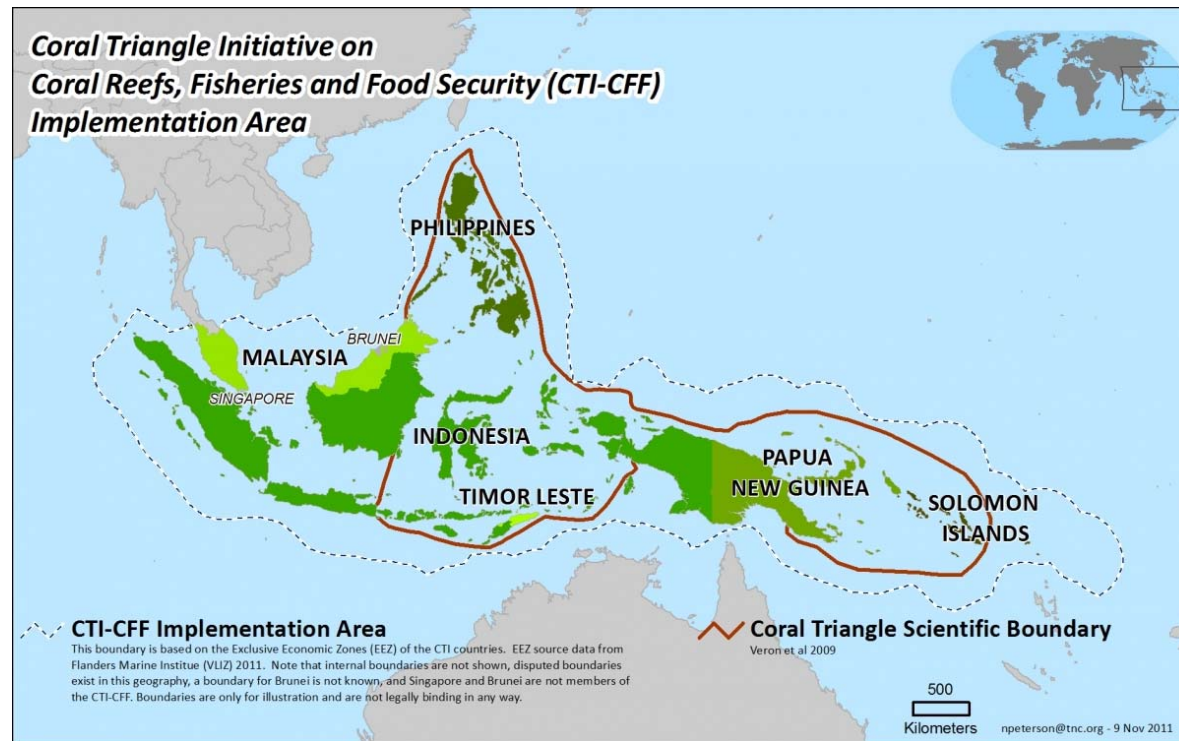


Jeanette Norris
Jul. 22, 2013
IAALD World Congress
Ithaca, New York



The Data Landscape of the Coral Triangle

Coral Triangle Initiative



- Multilateral
- Ecosystem Approach to Fishery Management
- Sustainable Food Sources
- Biodiversity

Coral Triangle Initiative Objectives

- Strengthening the management of seascapes
- Promoting an ecosystem approach to fishery management
- Establishing and improving effective management of marine protected areas
- Improving coastal community resilience to climate change
- Protecting threatened species.

www.coraltriangleinitiative.org/about-us

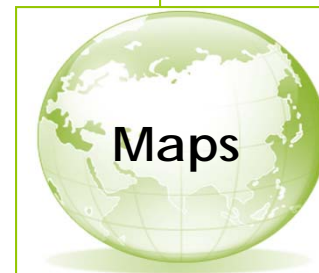
Data & Decision Tools

Data themes

- Easy to use
- Easy to obtain
- Accurate data is important
- Missing data shouldn't halt planning and implementation

Programs

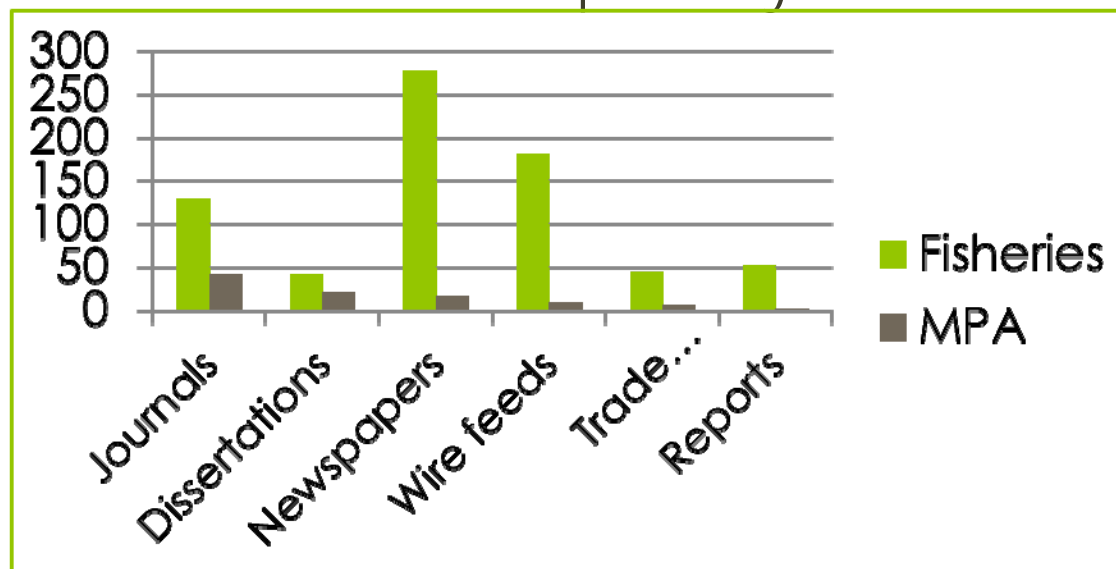
FISH-DA • TURF •
COASTPLAN



Data sources

Research on the Coral Triangle

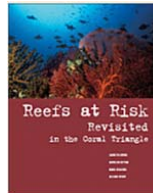
- "Coral Triangle" and Fisheries yields **741** hits from the past 5 years
- "Coral Triangle" and "Marine Protected Areas" yields **95** hits from the past 5 years



* From ProQuest, as licensed by Syracuse University.

Usability?

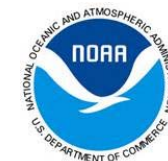
Datasets & the Coral Triangle



[Mob](#)



DMSP-OLS



Datasets & the Coral Triangle

SOCIOECONOMIC

DMSP-OLS



Datasets & the Coral Triangle



[Mob](#)



[LifeB](#)



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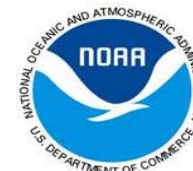


Datasets & the Coral Triangle

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GEO Portal



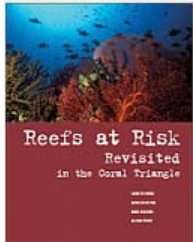
Managing the Data differences

- Variety of Subjects
 - Diversity
 - Interrelations
- Use of Geographic Data
- The variety of products, types of access available.



CTI and Data Tools : Coral Triangle Atlas

- Portal to other sources
 - UNEP-WCMC
 - NOAA
- Geographic Information Science Visualization
 - GIS
 - Interactive Layers
- Access to some raw datasets



Data Modeling: Reefs at Risk Revisited – Coral Triangle

- Treatment of socioeconomic data
 - Creation of aggregated Socioeconomic data products
- Use of GIS
 - Collates information in the process of modeling relationships
- Threats
 - Creates products based on generalized data to take different types of threats into account, without over-complicating the analysis

Effects of Data Curation Practices

- Conserves data
 - Gives it context and structure
- Focuses on individual fields
 - High formalized metadata systems, specialized for particular fields
 - Creates need for crosswalks or other forms of interoperability
- Can to discoverability from external fields

What does this mean for Data Curation and the Coral Triangle?

- Accessing available resources is complex due to the sheer variety
 - Of content, access, and formats
- Differing levels of required technical expertise
 - Can affect ability at access data

How we shape the data landscape of the Coral Triangle

- ◉ Affecting the discoverability of data
- ◉ Addressing challenges of interoperability
- ◉ Ensuring the curation of local survey data
 - ◉ Making it discoverable
 - ◉ Giving it context
 - ◉ Making it interoperable

References

- About Coral Triangle Atlas. (n.d.). *Coral Triangle Atlas*. Retrieved July 16, 2013, from <http://ctatlas.reefbase.org/about.aspx>
- Burke, L. (2012). *Reefs at risk revisited in the coral triangle*. Washington, DC: World Resources Institute.
- Cabral, Reniel B., David, Eduardo D., Jr., Geronimo, Rollan C., Lim, May T., & Alino, Porfirio M. (2010). *Coastal Assessment Tool and Planning Software (COASTPLAN) Tool Demonstration Guide*. Quezon City, Philippines: Marine Environment & Resources Foundation, Inc. Retrieved from <http://www.coraltriangleinitiative.net/knowledge-hub/tools-and-systems/coastplan/fact-sheet-on-coastplan>
- Cabral, Reniel B., Geronimo, Rollan C., & Alino, Porfirio M. (2010). *Fishing Industries' Support in Handling Decision Applications (FISHDA) Tool Demonstration Guide*. Quezon City, Philippines: Marine Environment & Resources Foundation, Inc. Retrieved from <http://www.coraltriangleinitiative.net/knowledge-hub/document-library/decision-support-systems/fishing-industries2019-support-in-handling-decision-applications-fishda-tool-demonstration-guide/view>
- Coral Triangle Initiative. (n.d.). About CTI-CFF. Retrieved July 19, 2013, from <http://www.coraltriangleinitiative.org/about-us>
- Zeng, M. L., Qin, J. (2008). *Metadata*. New York: Neal-Schuman Publishers.

Data Resources

- [Defense Meteorological Satellite Program/Operational Linescan System \(DMSP/OLS\) Products](#)
- [COREMAP](#)
- [OBIS \(Ocean Biogeographic Information System\)](#)
- [Global Biodiversity Information Facility \(GBIF\)](#)
- [FishBase](#)
- [SeaLifeBase](#)
- [ReefBase](#)
- [NOAA Coral Reef Watch](#)
- [Global Observation of Forest Cover and Land Dynamics \(GOFC-GOLD\)](#)
- [GlobCover](#)
- [Culture-MERIS](#)
- [NASA's Ocean COLOR](#)
- [Argo](#)
- [SocMon](#)
- [SEDAC](#)
- [GEO Portal](#)
- [GOSIC \(included in GEOportal\)](#)
- [Climate Data Online \(CDO\)](#)
- [United Nations Environment Programme World Conservation Monitoring Centre \(UNEP-WCMC\)](#)
- [FAO- GeoNetwork](#)
- [World Meteorological information](#)
- [World Bank Data Bank](#)
- [REDD](#)
- [The Nature Conservancy Conservation Maps and GIS Data](#)



Thank You!

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Contact us at:

Email:

teeal@cornell.edu

Website: <http://teeal.org>

TEEAL and Access to e-Resources in sub-Saharan Africa

Mary Ochs (Mann Library, Cornell)

Gracian Chimwaza (ITOCA)

Joy Paulson (Mann Library, Cornell)

22 July 2013



Cornell University
Albert R. Mann Library





What is TEEAL?

- “library in a box” containing 240+ of the world’s key agricultural journals
- Offline, via a local network or a single PC
 - no Internet required
- Journals starting from the 1990s
- Updated annually - previous year’s content





Cornell University
Albert R. Mann Library





Who Uses TEEAL?

TEEAL is primarily used by students, faculty, staff, and researchers

TEEAL is available to educational and research institutions in countries in Africa, Latin America, the Middle East, Asia, and Eastern Europe

Currently 381 TEEAL sets in place in 87 countries



Cornell University
Albert R. Mann Library





TEEAL is used around the world



Cornell University
Albert R. Mann Library





Monitoring and Evaluation

- Multi-faceted approach
 - Surveys
 - Research Paper Contest
 - Gender Equity Assessment
 - Usage statistics (difficult in offline environment!)
 - Bibliometrics
- No one approach can tell the whole story





Two Surveys

- 31 institutions in 6 countries (Nigeria, Ethiopia, Kenya, Uganda, Zimbabwe, and Tanzania)
 - Librarians/IT staff to determine e-readiness
 - Researchers at institutions with TEEAL to determine motivators for carrying out research, publishing their work, and incorporating research-based information into their teaching





E-Readiness Survey: Assess the use and relevance of TEEAL at client institutions

- What is the current and projected state of internet readiness and IT capabilities at TEEAL client institutions?
- What is the degree of TEEAL integration at these institutions? What programs and services are offered by client libraries to support research needs at their respective institutions?





“My institution continues to update (the) TEEAL Database set because: (1) TEEAL users at Obafemi Awolowo University (OAU) increase rapidly due to its academic significance. (2) The TEEAL is absolutely OFFLINE scholarly Database which is highly useful in an environment with epileptic and snail-speed Internet connectivity.”

Mr. Olujide Francis Oguntoye, Obafemi Awolowo University in Nigeria





Researcher Survey: Identify factors that motivate scientists to produce greater research output at a better quality

- What are the major factors that motivate African scientists to produce greater research output at a better quality?
- What are the major factors that motivate African scientists to integrate research information into their teaching activities?





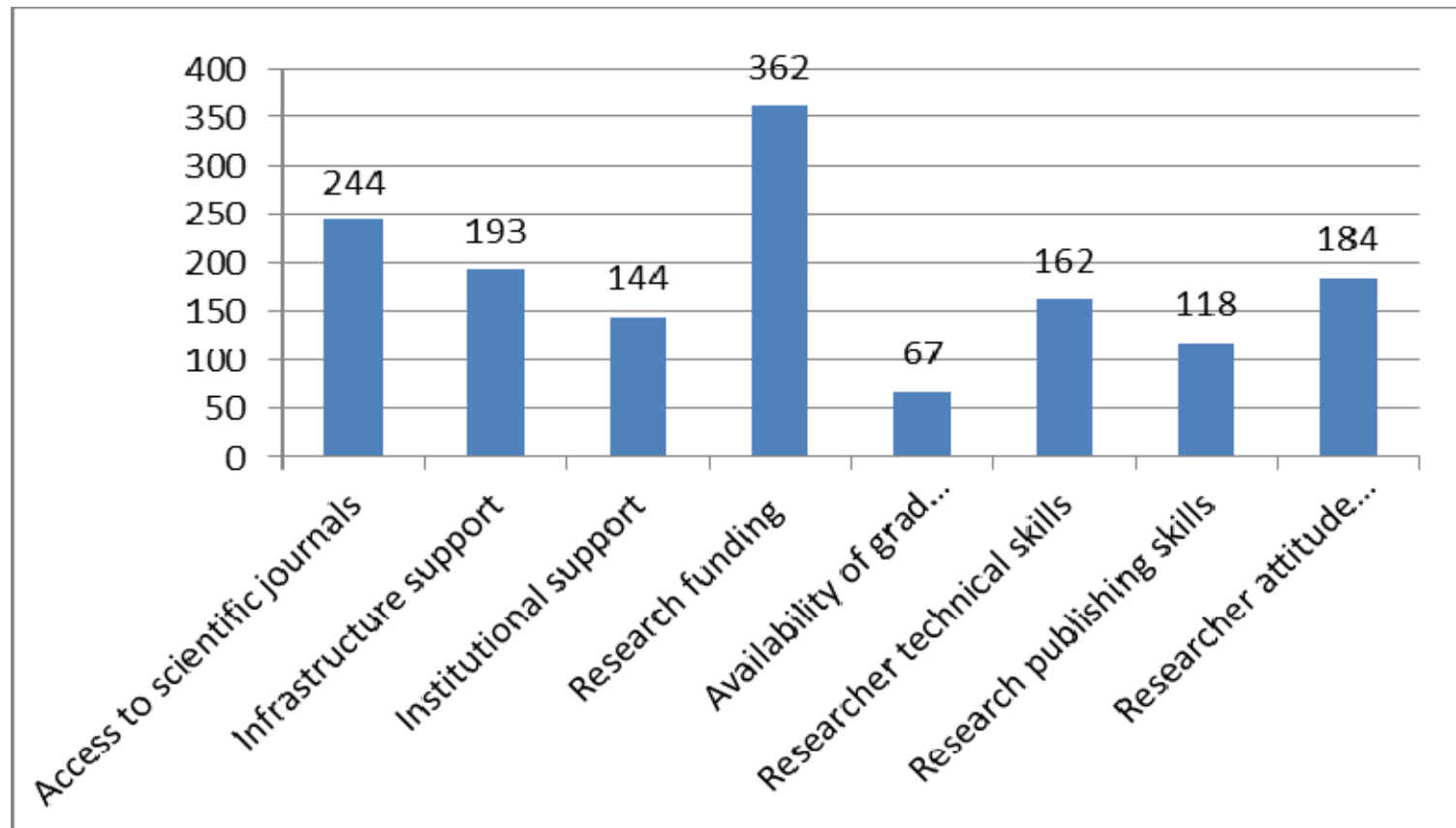
Survey 2: Researchers survey

- 730 cases from all 14 countries
 - 267 online
 - 463 in person print survey
- Nigeria ◦ Ethiopia ◦ Uganda ◦ Rwanda ◦ Kenya ◦ Zimbabwe ◦ Zambia ◦ Mozambique ◦ Ghana ◦ Tanzania ◦ Cameroon ◦ Malawi ◦ Lesotho ◦ Swaziland



