



هيئة أبوظبي للزراعة والسلامة الغذائية
ABU DHABI AGRICULTURE AND FOOD
SAFETY AUTHORITY

ADAFSA's One Health approach in controlling & monitoring zoonotic diseases (Brucellosis)

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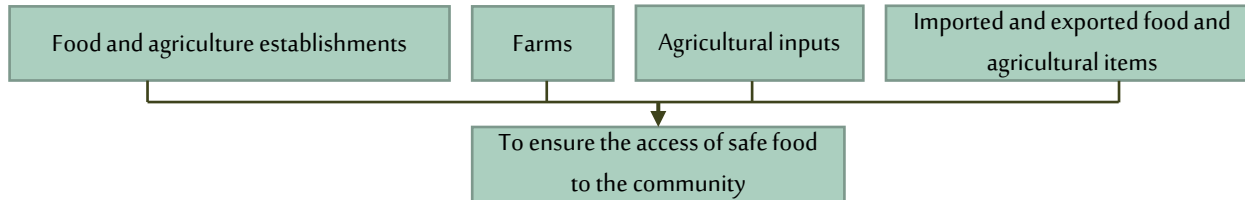
Abu Dhabi Agriculture and Food Safety Authority (ADAFSA)

The local authority in charge of **agriculture, food safety, food security** and **biosecurity** in the Emirate of Abu Dhabi.

ADAFSA aims:

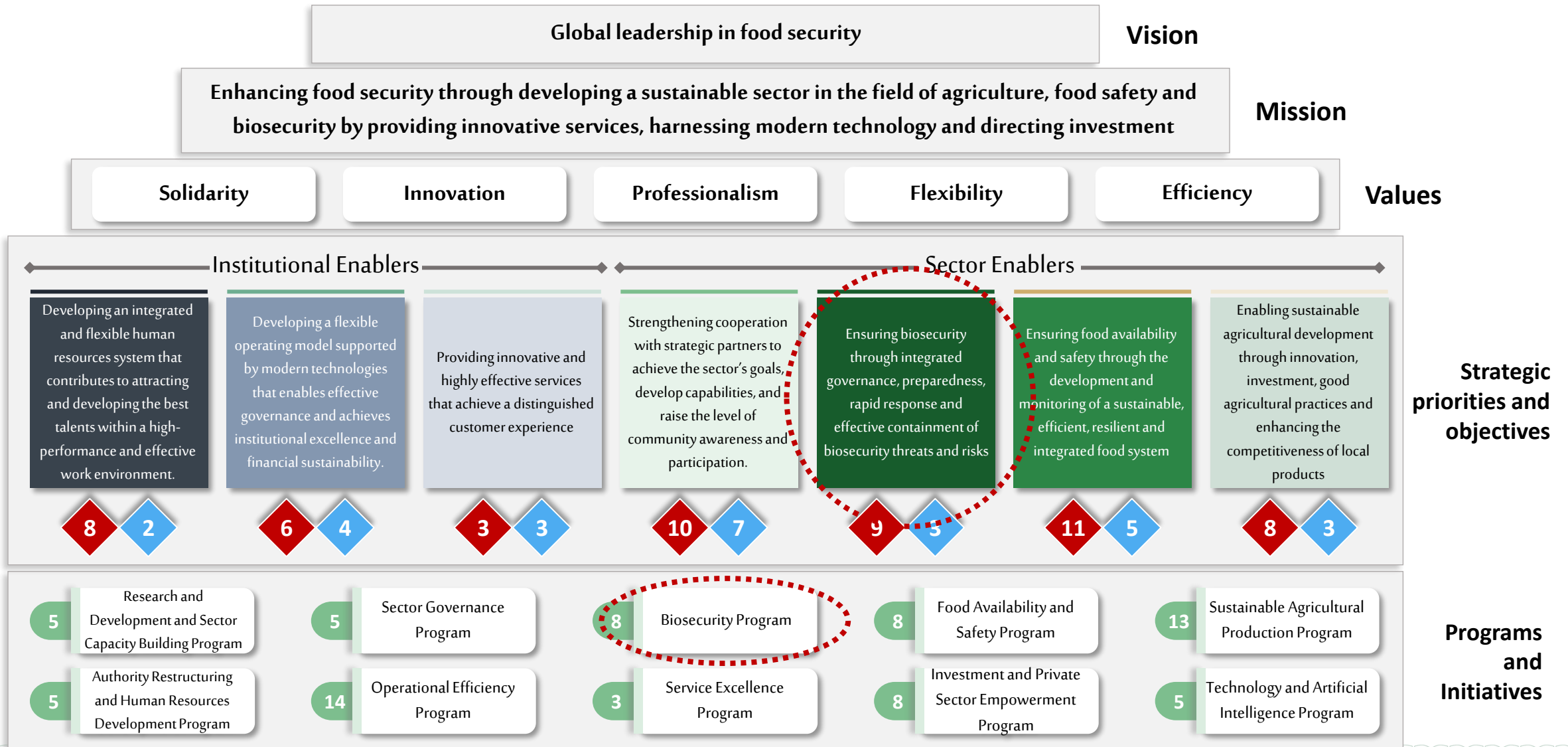
- To develop a sustainable agriculture and food sector and protect the health of animals and plants
- To enhance the biosecurity and achieve food security

