

# JOB ROLE – ANIMAL HEALTH WORKER

Sector – Agriculture

(Qualification Pack Code: AGR/Q4804)

PPT's for Class IX



PSS Central Institute of Vocational Education  
Shyamla Hills, Bhopal – 462 013 , Madhya Pradesh, India

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# **UNIT 4: PREVENTION AND CONTROL OF INFECTIOUS AND CONTAGIOUS DISEASES**

## **Session 3: 'One Health' Approach And Livestock Value Chain**

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# Session Objectives

The student will be able to :

- Describe “One Health Approach, Livestock Value Chain and benefits of livestock value chain.

# Introduction

Health of human beings, animal and plant kingdoms and our environment are interdependent.

‘One health’ is a collaborative effort of multiple disciplines working locally, nationally and globally to attain optimal health for humans, animals including livestock, and the environment

# 'One Health' Approach

'One health' means taking care of health of one and all in totality. If the animals carry an infection, it may be transmitted to humans as well as to the environment. Similarly if the environment is polluted, it may adversely affect the health of all living beings. Approximately 75% of the new emerging diseases in humans are transmitted from animals.

# 'One Health' Approach (contd...)

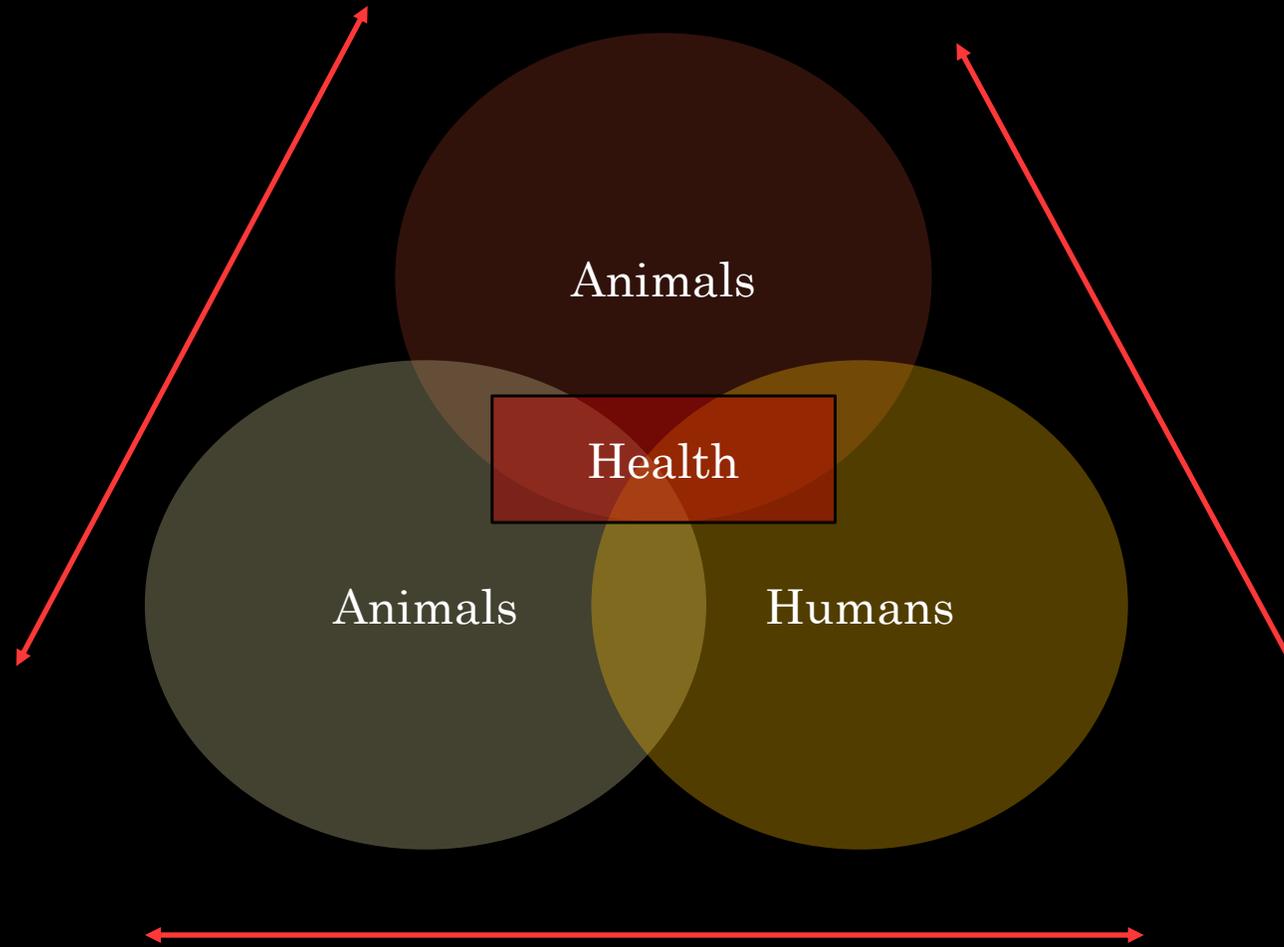
## Zoonotic diseases:

