



# Africa Agriculture GIS Week 2010

8 – 12 June ILRI Campus, Nairobi

## Africa Agriculture GIS Week 2010

Navigating the change:

*Taking a closer look at the role of spatial information and analysis in supporting improved agricultural research and development*

~ AGENDA Overview~

Detailed agendas per day available on subsequent pages

Day:	Tuesday 8 <sup>th</sup> June	Wednesday 9 <sup>th</sup> June	Thursday 10 <sup>th</sup> June	Friday 11 <sup>th</sup> June	Saturday 12 <sup>th</sup> June
<b>Theme:</b>	Business as UNusual!	Understanding our own location	Charting unknown waters!	Training day	WhereCamp/BarCamp Africa
<b>Schedule:</b>	Start at 1:30 p.m End at 5:00 p.m	Start at 9:00 a.m End at 5:30 p.m Cocktail reception	Start at 9:00 a.m End at 5:30p.m	Start at 9:00 am End at 5:00 pm	Start at 8:30 End at 19:00
<b>Summary of activities:</b>	<ul style="list-style-type: none"> <li>- AGCommons Workshop</li> <li>- Presentations</li> <li>- Launch of platform</li> </ul>	<ul style="list-style-type: none"> <li>- Opening speeches</li> <li>- Presentations</li> <li>- Question and Answers and Discussion</li> <li>- Synthesis exercise</li> </ul>	<ul style="list-style-type: none"> <li>- Keynote speeches</li> <li>- Cluster working groups for presentations and discussions</li> <li>- Workshopping</li> </ul>	- Training sessions	- open discussion on location intelligence related themes. Sessions to be defined by participants.
<b>Participants</b>	All participants	CSI reps presenting; other participants	Presentation by proposal submitters; other participants	All participants, but need to register for specific training sessions	All registered participants for WhereCamp/BarCamp sessions



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~Draft AGENDA~

## Tuesday 8 June—Business as UNusual Day!

### Afternoon Session- AGCommons Workshop

- |            |   |
|------------|---|
| 1:30- 2:00 | Introduction to AgCommons <ul style="list-style-type: none"><li>• E. Porcari (CGIAR CIO and AGCommons Program Leader)</li><li>• L. MacOpiyo (Director, AGCommons)</li></ul>   |
| 2:00-3:30  | - A look at the Quick-win projects: <ul style="list-style-type: none"><li>• Africa Trial Sites – Kai Sonders (CIMMYT)</li><li>• Seeing is Believing West Africa (SIBWA) - Pierre Sibiry Traore (ICRISAT)</li><li>• Crop Disease Surveillance – Hein Bouwmeester (IITA)</li><li>• Nodes of Growth – Andrew Farrow (CIAT Africa)</li><li>• Ethiopia Roads - Catherine Kunyiha (RCMRD)</li></ul> |
| 3:30-4:00  | REFRESHMENT BREAK   |
| 4:00-4:30  | Presentations from partners <ul style="list-style-type: none"><li>• (Title TBC) – Mandhi Sehmi - KenCall</li></ul>  |
| 4:30-5:00- | Launch of the AgCommons platform <ul style="list-style-type: none"><li>• L. MacOpiyo</li></ul>  |



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## Wednesday 9 June- Understanding our own location!

