



Royal Veterinary College  
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Leverhulme Centre for Integrative  
Research on Agriculture and Health

# People, Livestock, Trade and Animal Disease: How can we improve the management of risk?

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## Food systems and risk

- Many of the important issues on health revolve around **FOOD SYSTEMS**
  - These food systems feed people, employ people and give people business opportunities
    - They are about **people**
  - For the food system to function requires these people to make short and long term **decisions**
  - **Understanding the decisions** provides a means to **align public policy** to best health outcomes

## Food systems and risk

- Good risk management policies are set by people who understand the **context** – *the milieu* - in which these policy need to be implemented

**These policy makers understand  
the food systems**

## Managing risk along trade routes

Market

Production Cluster

Road

Quarantine Station

# Through people

Shipping

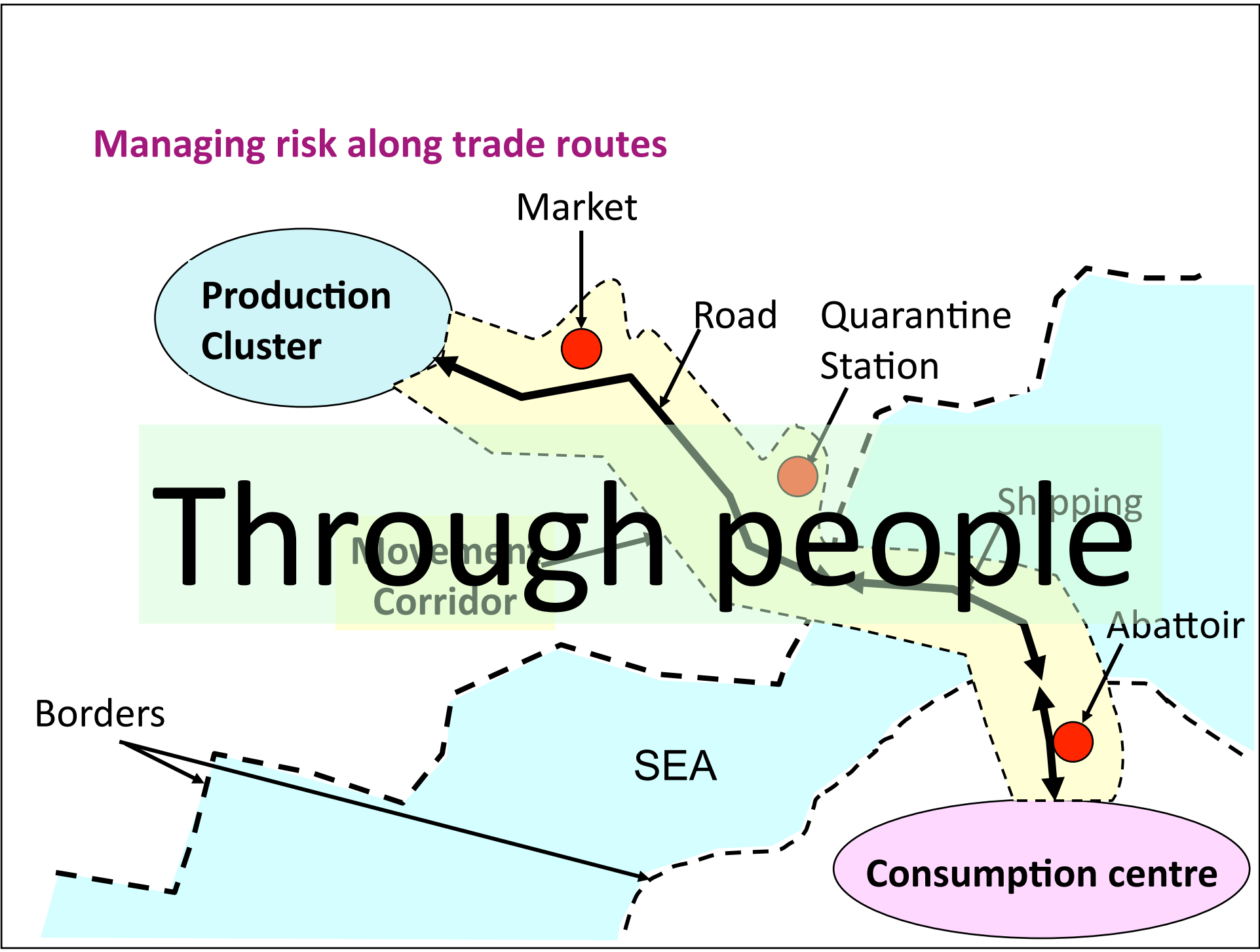
Movement Corridor

Abattoir

Borders

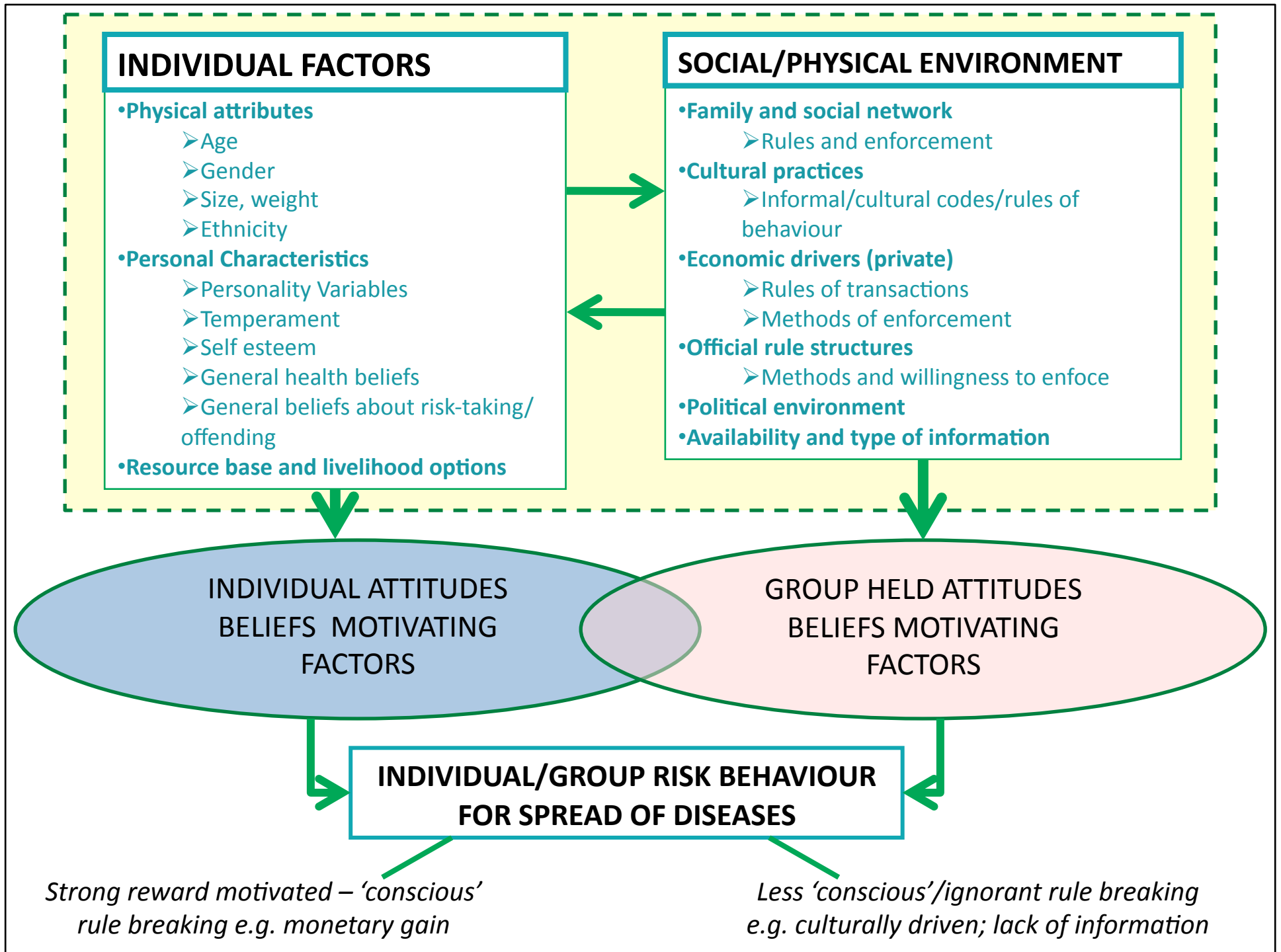
SEA

Consumption centre



## Risk management with a people centred approach

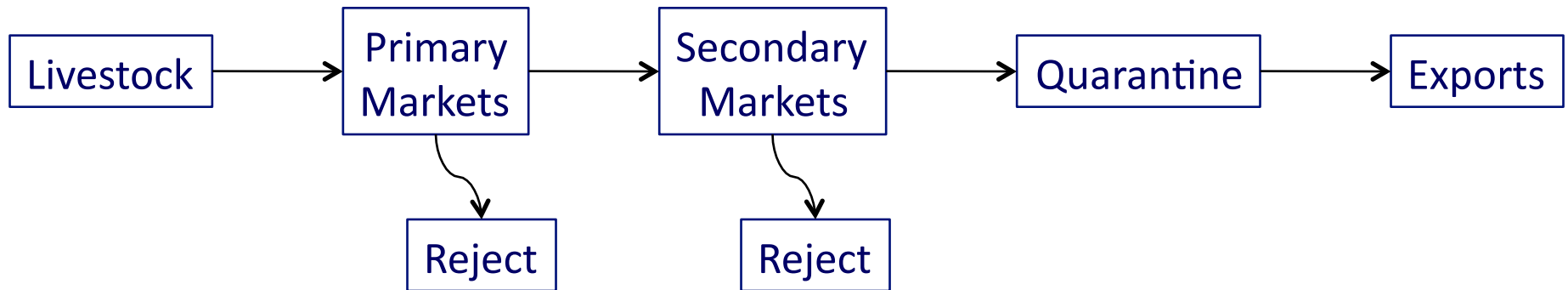
- With a people centred approach it becomes critical to understand people's behaviour
- Some of this will be dictated by:
  - Economic incentives
  - Institutional environment
    - Rules (official and informal) and their enforcement
  - Social, cultural and psychological factors



