Better lives through livestock

ILRI's CGSpace experience: origins, choices, key lessons and challenges

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International Livestock Research Institute

Informal Nairobi Dspace Users Meeting
Nairobi, 22 September 2022

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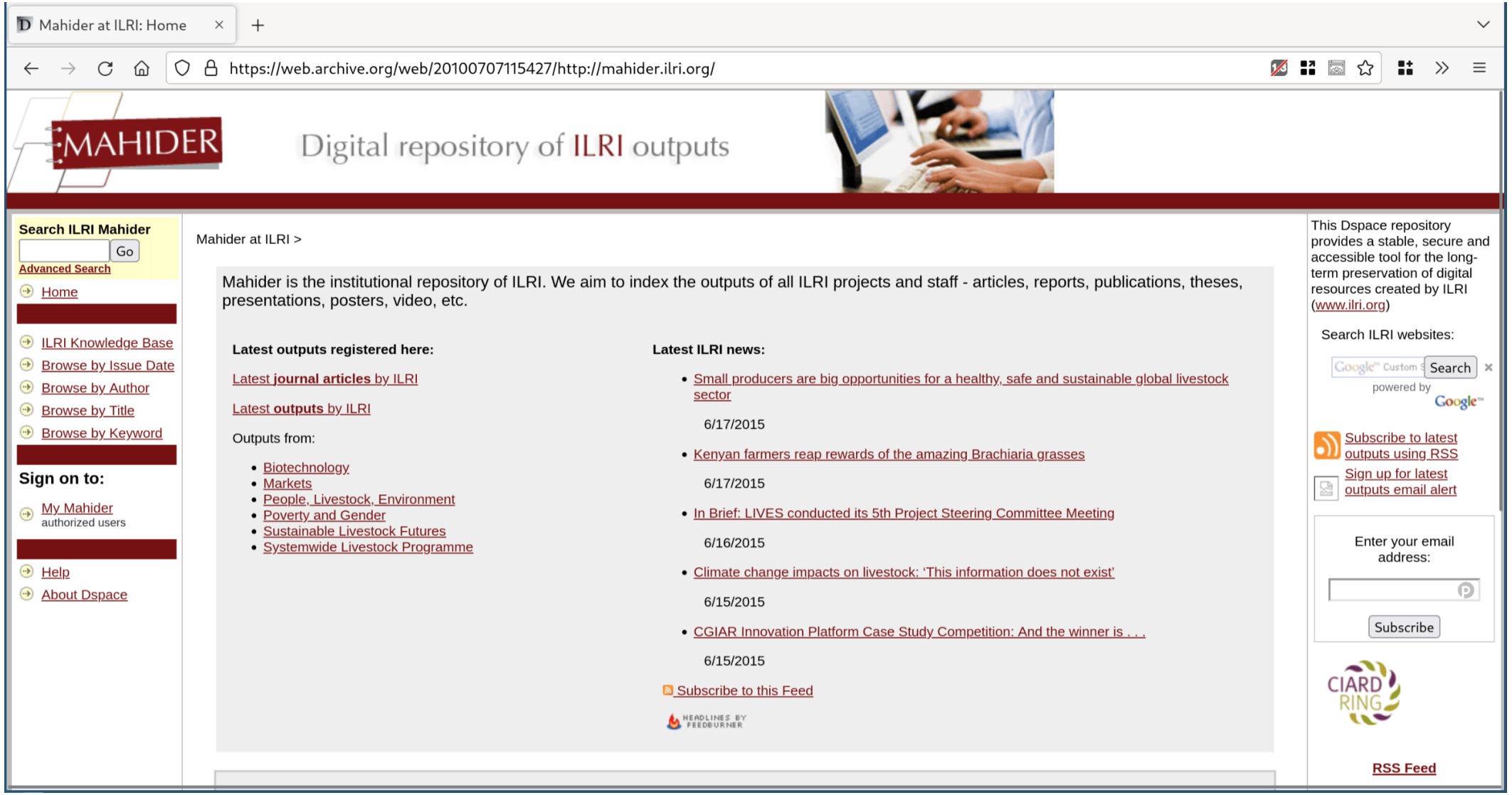
CGSpace origins

