Forty-five years of One Health-related research at the **International Livestock Research Institute**

Delia Grace ^{1,2}, John McIntire ³

¹ Joint appointed scientist, International Livestock Research Institute, Kenya ² Professor Food Safety Systems, Natural Resources Institute, Kent, UK ³ Independent consultant, California, USA

Key findings

✓The international community invested nearly US\$12 billion in global livestock research from 1975 to 2018



✓ most was financed in ILRI

✓ most was spent in sub-Saharan Africa

✓ and this had substantial and objectively verifiable impact

Background

- Livestock are the engine of development, but animal disease is a major constraint to production and risk to human health.
- Epidemiological research has revolutionised management of livestock disease, but there is little synthesised evidence on the benefits of epidemiological research in low- and middle-income countries (LMICs) We reviewed 45 years research by the International Livestock Research Institute (ILRI), the only international agricultural research institute focused on livestock in LMICs.

THE IMPACT OF THE INTERNATIONAL LIVESTOCK **RESEARCH INSTITUTE**

EDITED BY JOHN MCINTIRE AND DELIA GRACE





Methods

Over four years, we engaged more than 70 expert authors to document 45 years of livestock research at ILRI, resulting in a book which was launched in 2021 (Figure 1).

Nine of the 18 chapters document epidemiological research into animal disease, showing the importance of epidemiology in livestock development.

Epi highlights

• Veterinary epidemiological and economic impact sciences increased understanding of infection dynamics and generated a wealth of methodologies and approaches that have since been applied in every corner of the world.

• One Health approaches estimated the burden and risk factors for neglected as well as emerging zoonoses, identified their drivers and developed strategies for reducing those risks.

• Field research on trypanosomiasis determined that rational use of curative and preventive trypanocidal drugs is the most sustainable and scalable control.

Conclusion

The book captures ILRI benefits to research, capacity development and end users. It marshals substantial evidence to show that livestock research improved food and nutrition security, prosperity and natural resource management in LMICs.

• Research on food safety elevated the importance of informal markets where most of the poor buy and sell, introduced risk assessment to LMICs, conducted dozens of burden studies and developed new approaches to managing food safety.

DOWNLOAD THE FREE BOOK AT https://hdl.handle.net/10568/108972

August 2022



INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE



NRI Natural Resources Institute



This document is licensed for use under the Creative Commons Attribution 4.0 International Licence.