



Open Access Essentials: How You Can Go Open Access with CIAT?

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Context

Simone Staiger-Rivas

Definition

Open Access means the immediate, irrevocable, unrestricted and free online access by any user worldwide to information products, and unrestricted re-use of content, subject to proper attribution.

Information products: Peer-reviewed journal articles; reports and other papers; books and book chapters; data and databases; data collection and analysis tools (e.g. models and survey tools); video, audio and images; computer software; web services (e.g. data portals, modeling on-line platforms); and metadata associated with the information products above.

Open Access Policy

CIAT will adopt the CGIAR OA policy (all 15 centers approved it)

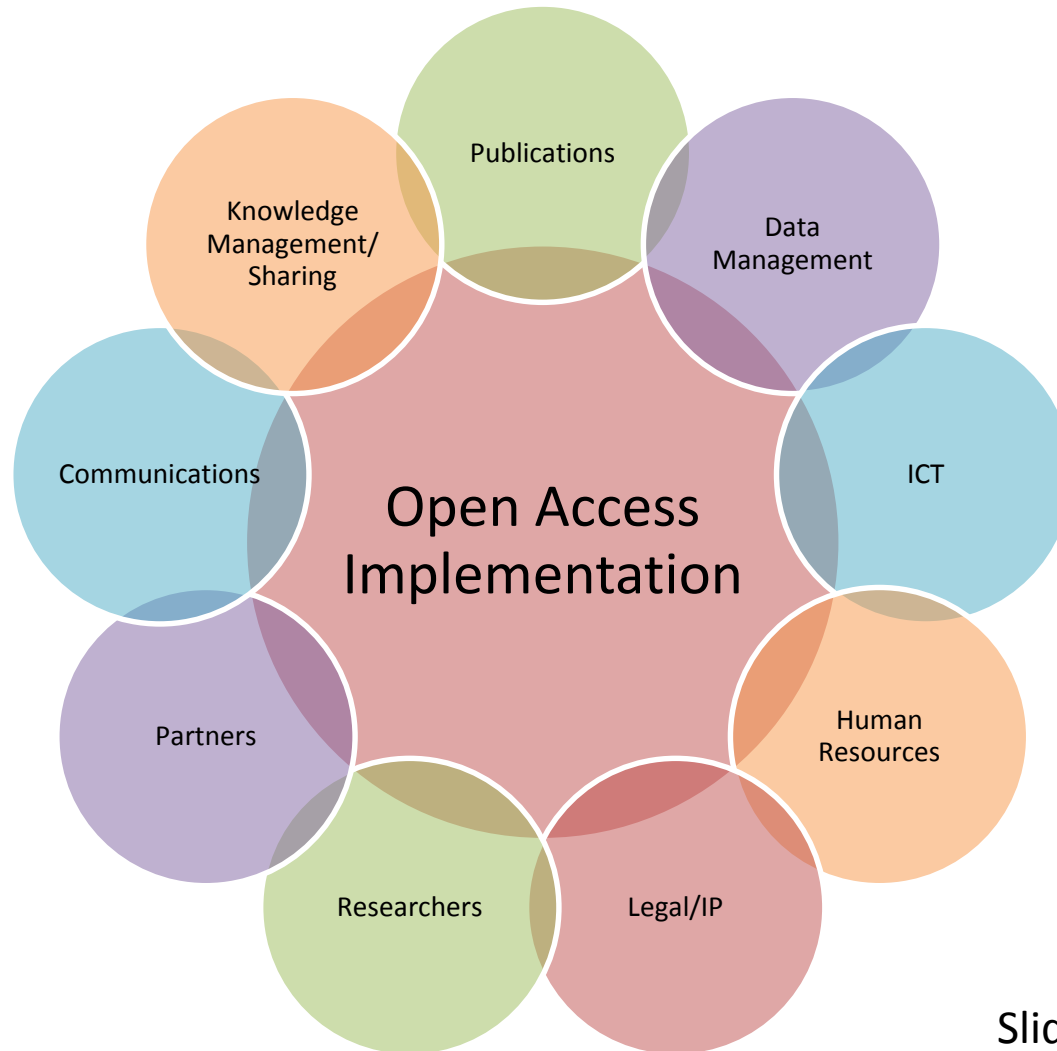
- Information on OA for each information product

