



CODATA AGRICULTURE TASK GROUP (ATG)

Agriculture Data, Knowledge for Learning and Innovation Group

CODATA Agricultural Task Group

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High Tech Laboratory Services

Goal
To coordinate efforts at every level to collect, analyze, and publish the agricultural research data needed for the Sustainable Development Goals (SDGs) in East Africa countries (EAC)

Objectives

- Provide information for reviews, discussions and policy on improving the quality, reliability, management and accessibility of agricultural research data in EAC.
- Strengthen collection, management, and availability of agricultural research data in EAC.
- Extract knowledge from agricultural data into various forms to empower different stakeholders (scientific, technical and practice communities) in support of improving decisions capabilities.
- Formulate proposals for improving the usability of existing agricultural research data, data and knowledge management strategies and develop a policy framework to direct management of agricultural research data in EAC.
- Bring together stakeholders in agriculture to develop and implement strategies for knowledge sharing to improve the visibility and accessibility to agricultural data and science in EAC.

Linkages

- CODATA
- KALNet
- KALRO

[more...]

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1st and 2nd November 2017

1st ATG Writeshop

KALRO HEADQUATER COMPLEX

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Participants List -Present during the writeshop

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DAY ONE-1st NOVEMBER 2017

Introduction

Invited members were 16 of these 12 managed to attend. The secretary received 2 apologies (KEFRI, FAO). Emails to KENET and AIRC have been bouncing the technical team plan to resolve the issue as soon as possible.



Group Photo ATG members-1st November 2016

Welcome remarks by Dr. Felister Makini, Deputy Director Crops, KALRO

- Dr. Makini welcomed members to KALRO and commended the efforts of the task group.
- In her opening remarks she appreciated the linkages, innovations and developments that the CODATA ATG had achieved.
- She also noted that most scientist are unaware of open data benefits and the value of opening data; She noted that there is need for sensitization for scientists on open data so that they can understand the concept. This **requires funds** to capacity build on open data concepts and idea.
- She also noted that the issue on IP should be made clearer, the task group should create more awareness around IPR for participating institutions.

Objectives for the writeshop

1. Review recommendations made during the Open Data Science in Agriculture forum held in 2015, Nairobi Kenya.
2. Further Development of KAINet Platform (Impact & Usability).
3. Generate relevant content and upload on the KAINet Platform.

4. Integrate KAINet and other open data portals.
5. Finalize CODATA ATG Website.
6. Review draft MOU and finalize MOU for participating organizations.
7. Set deadlines for signing the MOU.
8. Design strategies and policies on data collection and uploading in participating institutions.

Review recommendations made during the Open Data Science in Agriculture forum held in 2015, Nairobi Kenya.

Recommendations	Planned actions & set deadlines	Responsible & team leaders
There are huge value and benefits to advance agriculture through open data and open science, how do we reach the institutions	Develop a framework for Institutions farmers (Stakeholder Map) to include research organizations, universities, ministries, Policy makers, civil societies, donors, farmers. The framework should include the benefits to each stakeholder. 15 th November 2017	Dr. Kenneth Mubea- Team Leader Mr. Boniface Akuku, Mr. Henry Mibei
	Develop M&E indicators for KAINet Platform 15 th November 2017	Dr. Kenneth Mubea- Team Leader Mr. Boniface Akuku, Mr. Henry Mibei
Advocate for enabling policy framework for open data & science at both national and institutional level	Develop ICT policy, include IP issues, consult and link up with MoALF, KODI, African forum for advisory services 20 th November 2017	Dr. Rahab Muinga- Team Leader Ms. Irene Kimani Dr. John Kinyuru Mr. Boniface Akuku
Encourage institutions to put in place strategies to digitize content	Learn from the ranking of institutions that have online Repositories. It's important for institutions participating in the CODATA ATG to develop requirements and standards to to publish data more effectively and this could lead to better ranking in the future. 15 th November 2017	Mr. Henry Mibei – Team Leader Mr. Richard Kedemi Mr. Henry Wanyama Mr. Simon Mulwa
	Make payment to google for KAINet visibility. Explore free options that are also available and can be tested	Mr. Richard Kedemi- Team Leader Mr. Henry Wanyama