Diseases, which spread from animals to humans and vice versa, are termed as 'zoonotic diseases'.

Major zoonotic diseases having economic consequences are Rabies, Anthrax, Tuberculosis, Brucellosis and Nipah.

Nipah is a zoonotic disease causing fatality in animals and humans. The disease is caused by fruit bats and has been responsible for many deaths in the state of Kerala in May 2018.

# 'One Health' Approach (contd...)



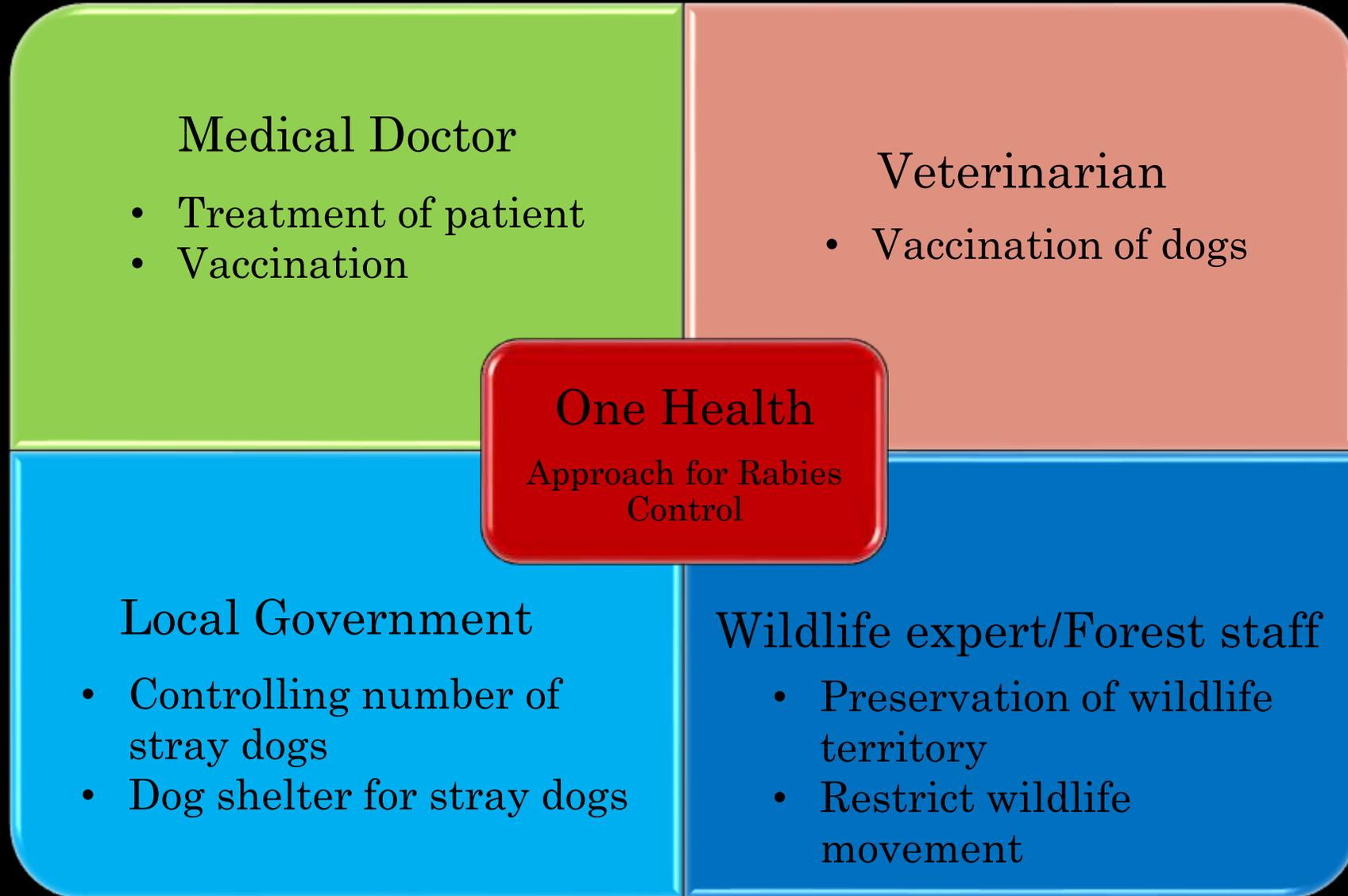
One Health approach showing interdependence of environment, animals and humans.