Encourage access, use and re-use through:

- Respect of legal rights of partners
- Availability on suitable repositories
- Interoperability
- Data storage and preservation
- Open licenses
- Incentives
- Translation
- Internet connectivity
- Data management Plans



Open Access Impacts Everyone

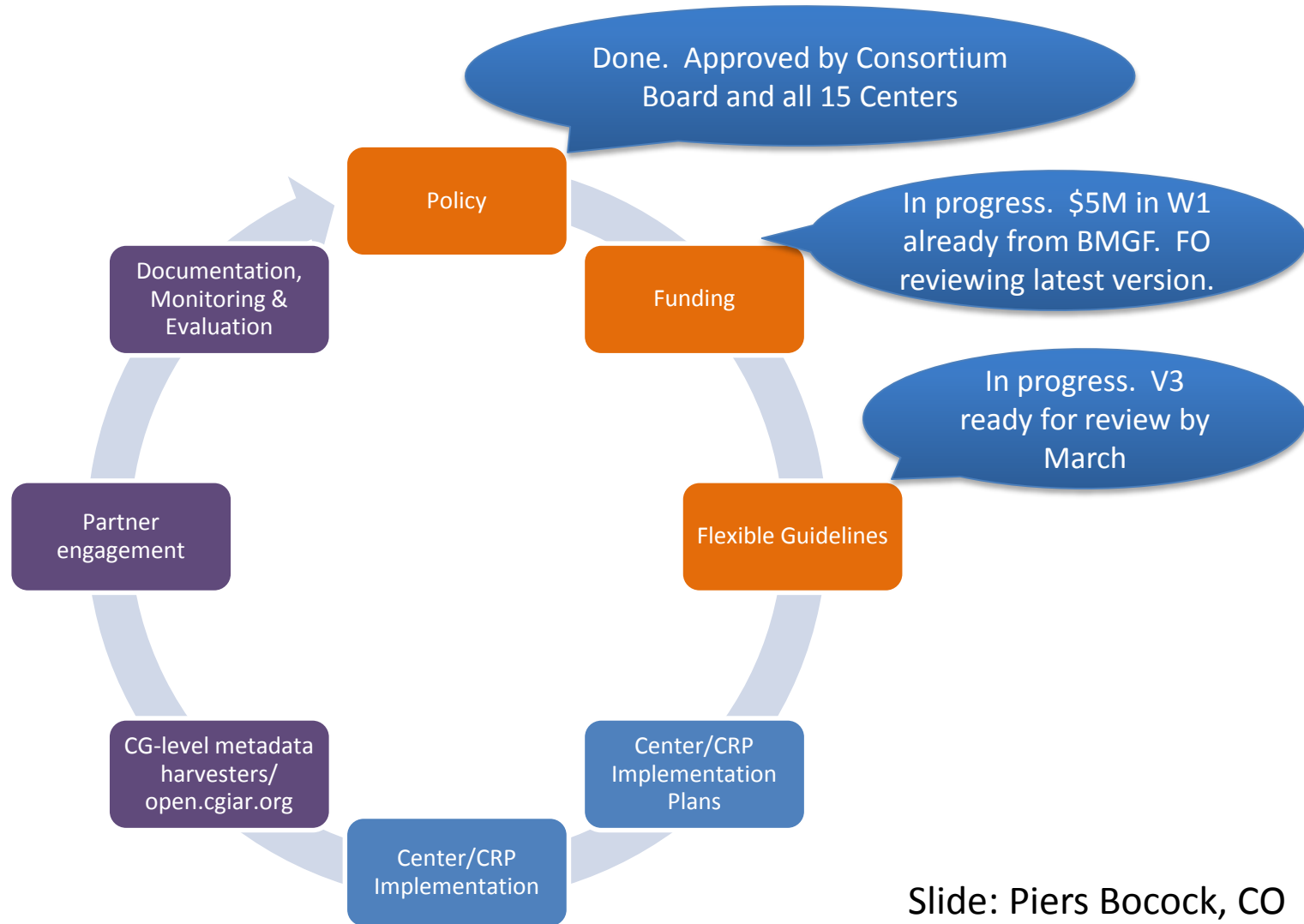


Slide: Piers Bocock, CO

CIAT Information & Data Management

- Refocus of the Library
- Hire of an information & data manager
- Contributing and following CGIAR guidelines
- Decision making through committee (biophysical, bioinformatics, socio-economics, climatic data managers, IT, legal advisor, librarians)
- Data and information management strategy and plan

Key Components for OA Success



Slide: Piers Boccock, CO



Legal Perspective

Maria Virginia Jaramillo

Effective date: October 2, 2013



- Ownership = CIAT
- Authorship = Researcher

While information may be technically open, it also must be legally accessible.

- The policy applies to all information products produced by the CGIAR Consortium, its members and their partners within the scope of the Strategy and Results Framework (“SRF”) and the CGIAR Research Programs (“CRPs”).
- Requirement comes from Donors
 - International movement
 - Avoid duplications
 - Visible and accessible outputs



Practitioners Perspective

Liliana Gil

“The problem of data management is not that we don’t know how to manage it, but the availability of the data” – A. Jarvis

“Only 20 % approx. of the centers data is available” – Joe Tohme

Institutional Repository for Data Publication Socio-economic - Climate Data

Soils Diagnostic Trials Data



Soils Profile Data LAC



Crop's Evaluation Trial data

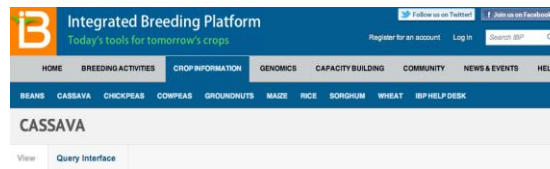


**Platforms for data
publication & Open
Access implementation**

GIS Data



Breeding/Phenotypic Data



To Make Open Access Happen

One of the Challenges



Well organized data

METADATA



Standardize to enable
Interoperability

EXCEL SHEETS



Excel sheets that can be
