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**REPORT ON TRAINING WORKSHOP ON
DEVELOPING AND MANAGING INSTITUTIONAL
RESPOSITORIES USING AGRIDRUPAL AND
AGRIOCEAN DSPACE TOOLS HELD IN CSIR-
INSTI, ACCRA FROM 1ST- 4TH JULY, 2013**

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ACKNOWLEDGEMENT

We wish to express our sincere gratitude to the FAO Regional Office for Africa and CSIR Institute for Scientific and Technological Information for the opportunity to participant in this training workshop on developing and managing institutional repositories using Agridrupal and AgriOean DSpace tools. Finally we are also grateful to the Director of CSIR-Food Institute for nominating us to attend this workshop.

EXECUTIVE SUMMARY

The report is on the training workshop on developing and managing institutional repositories using Agridrupal and AgriOcean DSpace Tools that was organized by the FAO Regional Office for Africa, in collaboration with the CSIR Institute for Scientific and Technological Information from 1st – 4th July 2013, at the CSIR-INSTI, Accra, Ghana. The workshop was to equip member institutions of Ghana Agricultural Information Network Systems (GAINS) with the skills to enable them to use Agridrupal and AgriOcean DSpace in the management of their digital institutional repositories of research outputs. Overall, over Twenty (20) participants attended the training workshop.

Institutional repositories are rapidly making their way into the scientific communications pipe line and have become very essential mode of accessing and sharing the information. Research Institutions who generate a lot of knowledge and research outputs can build Institutional repositories that would be made publicly available to a wider audience.

1.0 INTRODUCTION

Institutional repositories are rapidly making their way into the scientific communications pipe line and have become very essential mode of accessing and sharing the information. As centres for intellectual and scholarly research, research institutions (whether in developed or developing countries) are expected to take an interest in the creation, dissemination as well as preservation of knowledge.

The Food and Agriculture Organization (FAO), through the Coherence in Information for Agricultural Research for Development (CIARD) – a partnership-based initiative, offered supporting efforts by the NARS in Africa, especially in Ghana, Kenya and Zambia, to disseminate agricultural research data more efficiently to the NARS and make it publicly available and accessible to all. The support provided to the NARS include, among others, capacity development to facilitate the adoption of standards, guidelines and tools for digital information management for exchange.

The FAO Regional Office for Africa, in collaboration with the CSIR Institute for Scientific and Technological Information planned and organized the training workshop on tools for developing and managing full-text digital institutional repositories and exchange of metadata from 1st to 4th July, 2013 at CSIR-INSTI, Accra, Ghana for all partners of the Ghana Information Network System (GAINS).

The main objective for the training workshop was to equip all participants from the Ghana Agricultural Information Network Systems (GAINS) member institutions with skills to enable them to use AgriDrupal and AgriOcean DSpace in the Management of their digital institutional repositories of research outputs.

The FAO Regional Office for Africa and CSIR Institute for Scientific and Technological Information expects all participants would be able to install, configure and manage AgriDrupal and AgriOcean DSpace-based digital repositories.

Again, the FAO Regional Office for Africa and CSIR Institute for Scientific and Technological Information outlined some performance indicators for all member institutions of the Ghana Information Network System (GAINS) as follows:-

- Participants migrate their institutions` WebAGRIS-based digital repositories to AgriDrupal or AgriOcean DSpace tools by 31st July 2013.
- Participants ensure that content (metadata and associated full-text) from participating institutions is accessed on the GAINS AgriDrupal portal by 31st October 2013.
- Incomplete metadata records on the GAINS AgriDrupal portal are updated by CSIR-INSTI staff by 30th November 2013.
- GAINS AgriDrupal portal is efficiently managed by CSIR-INSTI staff and the content is updated on regular basis.

DAY 1: MONDAY, 1st JULY 2013

2.0 OPENING AND WELCOME ADDRESS

The programme started at 8:30 am with a welcome address by Dr. Joel Sam, the Director of CSIR-INSTI, who admonish all the participants to the workshop about the need to take a serious view of the training programme and its relevance to member institutions of Ghana Agricultural Information Network Systems (GAINS), since the workshop was geared towards the setting up of a functional institutional repositories to ensure the dissemination of research outputs to a wider audience.

This was followed by a brief introduction of the resource person, Mr. Richard Kedemi, from the Kenya Agricultural Information Network (KAINet) by Dr. Justin Chisenga, the Knowledge and Information Officer from the FAO Regional Office for Africa. After the introduction of the facilitator, all the participants at the workshop were asked to introduce themselves and also indicate their designation and their institutions.

3.0 INTRODUCTION TO AGRIDRUPAL PRESENTATION

AgriDrupal is a “suite of solutions” for agricultural information management and dissemination, with special functionalities for repository management, built on the Drupal Content Management System. These solutions are provided, discussed and tested by different Institutions and individuals who are sharing their experiences in the AgriDrupal community. Besides being available as modular solutions for Drupal, AgriDrupal can also be delivered as a full-fledged information management and dissemination tool putting together the best solutions implemented by the members of the community.