	for the KAINet platform 15 th November 2017	Mr. Simon Mulwa
	Link KAINet to other Open data portals start with CODATA ATG Members; RCMRD, CABI, JKUAT, ICEOD, ASAL-APRP 20 th November 2017	Mr. Richard Kedemi-Team Leader Mr. Henry Wanyama Mr. Simon Mulwa
	CABI will share standards and policies around open data and knowledge management CABI through Mr. Henry Mibei will give a link to Plantwise Clinic and other relevant repositories. 20 th November 2017	Mr. Henry Mibei-Team Leader Ms. Irene Kimani
Lobby decision makers for increased investment to support open data & science initiatives	Develop MOU for KAINet Participating Institutions. 20 th November 2017	Mr. Henry Mibei-Team Leader Mr. Boniface Akuku Dr. Kenneth Mubea Ms. Irene Kimani
	Members from the various institutions should lease with the legal departments and report back for final signing of MOU. 25 th November 2017	Mr. Boniface Akuku-Team Leader Dr. Kenneth Mubea Ms. Irene Kimani Mr. Henry Mibei
Sensitize stakeholders on creative commons licensing approaches to achieve open data & science agenda	Sensitize stakeholders on creative Commons licensing approaches Develop a document and publish on the KAINet Platform. The team will also look into the DOI publishing numbers and issuing procedures. Year 2	Dr. Rahab Muinga- Team Leader Ms. Irene Kimani Mr. Henry Mibei Mr. Boniface Akuku
	Share the 1st draft on google drive All members should provide a g-mail address to the secretary 30 th November 2017	Irene Kimani
Expand KAINet membership beyond the (4) organizations	Tap in the strengths of RCMRD with a network of 20 countries and	Mr. Boniface Akuku-Team Leader

	<p>dealing with spatial data. Dr. Kenneth Mubea to take a lead. He will also share open data training content by NASA. Create awareness about DATA cubes.</p> <p>20th November 2017</p> <p>Bring on board more members; Invite Immediately: CANIS, Green Climate Fund (GCF) Write to Niek from Trimpact Rwanda, KODI, CCK, CTA, ICRAF, Rongo University, Egerton University, Karatina University, Kenyatta University, Maseno, Pwani University, LDRI, African Open Data Platform, CODATA PASTDTG</p> <p>Email list and new names to the Secretary for confirmations Kenya, EA, Africa and Beyond</p> <p>Ongoing</p>	<p>Mr. Henry Mibei Dr. Kenneth Mubea Ms. Irene Kimani</p>
	<p>All the new members will be invited during the 2nd writeshop</p> <p>5th and 6th December 2017</p>	<p>Ms. Irene Kimani</p>
<p>Focus on open data & science initiatives to impact farmer livelihoods</p>	<p>KAINet to include a farmer user friendly module and look, develop more mobile apps and promote the existing ones through the platform.</p> <p>Currently the content on KAINet addresses the needs of extension, Private sector, NGOs and CBOs.</p> <p>15th November 2017</p>	<p>Mr. Richard Kedemi-Team Leader Mr. Henry Wanyama Mr. Simon Mulwa</p>
	<p>Contact Chipso Msengezi from CTA to Share on how to develop an effective farmer side for KAINet.</p>	<p>Mr. Boniface Akuku-Team Leader Ms. Irene Kimani</p>

	15 th November 2017	
	Hold ATG Hackathon (11 th November 2017) <u>Land potential mobile App.</u> Data cubes will be provided by RCMRD Dr. Mubea	Mr. Boniface Akuku -Team Leader Dr. John Kinyuru Ms. Irene Kimani
	11 th November 2017	
Capacity build/train scientists, policies makers on data science	Sensitization, Write proposals Collaborate On going	Mr. Boniface Akuku -Team Leader Mr. Henry Mibei Dr. Kenneth Mubea Dr. John Kinyuru Ms. Irene Kimani Dr. Felister Makini Dr. Rahab Muinga