- Established in late 2009
- Driven by demands to have all outputs and products openly available and accessible
- Replacement for:
  - Inmagic document catalogue
  - PDF files spread across the web site
  - Home made lists of outputs
  - Manual linking from web sites and blogs, etc
- Evolved into ‘CGSpace’ in 2011

CGSpace precursor ‘Mahider’ in July 2010



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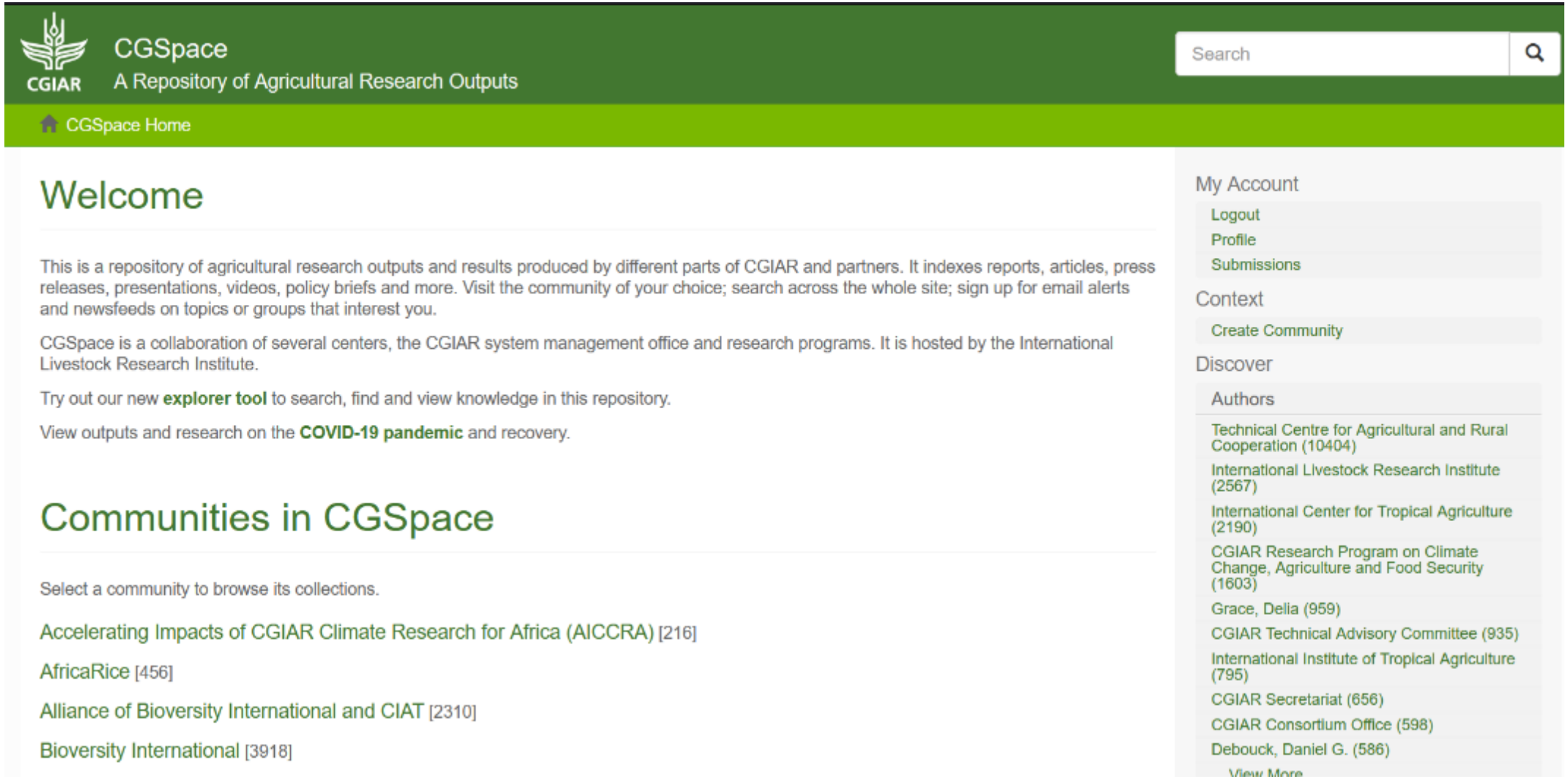
CGSpace in September 2022



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What is CGSpace?

