



Consortium

CGIAR is a global research partnership for a food secure future

Opening Access to Agriculture Research Products: The Experience of CGIAR

Agricultural Information Management
Standards (AIMS) Open Access Week October 2012

Enrica Porcari

CGIAR

**A global partnership
that unites organizations engaged
in research for a food secure future**

Research Infrastructure and Networks across the Globe

- **15 Research Centers in close collaboration with hundreds of partner organizations**
- **Over 8,000 scientists and staff**
- **Over 250 locations in 80 countries**

Research Objectives

- **Reduce rural poverty**
- **Increase food security**
- **Improve human health and nutrition**
- **Ensure more sustainable management of natural resource**

CGIAR Research Agenda and Programs



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Massive Quantities of D&K

- **Multiple disciplines: plant breeding, entomology, agronomy, agroforestry, sociology, economics, as well as crop, livestock, human nutrition and health sciences**
- **Multiple units of measurement: molecular, plant and animal, plot and farm, landscape and watershed, geographical**

Many Knowledge Research Products

- Publications
- Data and datasets
- Other information products
- Improved germplasm
- Knowledge Evaluation Models
- Technologies
- Inventions
- Know-how
- Videos
- Processes
- Software

Tacit Knowledge

Open D&K Efforts Gaining Momentum

- Open government data is growing
- Civil society is getting organized and communities of practice are forming
- Research funders and international institutions are shifting toward open access model (DFID Open and Enhanced Access Policy (effective 1 Nov 2012), World Bank, OECD, UNESCO, NIH, Wellcome Trust)



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Open Science Overview

Open Science Working Group activity focuses on three areas: open data, open access and open research. We build tools, apps, datasets and guidelines to facilitate all these aspects of open science.

Open ideas are gaining traction in many scientific communities where by default data is not shared freely, papers are published in closed access journals and the scientific process operates behind closed doors. The default level of openness varies across academic fields and therefore we seek involvement from researchers across the sciences and beyond to ensure these community norms are taken into account during projects.



Open data

relates primarily to the datasets associated with primary scientific literature. The current situation is inconsistent with regard to if and how such data is made available and terms of reuse are often unclear: scientists get little credit for sharing data as there is no incentive to put in the time required to make a dataset useful for other researchers. The working group period *Panton Principles for Open Data in Science* recommend that **all data arising from publicly funded research is made available under an open license and by out the reasons why sharing good quality data is so important.**

Open access

relates to full-text articles, which by default are published in subscription journals to which access costs a great deal for both institutions and individuals – up to £30 per article for non-subscription access. Great progress has been made by



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Panton Principles

Principles for Open Data in Science

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Science is based on building on, reusing and openly criticising the published body of scientific knowledge.

For science to effectively function, and for society to reap the full benefits from scientific endeavours, it is crucial that science data be made open.

By open data in science we mean that it is freely available on the public internet permitting any user to download, copy, analyse, re-process, pass them to software or use them for any other purpose without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. **To this end data related to published science should be explicitly placed in the public domain.**

Web buttons

Get an **open data web button** for your project!



Related Links

- [Open Knowledge Foundation - Working Group on Open Data in Science](#)
- [Open Knowledge Definition](#)
- [In It Open Data!](#)
- [Science Commons - Protocol for Transformative Open Access Data](#)



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World Bank Broadens Public Access to Information

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- Bank's new Access to Information policy takes effect July 1, 2010, making thousands of documents available for the first time.
- Three-member, [independent panel](#) named to consider appeals alleging a violation of the policy when information requests are denied by the Bank.
- Enhanced transparency will improve development results, allow the public and interested stakeholders to better monitor the Bank's work.

July 1, 2010—Today the World Bank's new Access to Information Policy takes effect, making more information available to the public than ever before, particularly on Board actions and projects under implementation.

The policy, approved by the Board of Executive Directors in November 2009, is a sea change for the Bank and has already been recognized within the development community as a fundamental shift in approach that sets a new standard for international organizations. It is broadly based on information laws adopted by India and the United States.

"This new policy constitutes a major shift in the Bank's approach to information disclosure, transparency, sharing of knowledge, and



Related Content

- Websites**
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Wellcome Trust will penalise scientists who don't embrace open access

Wealthy medical charity says it will withhold researchers' final grant payments if they fail to make their results open access

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Alok Jha, science correspondent
 guardian.co.uk, Thursday 28 June 2012 02:00 EDT



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UK government will enforce open access to development research

All studies funded by Department for International Development after 1 November will be freely available for anyone to read

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National Institutes of Health Public Access

The Public Access Policy ensures that the public has access to the published results of NIH funded research to help advance science and improve human health.