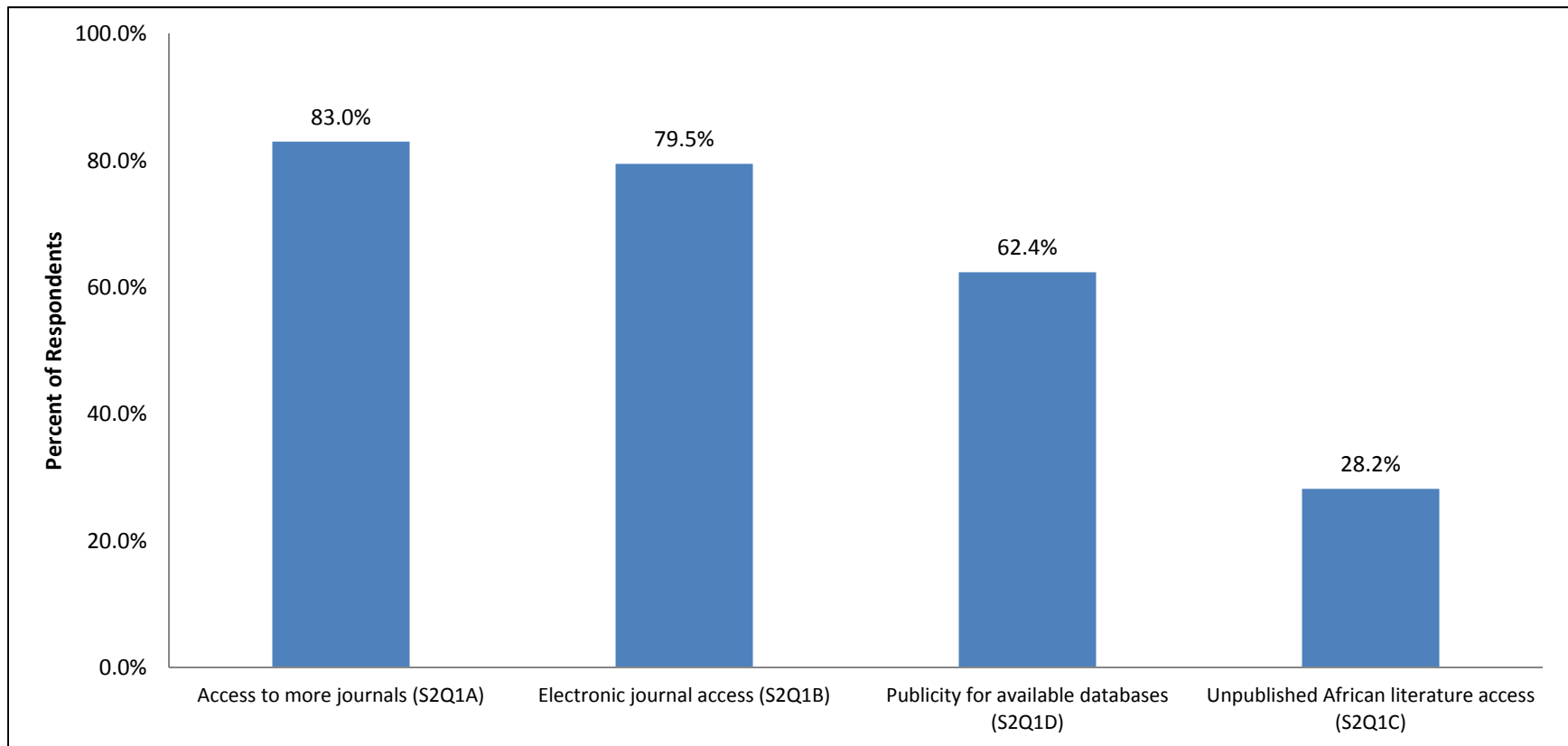


Ranking of areas of importance to researchers



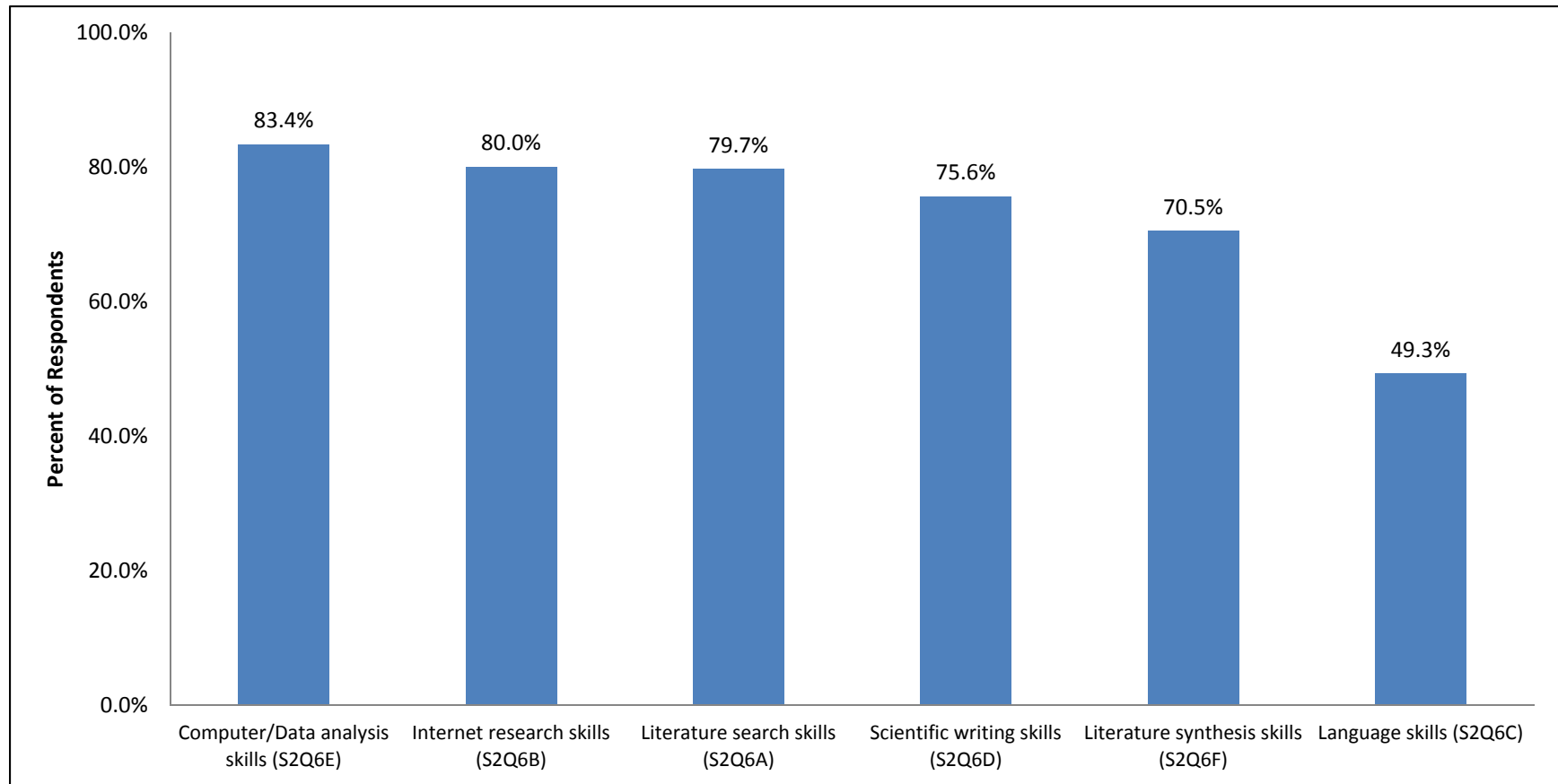


Percentage of respondents reporting “a lot more motivated” with further access to journals.



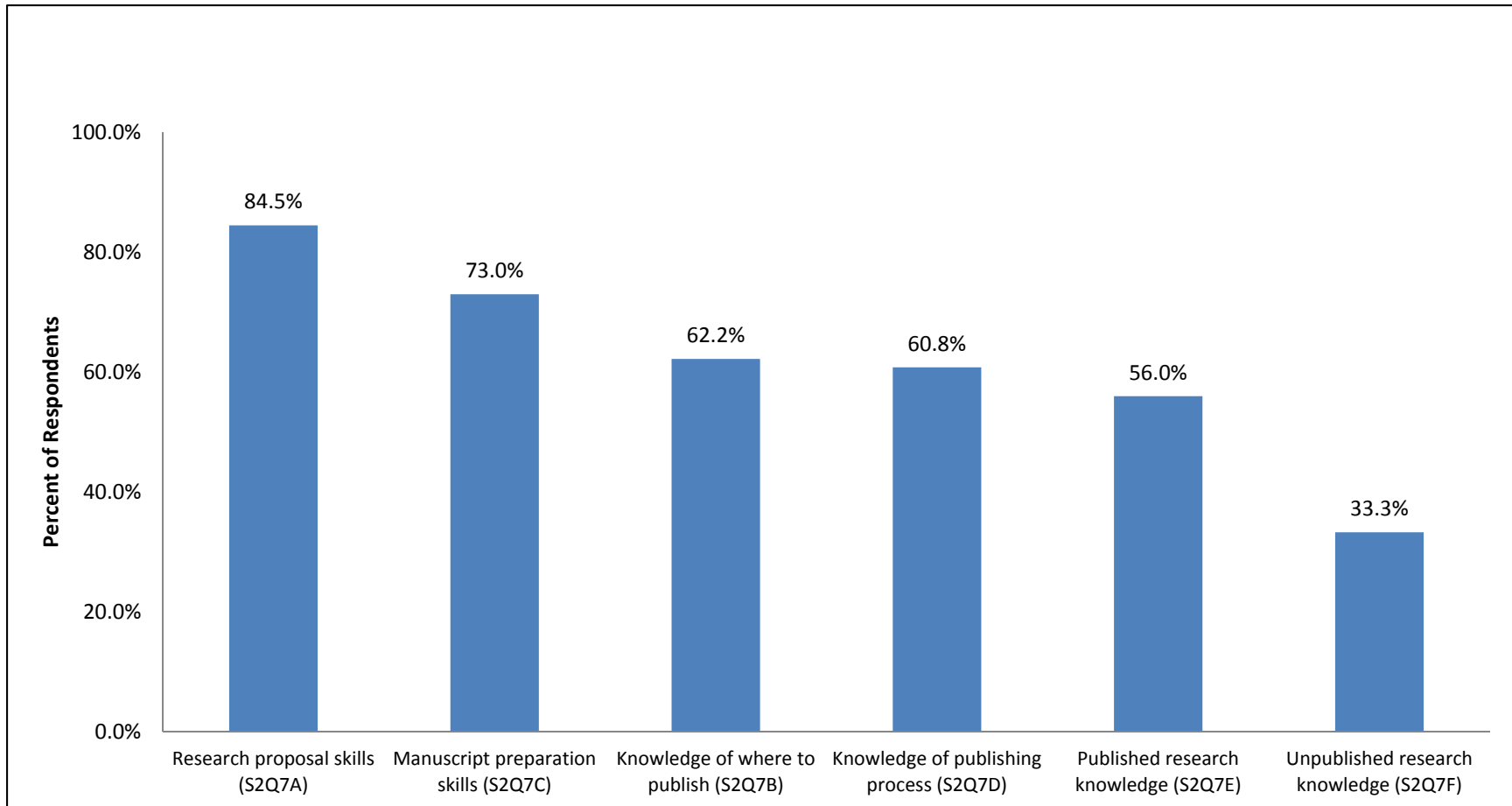


Percentage of respondents reporting “a lot more motivated” with increased technical skills





Percentage of respondents reporting “a lot more motivated” with increased skills in publishing





- For further information on TEEAL please visit our website: <http://www.teeal.org>.
- Email TEEAL at teeal@cornell.edu
- Email Joy Paulson (jp243@cornell.edu), Mary Ochs (mao4@cornell.edu), or Gracian Chimwaza (gracian@itoca.org).



XIVth IAALD world congress: Emerging priorities for scientific & agricultural Information

July 21-25, 2013; Cornell University, NY USA

AGRICULTURAL INFORMATION ACCESS AMONG SMALLHOLDER FARMERS: COMPARATIVE ASSESSMENT OF PERI-URBAN AND RURAL SETTINGS IN KENYA

Dorine Odongo

Odongo.dorine@gmail.com

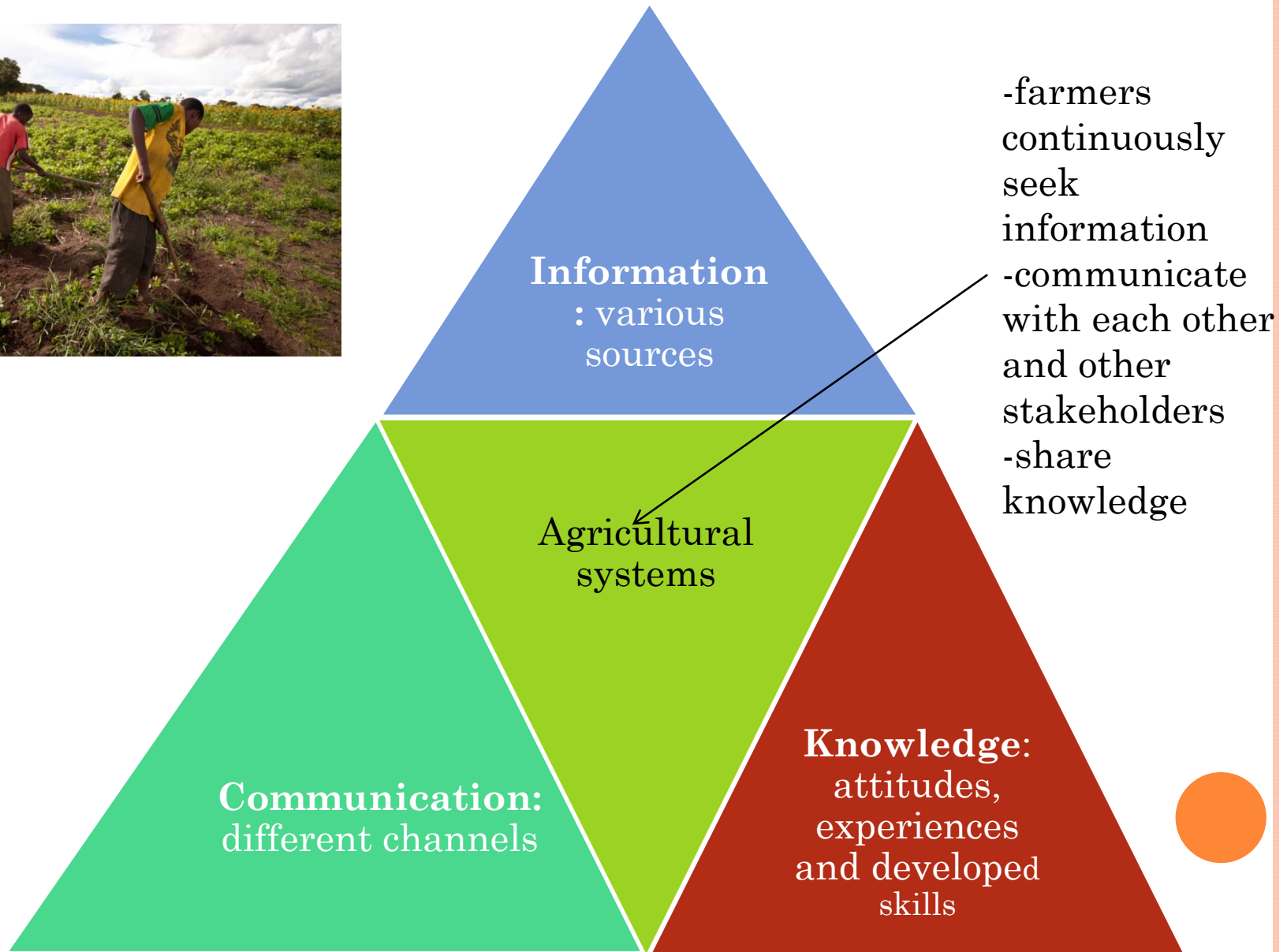
The Scinnovent Centre

PRESENTATION OUTLINE


- Introduction
- Status of extension and advisory services in Kenya (extension system Landscape)
- Study design
- Results
- Explaining the results
- Conclusion and recommendations



KNOWLEDGE, INFORMATION AND COMMUNICATION IN AGRICULTURE



OVERVIEW OF KNOWLEDGE MANAGEMENT IN AGRICULTURE SECTOR (*WITH RESPECT TO GENERATION AND DISSEMINATION*)

- 28 agencies that engage in agricultural research (SRA, 2004) → public-funded, commodity funded and international institutions
 - Universities and other technical institutions
 - Agricultural extension and advisory service providers → government and non-government
 - ICT-based innovations → Kenya an ICT hub
 - Indigenous Knowledge
- 

EXTENSION AND ADVISORY SERVICES

- Research and extension → some of the most knowledge intensive elements of agricultural innovation systems
- Extension services improve the knowledge base of farmers through a variety of means
- Agricultural extension operates within a broader knowledge system that includes research and agricultural education (*Rivera et al., 2001*).