easily converted into a
proper relational
database

METADATA



CG Core metadata schema based on
Dublin Core



a widely-used metadata standard,
CGIAR's will have a limited number of additional
elements specific to the CGIAR environment.

Data Management & Open Access Task Forces

METADATA

DATAVERSE	DUBLIN CORE
Title	Title
Authors	Creator/Author
Producer	Publisher
Center/Institution	Subject
Distributor	Contributor
Contact	Date
Description	Type of data
Time period cover	Format
Date of collection	Identifier
Type of data	Source
Geographic coverage	Coverage

What could be the minimum information about my datasets, to make it re-usable by others?



METADATA

* N2Africa Project. Data collection template Agronomy data

	A	B	C	D	E	F	G
1	Part B: Information on the trial site						
2							
3			Specify if other				
4	Ownership of trial plot	Family land					
5	Who manages the plot?	Both					
6	Who decides on the use of the harvest?	Both					
7							
8	Perception of fertility of soil by farmer	Moderate					
9	The soil fertility in the N2Africa plot relative to own fields	the same					
10							
11	History of trial site						
12		Last season	Season before last season				
13	Main crop(s) grown at trial site	Maize	Maize				
14	Type of mineral fertilizers used						
15	Type of organic fertilizers used						
16	Type of inoculant used						
17							
18	Location of plot on the landscape	Slope					
19							
20	Soil drainage	Moderate					
21	Signs of soil erosion?	Y					
22	Presence of soil conservation structures?	Y	Specify other:				
23	If yes, which ones	Bench terrace					
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							

EXCEL Sheets

An Excel sheet IS NOT a database *per se*



SQL programming Language

Socio-economic example

Lessons Learnt

1. Organize your data from start
2. Data management of a project should be handled at a project level.
3. All the actors -PI, PhD, Msc students- on a research project are responsible for ensuring that research data is described by the appropriate metadata.