Home

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4. Include PMCID in Citations

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Glossary/FAQs

For Sponsored Programs

For NIH Employees

- For NIH Employee Authors
- For NIH Extramural Staff (NIH Access Only)

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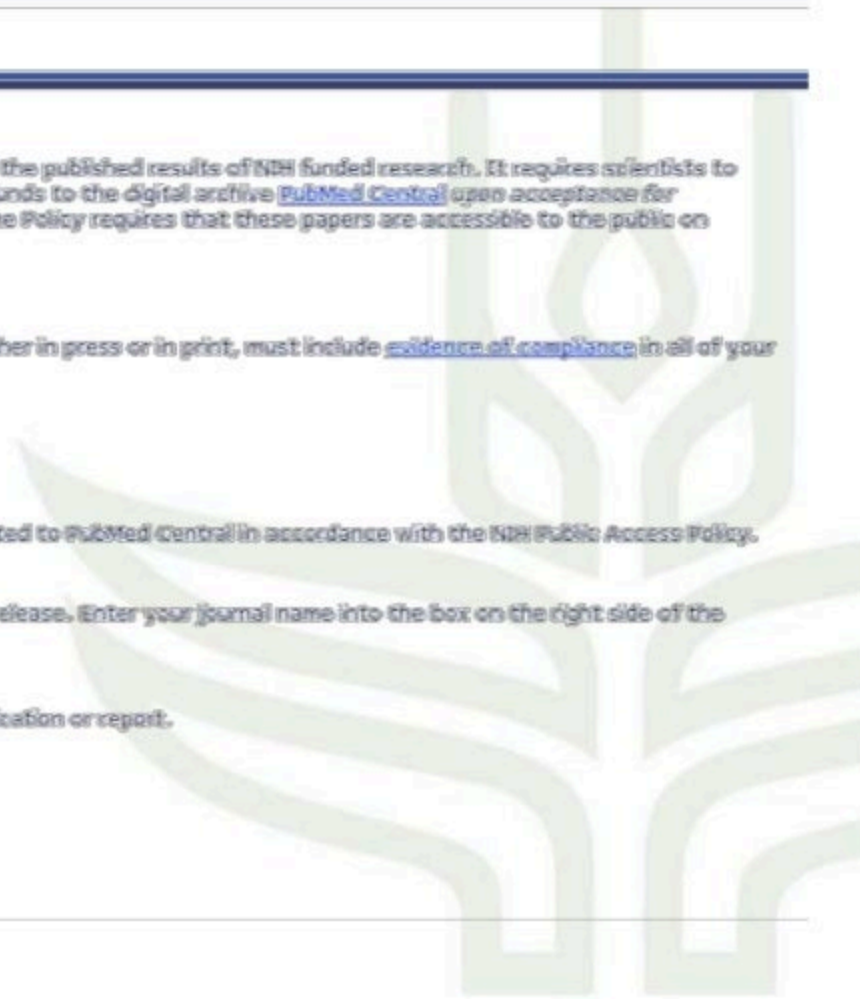
Overview

The [NIH Public Access Policy](#) ensures that the public has access to the published results of NIH funded research. It requires scientists to submit final peer-reviewed journal manuscripts that arise from NIH funds to the digital archive [PubMed Central](#) upon acceptance for publication. To help advance science and improve human health, the Policy requires that these papers are accessible to the public on PubMed Central no later than 12 months after publication.

How to Comply

All of your papers that fall under the NIH Public Access Policy, whether in press or in print, must include [evidence of compliance](#) in all of your NIH applications and reports.

1. [Determine Applicability](#)
Does the NIH Public Access Policy apply to your paper?
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Ensure your publishing agreement allows the paper to be posted to PubMed Central in accordance with the NIH Public Access Policy.
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CGIAR: Barriers to Opening Access to Research Products

- **Distributed governance of institutions**
- **Lack of formal overarching data and knowledge management vision or strategy**
- **Absence of agreed guidelines on implementing the principles**
- **Underinvestment in appropriate data and knowledge management cultures, platforms, and protocols**

CGIAR: Barriers to Opening Access to Research Products

- **Lack of widespread awareness of value of OA**
- **Long-established incentives to high-impact (closed) articles**
- **Lack of agreed means to pay for opening up access**