EXTENSION SYSTEM LANDSCAPE

-Government extension system →
constrained: ration of extension
officer to farm households → 1: 1093

New policy → National
Agricultural Sector
Extension Policy
(NASEP, 2008)

NASEP 2008, →
Innovative approaches:

potential for enhancing
access to information

- pluralistic approach in extension service provision, → various actors involved
- ICT-based services facilitated

- To what extent has this potential been tapped?
- What is the status of adoption of the innovations?



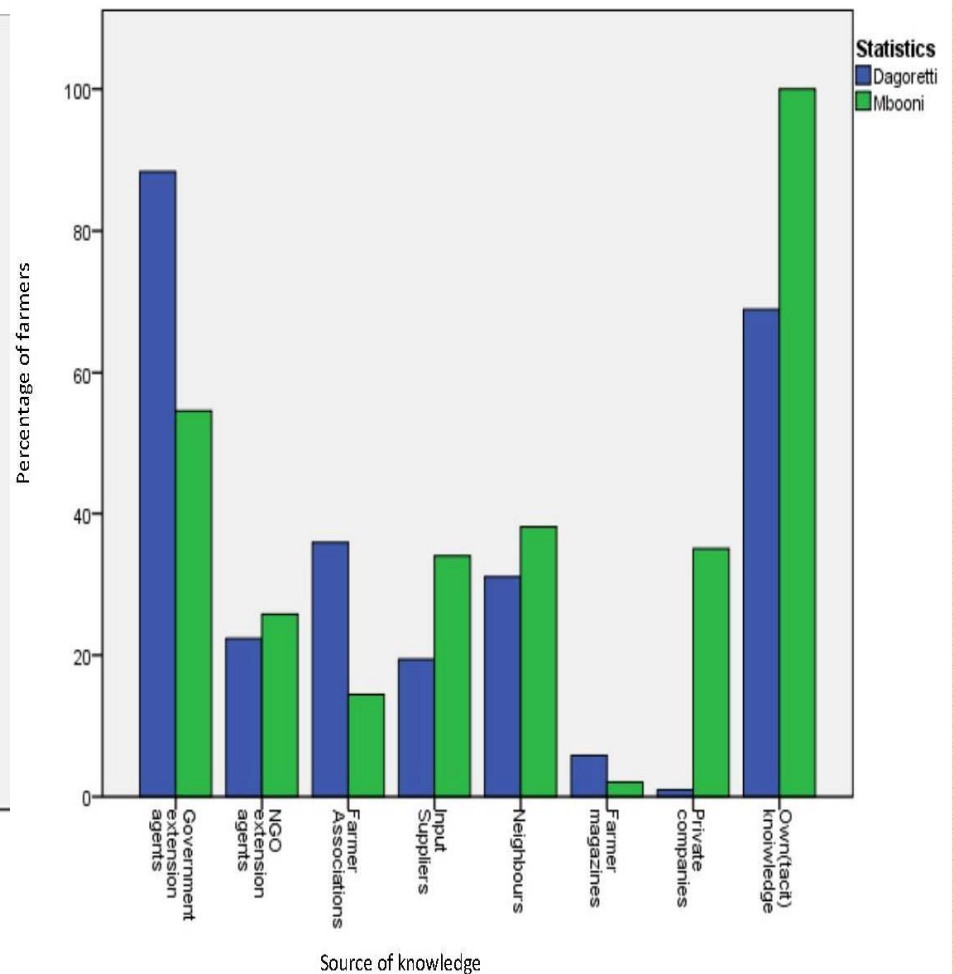
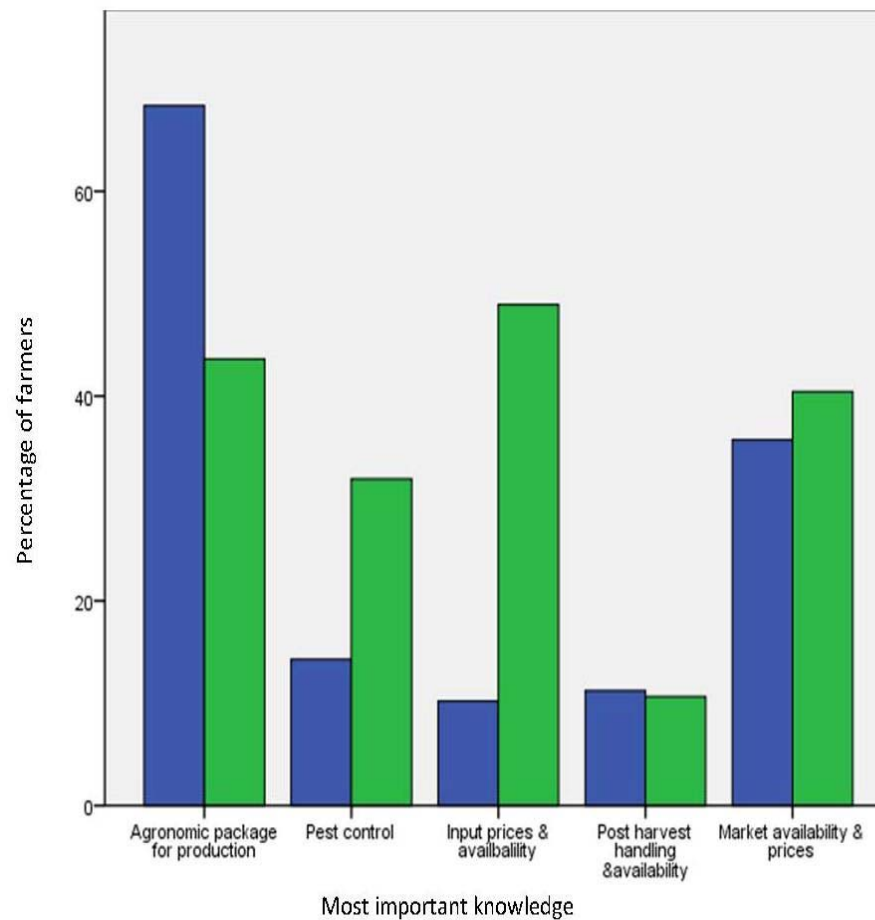
CASE STUDY

- Comparative study between peri-urban and rural settings of Kenya (February –May 2012)
 - Dagoretti district (outskirts of capital ➔ 11.9 km)
 - Mbooni district (rural Eastern Kenya)
- Purposive sampling
- Questionnaires
- Focused group discussions
- Key informant interviews
- SPSS



RESULTS

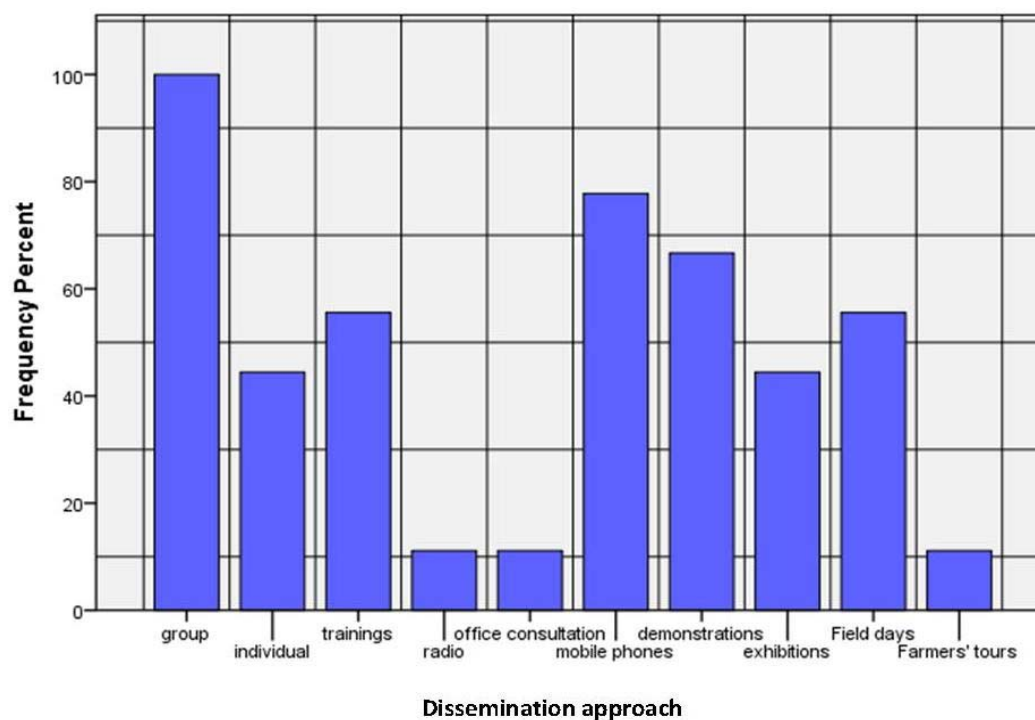
- Farmers' information needs differ significantly between the two settings agronomic package, $p=0.002$; pest control, $p=0.003$; inputs, $p=0.000$) → influences the sources of knowledge commonly used



- Sources used most often differs:

District	Source used most often							
	government extension agents	NGO extension agents	farmer associations	input suppliers	neighbours	own knowledge	farmer magazine	private companies
Dagoretti	76.7%	1.0%	4.9%	2.9%	5.8%	7.8%	1.0%	0.0%
Mbooni	28.9%	1.0%	3.1%	10.3%	12.4%	17.5%	0.0%	26.8%

- Tools and approaches used by extension agents are not significantly different:



DIFFERENT ICT TYPES USED BY FARMERS:

Information Communication Technology

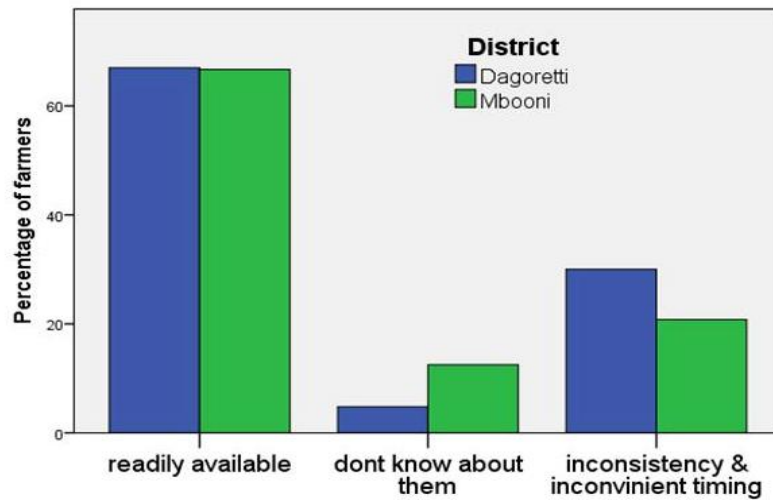


- Radio → most popular in both settings, mobile → more popular in rural than peri-urban setting, TVs → more popular in peri-urban; internet use → very low

District		types of ICT used to acquire knowledge			
		Radio	Television	Mobile phones	Internet
	Count	65	43	17	19
Dagoretti	% within district	87.80%	58.10%	23.00%	25.70%
	Count	58	11	25	3
Mbooni	% within district	90.60%	17.20%	39.10%	4.70%
	Count	123	54	42	22
Total	% of Total	89.10%	39.10%	30.40%	15.90%

REASONS INFLUENCING FARMERS' ACCESS OF ICT-BASED INNOVATIONS:

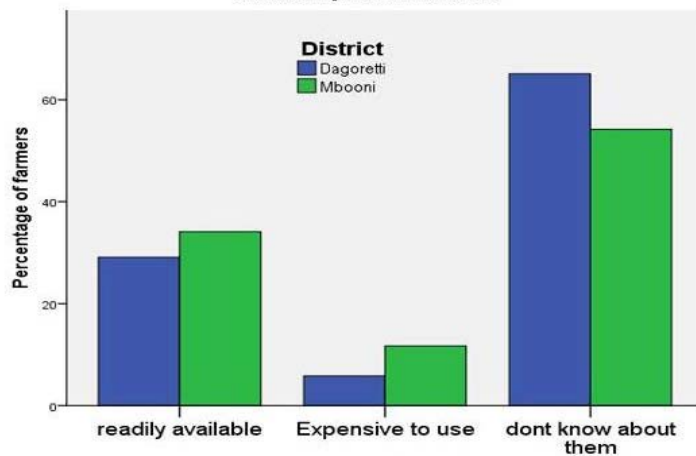
Radio



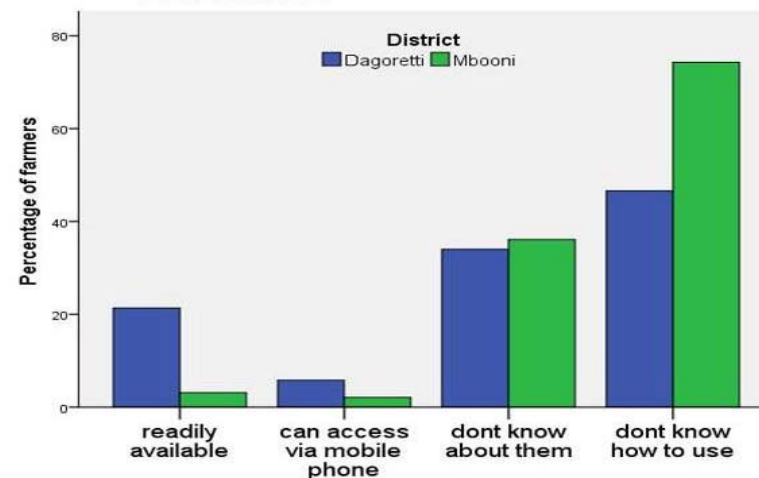
Television



Mobile phone-based



Internet-based



EXPLAINING THE RESULTS

- Difference in information needs and subsequent difference in knowledge source used, ➔ influenced by setting and is local/context specific:
 - ➔ higher percentage of farmers in peri-urban setting (76.7%) use government extension agents most often, only 28.9% of those in rural setting.
- ➔ Use of neighbours and own (tacit) knowledge as main sources of knowledge is significant in both settings ➔
 - importance of face to face interaction of individuals in knowledge acquisition and sharing,
 - importance of implicit knowledge in agricultural production.



- Ease of accessing different sources and ICT-based innovations, influences their use:
- No significant difference in ease of access of input suppliers ($p=0.188$)
- Significant difference in ease of accessing government extension agents ($p=0.001$), farmer associations ($p=0.000$) and private companies ($p=0.001$)



- presence of private commercial companies in Mbooni district, → readily available through weekly farm visits, as well as through mobile phone communications
 - Locations and accessibility: long distances in rural areas vs high proximity in peri-urban

- Radio → widely use by most farmers, traditional forms of ICT such as radio more prevalent in advisory service provision (Nyirenda-Jere, 2010),
- only a simple majority, (54.4% and 52.2% of farmers in peri-urban and rural setting respectively) have easy access to these programmes.
- → **Inconsistency and inconvenience in the timing** of the programmes.

Widespread use of mobile phones in Kenya; however, → mobile based technologies are not easily accessible to most farmers mainly due to **lack of information about these technologies**.

- FARA (2009) despite the many initiatives on ICTs and small-scale farmers in Africa, information on the different initiatives are not easily accessible



CONCLUSION

- The entry of **non government stakeholders** in the extension and advisory services sector has increased the farmers' sources of knowledge → easier to access knowledge
- Significant difference in channels used to obtain information in rural and peri-urban setting:
- Use of different sources of information is influenced by **setting and context**, based on **information needs** → **accessibility**
- Use of ICT → influenced by nature of business with respect to **types of crops grown**, information needs and **infra-structure**



RECOMMENDATIONS

- Government → ensure harmonization / **structures for collaboration** among different stakeholders in extension service provision
- **Create more awareness** among farmers regarding the newly developed mobile and web based technologies
- Train farmers and the extension workers on ICT usage to promote the adoption of these technologies
- **Ensure consistency** in timing and airing of these programmes for maximised uptake and use of the innovations
- **Further surveys** to establish the situation in different peri-urban and rural areas, with respect to adoption levels of the ICT-based innovations





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Local radio stations as proven channels to disseminate agricultural training videos and technical information in Benin

Florent Okry, Paul Van Mele & Felix Houinsou

Access Agriculture, Agro-Insight & Africa Rice Center

Introduction

- Current local rice production cannot keep pace with increasing demand for consumption →

supporting farmer training through the dissemination of knowledge and adapted technologies

- Video-mediated learning has gained importance across Africa: Good quality videos merge theoretical notions contained in books, booklets, research notes with farmers' knowledge and practices by having farmers show and explain how the technology works
- Videos proved more powerful than traditional face-to-face training workshops in triggering change ([Zossou et al., 2009b](#))

Two important questions remain:

- How to reach as many extension workers and farmers as possible?
- Which institutional arrangements are needed to sustain the use of videos by farmers?