# 'One Health' Approach (contd...)

## Objectives 'One health' approach:

1. To have integration, cooperation and collaboration between human medicine, veterinary medicine and environmental science.
2. To expand the scientific knowledge base on interdependence of environment, animals and humans for optimum health.
3. To accelerate drug discoveries.
4. To improve human and animal health education.
5. To improve human and animal health.

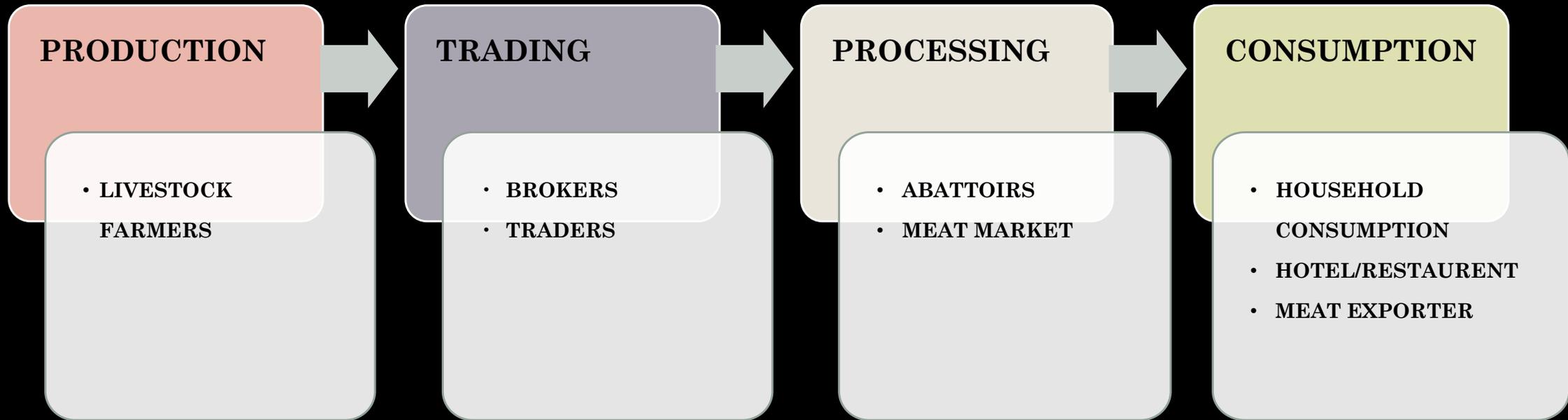
# 'One Health' Approach (contd...)



# Livestock Value Chain

1. Livestock are reared for farming and their products.
2. From the stage of raw animal product to the final consumable product, a number of value addition steps are undertaken to increase profitability of the farmer.
3. These different steps are components of the livestock value chain.
4. In other words, chain of activities, processes and groups of people involve from raw to finished product is known as livestock value chain.

## Livestock Value Chain From Production to Consumption



# Benefits of Livestock Value Chain

It helps in

1. Understanding the problems and limitations of the market.
2. Understanding the needs of the market to increase the income.
3. Minimizing the leverage of brokers and intermediaries.
4. Controlling animal diseases.
5. Identifying the animals and population at risk.

# Summary

- In this session you have learnt about “One Health Approach”, Livestock Value Chain and along with its benefits.

**Project Coordinator : Dr. Kuldeep Singh**

**Assistance**

**Dr. Preeti Dixit**

**Mr. Jeetendra**



**Joint Director**

**PSS Central Institute of Vocational Education  
Shyamla Hills, Bhopal – 462013 , Madhya Pradesh, India**

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**E-mail: [jdpsscive@gmail.com](mailto:jdpsscive@gmail.com)**

**Tel. +91 755 2660691, 2704100, 2660391, 2660564**

**Fax +91 755 2660481**

**Website: [www.psscive.ac.in](http://www.psscive.ac.in)**