



Better lives through livestock

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

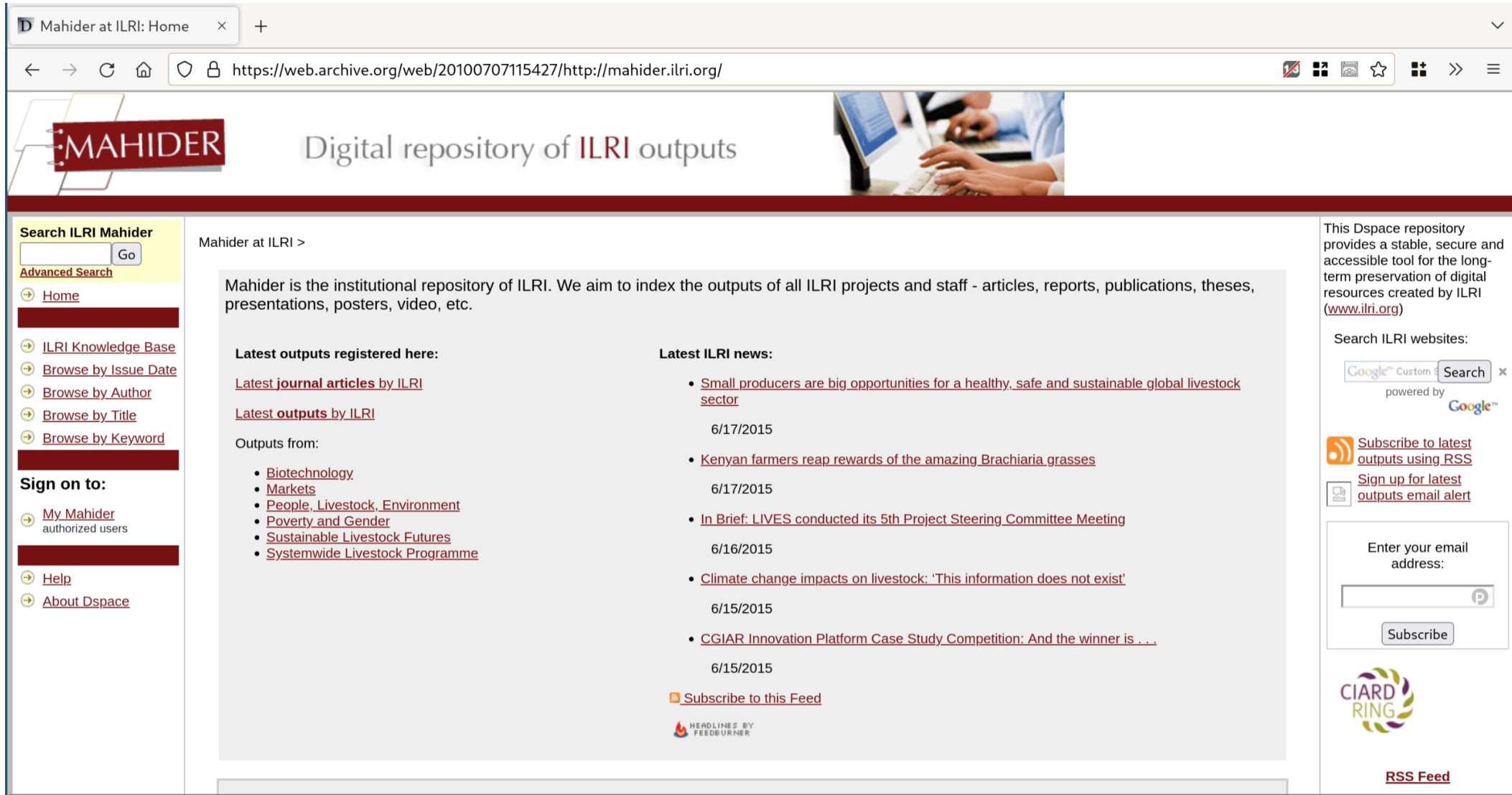
Peter Ballantyne, Abenet Yabowork, Alan Orth
International Livestock Research Institute

Informal Nairobi Dspace Users Meeting
Nairobi, 22 September 2022

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



Mahider at ILRI: Home

https://web.archive.org/web/20100707115427/http://mahider.ilri.org/

MAHIDER

Digital repository of ILRI outputs

Mahider at ILRI >

Mahider is the institutional repository of ILRI. We aim to index the outputs of all ILRI projects and staff - articles, reports, publications, theses, presentations, posters, video, etc.