Our experience

Starting points

1- AfricaRice + IRRI+ NARS + NGOs developed 11 training videos (from seed to crop production to postharvest and processing)

2- Videos translated into 40 local languages of Africa

3- Large dissemination of videos across Africa

Case Benin: 2000 VCDs distributed in 2009 to several organisations including 25 radio stations located in 25 municipalities



Our basic assumptions

- It was expected that farmers, farmers associations and extension services would receive VCDs from the radio stations
- "hands-off experiment": the initiator (AfricaRice) limited its role to delivery of quality learning videos. No formal agreements or written contracts were made

This loose experimental set up allowed us to analyse positive deviants within systems: understanding "champions" who emerged in unplanned developments ([Biggs, 2008](#)).

Outputs

Profile of the studied radio stations

Name of radio (Location)	Type of radio	Funding sources
Alaketu (Kétou)	Community	International partners (e.g Swiss cooperation), advertisements, contracts for radio programmes
Tonasse (Cove)	Community	Private, advertisements, contracts for radio programmes
Ilèma (Dassa)	Community	Private, advertisements, contracts for radio programmes
Collines FM (Glazoué)	Commercial	Private, advertisements, contracts for radio programmes
Radio Comé (Comé)	Commercial	Private, advertisements, contracts for radio programmes
FM Kouffe (Bassila)	Community	International partners (Swiss cooperation), local community, advertisements, contracts for radio programmes
Solidarité FM (Djougou)	Community	International partners (Swiss cooperation), advertisements, contracts for programmes
Radio Rurale Locale Ouaké (Ouaké)	Community radio	International partners, radio advertisements, contracts for programmes
Radio Rurale Locale Tanguiéta (Tanguiéta)	Community radio	International partners, radio advertisements, contracts for programmes

Name of radio (Location)	Agriculture related programmes			
	Name programme (Year 1 st broadcast)	Language of broadcast	Sources of technical information	Air slots (per week)
Alaketu (Kétou)	Echange thématique agro-pastoral “Agro pastoral thematic discussion” (1999)	Nagot, Holi Fon	CeCPA, farmer association of Kétou, progressive farmers	Thrice
Tonasse (Cove)	Toglédji “On the field” (2002)	Fon	CeCPA, NGO (CEBEDES), AfricaRice (video)	Once
Ilèma (Dassa)	La terre ne ment pas “Land does not lie” (1999)	Idaatcha	CeCPA, FA (UNIRIZ), NGO (RAPIDEL), AfricaRice (video), retired CeCPA	Once
	Glé xo “Agriculture related business/issue” (2008)	Mahi	Farmers and CeCPA	Once
	Wakplon nu gnonyin “Come acquire knowledge” (2009)	Idaatcha Mahi	CeCPA, projects (e.g. ProCoton) FA (UNIRIZ), AfricaRice (video)	Twice
Collines FM (Glazoué)*	No specific programme. Only on demand. (2004)	Variable	CeCPA, market-oriented farmers	Once/ twice
Radio Comé (Comé)*	Agblédétowo bé gapo “The time of farmers” (2008)	Watchi	CeCPA	Twice

Name of radio (Location)	Agriculture related programmes			
	Name programme (Year of first broadcast)	Language of broadcast	Sources of technical information	Air slots
FM Kouffe (Bassila)	Mieux produire “Increase production” (1999)	Anni, Nago, Kotokoli, Lokpa, Ditamari	CeCPA, FA (e.g. Rice growers and cashew growers), NGOs (e.g. AGEDREN), projects (e.g. GiZ funded projects)	Four times
Solidarité FM (Djougou)	L’heure de l’enseignement agricole “Agriculture teaching hour” (1998)	Dendi, Yom, Lokpa	FA, projects (e.g. PAFIRIZ) literature search, internet, CeCPA	Thrice
Radio Rurale Locale Ouaké (Ouaké)	Le paysan au champ “Farmer in the field” (1999)	Lokpa Foodo Peulh	CeCPA, INRAB, literature from PADSA and MAEP, internet, AfricaRice (videos), retired staff of CeCPA	Thrice
Radio Rurale Locale Tanguiéta (Tanguiéta)	Techniques agropastorales “Agro pastoral techniques” (1994)	Biali Waama Gourmantché Naténi N’Bermè Dendi	Projects (any asking for a programme), CeCPA, progressive farmers, IITA (PICS project)	Six times

Use of videos by radio stations

Name of radio (location)	Video show to people at radio station	Video show to staff and group discussion	Special events around themes extracted
Alakétu	No	Yes	No action taken
Tonassé (Covè)	No	Yes	Debate, interactive broadcast, quiz
Ilèma (Dassa)	Yes (once) Att. 10	Yes	Debate, Round table with guest speakers, Video show on laptop on campus to small group of people, Air VCD at slots normally devoted to music.
Collines FM	No	Yes	Quiz (questions were extracted from videos)
Mono FM	No	Yes	No action taken
FM Kouffé (Bassila)	No	Yes, followed by a summary in Anni & Kotokoli	The entire VCD (in Dendi and French) was aired when there was a lack of content to fill a programme
Solidarité FM	No	No	No action taken
Radio Ouaké	Yes (Twice) Att. > 200	Yes	Debate Interaction thematic discussions
Radio Tanguiéta	Yes (Once) Att. 9	No	Play version Dendi of the VCD during Dendi air time (when lacking programme content or to replace agriculture programme in Dendi). Technical notes developed by staff member was aired in all 6 languages

Methods of VCD distribution and feedback collection by rural radios

Name of radio	% VCD distributed	Method of awareness raising	Mode of VCD distribution
Alaketu	94 (n = 150)	Announcement	Sales: 6 Gift: 135 (120 to FA, 10 to farmers and 5 to staff)
Tonassé (Covè)	92 (n = 120)	Announcement	Sales: 5 Gift: 105 to winners of quizzes on agriculture and to individual farmers
Ilèma (Dassa)	64 (n = 120)	Announcement	Sales: 0 Gift: 77 (farmers, farmer associations and NGOs)
Collines FM (Glazoué)	100 (n = 240)	Advertisements in three languages (Mahi, Idaatcha, French) at least three times a day	Sales: 150 Gift: 90 to winners of quizzes and to individual farmers who requested copies after they participated in quiz
Mono FM (Comé)	0 (n = 40)	No action taken	Na
FM Kouffè (Bassila)	100 (n = 20)	Announcement	Sales: 6 ; Gift: 14 (farmer associations and individual farmers)
Solidarité FM (Djougou)	100 (n = 20)	Transferred VCD to the chairman of the federation of the farmer associations of Djougou	Sales: 0 Gift: 20 (CeCPA, NGO, farmers and farmer association)
Radio Ouaké	100 (n = 100)	Chairman federation of FA sold most of them	Sales: 30 Gift: 70
Radio Tanguiéta (Tanguiéta)	100 (n = 100)	Announcement President of one farmer group collected a copy. Radio staff	Sales: 0 Gift: 100

Method of feedback collection from acquirers

- Phone calls (during interactive broadcasts)
- Witnesses (during interactive broadcasts)
- Quizzes
- Surveys
- Letters from farmers

As no formal contracts were signed with radio stations, there was no systematic feedback collection that could be scientifically valued

Concluding remarks

- Radio & TV stations (journalists) are proven channels for the dissemination of technical information
- The request of station managers to sign formal contracts with organisations promoting video-mediated learning deserves consideration when systematic feedback has to be collected.
- The farmer-to-farmer rice videos have created a momentum in Benin and across Africa, but more is needed.
- The international NGO Access Agriculture (www.accessagriculture.org) aims at boosting video-mediated learning in developing countries. Radio broadcasters and other service providers can freely download agricultural training videos and related audio files, in any local language available.



All languages



English

Français

Welcome to Access Agriculture



Categories

- + Cereals
- + Roots, Tubers & Bananas
- + Vegetables
- + Pulses
- + Fruits & Nuts
- + Other Crops
- + Livestock
- + Fish
- + Integrated Pest Management
- + Sustainable Land Management
- + Mechanisation
- + Business Skills
- + Methods
- + Other
- + Agtube

About Access Agriculture

Access Agriculture is an international NGO which showcases agricultural training videos in local languages. Here you can see examples of videos, download them or order a DVD copy. The audio tracks can also be downloaded by radio stations.

This is a platform for agricultural R&D staff, service providers, extension agents, communication

About AgTube



AgTube is where you can upload videos about agriculture for sharing with the agricultural community. This will be launched in 2013. Keep checking our news section for the latest.

"I have been impressed by the website of Access Agriculture"





All languages



English

Français



Home

Cereals

[+ list options](#)



Grow more, earn more

Crop intensification may require farmers to modify various aspects of their cropping system



SLM12 Conservation agriculture

A technique which has minimum mechanical soil disturbance, permanent organic soil cover and diversification of crops



Strip tillage

Strip tillage keeps crop stuble and helps to conserve soil moisture



Bed planting

Bed planting significantly reduces the amount of water needed for irrigating wheat



Urea deep placement

Urea deep placement involves putting urea super granules at a certain depth a week after the paddy is transplanted



Reviving soils with mucuna

Mucuna is a creeping legume that produces abundant vines and leaves that fix nitrogen from the air. How to use it in maize-cassava based systems



Contour bunds

Contour bunds are permanent ridges of earth that follow positions located at the same altitude.



Cashing in with Parboiled Rice

How to improve profitability of rice by producing parboiled rice

Categories

- Cereals

- Barley
- Maize
- Oats
- Other
- Rice
- Sorghum & Millet
- Wheat

- + Roots, Tubers & Bananas
- + Vegetables
- + Pulses
- + Fruits & Nuts
- + Other Crops
- + Livestock
- + Fish
- + Integrated Pest Management
- + Sustainable Land Management
- + Mechanisation
- + Business Skills
- + Methods
- + Other
- [Agtube](#)





Thank you!

Merci!

Mi wanou!

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Access Agriculture
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www.accessagriculture.org

Emerging Trends in Seedbanking: An International Perspective

Deva E. Reddy

Texas A&M University

Presented at IAALD World Congress

July 21-24, 2013, Ithaca, NY USA

dereddy@tamu.edu

Genesis 1:29NIV



Then God said, "I give you every seed-bearing plant on the face of the whole earth and every tree that has fruit with seed in it. They will be yours for food"

Life without plants



Adult goat & fawn the lamb. Photo courtesy of Woodstock Farm Sanctuary.

It is conceivable that **humans** can live without **animals** but it is inconceivable that animals and humans can live without **plants**

All Life Depends on Plants

- Provisioning services
 - Regulating services
 - Cultural services
 - Supporting services
- Food, medicine, fuel, construction, clothing, etc.
 - Climate moderation, disease regulation, flood regulation
 - Spiritual, recreational, aesthetic, inspirational, educational
 - Soil formation, nutrient cycling, primary production

SEEDS OF LIFE

Variety of Seeds



Innumerable plants

- 270, 000 plants are known to science
- 7 000 have ever been used for food
- 120 are cultivated today.
- 90 cultivated plant species provide 5% of human food
- 21 species provide 20% of human food
- 9 species provide 75% of human food

The 10 Most Important Crops In The World



- Rice
- Wheat
- Corn
- Sorghum
- Soybeans
- Cassava
- Potatoes
- Sweet Potatoes
- Yams
- Plantains

Seeds defined

- **Seed is defined** as the part of a plant from which a new plant can be grown. It can be:
- *generative* - such as grain or fruit seed
- *vegetative* - consisting of any propagative part of a plant such as a stem, tuber or bulb

Big Mac



- A fast food meal
McDonald's Big Mac
contain 20 different
species that originate
from all around the
world- potatoes,
mustard, onions, wheat,
pepper, lettuce etc

Longevity of seeds



Seeds may be viable for hundreds and even thousands of years. The oldest carbon dated seed that has grown into a viable plant was a **Judean date palm** seed about 2,000 years old, recovered from excavations at Herod the Great's palace in Israel.

How long



In 2012, Russian scientists announced they had regenerated a narrow leaf Campion from a 32,000 year old seed. The seed was found in a burrow 124 feet under Siberian permafrost along with 800,000 other seeds. Seed tissue was grown in test tubes until it could be transplanted to soil

Seed-basic and critical input

- Response of other inputs – such as fertilizers, fungicides, insecticides depends on quality of seeds
- Direct contribution of quality seed about 15 – 20%
- It can be further raised up to 45% with efficient management of other inputs.

Threat of extinction

- Threats extinction include destructive habitat changes, urbanization, climate change, invasive species, over-harvest, and pollution.
- For every 1% reduction in seed moisture content and every 5°C reduction in temperature, the lifespan of a seed is doubled

Climate change

Extreme weather conditions cause new pests which could cause certain species of plants to go extinct

Natural Disasters

After the 2004 tsunami destroyed rice paddies in Malaysia and Sri Lanka, international seed banks provided local farmers with varieties of rice to begin growing their crops again

Disease

Disease quickly and easily wipes out crops. Stem rust has the capability to infect up to 25% of the world's wheat supply



Man-made disaster

One of Iraq's vital seed banks was looted during fighting

Soil Seed Bank



- All viable seeds present in the soil or mixed to soil debris constitute **soil seed bank**.
- The deposition of seeds spread by bird, wind, humans, and animals, usually pertaining to invasive seed sources degrading natural ecosystems.
- They have been studied in various ways in various habitats

Organized Seed Banks

- They operate formally and are made up of individually and collectively stored seeds
- Seed banks (general)
- Community seedbanks

How many Seedbanks

- There are about 6 million accessions, or samples stored as seeds in about 1,400 gene banks throughout the world
- They store about 0.6 percent of the world's plant diversity
- Seed banks great and small

Vavilov Institute of Plant Industry



- This seedbank was established in 1894 in Leningrad (St. Petersburg), Russia
- Only facility of its kind in Russia
- Its global collection contains hundreds of thousands of specimens

Millennium Seed Bank Project



- Location: Royal Botanical Gardens, Kew, U.K.
- Goal: store and protect more than 24,000 global species of plants
- Collaborates with other seed banking organizations around the globe by sharing information or assisting in seed collection
- Seeds remain in their country of origin, but the Kew location stores duplicates for backup

Svalbard Global Seed Vault



Entrance to
the chamber

- Built inside a sandstone mountain in a man-made tunnel on the frozen Norwegian island of Spitsbergen, which is part of the Svalbard archipelago, about 812 miles from the North Pole.
- Designed to survive catastrophes such as nuclear war and world war.
- It is operated by the Global Crop Diversity Trust.
- The area's permafrost will keep the vault below the freezing point of water, and the seeds are protected by 1-metre thick walls of steel-reinforced concrete.
- <http://www.globalresearch.ca/doomsday-seed-vault-in-the-arctic-2/23503>

A View of One Storage Chamber



NSW Seedbank



- The NSW (New South Wales region) Seedbank focuses on native Australian flora, especially NSW threatened species.
- The NSW Seedbank has collaborated with the Millennium Seed Bank since 2003
- Focus on NSW native species and threatened species.

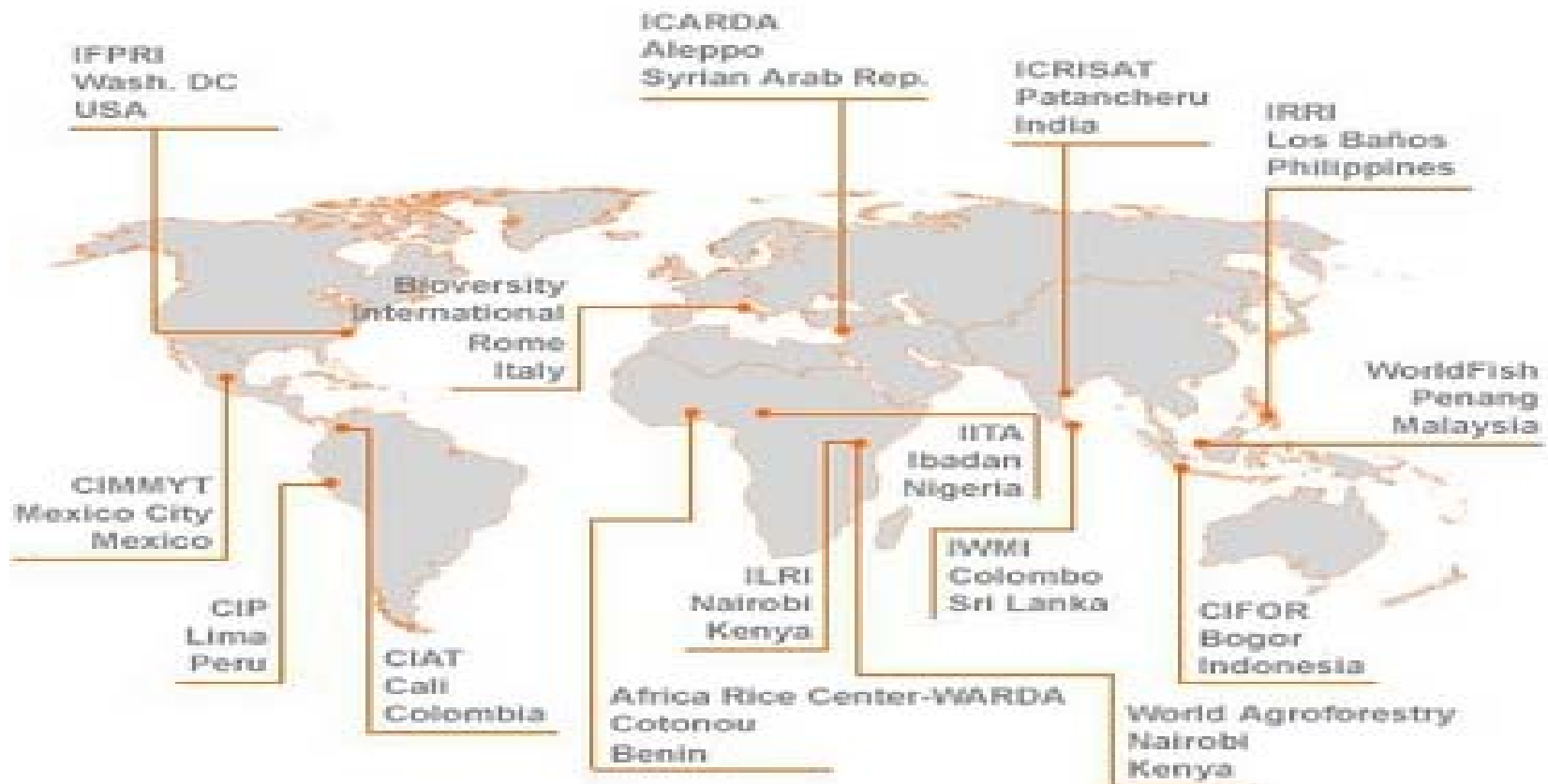
Dixon National Tallgrass Prairie Seed Bank



Bison grazing on Tallgrass Prairie
Nature Preserve

Located at Chicago Botanic Garden this is the only seed bank in the world that focuses conservation efforts on the native species of the tallgrass prairie, one of the most endangered habitats in the world.