CGIAR: Barriers to Opening Access to Research Products

- **Lack of common and consistently-applied standards and best practices**
- **Too few specialized professional staff**
- **Inadequate technical infrastructure**
- **Few incentives, workplans and resources to curate and share data and knowledge**

D&K Efforts in CGIAR

- In CGIAR moral and business imperative
- New reality – more appropriate environments, incentives, and rewards for CGIAR scientists to develop, document and share D&KM outputs

CGIAR Intellectual Assets: New Vision

- 🔓 Results of research and development activities are international public goods
- 🔓 Open and free access to all research results and development activities is the default

Legal Framework

In March 2012 CGIAR Consortium Board approved Intellectual Assets Principles

Legal Framework: Principles

- 🔓 CGIAR research products shall be promptly and broadly *disseminated* in appropriate open digital formats that allow perpetual access
- 🔓 *Appropriate licensing* shall be adopted to allow and encourage widespread use and appropriation of CGIAR research products

Legal Framework: Principles

- CGIAR research products shall be described with appropriate *metadata* so its content can be *discovered* and shared across different platforms and applications, and can be incorporated into other systems and services, through using common protocols and formats

Legal Framework: Principles

- 🔓 Platforms and systems for storage and curation of CGIAR research products must be chosen considering *open standards* which will make data and information accessible and harvestable to ensure use, re-use and interoperability

Legal Framework: Principles

- CGIAR research products *should not be duplicated*, and efforts must be made to use appropriate, existing datasets and information to build upon

Institutional Opportunities in Reformed CGIAR

- **Performance contracts that include data delivery and documentation and the resources to deliver on those**
- **Legal and IP enablers: creating a legal environment that enables and promotes the free sharing of data and methods as international public goods**

Institutional Opportunities in Reformed CGIAR

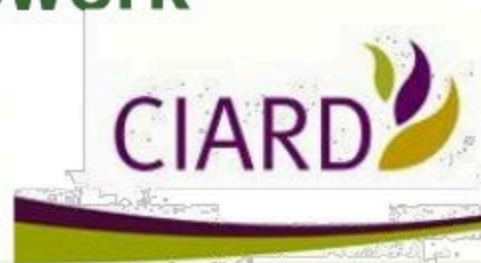
- **Best-of-breed processes and tools that facilitate best practice approaches to documentation and interoperability**
- **Annual performance processes that acknowledge and reward the publishing of data, methods and tools**