Ranking of institutions that have online repositories

Kenya							
ranking	<u>World Rank</u>	<u>Instituto</u>	<u>Size</u>	<u>Visibility</u>	<u>Files Rich</u>	<u>scholar</u>	
1	245	University of Nairobi Digital Repository	8	556	472	148	
2	1013	Mount Kenya University Erepository	549	1083	1878	1078	
3	1215	USIU Africa Digital Repository	566	1448	1710	1125	
4	1276	Jomo Kenyatta University of Agriculture and Technology Digital Repository	585	1455	1791	1293	
5	1599	South East Kenya University Digital Repository	627	1919	1894	1434	
6	1736	Technical University of Kenya Institutional Repository	763	1801	1810	1832	
7	1741	Kenyatta University Institutional Repository	85	907	814	2066	
8	2167	Masinde Muliro University of Science and Technology Repository	1457	2207	2122	1978	

CODATA ATG website requirements

Home	Information Centre	Partners	Media	Contacts
About CODATA ATG Link with KAINet Platform Role of KALRO Goal	ATG Documents eg reports, minutes	KALRO KEFRI, AIRC, JKUAT, KENET, CABI, FAO, RCMRD, World Bank, Sponsor CODATA	Photo gallery Videos Facebook (CODATA ATG) Twitter Blogs (link to relevant blogs including CODATA Blog)	Emails: Official email, office and Phone by KALRO Location: KALRO HQs
Objectives	Training Manuals and Resources Webinars			Right Sidebar News and Events Embed Twitter Copyright statement at the bottom
News and Events	Fact sheets			
Strategies and policies	Open Data Power Point Presentations			

To complete the website and have a prelaunch the following activities were suggested.

- Mr. Henry Wanyama to complete the structure, feel and look.
- Mr. Simon Mulwa to promote the website through social media activities.
- Mr. Boniface to complete content on the home page
- Dr. Kenneth Mubea will work on the objectives while,
- Ms. Irene Kimani will upload ATG documents.

The main objective of the CODATA ATG website is to promote CODATA ATG activities and implementation through open data paradigms and data journalism. The CODATA ATG will conduct, develop and promote open data and open science policies, reward systems, capacity building, IPR issues and engage young scientists through its website.

DAY TWO-2ND NOVEMBER 2017

The proposed website structure was presented to members



Developed ATG website

KAINet Open Data Platform.

The development of KAINet open data platform to include open data concerns and link with other open data platforms will go a long way to improve access to agricultural research data with a view of coping with data management challenges faced by participating institutions. KAINet open data platform will advance collaboration and innovation around data technologies and data ecosystem. The platform will provide an environment that always data to be freely accessible to all participating organizations and beyond. The initiative will establish common set of tools and technologies that make data freely accessible.

The KAINet open data platform will stand on its own with a clear interface. Participants at the writeshop proposed that the interface be bench marked against the following open data portals; (1) FAO (2) World Bank (3) JKUAT (3) CABI. More assistance and guidance will be sort from these organizations. KAINet was noted to be always down and uptime must be guaranteed moving forward. The institutions involved in KAINet open data platform should sign the MOU and design strategies and policies on data collection and uploading in participating institutions. Agricultural Research Scientist should be trained on open data to enable them provide content.

Review draft MOU and finalize for participating organizations.

The MOU developed will outline a plan for participating organizations to contribute agricultural research data on the KAINet platform for sustainable development. Through the MOU quality, reliability and accessible agricultural research data will be enabled. (See attached MOU for finalization by the person responsible).

CODATA ATG Planned Webinar

The team will host a one hour webinar for all its members.

Proposed Dates: 5th December 2017 at 4:00 pm to 5:00 pm East African Time.

Speaker	Institution	Topic
Martin Parr	CABI	MODERATOR
Boniface Akuku	KALRO	About ATG and the KAINet open data platform for participating institutions
		Activities to promote open data in agricultural research in Africa
Suchith Anand	GODAN	Partnerships in data sources
All		Comments from Members

WAY FORWARD AND CLOSING

1. ATG members to participate in Open data conference in Bostwana
2. Propose sustainability options since CODATA ATG has funds for only 2 years
3. Next writeshop and signing of KAINet MOU will be on 5th December 2017
4. 11th November 2017 CODATA ATG Hackathon
5. Share KAINet open data platform and CODATA ATG website widely
6. Collect available data sets and publish on KAINet platform
7. Identify champions in open data in participating organizations
8. ATG members should become resource persons in their own organizations or departments for open data