- Open digital repository of agricultural research outputs and results produced by ILRI and many partners
- ILRI and other partners' communities all accessible on the same repository platform
  - Shared admin, user interface, publishing workflows, content management, training, support
  - Shared costs for hosting, development, and staff time
- Allows searching research outputs from all communities in one place

https://cgspace.cgiar.org

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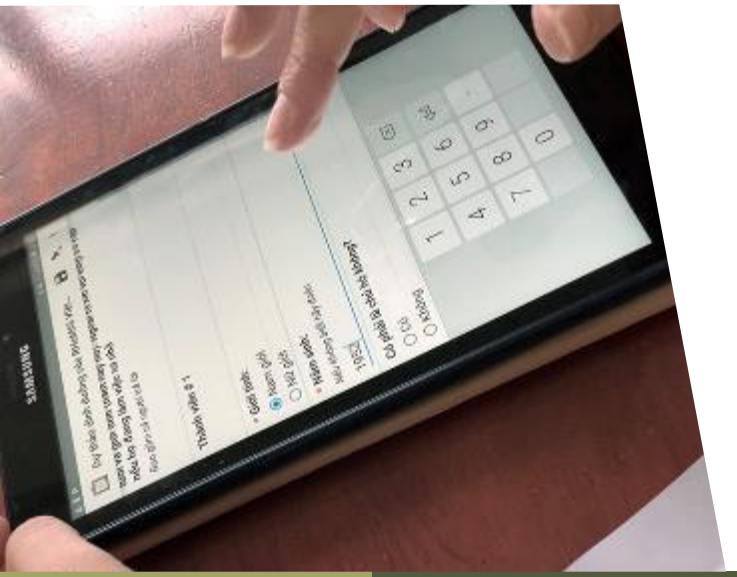

Content choices we made

- CGSpace is the ILRI way to **publish** outputs online
- We aim to ‘publish’ as much as we can (with permission)
- Organize outputs by **content type** (publications, multi-media, presentations, articles, etc.)
  - ‘Map’ items across to projects, themes, teams (organization structure – link to web sites)
- We use Dublin Core as well as ‘CG Core’ and other CGSpace-specific metadata
- Get many people contributing content (a few editors)

Enabling open access

Our digital outputs should have benefits that can travel across boundaries. They need to be:

- Well described with high-quality metadata
- Archived for posterity using persistent identifiers (Handles)
- Easily found and accessed through search engines
- Easily shared and re-used without restrictions under open access licenses

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Content syndication

- RSS feeds get content syndicated across the web and into mailboxes [BUT …]
- Open DSpace APIs allow integration with other platforms, i.e., WordPress, Drupal, etc

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Questions we get

How about metrics and usage? – item, project, program

Searching isn’t very easy – don’t you have a dashboard? Google is so easy? I need to run a complicated Boolean search …

I need the information in my website

I need to produce a list of search results

‘Republishing’ to the ILRI website via content harvesting

The journey to R4D: An institutional history of an Australian initiative on food Security in Africa

Published	Status	Countries	ILRI Programs
2016	Open Access	Australia	BecA-ILRI hub
	Language		
	EN		