Institutional Opportunities in Reformed CGIAR

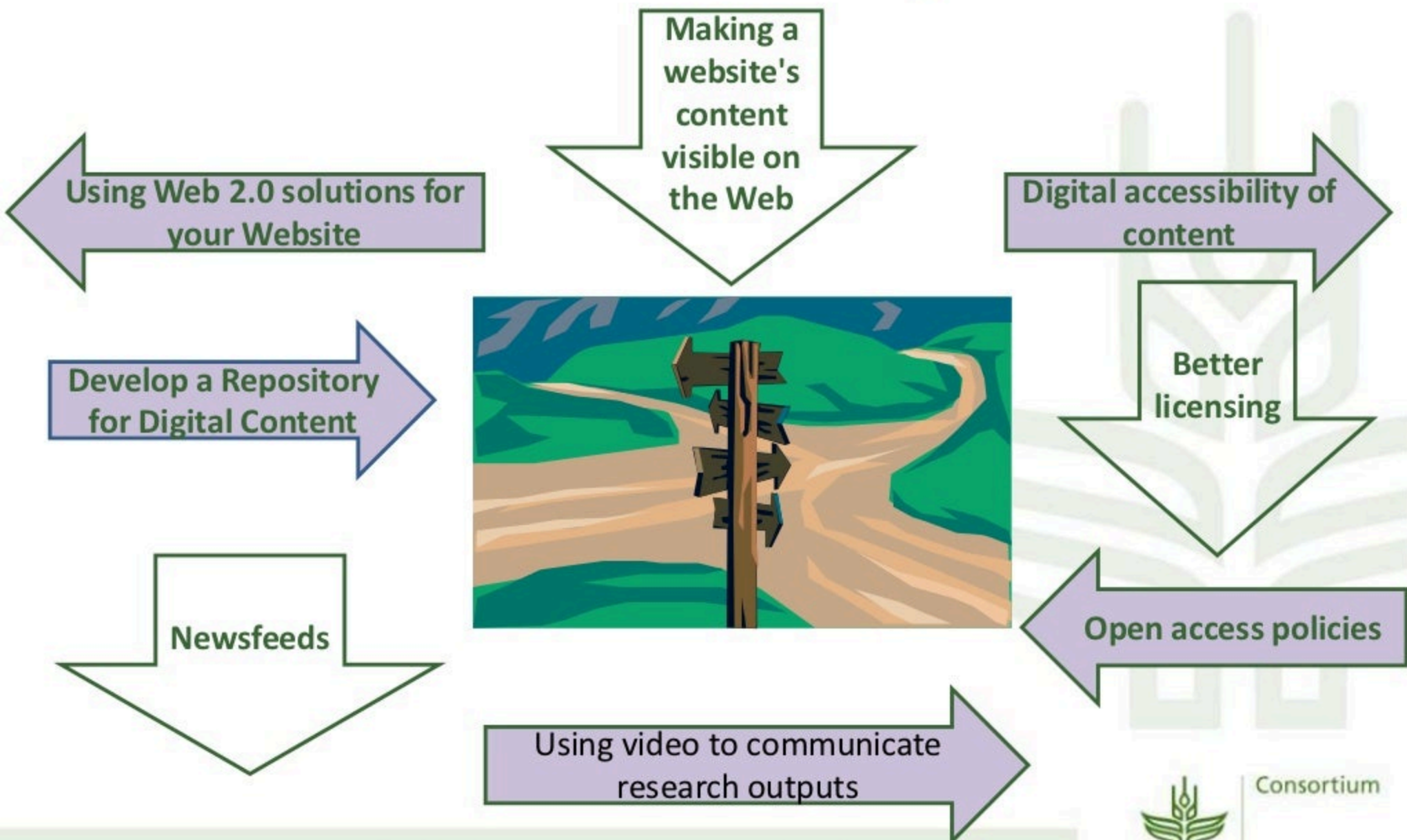
- **A scientific citation and publication process that treats published data and methods in the same way as peer-review journal articles**
- **Support to open knowledge sharing and learning environment – collaboration encouraged and rewarded**

How Do We Make Knowledge Travel?

- For knowledge to travel (and be used) people need:
 - ✓ To be able to find it (availability)
 - ✓ To be able to put their hands on it (accessibility)
 - ✓ To be able to make use of it and re-use it (applicability)
- CGIAR AAA framework
- CIARD Movement



Some Pathways




What are CGIAR Centers Doing

- Institutional repositories –
Dspace, Dataverse
- Creative commons licencing
- Use of 'social' platforms and tools
- Content available for re-use through RSS

Bio-informatics Portal


A CGIAR CHALLENGE PROGRAMME

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 **Generation Challenge Programme**
Partnerships in modern crop breeding for food security

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Welcome to the Bioinformatics Portal



In this portal an overview is given of the wide range of products and outputs that the CGP in its Subprogramme on 'Bioinformatics and Crop Information Systems' (SP4) has supported with the aim of facilitating the research in the GCP. The products that will be presented and, as far as possible, made accessible range from ready to install software packages to reports of projects and meetings.

The range of scientists and developers that we hope to support is very broad. It includes a GCP molecular geneticist who is struggling with a micro-array data set, an African breeder who is considering to do a QTL experiment, but also a European bioinformatician who is developing a protocol for exchanging characterization data on gene bank material in Europe. To serve such a broad range of users, the portfolio of products will be presented from a number of perspectives.

First of all we have the showcase of more or less ['ready to use' software packages](#), [HPC services and software](#), a list of [workshops and meetings](#) supported by SP4, and finally number a descriptions of [thematic areas](#), somehow ordered in a user oriented structure.

In the end we hope that many of you, after browsing through this portal, will find ideas to apply in your next research project, software to use in the analysis of your data, or colleagues to contact to ask for help or exchange experiences with. We have tried to keep the texts as short as possible to make it easy for you to navigate through the network of GCP products.

GCP Bioinformatics and Biometrics

- [Welcome](#)
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CGSpace



CGSpace beta a repository of research outputs

CGSpace Home

Welcome

This is a repository of agricultural research outputs and results produced by several CGIAR centers, initiatives, and challenge programs. 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 still in beta; it is supported by the CGIAR Challenge Program on Water and Food, the CGIAR Research Program on Climate Change, Agriculture and Food Security, the International Livestock Research Institute, and the World Agroforestry Centre.

Communities in CGSpace

Select a community to browse its collections.