ADAFSA is assigned to **control** and **inspect** the Emirate's



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ADAFSA's Strategic Objectives



Outcomes of the One Health Approach

ADAFSA aims to implement roadmap to guide the establishment of the One Health program in Abu Dhabi by outlining specific outcomes, as well as the actions required to achieve them

Building a Comprehensive One Health Approach in Abu Dhabi

The One Health approach recognizes the interconnections between human, animal, and environmental health, seeking to balance and optimize health outcomes for all. We focus on developing the necessary foundations to ensure that all stakeholders involved in the One Health Program are fully equipped to carry out their duties effectively. This will result in a cross-functional integration system with relevant stakeholders, such as government agencies, healthcare providers, and community organizations, working seamlessly together towards the common goal of improving public health outcomes.

Outcomes of the Abu Dhabi One Health Program

Capacity Building, Integration, and Sharing Knowledge Across Sectors

To improve and harmonize mechanisms, tools and capacities for a competent One Health workforce supported by an enabling environment that can sustain implementation of the One Health approach

Improved Communication and Advocacy

To enhance stakeholder's awareness and understanding of One Health concepts and cultivate commitment and support for the One Health program



Clear and Coordinated Governance

To have a functional and well coordinated One Health program at all levels governed by a dedicated, multi-sectoral body that provides oversight, direction and alignment of One Health activities

Strengthened Cross-sectoral Disease Surveillance, Preparedness and Response

To strengthen Abu Dhabi's surveillance capacity and preparedness and improve the ability to respond to threats at the animal, human, and environmental interface through a cross-sectoral One health approach

Biosecurity Program initiatives emphasize One Health Concept in Abu Dhabi Emirates



Abu Dhabi One Health Steering Committee

14

Tadweer QCC ADCDA ADCMC ADPHC DMT DOH EAD ICP NCEMA MOIAT MOCCA E MOHAP ADAFSA

Supervision

Emergency response technical team

Laboratories technical team

AMR technical team

Risk assessment technical team

Epidemiology technical team

Operational

8

Develop an integrated Biosecurity Index (IBI) in collaboration with FAO

7

Develop cohesive laboratory capabilities supported by an emergency response laboratory network

6

Enhance biosecurity for transporting and manufacturing animal/agricultural products within the scope of laboratories and field work

5

Expansion and harmonization between prevention and control systems

4

Develop a system for rapid and effective response to emergencies (Emergency Preparedness & Response Plans)

3

Develop a comprehensive legislative framework for biosecurity supported by an integrated database