CGIAR and Gene banks



International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)



Five mandate crops – sorghum, pearl millet, chickpea, pigeon pea and groundnut; and six small millets – finger millet, foxtail millet, little millet, kodo millet, proso millet and barnyard millet.

Over 120,000 germplasm accessions from 144 countries, it is one of the largest international genebanks.

International Institute of Tropical Agriculture (IITA)



IITA's genebank holds over 28 000 accessions of major food crops of Africa, namely cowpea cassava, yam ,soybean, bambara groundnut, maize, and plantain and banana

International Potato Center (CIP)



- CIP maintains the largest collections of potato and sweetpotato in the world.
- The genebank holds over 80% of the world's native potato and sweetpotato cultivars and over 80% of the known species of wild potato.
- It also maintains more than 1,500 accessions of native Andean root and tuber crops (ARTCs).

Seed Collection



Collecting seeds in the Republic of South Africa



International Rice Research Institute (IRRI)



- The IRRI Genebank holds more than 117,000 types of rice.
- Biggest collection of rice genetic diversity in the world.
- Countries from all over the world sent their rice to IRRI for safe keeping, and sharing for common public good.

International Maize and Wheat Improvement Center (CIMMYT)



- **World's largest maize and wheat seed bank.**
- **Over 175,000 accessions**
- **Seed is made freely available to researchers and agriculture institutions**

ICARDA



The Center's genebank, holds over 133,000 accession of cereals, legumes and forages, collected from dryland areas around the world.

The genebank also holds over 1450 accessions of Rhizobium strains.

Distributes over 25,000 accessions a year to collaborators inside and outside ICARDA for identification of valuable traits

International Center for Tropical Agriculture(CIAT), Cali, Columbia



- CIAT has global responsibility for the improvement of beans, cassava, and tropical forages
- Holds 65,000 crop samples from 141 countries

Global Crop Diversity Trust

- The Global Crop Diversity Trust is an independent international organization working to guarantee the conservation of crop diversity.
- This was established in October 2004 as an independent international organization under international law.
- It was established through a partnership between the FAO and the CGIAR

Community Seedbanks

- Most small-scale farmers save their seed from one harvest to the next. 60-70 per cent of seed used by these farmers is the saved ones. The remaining seed is obtained from local sources
- Factors such as droughts, crop failure, conflict, difficult storage conditions, and poverty are impacting quantity and plant varieties available to farmers.
- Bought-in seed replaces older, local varieties unavailable in many communities.
- The result is emergence of informal seed supply systems, such as establishing seed banks

Seed Libraries

The Seed Library Of Los Angeles: checking out seeds at a monthly meeting.



- Seed libraries use varied methods for sharing seeds:
- Seed swaps, library members or the public meet and exchange seeds
- seed lending, people check out seed from the library's collection, grow them, save the seed, and return seed from the propagated plants to the library

Seed savers' networks



- Networks organized storage and distribution of seed, mainly farmers' and non-commercial varieties
- The Seed Savers' Network facilitates the collection, multiplication and public access of a wide range of local seeds and other planting material for food and agriculture

Ceremonial Seedbanks



- Sacred groves and reserves
- Seed is a common property
- Seed conservation is not the primary function but occurs as a matter of routine

Seed Village



- Collection, preservation and distribution of seeds of various crops to villagers at an appropriate time and at affordable cost
- Replacing existing local varieties with new high yielding varieties
- Seed is available at the door steps of farms at an appropriate time

Development of Seeds

- Role of Seed development organizations
- Breeders seed
- Foundation seed
- Certified seed



**INCREASING FOOD &
FEED VALUE THROUGH
SEED TECHNOLOGY**

“We Must Mine the Wealth of the World's Seed Banks”



Susan McCouch, Plant Genetist of Cornell University in the Comment feature of the **July 4 issue of *Nature*** argues that with fewer than a dozen flowering plants out of 300,000 species accounting for 80 percent of humanity's caloric intake, people need to tap unused plants to feed the world in the near future

Thank YOU

Questions



CABI's Leisure, Recreation and Tourism Abstracts and EBSCOHost Hospitality and Tourism Index: Evaluation of Coverage, Overlap and Uniqueness

Lutishoor Salisbury

IAALD World Conference, July 22, 2013

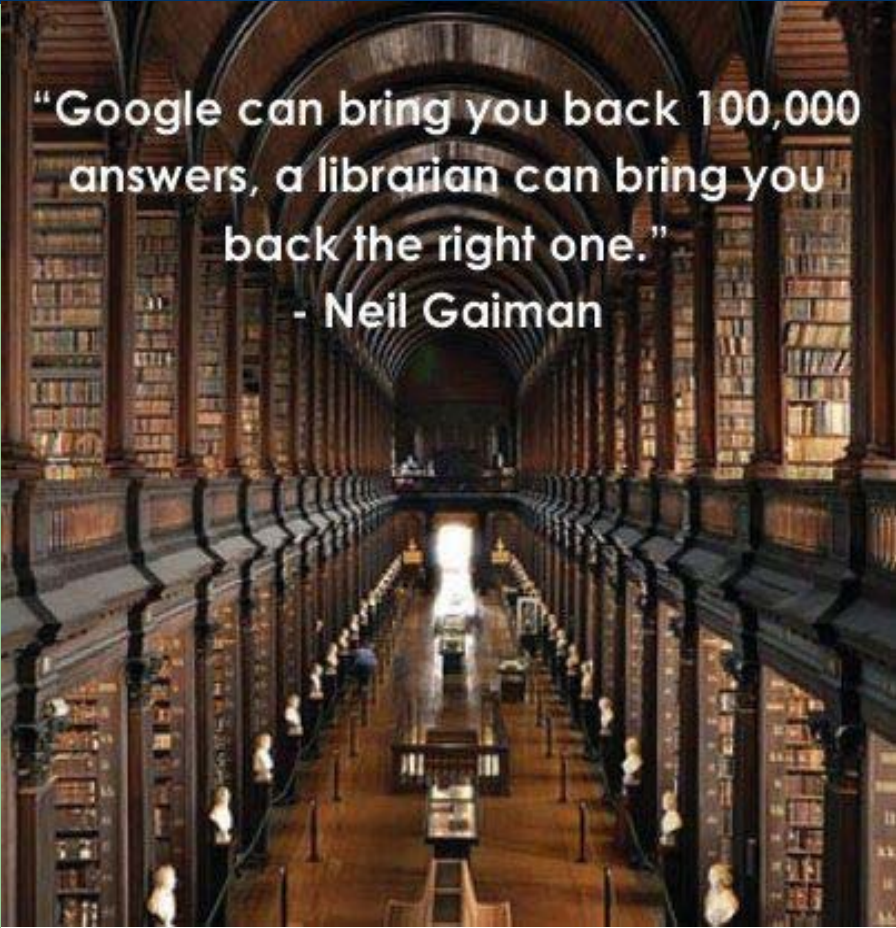
Overview

- Why this evaluation
- Product description
- Methodology
- Critical Evaluation
 - Content
 - Fields for Searching
 - Retrieval Examples



Boracay Island, The Philippines,
<http://johnib.wordpress.com/2013/04/05/china-newspaper-philippines-best-leisure-destination/>

Why this study?



“Google can bring you back 100,000 answers, a librarian can bring you back the right one.”
- Neil Gaiman

- Librarians should have knowledge of database coverage, unique characteristics, etc.
- Beyond Google, added value
- Best database for patrons
- Limited funds, does it add substantial information to warrant subscription?
- Substantial resources in CABI database -- not widely known

Product Description

CABI's Leisure Tourism Abstracts



1976 to present, scholarly research

Subset of the *CAB Abstracts* database

EBSCOHost
Web of Knowledge
Ovid, etc.

Independently as online database

- Uses CABDirect interface
- Printed quarterly database



<http://www.meridiandelta.com/publicsector/schoolmailinglists/headofleisureandtourism.htm>

EBSCOHost Hospitality & Tourism Index



Hospitality & Tourism Index™

Scholarly research and industry news, 1965- majority of records from 1994-

Three collections combined:

- Cornell University's formerly Hospitality database (not previously for public use)
- Articles in Hospitality and Tourism (University of Surrey and Oxford Brookes)
- Lodging, Restaurant & Tourism Index (Purdue University)



Methodology

Lists from the databases were exported in Excel format



CABI *Leisure Tourism index* (<http://www.cabi.org/leisuretourism/>)

EBSCOHost *Hospitality & Tourism index*
(<http://www.ebscohost.com/titleLists/hjh-coverage.htm>)

Manipulated to get the common and unique titles and materials

The common titles were checked against each database

- 2007-2012
- *UlrichsWeb Global Serials Directory*
(<https://ulrichsweb.serialssolutions.com/>)
- document types, history of serials

Summary – Databases

		CABI	EBSCOHost
<i>Years of coverage</i>		1952-2012, majority after 1976	1965-2012, majority after 1994
<i>Document Types</i>		<i>No. of Records</i>	<i>No. of Records</i>
	Academic articles	100,409	51,538
	Magazines	1,216	370,510
	Trade publications		417,145
	Newspapers		2,571
	Bibliographies (list of resources from various publications)		294
	Dissertations/Theses	199	
	Books, book chapters	10,311	1,393
	Book Reviews		9,901
	Conference Papers	10,132	
	Case Studies	7,450	502
	Company Reports		50 companies (1,250 records)
	Country Reports		130 countries (23,728 records)
	Reports	148	
	Letters	107	
<i>Language</i>			
	English	82%	99.70%
	French	4.10%	0.01%
	German	3.10%	0.16%
	Spanish	2.10%	0.04%
	Chinese	1.50%	0.02%
<i>Full-Text</i>		2,927 articles , links to open access materials	

Unique Materials in EBSCOHost and Their Characteristics

Trade Publications (n=417,145)

17 titles = 307,915 (74%)

Travel weekly (55,773)
Nation's Restaurant News (44,788)
Travel Trade Gazette UK and Ireland (35,133)
Travel Agent (28,591)
Caterer & Hotel Keeper (23,033),
Travel Weekly (19,141)
Hotel & Motel Management (15,824)
Travel Weekly (UK) (12,474)
Food Manufacture (11, 189)
Meetings & Conventions (10, 884)
Foodservice Director (10,071),
Restaurant Business (9,611)
Beverage World (7,529)
Beverage Industry (6,473)
Meeting News (5,907)
Hotel Business (5,841 records) and
Prepared Foods (5,653 records)

Magazines (n=370,510)

17 Titles - 143,275 (39%)

Duplication of records with Trade Publications

Airguide Online.com (15,871),
Successful Meetings (15,022)
Nation's Restaurant News (14,069)
Travel & Leisure (10,540)
Restaurants & Institutions (10,271)
Canadian Travel Press (9,595)
Wine Spectator (7,956)
Pizza Today (7,907)
Lodging (6,842)
Meeting News (6,239)
Restaurant Business (5,770)
Travel Industry Monitor (5,677)
Hotel & Restaurant (5,659 records)
Travel Courier (5,545)
Indian Gaming (5,520)
Foodservice Director (5,515) and
Parks & Recreation (5,277)

Unique Materials in EBSCOHost and their Characteristics

Reports (2003-2012)

N = 9,292 records

Economic Intelligence Unit -- Country Reports for various countries
(www.eiu.com)

Business Monitor International Tourism -- Country Reports
(www.businessmonitor.com)

Marketline Industry Country Profiles
(www.marketline.com) and

101 entries are from the *Restaurant, Food & Beverage Market Research Handbook*, 2012.

Newspapers (1989 -2009)

N = 2,471 records

New York Times, late city edition, (1,487)

Wall Street Journal, and Eastern edition (590)

New York Times, front page, morning edition (362)

Unique Materials in EbSCOHost and their Characteristics

Books (1991 – 2008)

N = 1,309 records

Railway directory (2003) edition
contributed 747 (i.e. 57%) records

Golf Resorts: Where to Play in the
U.S., Canada, Mexico & the
Caribbean, 2001, 3rd edition
contributed 95 records (i.e. 7%)

Bibliographies (1980 -2012)

N = 294 records

Primarily short list of references or
list of resources found in articles
from:

academic journals (73 records)

trade publications/magazines (141
records) Reports (62 records)

books (16 records).

Unique Materials in EbSCOHost and their Characteristics

Company Reports (2003-2012)

SWOT analysis for 50 companies
(1,270 records).

74 industry and market analyses
(5,184 records, 76% for 2007-2012)

Country reports (23,728 records, 130
countries, 34% for 2007-2012 and 2%
for 2012)

Academic Journal Indexed in Both Databases

n= 99 titles with more than 10 records

CABI

Total records = 27,235
11,435 (42%) from 2007-2012
No book reviews

Most of the journals are
indexed cover – to – cover
Relevant ones only tagged

EBSCOHost

Total Records = 47, 596
16,764 (35%) from 2007-2012
Includes book reviews

Includes peripheral material
Meat science (374 records)
Food Biophysics (134 records)
Nutrition Reviews (2,124
records)

Unique Academic Journals in Both

EBSCOHost

N = 50 records – > 10 records

5 ceased publication

Total Records = 27,680

2007-2012 = 13,301 (48%)

CABI

N = 505 -- > 10 records

Total Records = 35,560

2007-2012 = 20,946 (59%)

Differences and Similarities the Databases

EBSCOHost

Available only through this vendor

A full text option available

Combine with several other databases on this platform

EBSCOHost academic Search
Complete and Business Source
Complete --- subscription, full-text

Only 16 fields

CABI

Available from several vendors:
CABDirect, EBSCOHost, Ovid , Web of
Knowledge, etc.

May be difficult for end users to
remember the substantial resources

Resources include full-text access to all
CABI e-books and other full-text
materials

25 fields, fields specific to industry
search not included

Searching Example: Ecotourism

CABI

3,176 records

Refined by full-text:

327 from two subscribed EBSCOHost databases

146 from CABI Electronic Resources

Records could be refined by:

Subject Thesaurus Term, Subject -- Major Heading, Subject, Publication and Geography

EBSCOHost

3,475 records

Refined by full text:

736 records from two subscribed EbSCOHost databases

Records could be refined by:

Source Types, Subject Thesaurus Terms, Subject, Publication, Company, Geography and NAICS/Industry

Search for “Hospitality Industry” as a Subject Term

CABI

- 5,707 records
- Academic journals (5,057)
- Books (430)
- Conference materials (296)
- Magazines (22)
- Reports (6)
- Dissertation (1)

EBSCOHost

- 66,611 records
- Trade publications (43,631)
- Magazines (17,461)
- Academic journals (4,800)
- Reports (883)
- Newspapers (430)
- Books (249)
- Reviews (125)

Search for Publications with Authors Affiliated with Cornell University, Ithaca

CABI

363 records

Academic journals (344)

Conference papers (16)

Magazines (9 records)

Books (7)

EBSCOHost

Does not include an author affiliation field from its drop-down menu

Command search as:

AF "(cornell university)" and AF "(ithaca)" = 84 records.

Search as *"cornell university" and Ithaca* was performed in the All Text field = 446 records

Academic journals (259 records)

Magazines (97 records)

Trade publications (86 records)

Reviews (4 Records)

Conclusion

CABI Tourism & Leisure Database primarily includes scholarly material from a broad range of academic/scholarly journals

Journals are comprehensively indexed in CAB Abstracts but only relevant items added to this section

Complete abstract and excellent indexing

Conference proceedings and wide range of scholarly books

Complemented with access to business databases such as *EBSCOHost Business Source Premier* and/or *ABI Inform*, these may suffice to support an undergraduate and research program in this area.