- Africa RISING [68]
- Animal Genetic Resources Virtual Library [326]
- Center for International Forestry Research (CIFOR) [3480]
- CGIAR Challenge Program on Water and Food (CPWF) [1532]
- CGIAR Collective Action in Eastern and Southern Africa [47]
- CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) [283]
- CGIAR Research Program on Livestock and Fish [111]
- CGIAR System-wide Livestock Programme [300]
- CIMMYT [0]
- East Africa Dairy Development Project [62]
- ICRAF-ILRI Research Methods Group [33]
- ICRISAT [0]
- IGAD Livestock Policy Initiative [0]
- International Livestock Research Institute (ILRI) [7647]
- International Water Management Institute (IWMI) [2388]

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Enter some text in the box below to search CGSpace.

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CGIAR Library

The screenshot shows the CGIAR Library website. At the top, there is a green header with the CGIAR logo on the left, the word "Library" in the center, and the URL "www.cgiar.org" on the right. Below the header, there is a navigation bar with a home icon and a search icon. The main content area is divided into several sections:

- CGIAR Library**: A large heading followed by a brief description: "This is an online library of official documents, publications and communication materials produced by CGIAR. The CGIAR Library contains key records from the origins of the CGIAR in the late sixties to the present."
- Recent Submissions**: A section listing three recent publications, each with a thumbnail image and a brief description:
 - Annual progress report 2011: CGIAR Research Program on Forests, Trees and Agroforestry (ForestsTreesAgroforestry)**
AUGUST 29, 2012
Author(s): ForestsTreesAgroforestry - CIPAV
Subject(s): CRP Annual Progress Reports
 - CRP Portfolio Annual Progress Report 2011**
AUGUST 29, 2012
Author(s): CGIAR Consortium
Subject(s): CRP Progress Report
 - Annual progress report 2011: CGIAR Research Program on Rice (GRISP)**
AUGUST 29, 2012
Author(s): GRISP - IRRI
Subject(s): CRP Annual Progress Reports
- Browse the CGIAR Library**: A sidebar menu with the following options:
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 - By Issue Date
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CIAT Library



A Remarkable Record of Science for Change
Since 1967

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Communities and Collections

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

- **Electronic References** [3986]
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ICRISAT OA Repository



Open Access Repository
International Crops Research Institute for Semi-Arid Tropics

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Structure of Indebtedness of Households in Semi-Arid Tropics of India

Reddy, A A (2012) *Structure of Indebtedness of Households in Semi-Arid Tropics of India*. *Agricultural Economics Research Review*, 25. pp. 473-483. ISSN 0974-8279



PDF - Published Version
Restricted to ICRISAT users only
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Abstract

The credit delivery system in India comprises both formal and informal institutions. The formal system comprises commercial banks, regional rural banks and cooperatives, while the predominant informal sources of credit are commission agents, traders, friends and relatives, chit funds and more recently, self help groups. This paper has examined aspects like (i) who gets cheaper and who gets costly loans? (ii) how different borrowers and lenders are matched to each other? (iii) for what

CIMMYT OA Repository



Seeding innovation... Nourishing hope

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[Characterization of maize production in Southern Africa: synthesis of CIMMYT/DTMA household level farming system surveys in Angola, Malawi, Mozambique, Zambia and Zimbabwe](#)
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[Doubled haploid technology in maize breeding: theory and practice](#)
Prasanna, B.M.; Chaikam, V.; Mahuku, G. (2012)

[An innovation learning platform for drought tolerant maize in Malawi: lessons learned and the way forward](#)
Kassie, G.T.; Erenstein, O.; Mwangi, W.M.; Setimela, P.; Langyintuo, A.; Kaonga, K.K. (2012)

[Laboratorio de calidad nutricional de maíz y análisis de tejido vegetal: protocolos de laboratorio 2012](#)
Galicía, L.; Miranda, A.; Gutiérrez, M.G.; Custodio, O.; Rosales, A.; Ruiz, N.; Surfes, R.; Palacios, N. (2012)

About Repository

Free, open access repository of full-text scholarly literature written by CIMMYT scientists.

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For more information about CIMMYT visit www.cimmyt.org

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- [Insect pests of maize: a guide for field identification](#)
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Kassie, G.T.; Erenstein, O.; Mwangi, W.M.; LaRovere, P.S.; Langyintuo, A. (2012)

[Doubled haploid technology in maize breeding: theory and practice](#)

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Galicia, L.; Miranda, A.; Gutierrez, M.G.; Custodio, O.; Rosales, A.; Ruiz, N.; Surles, R.; Palacios, N. (2012)

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Wheat Atlas

An online portal to diverse information on wheat production, markets and research, with particular focus on the developing countries. The information is geographically organized, and can be visualized using maps and charts.