2

Develop a system for joint analysis and assessment of biosecurity risks

1

Establishment of a Biosecurity System using One Health Principles

8

STRATEGIC PROJECTS

Integration

Agriculture sector in AD

Data source

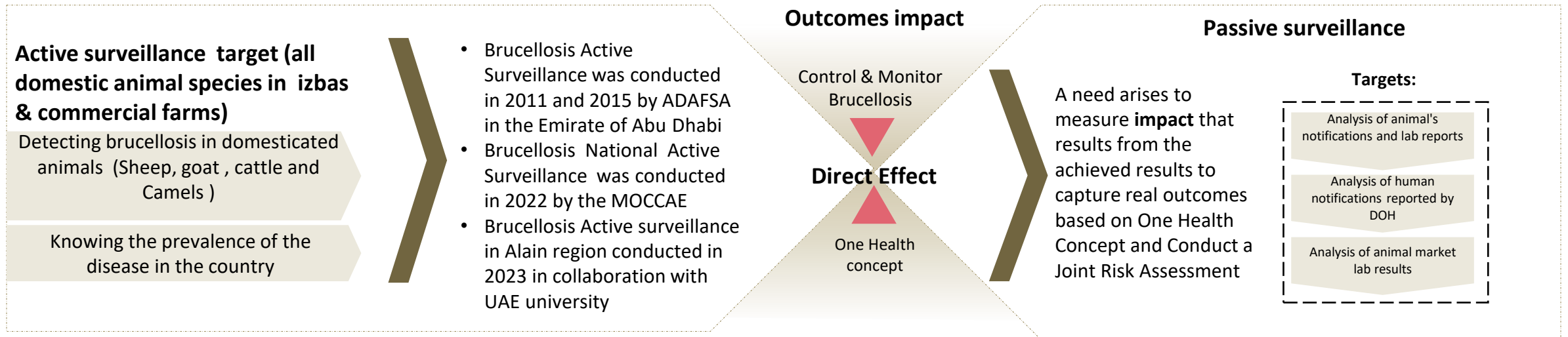
Veterinary facilities
Agriculture facilities
Food production facilities
Academic institutions

Targeted entities

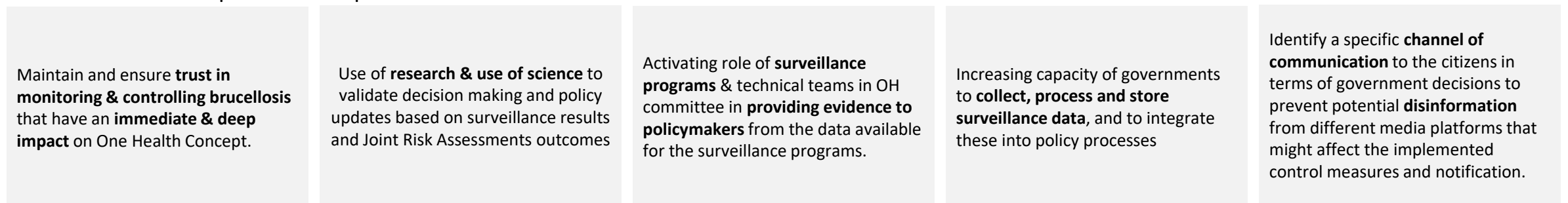
Animal Farm
Plant farms
Academic institutions
Community

Recent global changes requires governments to seek a collaborative measure for Brucellosis across different sectors (OH)