Annex 1: CODATA ATG Participants and Member List Nov, 2017

No.	Name	Organization	Mobile	Email
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Annex II: Program

CODATA AGRICULTURE TASK GROUP (ATG) Agriculture Data, Knowledge for Learning and Innovation Group KALRO HEADQUARTERS, 1st and 2nd November 2017		
TIME	ACTIVITY	RESPONSIBLE
DAY 1: Wednesday 1st November 2017		
Chairman	Dr. John Kinyuru, JKUAT, Vice Chairman CODATA ATG	
08:30-09:00	Registration	Ms. Elizabeth Simwa
09:00-09:30	Introduction of participants and welcome remarks	Dr. Felister Makini Deputy Director Crops
08:30 – 09: 00	Objectives of the meeting	Mr. Boniface Akuku, IT Manager-KALRO CHAIRMAN CODATA ATG
09: 00 – 09:30	Leverage on the recommendations from the Forum on Open Data and Open Science in Agriculture (2015)	Mr. Boniface Akuku IT Manager-KALRO
09:30-10:00	Group Discussion, Open Data and Open Science in Agriculture	All
10.00 – 10:30	Tea Break	All
10:30 – 11:00	Presentations Group Discussions, Open Data and Open Science in Agriculture	Group Leaders
11:00 – 11:30	CODATA ATG – KAINet Platform Presentation	Mr. Richard Kidemi, KALRO - ICT
11:30 – 12:00	Group Discussion to address KAINet Gaps	All
12:00- 12:30	Presentations Group Discussion to address KAINet Gaps	Group leaders

CODATA AGRICULTURE TASK GROUP (ATG) Agriculture Data, Knowledge for Learning and Innovation Group KALRO HEADQUARTERS, 1st and 2nd November 2017		
TIME	ACTIVITY	RESPONSIBLE
12:30-13:00	CODATA ATG website presentation	Mr. Henry Wanyama, KALRO-ICT
13:00 – 14:00	Lunch Break	All
14:00-14:30	Group Discussion to fine tune CODATA website and provide/edit content	All
14:30-15:00	Presentations Group Discussion to fine tune CODATA website and provide/edit content	Group Leaders
15:00-15:30	Content for KAINet Platform	Mr. Boniface Akuku
15:30-16:00	Group Discussion content development	All
16:00 – 16:30	Tea Break	All
16:30 – 17:30	Presentations Group Discussion to present content developed	Group Leaders

Mobile App Review and Development of KHub Collaboration & Learning Center Module KALRO NAIVASHA, 29TH TO 31ST October 2017		
TIME	ACTIVITY	RESPONSIBLE
DAY 2: Thursday 2nd November 2017		
Chairman	Dr. Rahab Muinga, KALRO	
08:30-09:00	Registration	Elizabeth Simwa
09:00-09:30	Recap for Day1	Dr. John Kinyuru
09:30-10:00	Integration with other portals	Mr. Boniface Akuku

Mobile App Review and Development of KHub Collaboration & Learning Center Module

KALRO NAIVASHA, 29TH TO 31ST October 2017

TIME	ACTIVITY	RESPONSIBLE
10-00:10:30	Plan for Webinar	Mr. Simon Mulwa
10.30 – 11:00	Tea Break	All
11: 00 – 11:30	MA for participating organizations	Ms Irene Kimani KALRO, CODATA ATG Secretary
11:30-12:30	Groups work on MA for participating organizations	All
12:30-13:00	Groups present content developed	Group Leaders
13:00 – 14:00	Lunch Break	All
14:00-14:30	Present Developed KAINet Platform	Mr. Richard Kidemi
14:30-15:00	Present Developed CODATA website	Mr. Henry Wanyama
15:00-15:30	Strategies on data collection analysis and policies	Mr. Boniface Akuku
15:30-4:00	Train scientist on open data (to provide content) Planned Hackathon, JKUAT	Dr. John Kinyuru
16:00 – 16:30	Tea Break	All
16:30 – 17:30	Way Forward and closing	Dr. Felister Makini