Wheat Science News

Antioxidant Enzyme Responses of Winter Wheat to Drought Stress - CO2 Science Magazine - Sep 18 2012

Leaf wax may prevent heat stress in wheat - Phys.Org - Sep 10 2012

Bulgarians cultivating ancient einkorn grain - Reuters - Aug 14 2012

Useful Resources

CIMMYT

Wheat Doctor

Wheat Initiative

Borlaug Global Rust Initiative

RustTracker.org



World Wheat News

Curated by International Maize and Who...



Un nouvel Eldorado pour le blé en Afrique

La flambée des cours mondiaux et les nouveaux modes de consommation urbains en Afrique rendent la culture du blé, longtemps négligée au profit du maïs, de nouveau rentable pour le continent où la demande explose.

Scoop.72

- Wheat was one of the first domesticated food crops and for 8000 years has been the basic staple food of major civilizations in Europe, West Asia, and North Africa.
- Wheat is being harvested somewhere in the world in any given month.
- World trade for wheat is greater than for all other crops combined.
- Wheat provides more nourishment for humans than any other food source.



ICRAF Dataverse



World Agroforestry Centre
TRANSFORMING LIVES AND LANDSCAPES

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- Eastern Africa
- Latin America
- South Asia
- South East Asia
- Southern Africa
- West & Central Africa

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ICRAF - Data Collection Region (All)

Effects of region, soil, land use and terrain type on fuelwood properties of five tree/shrub species in the Sahelian and Sudanian ecozones of Mali
by Carmen Sotelo Montes
Abstract: Context There is little information about inter- and intra-specific variation in fuelwood properties of trees/shrubs in West Africa. • Aims We studied variation in fuelwood properties of *Balanites aegyptiaca*, *Combretum glutinosum*, *Guiera s...* [Continue \[+\]](#)
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Last Released: Oct 10, 2012

Evergreen Agriculture Baseline Survey
by Jonathan Muriuki
Abstract: Evergreen Agriculture combines agroforestry (trees on farm) with the principles of conservation Agriculture (minimum tillage, crop rotations/associations and maximum soil cover). It is emerging as an affordable and accessible science-based... [Continue \[+\]](#)
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Last Released: Sep 17, 2012

CAWT Survey: Scaling-up the science and practice of conservation agriculture in sub-saharan Africa
by Jonathan Muriuki; Peter Gachie
Abstract: An evergreen revolution is required in sub-Saharan Africa where increased human and livestock activities have led to the collapse of conventional soil conservation systems and increased land degradation – soil compaction, nutrient and orga... [Continue \[+\]](#)
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Replication data for: Farmers' preferences for tree functions and species in the West African Sahel
by John C. Weber
Abstract: Parkland agroforests are mixtures of trees and shrubs that farmers select for certain functions and cultivate together with staple food crops. In the West African Sahel, parkland trees and shrubs provide essential products and services for... [Continue \[+\]](#)
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2012 Global Hunger Index Data

by von Grebmer, Klaus; Ringler, Claudia; Rosegrant, Mark W.; Olofinbiyi, Tolulope; Wiesmann, Doris; Fritschel, Heidi; Badiane, Ousmane; Torero, Maximo; Yohannes, Yisehac; Thompson, Jennifer; von Oppeln, Constanze; Rahall, Joseph

Abstract:

The 2012 GHI report focuses particularly on the issue of how to ensure sustainable food security under conditions of water, land, and energy stress. Demographic changes, rising incomes and associated consumption patterns, and climate change... [Continue \[+\]](#)

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Chronic Poverty and Long Term Impact Study in Bangladesh

by Agnes Quisumbing, Bob Baulch

Abstract: The Chronic Poverty and Long Term Impact Study in Bangladesh project, which focuses on 102 villages characteristic of rural Bangladesh, aims to further our understanding of the economic, social and political processes that shape chronic poverty... [Continue \[+\]](#)

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Ethiopian Rural Household Surveys (ERHS)

by John Hoddinott, Yisehac Yohannes

Abstract: The Ethiopia Rural Household Survey (ERHS) is a unique longitudinal household data set covering households in a number of villages in rural Ethiopia. Data collection started in 1989, when a team visited 6 farming villages in Central and Southern... [Continue \[+\]](#)