Conclusion

EBSCOHost *Hospitality and Tourism Database* includes records from a much smaller number of academic journals

The ones that are included are more comprehensively covered and focused to the hospitality and tourism industry

Greater emphasis is on the area of hospitality and tourism rather than on recreation

Book reviews useful for undergraduate students

Uniquely includes a substantial number of records from magazines, trade publications, country reports, SWOT analyses and industry reports

Unique materials may be duplicated in *EBSCOHost Business Source Premier*, ProQuest *ABI / Inform Complete* and other business databases (ValueLine, S&P NetAdvantage, Mergent Online, etc).

Reference: Salisbury, Lutishoor. 2013. CABI Leisure and Tourism Abstracts and EBSCOhost Hospitality and Tourism Index. *The Charleston Advisor*, vol. 14(4), p5-11.



Questions!!!



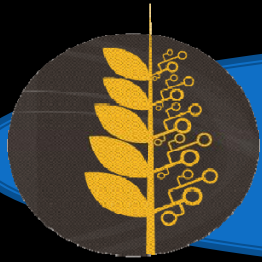
Jolly Beach, Antigua

Transformation of Indian Agricultural Libraries in Digital and Collaborative Era



Dr Neena singh (G B Pant University of Agriculture & Technology and UUHF , Uttarakhand, India)
IAALD World Congress 21-25 July ,Cornell University , Ithaca ,USA

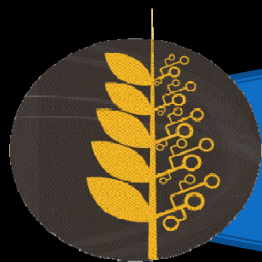




out line



- Back ground
- Approach to capacity development in digitization
- Collaborative digitization projects
- Application of Social Network tools



IT based Services

IAALD/2013
International Association of Agricultural Librarians & Documentalists
World Congress

Indian IT industry - Played eminent Role in all Service Sec

Instances of bridging divide through projects of e-agriculture, e-governance, e-business are in progress

Penetration of IT enabled services - Degree Granting Organizations/ Universities is diverse/mixed

Indian Agricultural libraries – Are in transition to era of Collaboration & Digitization



Indian National Agricultural System (NARS)

IAALD/2013
International Association of Agricultural Librarians & Documentalists
World Congress

- **Indian National Agricultural system** (NARS) consist of **56 State Universities & 99 ICAR** Research Institutes spread across the country. One of the largest NARS in the world.
- Agricultural University libraries and Research institute libraries of ICAR are integral part of education process and play a vital role in shaping future of Education Research and Extension activities of the Country
- **ICAR** — Is apex body coordinating, guiding & managing research in agriculture. It plays pioneering role in national Food security.





Technology and Libraries...

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Indian Agricultural libraries have taken on technology & using no. of IT & web based tools to disseminate Digital Information.

World Bank Aided project -

NATP - National Agricultural Technology Project -1998

NAIP - National Agricultural Innovative Project -2006



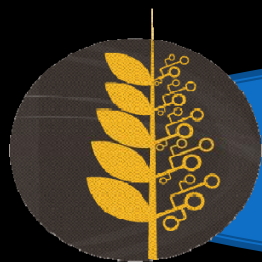
Provided boost to Digitization & Collaborative break through movement

and

New Chapter

In Agriculture Information Management & Access

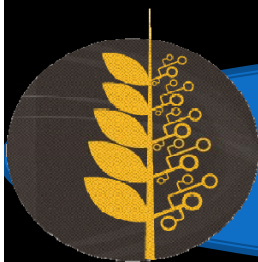




Automated functioning at a glance

IAALD/2013
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- 66.5 % - Agriculture university libraries function in **Automated environment**
- 19 % - Libraries have **Web OPAC** accessible 24x7
- 92% - Provide **Internet browsing** facility & have separate section for e-resources within library as “**E-library**”



The collaborative digital activities.....

IAALD/2013
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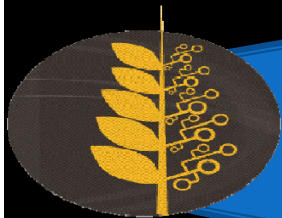
Most libraries were working individually on digitization on their in-house research material, thesis, rare books

viz. IARI, GBPU&AT, IVRI

Collaborative initiative in digitization started with World Bank funded project NAIP launched from 2006 to enhance food security & agricultural innovation.

- CeRA** - Consortium for e- resources in Agriculture
- E- Granth** - Digitization and Union catalogue
- Krishi Kosh** - Agricultural Digital repositories
- Krishi Prabha** - Digital Repository of dissertations





Collaborative Projects in Indian Agricultural libraries

IAALD/2013
International Association of Agricultural Librarians & Documentalists
World Congress

World Bank

ICAR



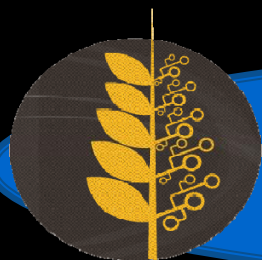
NAIP

CeRA 276.5 million

E-Granth 86.14 million

Krishi Prabha

13.2 million



CeRA Consortium for E-resources in Agriculture **IAALD/2013**
World Congress

Rising Cost - Lead to consortium mode online subscription

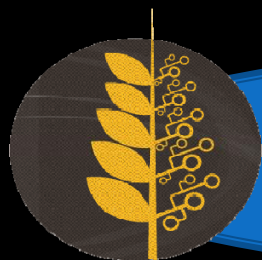
CeRA

- Started with support from **NAIP project** in 2007 functional from 2008.

More than 3000 e-journals available online from Springer, Tailor Francis, Elsevier and lately added Biological database (JABS)

Accessible 24x7 to all State Agril Universities and ICAR Institutes through IP address and Common Platform www.cera.jccc.in





.....CeRA...

IAALD/2013
International Association of Agricultural Librarians & Documentalists
World Congress

Key Objectives :

Advance R&D information resources to leading world class institutions.

Evolve NAAS (National Academy of Agril Sciences) Rating and Citation Index for evaluation of agricultural Scientific publications <http://www.naasindia.org/>

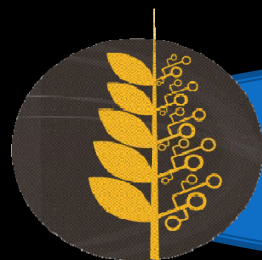
CeRA - Is most sought after facility for access to online journals by Researchers

More than **4.0 Million full text** articles have been downloaded (NAIP project report 2011-2012)

Most Library's **home page** have **links to CeRA**
some provide through campus LAN



NATIONAL ACADEMY OF
AGRICULTURAL SCIENCES



A View on CeRA ...web

IAALD/2013
International Association of Agricultural Librarians and Documentalists
World Congress

Screenshot of the CeRA (Consortium for e-Resources in Agriculture) website interface, displayed within a web browser window.

Browser Tab: XCCC@CeRA

Address Bar: cera.iari.res.in

Website Header:

- Logos: Indian Council of Agricultural Research (ICAR), Consortium for e-Resources in Agriculture, and IARI.
- Consortium for e-Resources in Agriculture**
(A Sub-Project under NAIP)

Navigation Menu: Home | About CeRA | Members | Committees | Downloads | Journals | Questionnaire (CeRA) | Contact Us

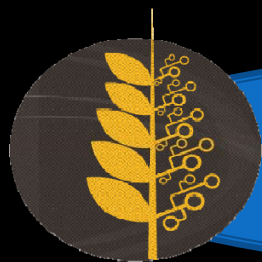
Main Content Area:

- Publishers link:** A vertical list of publisher logos including Annual Reviews, Indian Journals.com, Springer, Informatics, Taylor & Francis, Oxford University Press, Elsevier, and CSIRO (Subscribed for 2008-10).
- ACCESS TO e-JOURNALS:** A central section with a search bar (search... Search) and a "News Flash" section below it.
- CeRA Publications:** Links for "Feedback through online" and "User Manual NEW".
- Related Links:** Links to ICAR, NAIP, and IARI.
- CeRA in News:** A list of recent news items, including "Success Story in NARS 04805- 2010", "CeRA in ICAR Achievement 07- 2011", "Rajasthan Patrika, 15-07-2011", "Rastrodoot: Bikaner, 15-07-2011", "CeRA Award 2012", "Amarujala 22.01.2013", "Dainikjagran 22.01.2013", "Dainik Jagran 22.01.2013", "Hindustan 22.01.2013", and "Kalpatru Express 22.01.2013".

Footer:

- Disclaimer | Privacy Statement | FAQ | Photo Gallery | **Workshop & Training**
- This website is a part of Indian Agricultural Research Institute, Indian Council of Agricultural Research, an autonomous organization under the Department of Agricultural Research and Education, Ministry of Agriculture, Government of India.
- Copyright © 2010 IARI. This website is developed & maintained by Unit of Simulation and Informatics. Best Viewed in 1024 x 768 pixel resolution.

Taskbar: Start button, taskbar showing open applications (Microsoft Office, Explained - Synon..., CeRA | Home | Co..., Home | e-Granth ..., Nehru Library, CS..., Equest: Your Digit..., My Scans), system tray showing time (15:09).



Prominent Digitization Activities..... E –Granth

IAALD/2013
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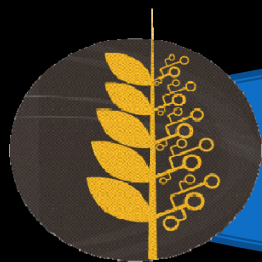
E- Granth - Was conceived in 2009 for strengthening digital library and Info management



- Provide **digital access** to library resources

Create Union **Web OPAC** with partnership of OCLC & Merge Indian collection with **World Cat** for sharing International literature and visibility.

- Create **Institutional Repositories** (rare books, old journals , gray literature)
- Digitize **existing Institutional repositories** of select libraries IARI, IVRI,



.....E- Granth

IAALD/2013
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World Congress

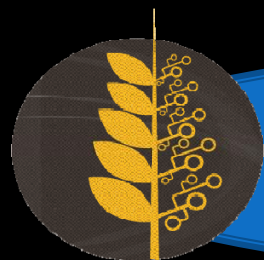
12 partner Institutions, including 7 State Univ. and 4 deemed Univ.
& ICAR library are collaborating with OCLC to create “Agri Cat”

Aims to complete conversion of records to MARC 21
complaint UNION catalogue, the Indian Agri Cat using KOHA

AgriCat is subset of World Cat largest Union Catalogue in world held
by OCLC (existing catalogue were batch uploaded & processed by OCLC)

This project has initiated & built digitization capacity in 12 collaborating libraries which
will be replicated to other libraries in future






View on E-GRANTH

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Home | e-Granth

egranth.ac.in/?q=Home

Indian Agricultural Research Institute
भारतीय कृषि अनुसंधान संस्थान

HOME ABOUT US CONSORTIUM PARTNERS PHOTO GALLERY BUDGET EGRANTH REPOSITORY FORUM LOGIN CONTACT US

Search

Search this site:

SEARCH

Navigational Links

- Home
- About Us
- WorldCat Search
- OCLC
- Connexion Browser
- Consortium Partners
- Photo Gallery
- Forum
- Login
- Contact Us
- Related Links
- Access Journals @ CeRA
- AgriCat
- Downloads

Contact Us

Dr. A.K. Jain (CPI)

Home




AgriCat @ eGranth

Indian National Agricultural Research System (NARS) has a large collection of Books and articles in agriculture and allied sciences, spread over the country in different libraries of ICAR Institutes and State Agricultural Universities (SAUs).
"AgriCat" is a Union Catalogue of the holdings of 12 major libraries of the ICAR Institutes and SAUs combined together.

Search in AgriCat Library and beyond

Everything Articles Books Images

AGRICAT Libraries

[Advanced Search](#) Search with 

Latest Gallery



eGranth News

NAIP authorities have issued an appreciation certificate for the development of AgriCat.

Koha has been implemented in ANGRAU, Hyderabad; CCSHAU, Hissar; CIFE, Mumbai; DKMA, New Delhi; GBPUAT, Pantnagar; MPKV, Rahuri; NDRI, Karnal; TANUVAS, Chennai and UAS, Bangalore.

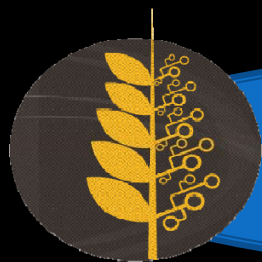
Institutional Repository of egranth will be implemented soon.

New forum topics

- Koha Implementation!
- Reg. Koha Quotations
- Have you tried Koha Staff-client and OPAC?
- LibSys Export Module installed?
- Any Query related to OCLC?

more

start | Digitization ... | Document1... | Document2... | Document3... | Document4... | Explained ... | JCCC@Ce... | Home | e-G... | My Scans | 14:45



E-Granth, AgriCat Searches

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Agricat (subset of World Cat) provides versatile searches & share resources 24x7 at

[http:// www.egranth.ac.in](http://www.egranth.ac.in)

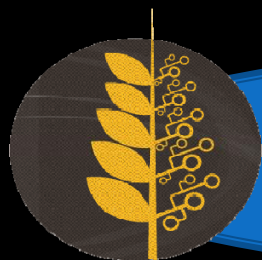
[http:// www.agricat.org](http://www.agricat.org)

Currently 7 lakh / 0.7 million records have been uploaded in OCLC

Searches can be made at three levels

1. **Global Search** - libraries world wide
2. **AgriCat** - for holding at group level
3. **Individual Library** - at local partner level

Patrons can register & create mini library using features , **My Watch List**, **My Saved Searches etc**



Agricat Search View.....

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WorldCat: AGRICAT Libraries - Mozilla Firefox

WorldCat: AGRICAT Libraries

www.agricat.worldcat.org

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WorldCat (Sign in)

Search AGRICAT Libraries and beyond

Advanced Search

Search

WorldCat

AGRICAT Libraries

- select search limit -
- Libraries Worldwide
- AGRICAT Libraries
- Acharya N G Ranga Agricultural University
- Indian Agricultural Research Institute
- Indian Council of Agricultural Research HQ
- Chaudhary Charan Singh Haryana Agricultural University**
- Central Institute of Fisheries Education
- CSK H P Agricultural University
- G B Pant University Of Agriculture and Technology
- National Dairy Research Institute
- Mahatma Phule Krishi Vidyapeeth
- Tamil Nadu Veterinary and Animal Science University
- University of Agricultural Sciences
- Indian Veterinary Research Institute

Languages: [Česky](#) | [Deutsch](#) | [English](#) | [Español](#) | [Français](#) | [Italiano](#) | [Nederlands](#) | [Português](#)

You: [Sign In](#) | [Register](#) | [My WorldCat](#) | [My Lists](#) | [My Watchlist](#) | [My Reviews](#) | [My](#)

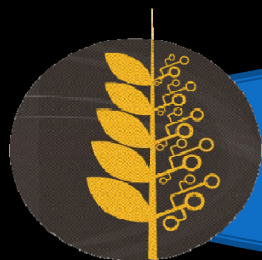
WorldCat: [Home](#) | [About](#) | [Help](#) | [Get E-mail Updates](#) | [Feedback](#) | [Search](#)

Legal: [Copyright © 2001-2013 OCLC. All rights reserved.](#) | [Privacy Policy](#) | [Terms and Conditions](#)

WorldCat is the world's largest library catalog, helping you find library materials online.

Start Microsoft PowerPoint - [I...] WorldCat: AGRICAT LI... Document1 - Microsoft ... 11:32





AgriCat Search view.....

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Results for 'su: horticulture ti:horticulture su:horticulture' [AGRICAT Libraries] - Mozilla Firefox


File Edit View History Bookmarks Tools Help

Results for 'su: horticulture ti:horticulture su:horticulture' [AGRICAT Libraries] - Mozilla Firefox

www.agricat.worldcat.org/search?q=su%3A+horticulture+ti%3Ahorticulture+su%3Ahorticulture&qt=advanced&dblist=638

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AGRICAT Libraries Search WorldCat WorldCat (Sign in)

 su: horticulture ti:horticulture su:horticulture Search

Libraries to search: AGRICAT Libraries Advanced Search

Print Share

Search results for 'su: horticulture ti:horticulture su:horticulture' limited to AGRICAT Libraries

Format

- ☒ All Formats (562)
- ☐ Book (457)
- ☐ Thesis/dissertation (13)
- ☐ eBook (4)
- ☐ Large print (1)
- ☐ Article (73)
- ☐ Journal, magazine (31)
- ☐ Visual material (1)

Refine Your Search

Author

- [K.L. Chadha](#) (12)
- [H.P. Singh](#) (11)
- [P. Parvatha Reddy](#) (10)
- [L.H. Bailey](#) (7)
- [Julisa Janick](#) (5)
- [Show more...](#)

Year

- [2012](#) (28)
- [2011](#) (52)
- [2010](#) (48)
- [2009](#) (30)
- [2008](#) (48)
- [Show more...](#)

Language





- [English](#) (560)
- [Hindi](#) (1)
- [Undetermined](#) (1)

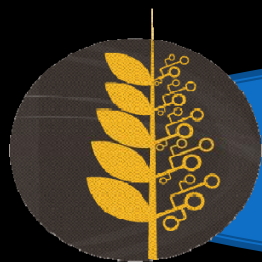
Audience

- [Juvenile](#) (32)
- [Non-Juvenile](#) (530)

Results 1-10 of about 562 (.15 seconds)

[Select All](#) [Clear All](#) Save to: [New List] Save Sort by: Library and Relevance Save Search

- ☐ 1.  [Horticulture](#)
by Mahmood Niaz Malik
eBook : Document
Language: English
Publisher: Delhi : Biotech Books, 2000.
Libraries that own this item: [AGRICAT Libraries](#)
[Editions and formats >](#)
- ☐ 2.  [Horticulture](#)
by R Gordon Halfacre; John A Barden
Book
Language: English
Publisher: New York : McGraw-Hill, ©1979.
Libraries that own this item: [AGRICAT Libraries](#)
[Editions and formats >](#)
- ☐ 3.  [Horticulture](#)
by Rajendra Reddy; J P Abhay Shankar
Book
Language: English
Publisher: New Delhi : Commonwealth Publishers, 2008.
Libraries that own this item: [AGRICAT Libraries](#)
- ☐ 4.  [Introductory horticulture](#)
by Everett P Christopher
Book
Language: English
Publisher: New York : McGraw-Hill, 1968.