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- [People, Livestock, Environment](#)
- [Poverty and Gender](#)
- [Sustainable Livestock Futures](#)
- [Systemwide Livestock Programme](#)

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6/17/2015
- [Kenyan farmers reap rewards of the amazing Brachiaria grasses](#)
6/17/2015
- [In Brief: LIVES conducted its 5th Project Steering Committee Meeting](#)
6/16/2015
- [Climate change impacts on livestock: 'This information does not exist'](#)
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This Dspace repository provides a stable, secure and accessible tool for the long-term preservation of digital resources created by ILRI (www.ilri.org)


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 INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE



CGSpace in September 2022


CGSpace
A Repository of Agricultural Research Outputs

[CGSpace Home](#)

Welcome

This is a repository of agricultural research outputs and results produced by different parts of CGIAR and partners. It indexes reports, articles, press releases, presentations, videos, policy briefs and more. Visit the community of your choice; search across the whole site; sign up for email alerts and newsfeeds on topics or groups that interest you.

CGSpace is a collaboration of several centers, the CGIAR system management office and research programs. It is hosted by the International Livestock Research Institute.

Try out our new **explorer tool** to search, find and view knowledge in this repository.

View outputs and research on the **COVID-19 pandemic** and recovery.

Communities in CGSpace

Select a community to browse its collections.

- [Accelerating Impacts of CGIAR Climate Research for Africa \(AICCRA\) \[216\]](#)
- [AfricaRice \[456\]](#)
- [Alliance of Bioversity International and CIAT \[2310\]](#)
- [Bioversity International \[3918\]](#)

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Authors

- [Technical Centre for Agricultural and Rural Cooperation \(10404\)](#)
- [International Livestock Research Institute \(2567\)](#)
- [International Center for Tropical Agriculture \(2190\)](#)
- [CGIAR Research Program on Climate Change, Agriculture and Food Security \(1603\)](#)
- [Grace, Delia \(959\)](#)
- [CGIAR Technical Advisory Committee \(935\)](#)
- [International Institute of Tropical Agriculture \(795\)](#)
- [CGIAR Secretariat \(656\)](#)
- [CGIAR Consortium Office \(598\)](#)
- [Debouck, Daniel G. \(586\)](#)

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What is CGSpace?

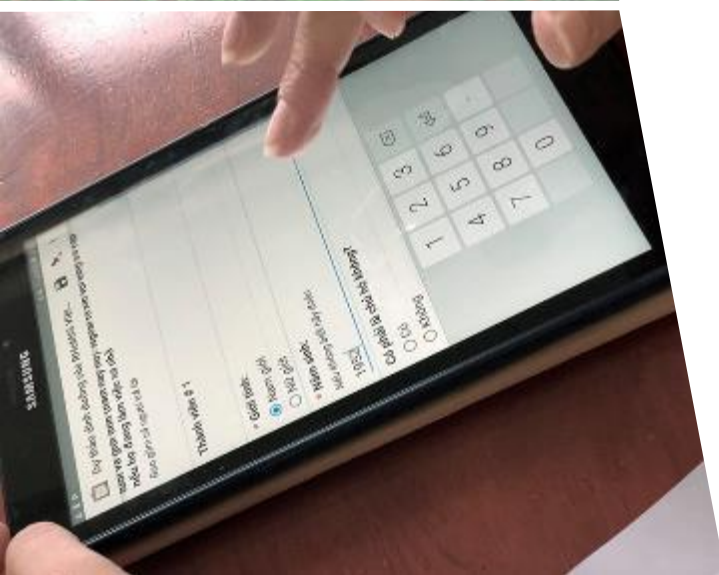


- Open digital repository of agricultural research outputs and results produced by ILRI and many partners
- ILRI and other partners' communities all accessible on the same repository platform
 - Shared admin, user interface, publishing workflows, content management, training, support
 - Shared costs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

<https://cgspace.cgiar.org>

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, multimedia, 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



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



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 Hall¹, Peter Carberry², Appoline Djikeng³, Harold Roy-Macauley⁴, Bruce Pengelly⁵, Aboubakar Njoya⁶, Leah Ndungu⁷, Issoufou Kollo⁸, Catherine Bruce⁹, Lorelle McMillan¹⁰, Roy Ison¹¹ and Brian Keating¹²

¹ Commonwealth Scientific and Industrial Research Organization Sustainable Agriculture Flagship, Australia.

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³ Council for Agricultural Research and Development in West and Central Africa, Senegal.

