoplasma synoviae***
 - Prevalence study – seeking funding assistance
- **Reovirus (2017)**



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Conclusion

- **EQCMA: small organization with a mandate that has quickly evolved in disease prevention and control**
- **Strong support and recognition from members, governments and industry partners**
- **Consolidated partnership EQCMA-ACIA-MAPAQ:**
 - Recognition of respective mandate and competencies
 - Complementarity of intervention measures
 - On-going exchanges



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QUESTIONS?

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