KRISHI KOSH ..Open Access IR

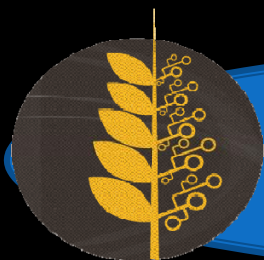
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Krishi Kosh - Is Open Access Institutional repository developed as part of E-Granth for sharing knowledge

State Agricultural Univ. & ICAR Institutes - have vast collection of rare books, gray literature, in-house publications, extension literature these have been digitized using D Space

Initiated with 4 universities (UAS Bangalore , ANG Ranga Agril Univ Hyderabad, IARI, New Delhi and IVRI, Izatnagar) Lately 5 more Universities have been added

Repository is accessible 24x7 at [http:// www.egranth.ac.in](http://www.egranth.ac.in)



View of KrishiKosh IR

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The screenshot shows a web browser window with the address bar displaying "Krishikosh: Home" and the URL "14.139.56.90". The website header features the "KrishiKosh (कृषिकोष)" logo, which includes a globe and the text "e-GRANTH". Below the logo, it states "An Institutional Repository under National Agricultural Research System (NARS)". To the right of the header is the NAIP logo.

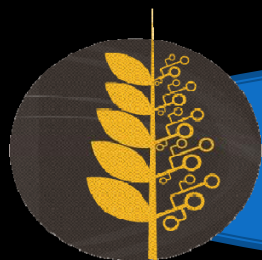
The main content area is divided into several sections:

- Search Krishikosh:** Includes a search input field with a "Go" button and a link to "Advanced Search".
- Browse:** Lists categories such as "Communities & Collections", "Date of Publication", "Author", "Title", and "Subject".
- Sign on to:** Provides options for "My Krishikosh authorized users" and a link for "New user? Click here to register."
- Krishikosh @ IARI:** A welcome message stating: "Welcome to Krishikosh, the Institutional Repository under Indian NARS. The repository of knowledge in agriculture and allied sciences, having collection of old and valuable books, records and various documents spread all over the country in different libraries of Research Institutions and State Agricultural Universities (SAUs)."
- Communities in Krishikosh:** A section titled "Choose a community to browse its collections." listing nine institutions with their respective document counts in brackets:
 1. [Indian Council of Agricultural Research](#) [482]
 2. [Indian Agricultural Research Institute](#) [5422]
 3. [Acharya NG Ranga Agricultural University](#) [2578]
 4. [Indian Veterinary Research Institute](#) [2505]
 5. [University of Agricultural Sciences](#) [2678]
 6. [Central Marine Fisheries Research Institute](#) [348]
 7. [Govind Ballabh Pant University Of Agriculture And Technology](#) [256]
 8. [Tamilnadu Agricultural University](#) [223]
 9. [National Research Centre On Coldwater Fisheries](#) [66]Below this list are links for "KrishiPrabha [4951]" and "z17dec2012 [3]".
- Latest News:** A box containing three news items:
 - Admin Training on Dspace held at IARI Library, New Delhi from 10th September 2012 to 12th September 2012.
 - Training on Dspace held at IARI Library, New Delhi from 25th June 2012 to 26th June 2012.
 - Training on Dspace held at ANGRAU, Hyderabad from 13th to 14th March 2012.
- RSS Feeds:** A section with links for "RSS 1.0", "RSS 2.0", and "RSS".

At the bottom of the page, there is a footer with copyright information: "Copyright © 2012 Indian Agricultural Research Institute, New Delhi. All rights reserved." and a note about the platform: "Powered by DSpace | Compliant to OAI-PMH V 2.0 | Configured and Managed by HCL Infosystems Ltd." A "W3C XHTML 1.0" validation logo is also present.

The browser's taskbar at the bottom shows the "start" button, several open document windows, and the system clock displaying "14:49".





Krishi Prabha .. digitization of dissertations

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Krishi Prabha - Digitization of over 6000 Full Text **doctoral dissertations** available in 45 Indian State & Deemed Agril universities. from the year **2000-2007**.

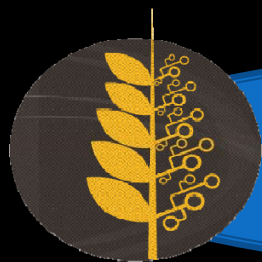


Developed by library of Haryana Agril University with grant in support from ICAR under **world bank supported NAIP** project in the year 2007-2011



NEHRU LIBRARY
CCS Haryana Agricultural University, Hisar



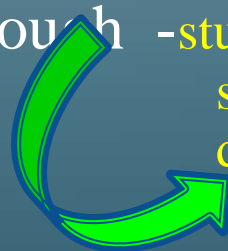


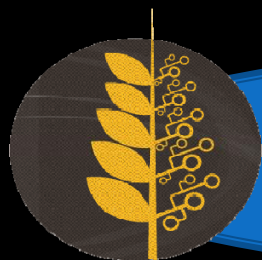
Krishi Prabha...

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KrishiPrabha database -Can be searched **online** over Web

1. **Free online** access has been given to users of all libraries through IP address as well as Password
2. **Copying & printing** of Full text is restricted for preventing plagiarism.
3. **Non members** can access metadata and abstract only
4. **Searches** can be made through -students name
supervisors name
disciplines , year
set of key works
5. **Google** has proposed to index in **Google scholar**





Krishi prabhaAs viewed in Web

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World Congress

Equest: Your Digital Library x

202.141.47.8:8080/equestthesis/



KrishiPrabha Indian Agricultural Doctoral Dissertations Repository

KrishiPrabha is a full-text database of Indian Agricultural Doctoral Dissertations submitted by research scholars to the 45 State/Deemed Agricultural Universities during the period from 1.1.2000 to 31.12.2007. This database, listing about 7500 Doctoral Dissertations with a full text of about 6000 Dissertations, has been created by Nehru Library, Ch. Charan Singh Haryana Agricultural University, Hisar with financial support from Indian Council of Agricultural Research, New Delhi under its National Agricultural Innovation Project.

Search Options:

Member Non-Member IP User

Sub-Administrator Administrator

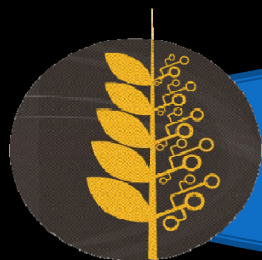
User Id

Password

Go

Downloads 76370

start Microsoft Office... Explained - Synon... JCCC@CeRA - Go... Home | e-Granth... Nehru Library, CS... Equest: Your Digit... My Scans 15:06



...Typical Krishi Prabha Search record..

IAALD/2013
World Congress

Equest: Your Digital Library Gateway - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Krishikosh - An Institutional Repository u... x Equest: Your Digital Library Gateway

14.139.232.167:8080/equestthesis/TextResult.do

Most Visited Getting Started Customize Links Free Hotmail Windows Marketplace Windows Media Windows

eQuest
Your Digital Library Gateway

KrishiPrabha

Home | Search Options | Browse | Help

Logout

::68 Record(s) found ::

Export record(s) as ☐ PDF ☐ Word ☐ Excel

You have selected "vegetable production"

Title	Amelioration of the microclimate of vegetable crops susceptible to low temperature using mulches	
Author	Gandhi, Navdeep	
Advisor/Guide	Bains, G S	
University/Institute	Punjab Agricultural University	
Place	Ludhiana	Full Text
Category/Faculty	Agriculture	Abstract
Sub-Category/Dept.	Agricultural Meteorology	PDF Text
Year of Accept.	2005	
Keywords	Brinjal, Capsicum, Chilli, Microclimate, Mulches, Tomato.	
Collation	168	

Title Assessment of tomato hybrids under greenhouse conditions

Author Yogeshwar

Advisor/Guide Arora, S. K.

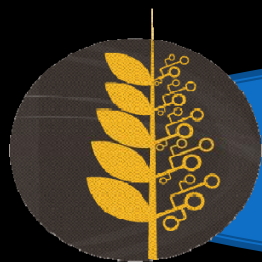
University/Institute Chaudhary Charan Singh Haryana Agricultural University

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Start Microsoft PowerPoint - [I... Govind Ballabh Pant Univ... Equest: Your Digital Li...

15:47



Moving libraries to web....

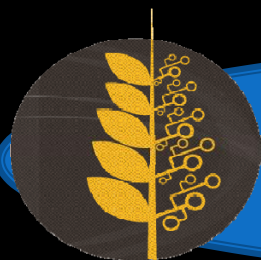
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Websites have become important areas of **communication & visibility**. Indian libraries are exploiting Internet services.

Digitization is picking up purposely with 4 country wide collaborative project (E-Granth Agicat , Krishi kosh, Krishiprabha, CeRA)

Examples of Exploiting Web based tools is notable from Union Web Catalogue created by E Granth's Agricat / World Cat and **Krishi Kosh** and KrishiPrabha digital repository .

Twelve State Univ. libraries have hosted their catalogue over Web / have WebOPAC, others are in process, have in-house OPAC .



View of Web searchable OPAC....

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Kerala Agricultural University Central Library, Mannuthy, Thrissur, Kerala - Mozilla Firefox

www.kaucentrallibrary.org/search.php?tt=horticulture&sr=&ct=&aj=

KAULIS - KERALA AGRICULTURAL UNIVERSITY LIBRARY INFORMATION SYSTEM
CENTRAL LIBRARY - KERALA AGRICULTURAL UNIVERSITY
Vellanikkara, Thrissur, Kerala, INDIA - 680656

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Advanced Search

Title: horticulture Author: Category: All materials Subject: Any subject

Search

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Sl. No	Title	Author / Holdings	Type
1	Indian Journal of Horticulture		E-Journals
2	Management of horticulture	H P Stuckey	Hard copy Books
3	Vanijya pookrish: Horticulture	T P Murali	Hard copy Books
4	Biotechnology and its application in horticulture	S P Ghosh	Hard copy Books
5	Introductory ornamental horticulture	J Sivara	Hard copy Books
6	Text book of general horticulture	Julian Claude Schilleter, Garry Wyatt, Roney	Hard copy Books
7	Encyclopaedia of horticulture	Roy E Biles, E L D Seymour	Hard copy Books
8	Encyclopaedia of horticulture v. 2	J Coult, A Osborn, A Edwards	Hard copy Books
9	Gardener's assistant: an encyclopaedia of horticulture v2	William Wetson	Hard copy Books
10	Gardener's assistant: an encyclopaedia of horticulture v3	William Watson	Hard copy Books
11	Gardener's assistant: an encyclopaedia of horticulture v5	William Watson	Hard copy Books
12	Gardener's assistant: an encyclopaedia of horticulture v6	William Watson	Hard copy Books
13	Encyclopaedia of Horticulture v3	John Weathers	Hard copy Books
14	Agro's dictionary of horticulture	Surendra Prasad	Hard copy Books
15	Scientific horticulture. V. 1	S P Singh	Hard copy Books
16	Scientific horticulture. V3	S P Singh	Hard copy Books
17	Encyclopaedia of horticulture	John Weathers	Hard copy Books
18	Encyclopaedia of horticulture. V. 2	John Weather	Hard copy Books

Start Microsoft PowerPoint - D... University Library, GBPU... University of Agricultural... Library | Anand Agricul... Kerala Agricultural Un... Document1 - Microsoft ... 11:44

University Library, GBPUAT, Pantnagar: Home - Mozilla Firefox

University Library, GBPUAT, Pantnagar: Ho...

www.gbpuat.ac.in/library/index.html

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University Library
G. B. Pant University of Agriculture & Technology, Pantnagar

Welcome to University Library

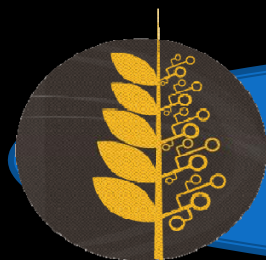
About Library
OPAC (NEW)
OPAC (OLD)
In House Databases
Online Journals
Digital Repository
Related Links
KrishiPrabha (e-Theses)
CeRA

New Online Access
[Annual Reviews](#)
[Science Direct](#)
[Taylor & Francis](#)
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[CSIRO](#)
[CeRA](#)
[IEEE](#)
[ASME](#)
[ASCE](#)
[EBSCO](#)
[J-Gate](#)
[Oxford Journals](#)
[ASTM Digital Library](#)
[Access Engineering](#)

University Library, G. B. Pant University of Agriculture & Technology,
Pantnagar - 263145, US Nagar, Uttarakhand (India)
Phone: 05944-233557 Fax: 05944-233473

Visitors Since 25/09/09
0028270

Start Microsoft PowerPoint - D... University Library, GB... 11:51



View of searchable WebOPAC...

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CSK HPKV, Palampur, HP catalog - Results of search for 'ti,wrdb: vegetable production' - Mozilla Firefox


File Edit View History Bookmarks Tools Help

Welcome to University Library, Palampur ... x CSK HPKV, Palampur, HP catalog x CSK HPKV, Palampur, HP catalog > Result... x +


14.139.224.133/cgi-bin/koha/opac-search.pl?idx=ti&q=+vegetable+production

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Log in to your account | Search history [x]

 **CSKHPKV University Library**

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 Search

Advanced search | Browse by author or subject | Tag cloud

Your search returned 87 results.

Refine your search

Availability
Limit to [currently available items](#).

Authors
[Arva, Prem Singh](#)
[Asian vegetable rese...](#)
[Chauhan, D V S](#)
[Kohli, U K](#)
[Som, M G](#)
[Show more](#)

Libraries
[CSK HPKV, Palampur, HP](#)

Series
[Crop production scie...](#)
[Crop production scie...](#)
[FAQ plant production...](#)
[FAQ plant production...](#)

☐ 1. [Integrated pest management for protected vegetable cultivation in the near east](#)
by Van Alebeek, F A N. -- Van Lentern, J C
Publisher: Rome Food and Agriculture Organization of the United Nations 1992
Availability: **Copies available for loan:** CSK HPKV, Palampur, HP [635.0497 V191 FAQ] (1).
★★★★★
Actions:

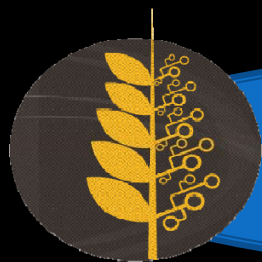
☐ 2. [Vegetable production in India](#)
by Chauhan, D V S.
Edition: 4th ed
Publisher: Agra Ram Prasad and sons 1996
Availability: **Copies available for loan:** CSK HPKV, Palampur, HP [635.0954 C32V4] (1).
★★★★★
Actions:

☐ 3. [Summer school on hybrids and hybrid seed production technology of vegetable crops](#)
by Chakrabarti, A K.
Publisher: New Delhi Indian Agricultural Research Institute 1997
Availability: **Copies available for loan:** CSK HPKV, Palampur, HP [635.0423 C27S] (1).
★★★★★
Actions:

☐ 4. [Vegetable production and marketing: proceedings of a national review and planning workshop, 26-29 January 1992, Bari, Joydebpur, Gazipur, Bangladesh](#)
by Asian vegetable research and development center.
Publisher: Taipei 1992
Availability: **Copies available for loan:** CSK HPKV, Palampur, HP [635 A82V] (1).
★★★★★
Actions:

☐ 5. [Advances in breeding and seed production of commercial vegetables, Feb 26th to Mar 4th 1998](#)

Start Microsoft Powe... University Libra... University of A... Library | Anand... ng ganga agric... CSK HPKV, Pal... Document1 - Mi... Agri screenshor... IAALD full paper 11:59



And.... Social Network tools

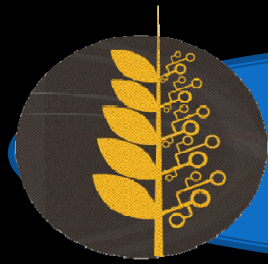
IAALD/2013
International Association of Agricultural Librarians & Documentalists
World Congress

Though evidence of Indian Agril. libraries exploiting web technology is promising, use of social network tools like face book, twitter still need to be exploited extensively.