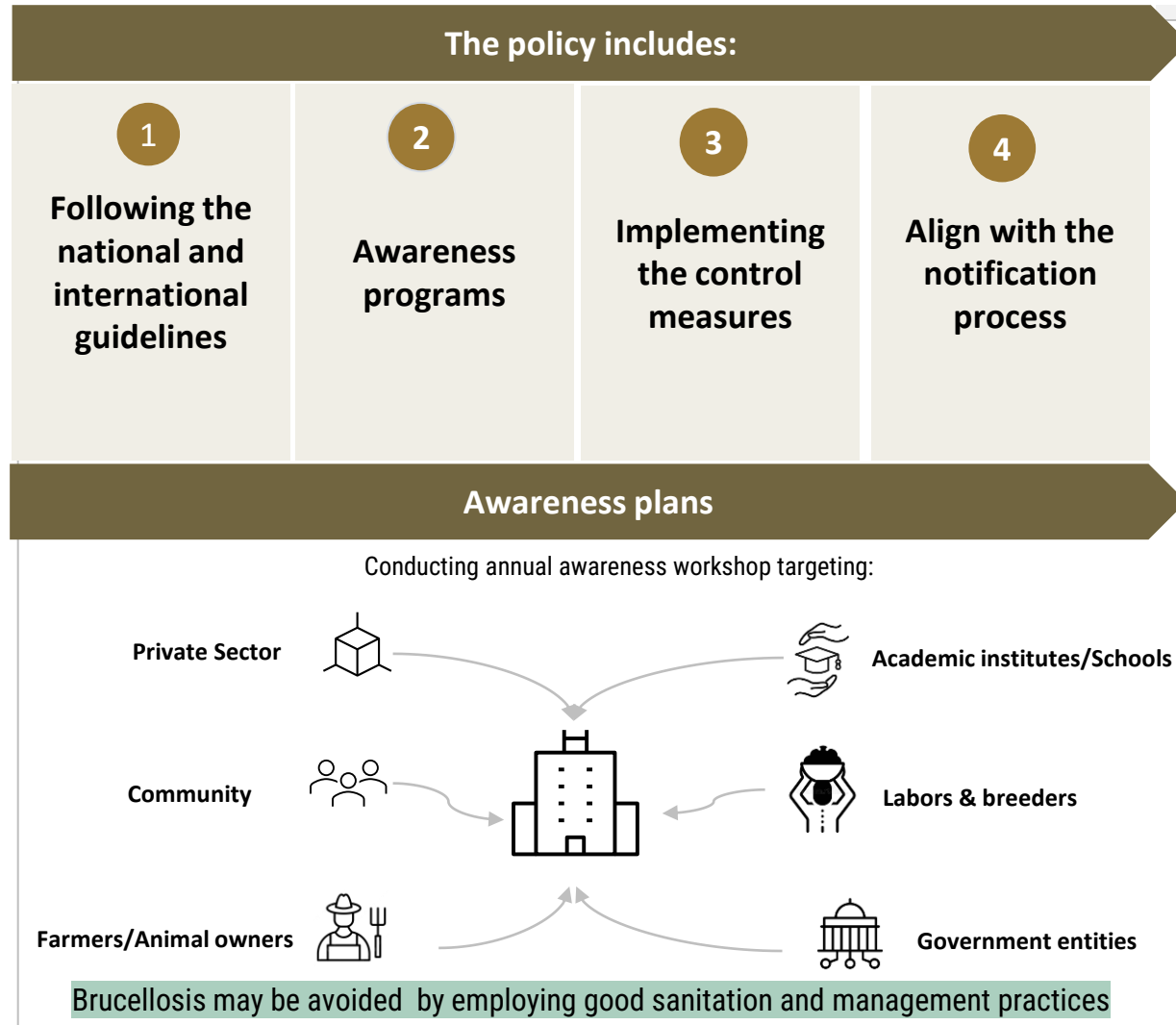
ADAFSA emphasize on the importance of surveillance program to control and monitor Brucellosis from One Health Concept Plans covers Active & Passive surveillance



The **Active & Passive Surveillance plans** boosted the control and monitors measurements implemented by ADAFSA adapting the national and international control plans. This implementation boosted the need of:



To ensure the implementation of control measure ADAFSA follows the national brucellosis control plan (Test and slaughter) policy



- 1 Periodical Testing for the Entire Herd (Adult Animals)
- 2 Removal of reactors (Positive cases) from the herd by (Slaughter Infected /Asymptomatic animals) & (Euthanasia of pregnant and symptomatic infected animals)
- 3 Proper Disposal of aborted fetus, placenta and uterine discharges
- 4 Disinfection of infected premises
- 5 Testing of newly purchased animals before introducing the animal to the herd
- 6 Raising the awareness about the importance of PPE when handling the animals
- 7 Milk pasteurization
- 8 Reporting relevant authorities (DOH) with the list of people (vets, labors, breeders, etc.,) who were in contact with infected animals.

Reporting process for positive brucellosis cases illustrated in five steps to ensure the correct reporting process

Developing & implementing a unified procedures for reporting positive cases supports the control and monitoring plans for brucellosis.