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Diversidad genética de la colección núcleo de silvestres de frijol común (*Phaseolus vulgaris* L.) analizados mediante microsatélites fluorescentes

by Alvaro Soler Garzón

Abstract: Las colecciones núcleo desarrollan un papel importante en la utilización de los recursos genéticos, ya que poseen el material prioritario para la mejora. El desarrollo y la aplicación de SSRs facilitan la adquisición de una gran cantidad d... [Continue \[+\]](#)

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- C2: Management and conservation of forest and tree resources
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[Integrating Livelihoods and Multiple Biodiversity Values in Landscape Mosaics](#)

by Jean-Laurent Pfund; Laurène Feintrenie; Made Agustavia; Iswan Rolland; Adeline Jalouç; Mathilde Hubert; Asep Ayat; Salla Rantala; Heini Vihemaki; Sonya Dewi ; Andree Ekadinata

Abstract: The project, "Integrating Livelihoods and Multiple Biodiversity Values in Landscape Mosaics (or the Landscape Mosaics Project in short)", was the first project of the CIFOR-ICRAF Biodiversity Platform. The project conducted research on soc...[Continue \[*\]](#)

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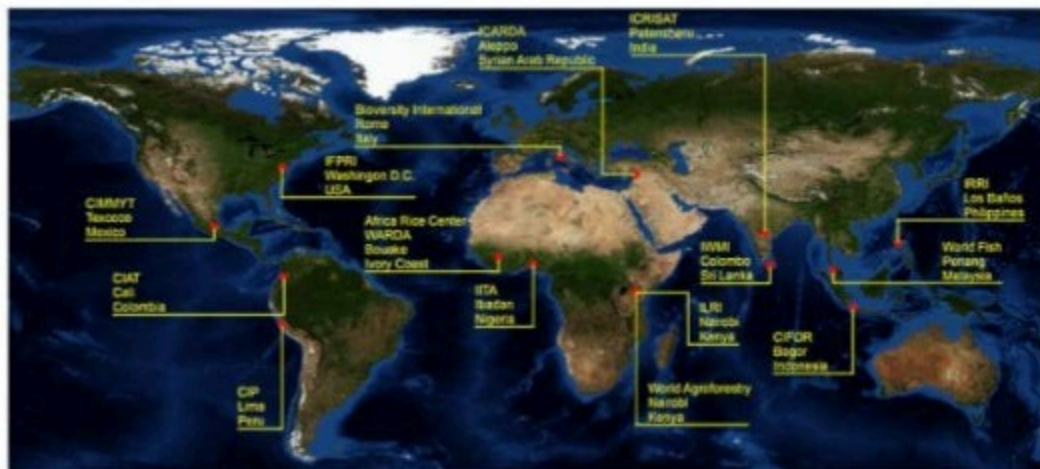


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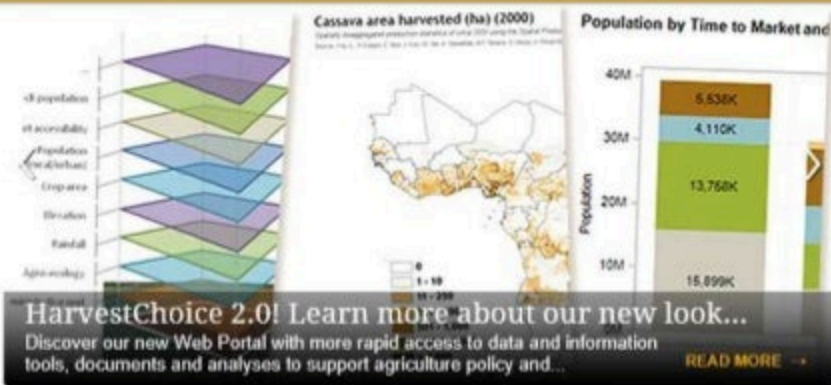
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What we think

JAN 11, 2012
 Measuring global food insecurity, and increasing food supplies... sustainably

NOV 7, 2011
 African Agricultural R&D: Why it matters to the rest of us (VIDEO)

NOV 3, 2011
 Prabhu Pingali on the Gates Foundation's Agriculture Strategy (and HarvestChoice)

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Sub-national Poverty and Extreme Poverty Prevalence

Please refer to our [Labs post](#) for complete documentation and sources.