9:00- 10:00	Official opening the AAGW week: <ul style="list-style-type: none"><li>• Welcoming to AAGW- Stanley Wood (IFPRI/ CSI Coordinator)</li><li>• Welcome to ILRI- TBC</li><li>• Welcome Speech by Hon. Dr. Sally Kosgei, Minister of Agriculture Republic of Kenya(TBC)</li></ul>
10:00-10:30	Who's in the room?
10:30-11:00	REFRESHMENT BREAK
11:00-12:30	4 presentations (approx. 15 minutes each) plus brief Q&A <ol style="list-style-type: none"><li>1. IFPRI- Stanley Wood</li><li>2. ILRI- An Notenbaert</li><li>3. IRRI- Andrew Nelson</li><li>4. ICRISAT- Pierre Sibiry Traore</li></ol>
12:30-2:00	LUNCH
2:00- 3:30	4 presentations (approx. 15 minutes each) plus brief Q&A <ol style="list-style-type: none"><li>5. IWMI- Salman Siddiqui</li><li>6. CIAT- Andrew Farrow</li><li>7. WorldFish- Silvia Renn</li><li>8. ICRAF- Meshak Nyabenge</li></ol>
3:30- 4:00	REFRESHMENT BREAK
4:00- 5:00	4 presentations (approx. 15 minutes each) plus brief Q&A <ol style="list-style-type: none"><li>9. IITA- Marcus Subash</li><li>10. Bioersity International- Maarten van Zonneveld</li><li>11. CIMMYT- Kai Sonder</li><li>12. CIP- Lieven Claessens</li></ol>
5:00-5:30	Synthesis exercise—what do we offer as a CSI community?
5:30 – 6:30	AAGW COCKTAIL RECEPTION @ ILRI RECREATION CLUB



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## Thursday 10 June –Charting unknown waters!

9:00-9:30	Setting the scene keynote speech (TBC) <ul style="list-style-type: none"><li>• What is happening with the new CGIAR? (Carlos Seré Director General ILRI-TBC)</li><li>• What are the priorities in the wider ARD? (AGRA TBC)</li></ul>
9:30-11:00	Presentations and discussions <sup>1</sup> in 5 topic working groups: <ul style="list-style-type: none"><li>• Cluster 1: Use of remote sensing and GIS for enhancing food security</li><li>• Cluster 2: Mapping for decision support</li><li>• Cluster 3: Understanding soils as a way of understanding other processes</li><li>• Cluster 4: Location-based intelligence to enhance farmer knowledge</li></ul>
11:00-11:30	REFRESHMENT BREAK
11:30-1:00	Repeat- Presentations and discussions <sup>2</sup> in 5 topic working groups (choose different group) <ul style="list-style-type: none"><li>• Cluster 1: Use of remote sensing and GIS for enhancing food security</li><li>• Cluster 2: Mapping for decision support</li><li>• Cluster 3: Understanding soils as a way of understanding other processes</li><li>• Cluster 4: Location-based intelligence to enhance farmer knowledge</li></ul>
1:00-2:00	LUNCH
2:00- 3:00	Presentation of results from working groups
3:30- 4:00	REFRESHMENT BREAK
4:00- 5:00	Plenary Discussion and Wrap-up
5:00-5:30	Prize Giving Ceremony

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### <sup>1</sup> First session-

- Participants to choose a topic cluster to join (approximately 20-40 people per cluster, depending on total)
- (Up to 4) brief (10 min each) presentations given in each cluster
- At least 30 minutes of discussion to identify:
  - 5 key priority items within this topic
  - 3-5 key methods or tools that are being used or could be used in this topic area
  - 3 opportunities for using spatial information to advance this topic

### <sup>2</sup> Second session:

- Participants choose a different topic cluster to join
- Repeat- (Up to 4) brief (10 min each) presentations given in each cluster
- At least 30 minutes of discussion to review lists from previous group and discuss these. Can provide additional or alternative lists. Additionally, identify:
  - Major players/actors in this topic



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## Cluster 1:

### Use of remote sensing and GIS for enhancing food security

Chair: AGRA (TBC)

1. Enhancing food security in Eastern Africa: To identify "hot spots" in south eastern Africa where SIMLESA (Sustainable intensification of maize-legume based farming systems for food security in eastern and southern Africa) is likely to have the highest impact in terms of relieving food security and poverty issues (Andries Potgieter, QLD Primary Industries, Australia)
2. Application of RS and GIS in Fisheries management and development in Osun State, SW Nigeria (Marimba Fednance, Ramani Geosystems Ltd)
3. Combating poverty and improving household food security for small-scale farmers in Lake Victoria Basin through Agroforestry (John Owuor, SCC-VI Agroforestry Eastern Africa)

## Cluster 2:

### Mapping for decision support

Chair: Stanley Wood (IFPRI)