Lessons Learnt

4. IM curation is about making sense of data and information for a specific audience



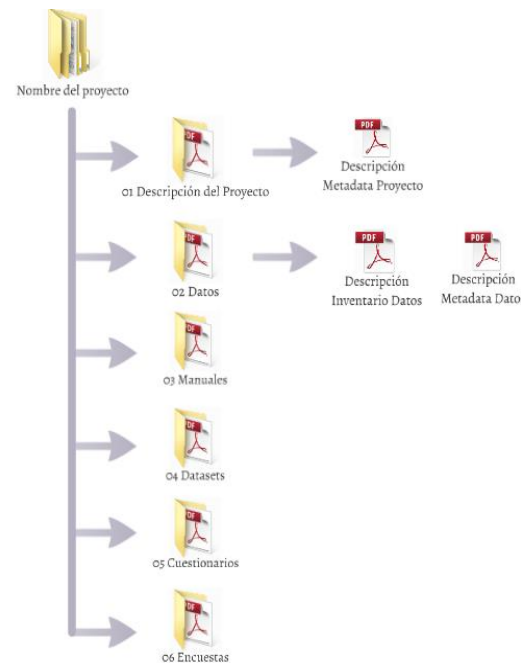
What's the Story?

How do we make sense?

Strategic tip: Plan ahead, agreed with the team for a logical archiving system and **STICK TO IT!!!**

Story – Context:

Data Metadata
Project Metadata



Lessons Learnt

5. CIAT's projects outcomes will be open access and part of CIAT's "institutional memory"
6. Data and information should be archived and organized by projects

<https://soilssite.ciat.cgiar.org/default.aspx>

DATAVERSE has an storage and archiving potential beyond data publication = facilitates Project METADATA for OA and IM **Note: this is the practitioner's personal impression**

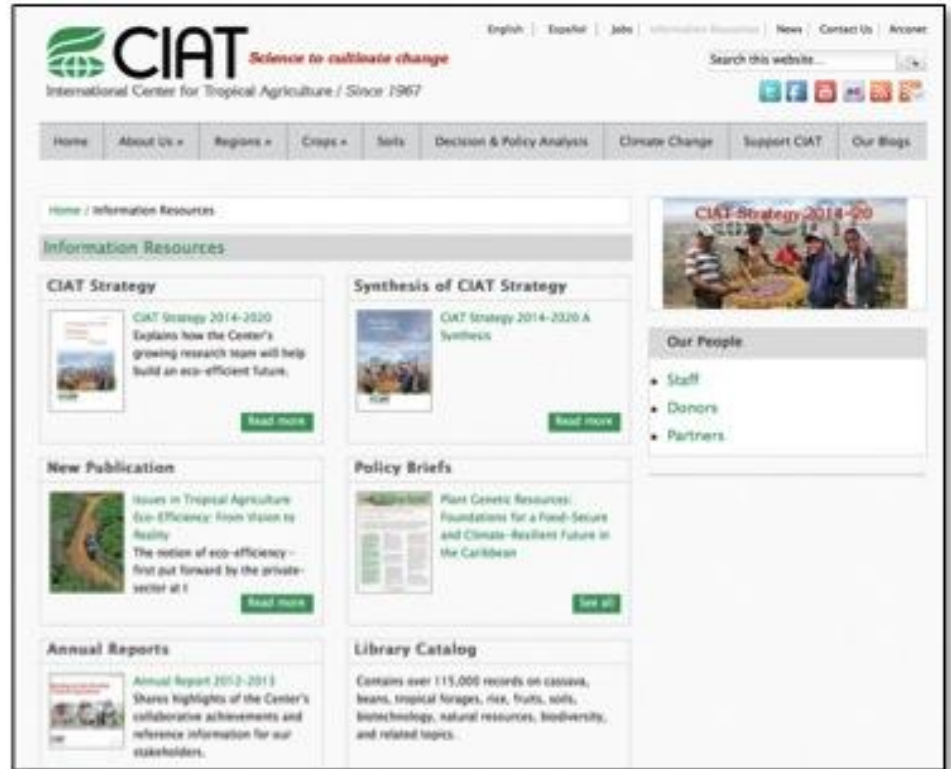
<http://thedata.harvard.edu/dvn/dv/CIAT>