AgriDrupal, which is based on Drupal, the platform was developed by the UN Food and Agricultural Organization. It is open source, can be modified, is easy to use, and is free-of-charge. In addition, AgriDrupal incorporates both the FAO Agris subject categories and AgroVoc more detailed thesaurus. This removes much of the guesswork in indexing and makes it easier to identify relevant resources, from both within any Institutional Repository and when searching, using tools such as Google, Google Scholar, and CABI.

The AgriDrupal community is made up of people who work in the community of agricultural information management specialists and have been experimenting with IM solutions with the Drupal CMS. The community interacts using the AIMS community platform: <http://aims.fao.org/community/home>.

4.0 INSTALLATION AND CONFIGURATION OF AGRIDRUPAL

All the participants were taken through a step by step instructions on how to perform an installation and configuration of Agridrupal. The procedure commenced with the installation and configuration of WAMP and XAMP Software, this activity culminated in the final setting up of Agridrupal interface.

4.1 CUSTOMIZATION OF THE AGRIDRUPAL WEBSITE

After successfully installation and configuration of Agridrupal, participants were also taken through a step by step instructions on how to perform the customization of the Agridrupal Website. This processes included the technical background to Agridrupal, adapting the basic configuration of Agridrupal, how to log in for administrative tasks and finally, changing and customization of Agridrupal as an Institutional Website.

DAY 2: TUESDAY, 2ND JULY 2013

5.0 INPUTTING METADATA AND FULL TEXT

Participants of the training workshop were also taken through a step by step instructions and practical work on how to undertake an inputting of metadata and linking of full text documents in Agridrupal. The processes started with the editing of existing collection, this followed by the creation of metadata in agridrupal, then finally the process ends with a step by step submission to Agridrupal.

5.1 CONFIGURATION OF AGRIDRUPAL

The workshop participants were taken through a step by step instructions and practical work on how to perform a configuration of Agridrupal. The procedure was mainly on creating a content in Agridrupal. This content model allows one to manage contents that are commonly of interest to agricultural institutions (Institutions, researchers, projects, projects outputs / publications, news and events).

5.2 CONTENT UPLOADING ONTO THE WEBSITE

The participants at the training workshop were also undertook a step by step instructions and practical work on how to perform a content uploading onto the Agridrupal Website that has been created. The procedures was mainly on changing standard news on the homepage and also the migration of WebAGRIS records to Agridrupal Website.

DAY 3: WEDNESDAY, 3RD JULY 2013

6.0 INTRODUCTION TO AGRIOCEAN DSPACE

The workshop also introduced participants to AgriOcean Dspace, a customized version of Dspace developed by the Food and Agricultural Organization (FAO) of the United Nations. AgriOcean Dspace (AOD) is a joint initiative of the United Nations agencies of FAO and UNESCO-IOC/IODE to provide a customized version of Dspace 1.7.1 (JSPUI version), an open source digital repository software. Features of AgriOcean Dspace includes high standards for metadata (AGRIS AP, MODS) and OAI-PMH compliant; controlled vocabularies (ASFAs, AGROVOC); Authority control for journals (ASFAs and AGRIS list); Type-based submission; Up-to-date layout: personalizable standard, Batch import module for AGRIS AP, Endnote and Web of Science RIS files.

6.1 INSTALLATION AND CONFIGURATION OF AGRIOCEAN DSPACE

Participants at the workshop were taken through a step by step process of installation and Configuration of AgriOcean DSpace. This activity was mainly on the technical background to AgriOcean DSpace and installation of supporting software, how to log in for administrative tasks, common errors during installation, adapting the basic configuration of AgriOcean DSpace.cfg and technical background to AgriOcean DSpace. Prerequisite software needed to run AgriOcean DSpace (1.7.1 version) includes: UNIX-like Operating System (Linux, Ubuntu Server, etc.); Oracle Java 6 or greater; PostgreSQL 8.4 or later, an open source relational database; and Apache Tomcat 5.5 or later, and also, an Acrobat PDF maker to convert MS documents to Adobe PDF.

DAY 4: THURSDAY, 4TH JULY 2013

7.0 INPUTTING METADATA AND FULL TEXT

During the workshop, all participants were taken through a step by step process of inputting metadata and linking of full text documents. The main activities that was undertaken were the editing of existing collections, creating a collection page in DSpace, creating a community page in DSpace, step by step submission process, migrating WebAGRIS records to AgriOcean DSpace and batch import in AgriOcean DSpace.

7.1 INSTALLATION AND CONFIGURATION OF AGRIOCEAN DSPACE

Participants at the workshop were also shown a step by step process of installation and configuration of AgriOcean DSpace. On the whole, the main activities were adapting of the basic configuration of AgriOcean DSpace by changing DSpace.cfg, how to log in for administrative

tasks, technical background to AgriOcean DSpace and common errors during installation of AgriOcean DSpace.

7.2 INSTALLATION AND CONFIGURATION

The final activity that participants at the training workshop engage themselves with was the installation and configuration. The main activity that was undertaken was on changing standard news on the homepage of an Institutional Website that has been created using AgriOcean DSpace software.

CONCLUSION

In general the training workshop was very successful and very beneficial to us, since the lessons learnt would equip us with adequate knowledge and necessary skills that can be utilized in the development and implementation of an Institutional repository for CSIR-Food Research Institute.