BOOK CHAPTER

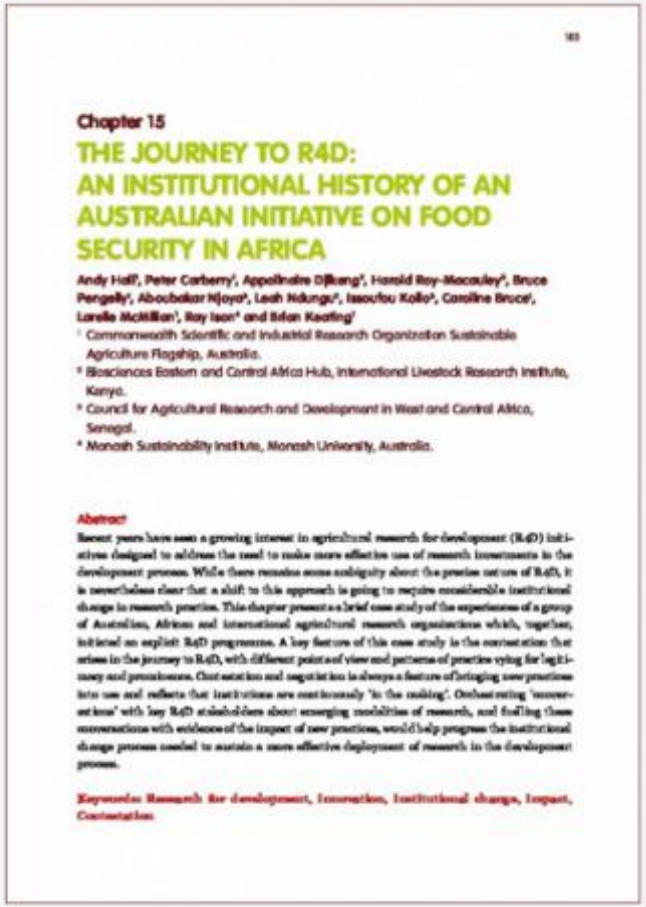
https://hdl.handle.net/10568/79188

CITATION

Hall, A., Carberry, P., Djikeng, A., Roy-Macauley, H., Pengelly, B., Njoya, A., Ndungu, L., Kollo, I., Bruce, C., McMillan, L., Ison, R. and Keating, B. 2016. The journey to R4D: An institutional history of an Australian initiative on food Security in Africa. IN: Francis, J., Mytelka, L., Huis, A. van and Röling, N. (Eds.). 2016. Innovation Systems: Towards effective strategies in support of smallholder farmers. Wageningen, The Netherlands: Technical Centre for Agricultural and Rural Cooperation and Wageningen University and Research Center: 183-201.

Tags

food security, research



Chapter 15

THE JOURNEY TO R4D: AN INSTITUTIONAL HISTORY OF AN AUSTRALIAN INITIATIVE ON FOOD SECURITY IN AFRICA

Andy Hall[1], Peter Carberry[1], Appolinaire Djikeng[2], Harold Roy-Macauley[3], Bruce Pengelly[1], Aboubakar Njoya[3], Leah Ndungu[3], Issoufou Kollo[3], Caroline Bruce[1], Lorelle McMillan[1], Ray Ison[4] and Brian Keating[1]

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Abstract

Recent years have seen a growing interest in agricultural research for development (R4D) initiatives designed to address the need to make more effective use of research investments in the development process. While there remains some ambiguity about the precise nature of R4D, it is nevertheless clear that a shift to this approach is going to require considerable institutional change in research practice. This chapter presents a brief case study of the experiences of a group of Australian, African and international agricultural research organizations which, together, initiated an explicit R4D programme. A key feature of this case study is the contestation that arises in the journey to R4D, with different points of view and patterns of practice vying for legitimacy and prominence. Contestation and negotiation is always a feature of bringing new practices into use and reflects that institutions are continuously 'in the making'. Orchestrating 'conversations' with key R4D stakeholders about emerging modalities of research, and fuelling these conversations with evidence of the impact of new practices, would help progress the institutional change process needed to sustain a more effective deployment of research in the development process.