1

Report Cases



Notification from the VMS and LDM.

Notifications from municipalities (animal market & slaughterhouses) , delegated cases from federal level via Biosecurity Early Notification System , and human cases with history of animal exposure.

2

Declaration / Restriction of Animals Movement Form



Inform, contact, and ask the owner to **sign** the Declaration / Restriction of Animals Movement Form
Recommend the **owner to isolate** the infected animals.

3

Screening



Immediate and complete screening of adult animals for brucellosis in infected Izba or Farm till issuance of free brucellosis certificate
Spray premises with antibacterial disinfectant

4

Euthanasia/carcass disposal



Confirmed positive cases should be **isolated** in the farm / izba and the owner should sign the Euthanasia Consent Form
The animal carcass is disposed off in coordination with the municipality & Tadweer.

5

Reporting Contact



Reporting list of **contact** with positives cases to the **DOH** – Abu Dhabi via EOC

This process is also reflected in the detailed **Emergency Response Plan for Brucellosis**. The plan illustrate the **role** of each **entity** in **Abu Dhabi Emirate** to ensuring the **harmonization, roles and responsibilities** identification and ensuring the contiguous **monitoring**.

The plan is subjected to **Simulation exercises** which is necessary to create **deeper understanding** of observed government activities success or failure as an end and to **correct & improve performance** to enhance results and outcomes.

Objectives of the Emergency Preparedness & Response Plans

The objectives of the One Health Emergency Response and Preparedness Plans document is as follows:



01

To outline the foundational principles of animal, human, and plant health emergencies, focusing on zoonotic diseases like Brucellosis



02

To provide an overview of the existing and proposed ADAFSA preparedness and response strategies for potential outbreaks, ensuring timely intervention and the well-being of Abu Dhabi's populace and environment.



03

To offer a structured, multi-tiered approach for biosecurity scenarios, from early detection to full-fledged emergency response, emphasizing capacity-building, organizational frameworks, and collaboration among stakeholders in Abu Dhabi and the broader UAE region.