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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 to research practice. This chapter presents a brief case study of the experiences of a group of Australian, African and international agricultural research organisations which, together, initiated an explicit R4D programme. A key feature of this case study is the examination that arises in the journey to R4D, with different points of view and patterns of practice vying for legitimacy and prominence. Our analysis and suggestions in this chapter are always a feature of bringing new practices into use and reflects that institutions are most likely to be 're-making'. Overhauling 'research-practice' with key R4D stakeholders about emerging modalities of research, and finding those modalities 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, Customisation



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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 upgrading
- 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



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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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CGSpace item view

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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

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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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Other CGIAR Affiliations

Agriculture for Nutrition and Health

AGROVOC Keywords

health; zoonoses

Subjects

AGRI-HEALTH; EMERGING DISEASES; ENVIRONMENT; EPIDEMIOLOGY; HEALTH; INTENSIFICATION; ZONOTIC DISEASES;

Organizations Affiliated to the Authors

International Livestock Research Institute

Investors/sponsors

Department for International Development, United Kingdom

By Subregion

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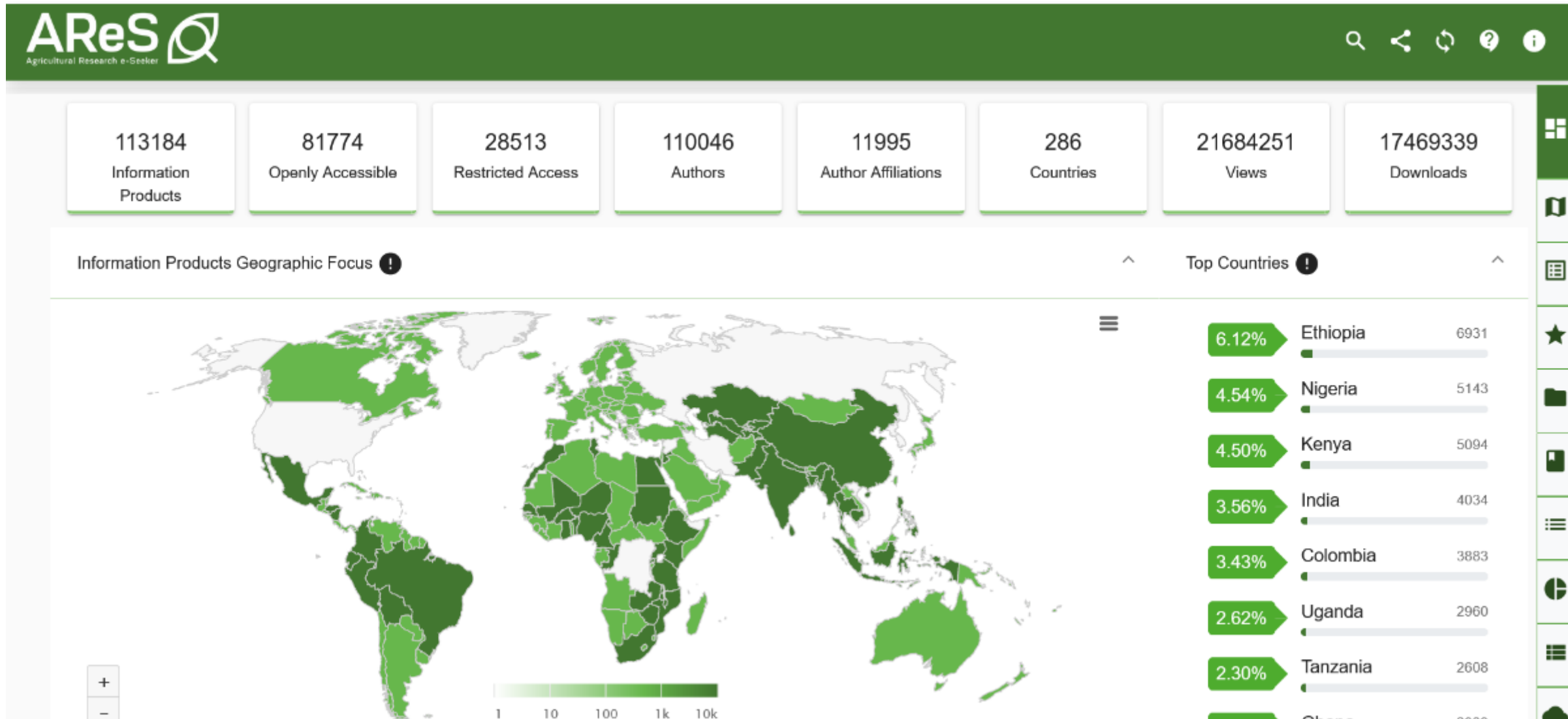
Statistics

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Building external visualization and reporting tools



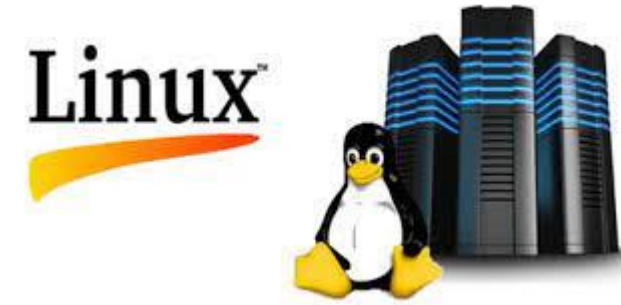
The back end

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>






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. You are free to use and share this material under the Creative Commons Attribution 4.0 International Licence .

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