1. The contribution of fence mapping to the implementation of policies to keep the Kitengela plains open to migratory livestock and wildlife (Mohammed Said, ILRI)
2. Map Kibera (Mikel Maron, Open StreetMap)
3. Role of the regional centre for mapping of resources for development in the application of geospatial technology for sustainable development in Africa (RCMRD)
4. A GIS approach for the Development of an Irrigation Master Plan: A case study of Rwanda (M. Nyabenge, ICRAF)

## Cluster 3:

### Understanding the basics

Chair: Andy Farrow (CIAT)

1. Fast mapping of farm soil salinity and water availability (Larisa Golovko, RiceTec, Inc)
2. Soil erosion prediction using RUSLE (Revised universal soil erosion equation) Integrated with GIS (Kibet Stephen, Moi University)
3. ACCESS HAPA - Analysis of Climate Change in Environmental and Social Studies through Historical Aerial Photography Archives (Paolo Paron, Oxford University Fellow)

## Cluster 4:

### Location-based intelligence to enhance farmer knowledge

Chair: Sibiry Traore (ICRISAT)

1. Closing the final kilometer: agricultural information to the grower (John Corbett, aWhere Inc)
2. Benefits of integrated information systems for farmers and advisors (Moses Ruhura Basaza)
3. Establishment of soil management zones based on spatial variability of soil properties for precision agriculture using GIS in Katumi, Machakos district, Kenya (ESRI-EA)



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## Friday 11 June- Training day

9:00- 5:00

with refreshment breaks and lunch:

### ESRI

The workshop will cover the new features coming with ArcGIS Server 10, how to use your data to make maps and share them with others by publishing them on a server. ArcGIS offers several options for building web applications. Participants will learn how to quickly and easily use configurable web applications to leverage maps from ArcGIS.com as well as their own data. Participants will also learn about the different types of web applications that can be built with the different ArcGIS APIs. The workshop will also focus on the new web editing capabilities of ArcGIS Server 10. This functionality enables to create a variety of web applications for collaboration. The workshop will cover a complete step by step process: from authoring your maps effectively for web editing, enabling web editing capabilities in ArcGIS Server, and selecting the appropriate end client application to support different editing workflows.

*Featured technology:*

- ArcGIS Server
- ArcGIS Web Map for Flex
- ArcGIS Explorer Online
- ArcGIS.com
- ArcGIS APIs for JavaScript, Flex and Silverlight

### GOOGLE

This workshop is to learn how Google's geo tools relate to each other and can be used for scientific investigations, resource management, monitoring deforestation, and also as powerful communication tools.

*Featured products:*

- Google Earth,
- Google Maps,
- Google Map Maker,
- Fusion Tables, and
- Open Data Kit.

All of which to be presented in a context of applied agriculture in order to facilitate discussions in the spirit of the theme of the event.

### OpenStreetMap

The workshop will start with a general introduction to OpenStreetMap, introduce surveying with GPS and satellite imagery digitization, and use of the OpenStreetMap.org website. It'll cover editing and tagging with the editors, JOSM and Potlatch. We'll look at how OSM data can be used on the web, and in other GIS tools from ESRI, Google, and others. The day will close with a survey of advanced topics like API rendering, filtering, and imports.

### aWhere

The half-day session will provide an introductory look at Agricultural Information System - Weather Surfaces (AIS) and, aWhere desktop software – a lightweight GIS designed specifically for non-GIS specialist use. The AIS provides historical, forecasts and round-the-clock access to the most comprehensive, continuously updated and cleansed weather database available critical for agri-business.



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## Saturday 12 June – WhereCamp Day: the third gathering of WhereCamp Africa

8:30–9:00	Coffee & Attendees Arrive
9:15–9:45	Keynote Speaker
9:45–10:15	Snacks and Session Proposals
10:15–12:30	Sessions
12:30–1:30	LUNCH
1:30–5:00	Sessions
5:00–7:00	REFRESHMENTS (TBC)

**NB: Please note that WhereCampAfrica will be held at the [iHub](#) (Upper Hill Estate, George Padmore Lane Nairobi)**