Plan content: Brucellosis emergency response plan supporting OH concept

General Instructions

References

Organizational Participating in Preparing the Detailed Plan

1. General

1.1 Purpose

1.2 Objectives of the Procedures for Raising Readiness Status

1.3 Scope of Application

2. Mission

3. Implementation

3.1 Concept of Operations

3.2 Phase One: Preparedness (Pre-Event)

3.3 Phase Two: Alert Stakeholders

3.4 Phase Three: Response (During the Event)

3.5 Phase Four: Recovery (Post-Event)

4. Roles and Responsibilities

4.1 Roles and Responsibilities in the Emergency Response Plan

4.2 Lead Organization Roles

4.3 Coordination Instructions

5. Timings

6. Memoranda of Understanding(MOU)

7. Resources List

8. Leadership and Communication

9. Accreditation

10. Appendices

11. Contact List

12. Distribution List

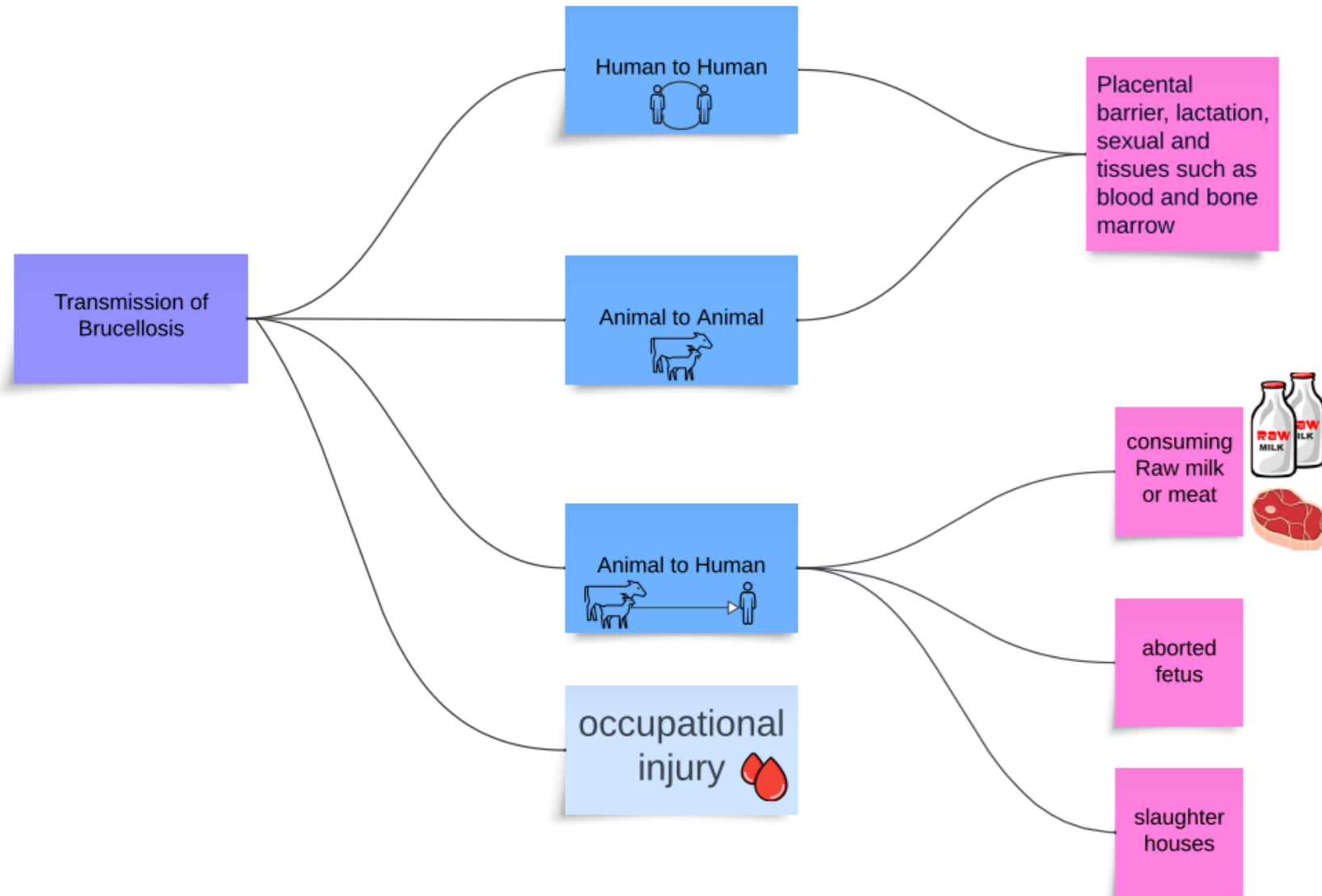


Good practices to follow when handling infected animals or contaminated material

You will not know until you test

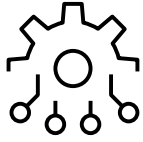


Diseases transmission overview



Awareness and following good practices is the cornerstone for controlling and eradicating brucellosis.

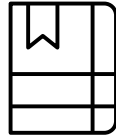
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Veterinarians

- **Wear protective** gloves and eyewear when in contact with animals
- **Avoid direct** contact with any retained placenta, vaginal discharges, aborted fetuses, and other reproductive tissues, as these materials are potential sources of transmission of brucellosis

2



Laboratory workers

- **Wear** proper Personal Protective Equipment (**PPE**)
- Hand washing
- **Treat** all samples as infectious samples
- **Report** positive cases
- Use proper **disinfectants**

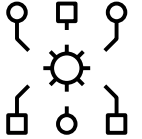
3



Farm workers

- Protective clothes **must** be used (overalls, rubber gloves, rubber boots, glasses)
- Hand **washing**
- **Report** any **abortion** to Authority
- Brucella vaccine is **prohibited in Abu Dhabi**
- Proper **disinfection**

4



Community

- **Do not** drink raw milk (pasteurization)
- **Do not** consume raw meat
- **Awareness**

Slaughterhouses, Food processing staff, anyone who process, deal or in contact with animals or animal products .



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THANK YOU