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Author Info

- Shanmugan, Priya
- Rehman, Nazmul
- Gondalwala, Rajeev S.
- Pradhan, Suresh

Abstract

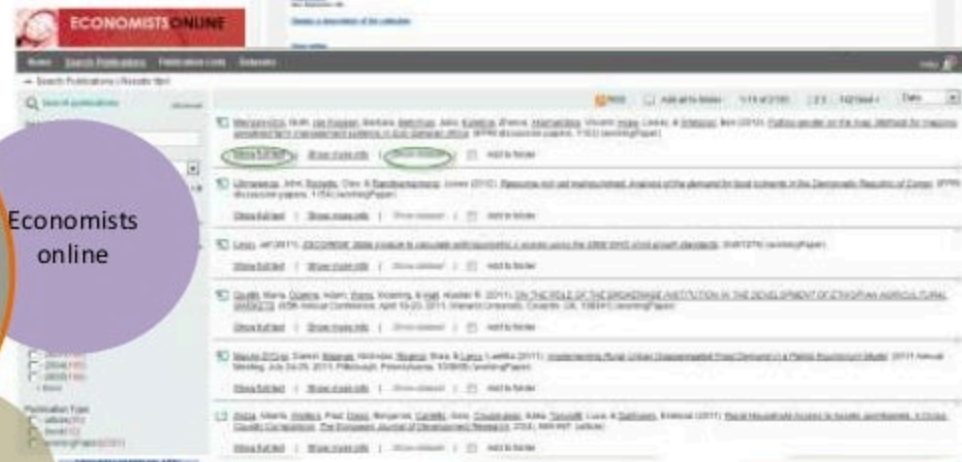
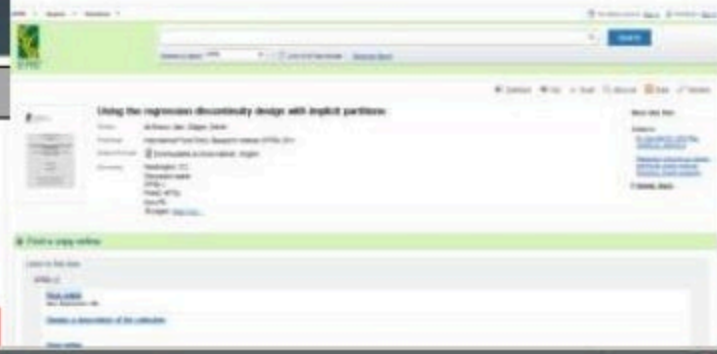
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2012 Global Hunger Index Data

by von Grebmer, Klaus; Ringler, Claudio; Rosegrant, Mark W.; Odiitanyi, Takago; Wiesmann, Doris; Fritschel, Heidi; Badiane, Ousmane; Torero, Maximo; Yohannes, Yitshac; Thompson, Jennifer; von Copein, Constanze; Rahal, Joseph

Abstract: The 2012 GHI report focuses particularly on the issue of how to ensure sustainable food security under conditions of water, land, and energy stress. Demographic changes, rising incomes and associated consumption patterns, and climate change... [Continue](#) [-]

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Scott McKeen; Agnes Quisumbing, 2014, "Philippines, Bukidnon Panel Survey, 2003-2004", <http://hdl.handle.net/1902.1/18224> International Food Policy Research Institute (Distributor) V1 [Version]

Publications	Groups, networks, and social capital in the Philippine communities, CAPRI Working Paper, Project Papers and Notes, 2009
Data Citation Details™	
Study Global ID	hdl:1902.1/17008
Authors	Scott McKeen (International Food Policy Research Institute); Agnes Quisumbing (International Food Policy Research Institute)
Producer	International Food Policy Research Institute (IFPRI)
Production Date	2009
Production Place	Washington, D.C.
Software	STATA, EXCEL

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A 2006 SOCIAL ACCOUNTING MATRIX FOR RWANDA

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Study Global ID	hdl:1902.1/18224
Authors	Xinshen Diao (International Food Policy Research Institute)
Producer	International Food Policy Research Institute (IFPRI)
Production Date	2012

Developing a Road Map: Ideas for Collective Actions

1. **CGIAR Open Access Policy & Guidelines**
2. **Plant Data Management System**
3. **Spatial Information System**
4. **Research Project Management System**
5. **CGIAR Knowledge Commons**

A Few Reflections

- **Philosophy: open formats, free of charge, licensed to reuse, and visually compelling**
- **Leadership support**
- **Open data infrastructure**
- **Carrots and sticks**



Questions