12 libraries collaborating in E-Grant-AgrCat project are using Flicker tools to display books /view collection facilitating readers interest

chat services widely accepted in many countries finds a missing link in web pages of Indian libraries with few exceptions

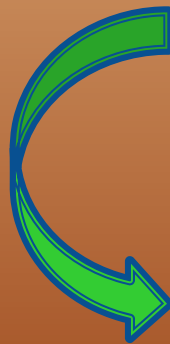
Most Libraries are in transition from Static websites to interactive web oriented services using web based tools



Use social network tools

IAALD/2013
International Association of Agricultural Librarians and Documentalists
World Congress

Flicker tools
used to display
books




CSK HPKV, Palampur, HP catalog - Mozilla Firefox


Welcome to University Library, Palampur ... CSK HPKV, Palampur, HP catalog ... CSK HPKV, Palampur, HP catalog - Result ...

14.139.224.133

Log in to your account

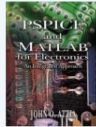
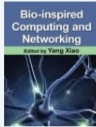
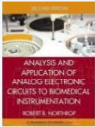
 **CSKHPKV University Library**

HOME ABOUT THE LIBRARY E-RESOURCES CONTACT US FEEDBACK

 Search

Advanced search | Browse by author or subject | Tag cloud

New & Upcoming Titles



[See the whole New & Upcoming Titles List](#)

Log in to your account:
Login:

Password:

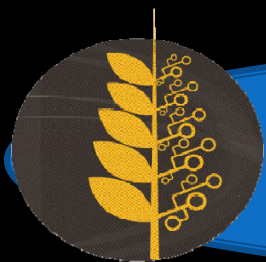
CSKHPKV, University Library, Palampur-176062
Phone No: 01894 -230361 (Office) | EPABX No: 181, 184, 183, 193 | E-mail: librarycskhpkv@gmail.com, devvaliacopi@gmail.com
Web page: <http://www.hillagric.ac.in/library/index.htm>

Implemented & Maintained by OpenLX

No. of Visitors:
00001993

Koha Powered by OpenLX

Start Microsoft PowerPoint - [I... Screen short OPAC - Mic... IAALD full paper CSK HPKV, Palampur, ... 12:36



conclusions

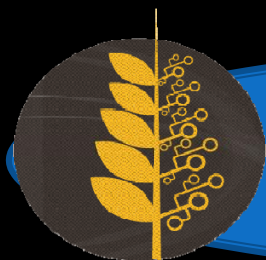
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World Congress

Digitization and collaborations between Indian Agril libraries shows that professionals have taken well on the technology front .

Contents are being opened to flow over web and being shared among agriculture community.

Through world bank –ICAR funded project (NAIP) a beginning has been made to develop capacity in digital Information Mgt. leading to further growth and development.....





IAALD World Congress 21-25 July , Cornell University , Ithaca NY, USA

IAALD/2013
International Association of Agricultural Librarians and Documentalists
World Congress

Thanks for your attention !!!





INTERNATIONAL FOOD POLICY
RESEARCH INSTITUTE

sustainable solutions for ending hunger and poverty

IFPRI

A member of the CGIAR Consortium

Collaboration for Impact

Indira Yerramareddy
Luz Marina Alvare

July 23, 2013

Thesis

- ❖ Research results are a vital, fundamental public resource
- ❖ Organizing the information and disseminating it in a timely fashion has an enormous impact in addressing challenging problems
- ❖ IFPRI can create sustained impact by enabling and cultivating dynamic transfer of relevant information between researchers, academics, and policy makers



Collaborative Impact Test Case

- ❖ February 2011 in New Delhi, India
- ❖ 2020 Conference: Leveraging Agriculture for Improving Nutrition and Health
- ❖ Conference main objectives:
 - ❖ Bring together information and ideas to strengthen linkages among agriculture, nutrition, and health
 - ❖ Identify “best practices” in policies and programs
 - ❖ Facilitate networks among stakeholders



Social Network for Conference

- ❖ Spreading awareness
- ❖ Enabling dynamic exchange of information
 - ❖ Improving the relevance of research
 - ❖ Enhancing the impact of research
- ❖ Mendeley
 - ❖ Reference manager
 - ❖ Academic social network
 - ❖ Collaborative bibliography
 - ❖ Online space to share publications and have discussions




How and Why We Picked Mendeley?

❖ How:

- ❖ Brainstorming sessions to identify factors to guide us in our choice


❖ Why:

- ❖ Cross-platform compatibility: desktop, web, mobile devices
 - ❖ Storage space
 - ❖ Cost
 - ❖ Ease of use
- 

Why We Picked Mendeley?

Comparison	Mendeley	EndNote	RefWorks	zotero
Software	Free	\$250	\$100	Free
Free web storage space	2GB	1GB	NA	100MB
Annotations/Highlighting in PDFs	Yes	Yes	No	No
Cross-platform synching across desktop, web and mobile devices	Yes	No	No	Yes
Free and open database approaching 100 million documents	Yes	No	No	No
Personalized paper recommendations	Yes	No	No	No
Readership statistics & community tags	Yes	No	No	No
Open Web API	Yes	No	No	Yes
Full text search across all your papers	Yes	Yes	No	Yes
Search across external databases	Almost there!	Yes	Yes	No
Social network	Yes	No	No	Yes
Compatibility with all modern web browsers	Yes	No	Yes	No
Mobile & iPad	Yes	No	No	No
Extraction of citation details from PDFs without embedded metadata	Yes	No	No	Yes


Setting up a Discussion Group is Easy

 **Agriculture, Nutrition and Health**, owned by [you](#) Hide Settings

Details

Group name

Group description
Collaborative bibliography of research publications related to agriculture, nutrition and health, 2020 Conference on "Leveraging Agriculture for Improving Nutrition and Health"
<http://2020conference.ifpri.info>

Current group image


Group weblink

Categorize this group

Group categories

Group tags

Membership

This is a Public Group

☒ **Open**
Public can contribute; good for crowd-sourcing reading lists

☐ **Invite-only**
Public can follow only; good for sharing references or reading lists

Increased Conference Visibility

MENDELEY

Welcome back IFPRI Library 10 9+ 5 My Account Upgrade

Invite colleagues / Support

Dashboard My Library Papers Groups People Groups Search...

Agriculture, Nutrition and Health

In this group: **170 papers** - **175 members**

Invite people to join Share f t e

Mendeley Economics Groups

Overview

- Papers
- Members
- Settings

Group activity

Ask a question or comment here

Matheus Garcia de Fragas
Please Help us. Help Brazil #changebrazil
http://www.facebook.com/l.php?u=http%3A%2F%2Fyoutu.be%2FAIBYEXLGdSg&h=nAQGz_cLg
Like - Comment - 16th June
Marisol Tenorio likes this.

Indira Yerramareddy added documents to this group

- Agriculture and Nutrition in Pakistan: P... Disconnects
- Can Agriculture Meet Future Nutrition C...
- Smallholder agriculture's contribution to better nutrition
- Diversifying Food and Diets: Using Agricultural Biodiversity to Improve Nutrition and Health

Like - Comment - 11th June

You added a document to this group

- Can the world afford to ignore biotechnology solutions that address food insecurity?

About this group

Owned by **IFPRI Library**
Other Professional
Social Sciences

Collaborative bibliography of research publications related to agriculture, nutrition and health, 2020 Conference on "Leveraging Agriculture for Improving Nutrition and Health" <http://2020conference.ifpri.info>.

mendeley.com/groups/844241/agriculture-...

228 members

Economics Medicine Social Sciences

Agriculture Health IFPRI Nutrition

- Increased visibility
- Active discussions
- 228 group members

Membership Diversity

- ❖ Economists
- ❖ Researchers
- ❖ Academicians
- ❖ Librarians
- ❖ Other Professionals
- ❖ Students
 - ❖ Ph.D. Students
 - ❖ Masters
 - ❖ Bachelors

Group Members

- ❖ Africa
- ❖ Asia
- ❖ Europe
- ❖ Middle East
- ❖ North America
- ❖ South America

Continued Usage for Sustained Impact


- ❖ Assists – cataloguing and managing academic papers and articles
- ❖ Shares – academic and scientific knowledge with selected colleagues
- ❖ Discovers – academic knowledge and allows detailed search of papers
- ❖ Puts in touch with like-minded people and facilitate research projects



Cross-linking to Social Media

The screenshot shows the Mendeley interface for a group named 'Agriculture, Nutrition and Health'. The group has 170 papers and 175 members. The left sidebar contains links for 'Overview', 'Papers', and 'Members'. The main content area, titled 'Group activity', shows a list of recent actions. A red arrow points to a post by 'Matheus Garcia de Fragas' dated 16th June, which includes a Facebook link. Another red arrow points to a post by 'Indira Yerramareddy' dated 11th June, which lists several documents added to the group. A third red arrow points to a post by 'IFPRI Library' dated 11th June, which lists a document added to the group. The documents listed include 'Agriculture and Nutrition in Pakistan: Pathways and Disconnects', 'Can Agriculture Meet Future Nutrition Challenges?', 'Smallholder agriculture's contribution to better nutrition', 'Diversifying Food and Diets: Using Agricultural Biodiversity to Improve Nutrition and Health', and 'Can the world afford to ignore biotechnology solutions that address food insecurity?'.

Get Mendeley What is Mendeley? Papers Groups

 **Agriculture, Nutrition and Health**
In this group: 170 papers · 175 members


Mendeley Economics Groups


Overview


Papers

Members

Group activity

 **Matheus Garcia de Fragas**
Please Help us. Help Brazil #changebrazil
http://www.facebook.com/l.php?u=http%3A%2F%2Fyoutu.be%2FAIBYEXLGdSg&h=nAQGz_cLg
16th June
Marisol Tenorio likes this.

 **Indira Yerramareddy** added documents to this group
Agriculture and Nutrition in Pakistan: Pathways and Disconnects
Can Agriculture Meet Future Nutrition Challenges?
Smallholder agriculture's contribution to better nutrition
Diversifying Food and Diets: Using Agricultural Biodiversity to Improve Nutrition and Health
11th June

 **IFPRI Library** added a document to this group
Can the world afford to ignore biotechnology solutions that address food insecurity?
11th June

- Documents added by different users
- Links to social media sites
- Provides feedback through useful comments
- Provides feedback on interest through, for example, how many liked it

Cross-linking to Social Media (cont.)

Using a discrete choice experiment to elicit the demand for a nutritious food: Willingness-to-pay for orange maize in rural Zambia
by J V Meenakshi, A Banerji, Victor Manyong, Keith Tomkins, Nitya Mittal, Priscilla Hamukwala

Journal of Health Economics (2012)
Volume: 31, Issue: 1, Publisher: Elsevier, Pages: 62-71
DOI: 10.1016/j.jhealeco.2012.01.002

Available from Journal of Health Economics
or Find this paper at:

Abstract

Using a discrete choice experiment, this paper estimates the willingness to pay for biofortified orange maize in rural Zambia. The study design has five treatment arms, which enable an analysis of the impact of nutrition information, comparing the use of simulated radio versus community leaders in transmitting the nutrition message, on willingness to pay, and to account for possible novelty effects in the

... suggest that a biofortified orange maize is not only used with yellow maize, and has the

... modes of nutritional message dissemination have the same impact on consumer acceptance.

Author-supplied keywords

Related

Willingness to accept versus willingness to pay in a discrete choice experiment.
Janneke P C Grutters, Alfons G H Kessels, Carmen D Dirksen, Debby Van Helvoort-Postulart, Lucien J C Anteunis, Manuela A Joore in *Value in health the journal of the International Society for Pharmacoeconomics and Outcomes Research* (2008)

17 readers

Share

<http://mnd.ly/12umPJT>

☒ Short URL

Share on Facebook

Share on Twitter

E-mail this link

Readership Statistics

10 Readers on Mendeley

by Discipline

- 40% Social Sciences
- 40% Economics
- 10% Arts and Literature

by Academic Status

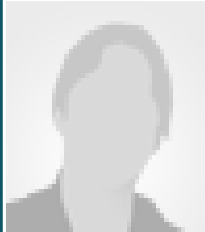
- 40% Post Doc
- 20% Researcher (at a non-Academic Institution)
- 20% Student (Bachelor)

by Country

- 30% United States
- 10% Italy
- 10% China

Share your content using Facebook, Twitter, Email, also Embed

Soliciting Constructive Criticism

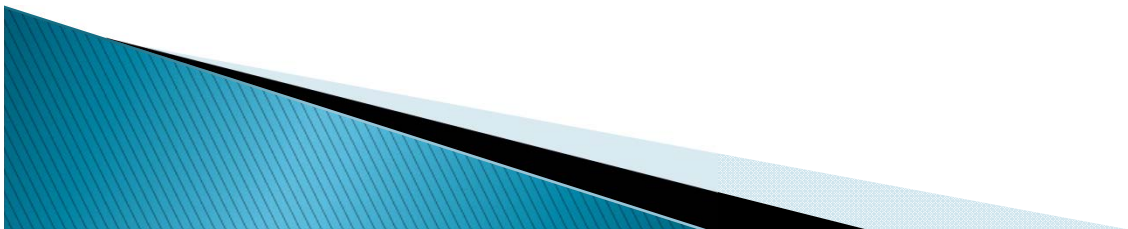


Keiron Audain

66 Greetings all, by chance if anyone with an Environmental and/or Public Health background would be interested in reading and commenting on an article I submitted for publication it would be most appreciated. The title is "A Drastic Measure for a Drastic Time: why restricting meat production might be considered as a means of reducing environmental and public health degradation"

You can send me a message, or email me at keiron.audain@gmail.com - Thanks!

27th January



Rapid and Wide Dissemination of Research



IFPRI Library

2012 Global Hunger Index is out!



For the 2012 GHI, IFPRI found new ways to communicate its message. This year we built on the 2011 GHI's Linked Open Data (LOD) <http://data.ifpri.org/od/ghi> work to offer another data format, OWL Version <http://data.ifpri.org/od/ghi.owl>, in addition to RDF Version <http://data.ifpri.org/od/ghi.rdf>; we have added a Data Visualization http://public.tableausoftware.com/views/GHIDashboard/GHI_Dashboard?:embed=y using Tableau; and partnered with World Data Atlas <http://www.world-data-atlas.com> to display GHI data using their collaborative mapping tool.

Get different forms of data from <http://hdl.handle.net/10362/18959>

Full reports

English: <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/127150>

Italian: <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/127151>

French: <http://ebrary.ifpri.org/cdm/singleitem/collection/p15738coll2/id/127154>

German: <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/127152>

Issue Brief: <http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/id/127155>

11th October, 2012

**Disseminated IFPRI
publication widely**

Monitor Usage Statistics to Make Research More Relevant

2011 Global food policy report

International Food Policy Research Institute (IFPRI) (2012)

The 2011 Global Food Policy Report is a new annual IFPRI publication that provides a comprehensive, research-based analysis of major food policy challenges at the global, regional, national, and local levels. It highlights important developments and...

23

Readership Statistics

 37 Readers on Mendeley

by Discipline

30% Social Sciences

30% Economics

14% Environmental Sciences

by Academic Status

24% Researcher (at an Academic Institution)

22% Student (Master)

16% Ph.D. Student

by Country

24% United States

8% Switzerland

8% South Africa

37 readers

37 Readers

Published Biographies Help Facilitate Collaborative Communities

Rajul Pandya-Lorch

*Head 2020 Vision Initiative and
Chief of Staff*

Division: **Director General's Office**

Email: **r.pandya-lorch@cgiar.org**

Office: **IFPRI-Washington, DC**

Position: **Senior Management Team**



Rajul Pandya-Lorch, a Kenyan citizen of Indian origin, is head of IFPRI's 2020 Vision for Food, Agriculture, and the Environment Initiative, a global initiative that seeks to identify solutions for meeting world food needs while reducing poverty and protecting the environment. She concurrently serves as Chief of Staff in the Director General's Office.

Publications



2009 Global Hunger Index: The challenge of hunger: Focus on financial crisis and gender inequality.

K. von Grebmer, B. Nestorova, A. Quisumbing, R. Fertziger, H. Fritschel, R. Pandya-Lorch,



2009 Global Hunger Index: The challenge of hunger: Focus on financial crisis and gender inequality.

K. von Grebmer, B. Nestorova, A. Quisumbing, R. Fertziger, H. Fritschel, R. Pandya-Lorch,
IFPRI Brief., (2009)



**Agriculture, Nutrition
and Health**

 **MENDELEY**

[View group](#)

Embedded PUBLICATIONS

Embedded GROUP

Conclusion

- ❖ Online collaborative groups are highly effective in creating sustained impact
- ❖ Conference was in 2011, but after two years the message is still passing to different audiences
 - ❖ People still join/contribute to the group
 - ❖ Researchers/Students use this library for research/thesis
 - ❖ Policymakers read and learn how to improve the lives of poor people in the developing countries
 - ❖ Effective tool for literature management
 - ❖ Platform to bring subject matter experts



Thanks...

- ❖ Anyone can join/contribute a recent/relevant publication through our group [Agriculture, Nutrition and Health](#), which collects all the latest work and research on the intersection of agriculture, nutrition, and health

Knowledge is a live process ...please share