Information Management Perspective

Carlos Saa, Megan Zandstra

CIAT Library



Digitization!

CIAT's Document Repository



International Center for Tropical Agriculture / Since 1967

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Title: Profitable and Sustainable Nutrient Management Systems for East and Southern African Smallholder Farming Systems - Challenges and Opportunities

Authors: [Rolf, Sommer](#)
[Deborah, Bossio](#)
[Lulseged, Desta](#)
[J. Dimes](#)
[Job, Kihara](#)
[Saidou, Koala](#)
[Nelson, Mango](#)
[Daniel, Rodriguez](#)
[Christian, Thierfelder](#)
[Leigh, Winowiecki](#)

Keywords: Nutrient Management
Africa
Farming Systems
Food Security
Fertilizer
Agroecosystems
Soils

Issue Date: 2013

Publisher: International Center for Tropical Agriculture (CIAT), University of Queensland, International Maize and Wheat Improvement Center (CIMMYT)

URI: <http://ciat-library.ciat.cgiar.org:8080/jspui/handle/123456789/8557>

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profitable_and_sustainable_nutrient_management_systems.pdf	2.31 MB	Adobe PDF	View/Open

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CGSpace

The screenshot shows the CGSpace website homepage. At the top left is the CGIAR logo. The main header features the text "CGSpace Repository of agricultural research outputs" in a green banner. Below the header is a navigation bar with "CGSpace Home". The main content area is divided into three columns. The left column has a "Welcome" section with a paragraph about the repository and a "Communities in CGSpace" section with a list of 20 communities and their collection counts. The middle column has a "Search CGSpace" section with a search box and a "Go" button, and a "Browse" section with a list of 13 browsing options. The right column has a "My Account" section with "Login" and "Register" links.

CGSpace
Repository of agricultural research outputs

[CGSpace Home](#)

Welcome

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

CGSpace is a collaboration of several centers and research programs. It is hosted by the International Livestock Research Institute.

Communities in CGSpace

Select a community to browse its collections.

- Africa RISING [175]
- AgriFood Chain Toolkit [83]
- Animal Genetic Resources Virtual Library [326]
- CGIAR (Consortium, Fund, Archive) [0]
- CGIAR Challenge Program on Water and Food (CPWF) [2056]
- CGIAR Collective Action in Eastern and Southern Africa [47]
- CGIAR Research Program on Agriculture for Nutrition and Health - Agriculture-associated diseases component [0]
- CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) [640]
- CGIAR Research Program on Livestock and Fish [316]
- CGIAR Research Program on Water, Land and Ecosystems (WLE) [271]
- CGIAR System-wide Livestock Programme [303]
- CIMMYT [0]
- Center for International Forestry Research (CIFOR) [3480]
- East Africa Dairy Development Project [86]
- ICRAF-ILRI Research Methods Group [38]
- ICRISAT [0]
- IGAD Livestock Policy Initiative [42]
- International Livestock Research Institute (ILRI) [11981]
- International Water Management Institute (IWMI) [2390]
- Livestock and Irrigation Value Chains for Ethiopian Smallholders (LIVES) [33]
- Technical Consortium for Building Resilience to Drought in the Horn of Africa [5]

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- By Country
- By Sub Region
- By CRP Subject
- By River Basin
- By Output Type
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and be ready for further Repository
developments...