## The case of livestock trade from Somalia



## Improving livestock certification

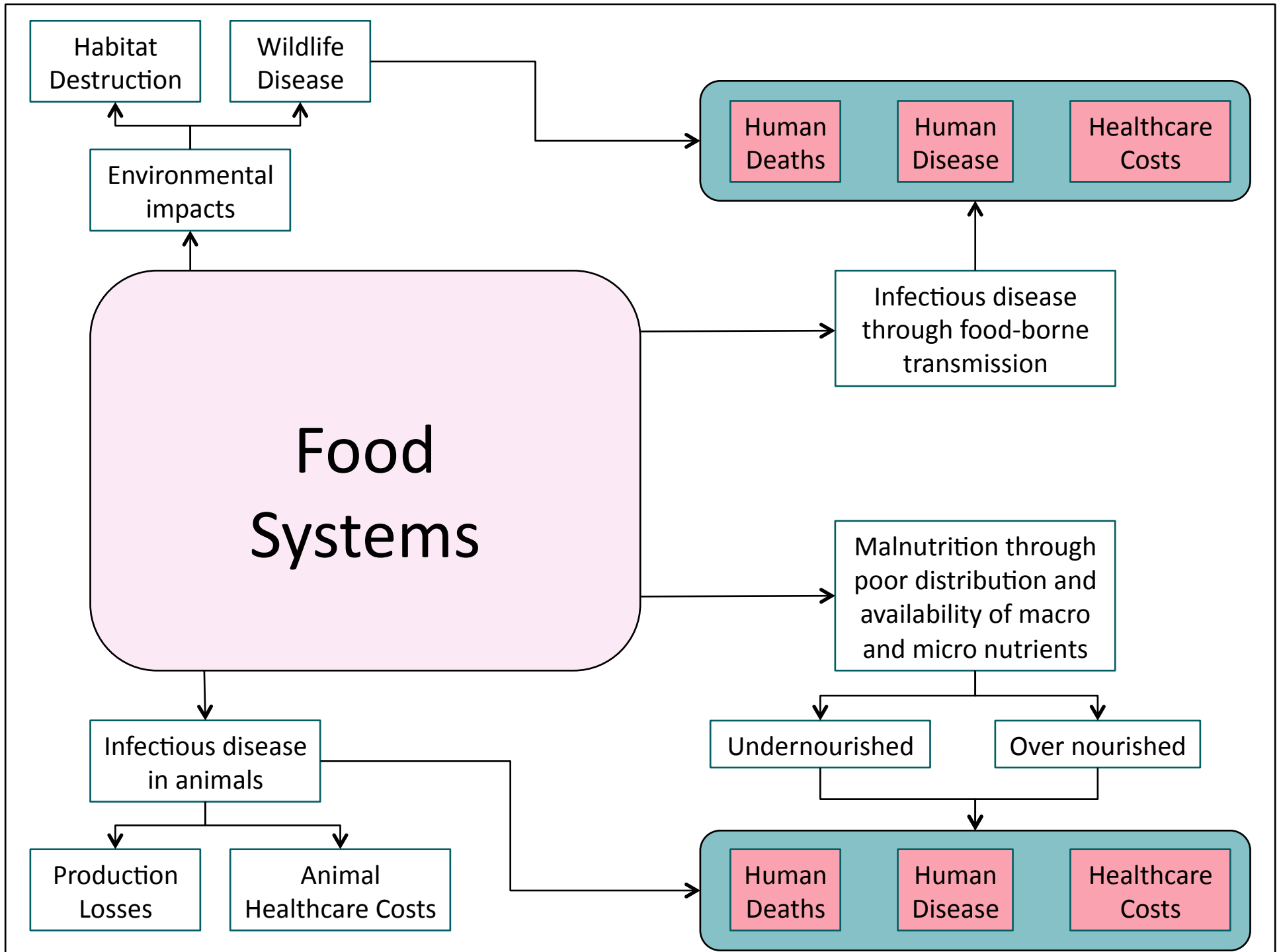


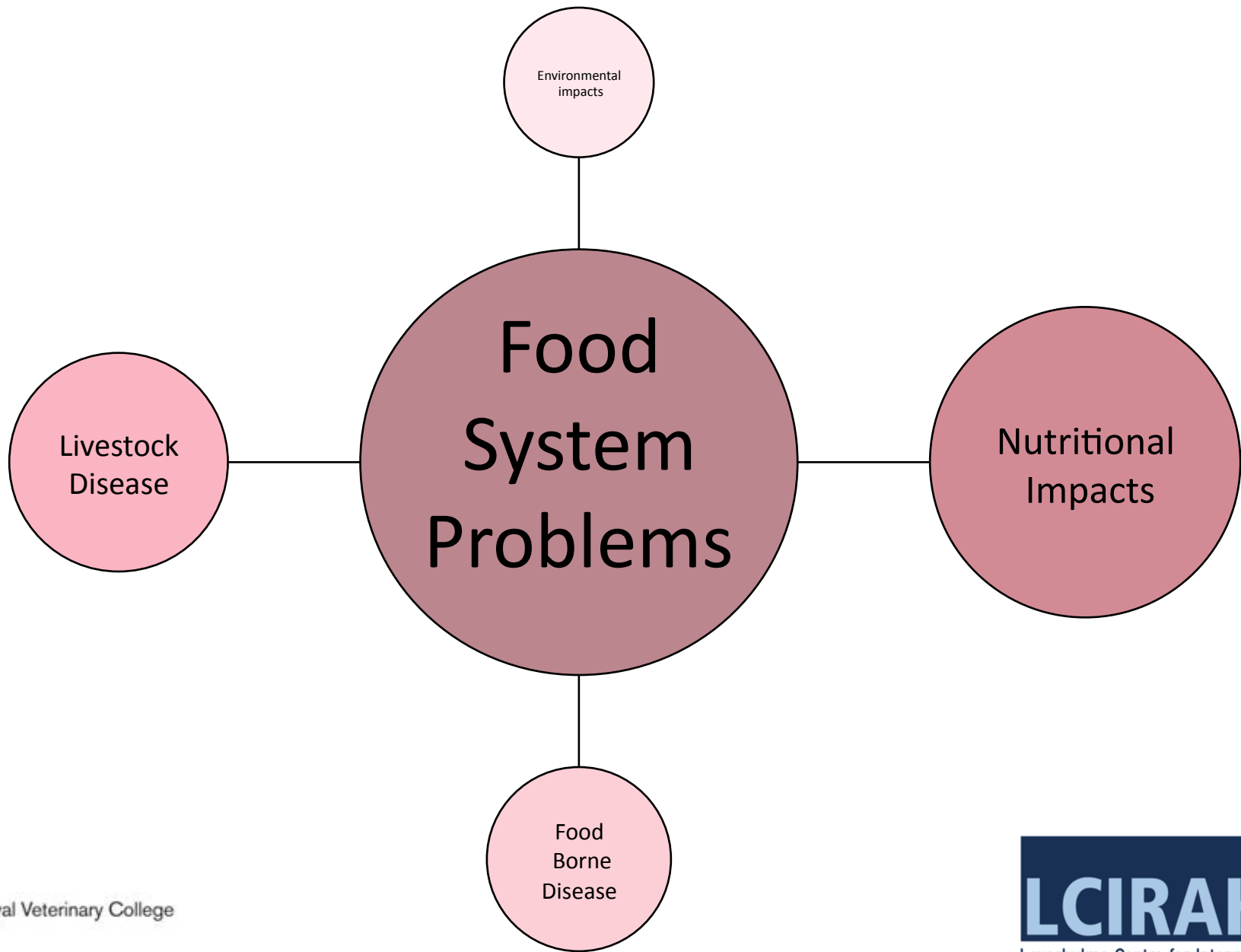
- Documentation of private standards
- Samples of reject animals with diagnosis
- Data recording, database development and dissemination

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- Sample taking and analysis for RVF, FMD possibly PPR
  - Data recording and analysis with dissemination
  - Development of strategies

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- Sample taking and analysis for other diseases
  - Data recording and analysis with dissemination
  - Development of strategies

## Summary





## Key messages

- Understand the **context** – the **food system**
- Establish what is driving the **institutional environment** of the food system
- Determine at which **points** in the food system the institutional environment is **weak**
- Investigate the economics and social aspects of **human behaviour** at the weak points
- **Link** this with biological investigations of pathogens



# One Health oriented Food Systems

Helping **PEOPLE**, Protecting **PEOPLE**  
Working with **PEOPLE**