Keywords: Research for development, Innovation, Institutional change, Impact, Contestation

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Additional elements

We work with Atmire – a specialist Dspace company

- advanced technical help
- statistics and usage module
- duplicate checking module

We subscribe to Altmetric

- track social attention

Key lessons we learned

Keep to the code …

- every customisation has a cost when upgradir
- build tools around Dspace
- promote the content on other platforms

Content is king …

- enrich with metadata and integrations
- consistency and quality checking
- beyond articles, most downloads are manuals/guides

CGSpace item view

CGSpace
A Repository of Agricultural Research Outputs

Search

CGSpace Home / International Livestock Research Institute (ILRI) / ILRI articles in journals / View Item

Zoonosis emergence linked to agricultural intensification and environmental change

Authors
Jones, B.A.
Grace, Delia
Kock, R.
Alonso, Silvia
Rushton, Jonathan
Said, Mohammed Yahya

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Citation
Jones, B.A., Grace, D., Kock, R., Alonso, S., Rushton, J., Said, M.Y., McKeever, D., Mutua, F., Young, J., McDermott, J. and Pfeiffer, D.U. 2013. Zoonosis emergence linked to agricultural intensification and environmental change. PNAS 110(21): 8399-8404

Permanent link to cite or share this item: https://hdl.handle.net/10568/29011
DOI: https://doi.org/10.1073/pnas.1208059110

Abstract/Description
A systematic review was conducted by a multidisciplinary team to analyze qualitatively best available scientific evidence on the effect of agricultural intensification and environmental changes on the risk of zoonoses for which there are epidemiological interactions between wildlife and livestock. The study found several examples in which agricultural intensification

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By CGIAR System subject
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This Collection

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CGSpace item view

Authors
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Kock, R.
Alonso, Silvia
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Said, Mohammed Yahya
McKeever, Declan J.
Mutua, F.
Young, J.
McDermott, John J.
Pfeiffer, Dirk U.

Date
2013-05

Language
en

Type
Journal Article

Review status
Peer Review

ISI journal

Accessibility
Open Access

Metadata
Show full item record

DOI: https://doi.org/10.1073/pnas.1208059110

Abstract/Description
A systematic review was conducted by a multidisciplinary team to analyze qualitatively best available scientific evidence on the effect of agricultural intensification and environmental changes on the risk of zoonoses for which there are epidemiological interactions between wildlife and livestock. The study found several examples in which agricultural intensification and/or environmental change were associated with an increased risk of zoonotic disease emergence, driven by the impact of an expanding human population and changing human behavior on the environment. We conclude that the rate of future zoonotic disease emergence or reemergence will be closely linked to the evolution of the agriculture–environment nexus. However, available research inadequately addresses the complexity and interrelatedness of environmental, biological, economic, and social dimensions of zoonotic pathogen emergence, which significantly limits our ability to predict, prevent, and respond to zoonotic disease emergence.

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AGROVOC Keywords
health; zoonoses

Subjects
AGRI-HEALTH; EMERGING DISEASES; ENVIRONMENT; EPIDEMIOLOGY; HEALTH; INTENSIFICATION; ZOONOTIC DISEASES;

Organizations Affiliated to the Authors
International Livestock Research Institute

Investors/sponsors
Department for International Development, United Kingdom

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Statistics
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Building external visualization and reporting tools

The back end

Production server - https://cgspace.cgiar.org

Test server - https://dspacetest.cgiar.org

Dspace 7 test installation - https://dspace7test.ilri.org

GitHub – code, vocabularies, issues, changes - https://github.com/ilri/DSpace
https://github.com/ilri/OpenRXV

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Challenges

- Requires very technical skills to maintain and operate
- Deep integration with external controlled vocabularies like AGROVOC, ROR, ORCID, etc. is hard
- Temptation to customize ‘vanilla’ DSpace is high
- Statistics and reporting functionality are limited
- Maintaining high-quality metadata is a constant effort

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The International Livestock Research Institute (ILRI) is a non-profit institution helping people in low- and middle-income countries to improve their lives, livelihoods and lands through the animals that remain the backbone of small-scale agriculture and enterprise across the developing world. ILRI belongs to CGIAR, a global research-for-development partnership working for a food-secure future. ILRI's funders, through the CGIAR Trust Fund, and its many partners make ILRI's work possible and its mission a reality. Australian animal scientist and Nobel Laureate Peter Doherty serves as ILRI's patron.

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