

Reseaux de Recherche sur L'Aquaculture Durable en Afrique Sub-Saharienne

SARNISSA

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Sustainable Aquaculture Research Networks in Sub Saharan Africa

- SARNISSA OIE Meeting Swakopmund June 2010**
- Aquaculture Development in Africa ?
 - Large amounts invested through outside donors since 1960's
 - Many meetings like this one
 - Now June 2010
 - What's the outcome/the success stories/ what we have learnt ?
 - Aquaculture beginning to grow in Nigeria, Ghana, South Africa, Uganda, strong industry in Egypt.



On the road to..... African Aquaculture development

The FAO COFI (FAO Committee On Fisheries) sub-committee met in September 2006 in New Delhi to discuss the future potential for African aquaculture, where they highlighted:

“.... the five big constraints to aquaculture development..... being **Feed, Seed, Capital, Markets and Information**”

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- Feed**
- Seed**
- Capital**
- Markets**
- Information**



Creating SARNISSA as a Network – joining people together primarily addresses the last of these: Information is Knowledge, Power to act,

Information - the concept of a network of a wide range of individuals being involved in African aquaculture joined together – THIS IS SARNISSA

Not just researchers , but govt, NGO's, fish farmers, markets sector, students, commercial and service suppliers, potential funders, other water users, agriculturalists

Sharing information across English and French speakers

Making new contacts across borders and across languages

Relating research to end users

Research Networks - Challenge of Scale and Diversity in Africa.....Different system/scale different approach.....

Project Introduction

- Started 1st February 2008
- Ends 31st January 2011
- EC FP7 funded Project
- 3 years duration
- 9 partners: 4 African: 1 Malawi, 1 Cameroon, 1 Egypt, 1 Kenya; 1 Asian: Thailand; 4 European :2 UK, 1 French, 1 Netherlands,



Each partner brings its own experience



CIRAD



Specific Objectives

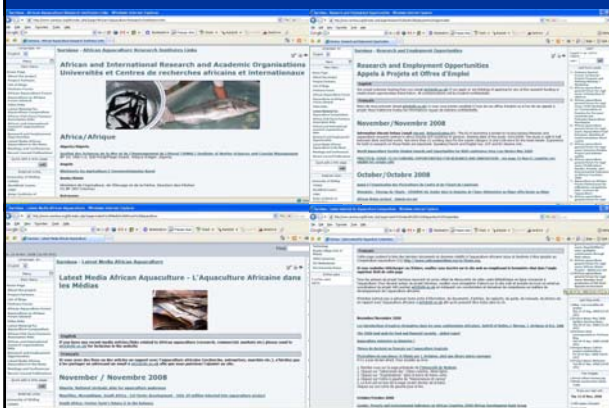
1. Sharing knowledge in aquaculture
 - between and among African stakeholders in general;
 - between anglophone and francophone regions in Africa;
 - between Africa and Asia (South-South collaboration);
 - between Europe and Africa (North-South collaboration)
2. Empower members from researchers to fish farmers to collaborate within and across sectors, languages and country boundaries to form **new alliances** focusing on sustainable aquaculture development for end users

26 months into Sarnissa we have:



- **Members List**
- 1,375 individuals (May 2010) involved in Aquaculture from across Africa and internationally, from research, commercial, markets, govt, NGO + other sectors.
- Joined together by:
 - **Two English & French Email Discussion Groups**
 - Many of these previously unknown to each other now communicating via English and French email discussion fora . Exciting cross over between English and Francophone stakeholders – eg Kenyan fish farmer talking over internet to researchers in Uganda and USA about (cause of) mortalities in Lake Naivasha

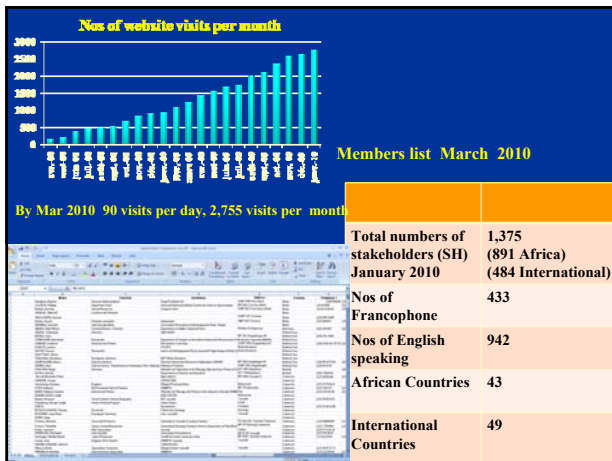
Project website: Bilingual Interactive Repository of Information



www.sarnissa.org Website - Relevant Links by country to:

- African Fish Farms, Producers Associations, Commercial suppliers
- African + International Research and Academic Institutions
- Latest Research, Funding and Employment opportunities
- Thousands of publications related to aquaculture
- African Aquaculture in the media – Latest news
- Video links
- Latest meetings workshops and conferences,
- Interactive African aquaculture discussion fora
- Currently by May 2010 90 hits per day 2,755 hits per month
- Members accessing the website range from, Researchers, Commercial - fish farmers & service suppliers, Policy and NGO sectors to Community based projects and District Level Fish Farmers. **If you can get to the internet you can join**





Members list March 2010

Total numbers of stakeholders (SH) January 2010	1,375 (891 Africa) (484 International)
Nos of Francophone	433
Nos of English speaking	942
African Countries	43
International Countries	49

SARNISSA and Aquatic Animal Health AAH

By May 2010 we now have 71 individual members on SARNISSA who expressed Aquatic Animal Health in Africa a key interest including:

Assoc Professor Researcher Pharmaceutical Company

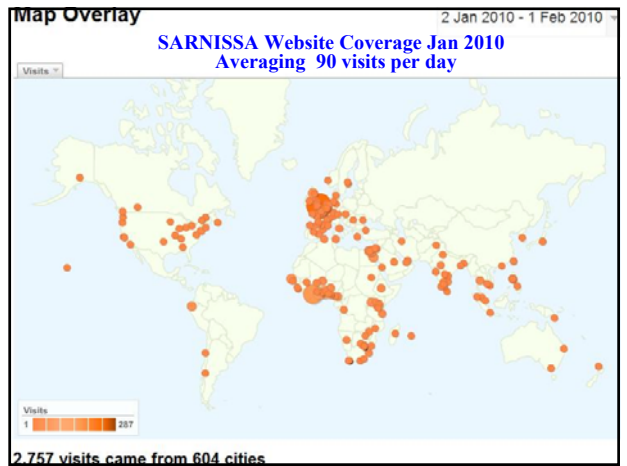
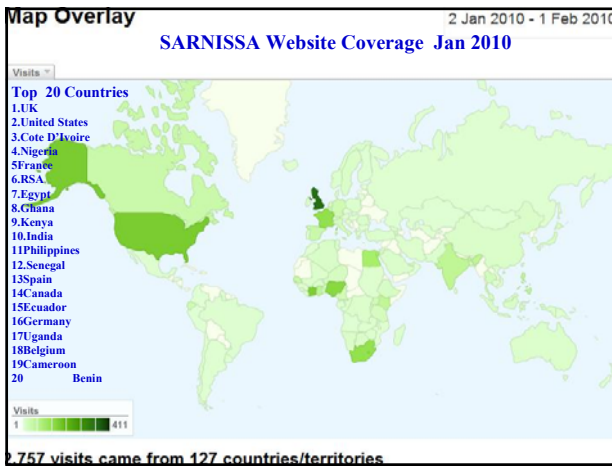
Fish Hatchery Manager Veterinarian Int NGO MSc Student

Govt Policy Maker Research Director WFC Parasitologist

Project Manager Fish Farm Manager Govt Regional Health Officer

Bacteriologist PhD student CEO Consultant Nutritionist

[Aquatic Animal Health Page on website](#)
[Recent Case Study: Kenya Lake Naivasha - mortalities on SARNISSA](#)



City	Visits	Pages/Visit	Avg. Time on Site	% New Visits
1. London	287	4.70	00:11:53	12.89%
2. Abidjan XXXX	196	1.20	00:01:05	79.08%
3. (not set)	150	2.43	00:03:27	66.67%
4. Lagos XXXX	99	2.19	00:05:23	59.60%
5. Accra XXXX	74	2.65	00:02:53	77.03%
6. Nairobi XXXX	59	4.90	00:07:50	67.80%
7. Stirling	53	3.40	00:06:33	18.87%
8. Dakar XXXX	51	1.06	00:00:21	58.82%
9. Al-Ghurdaqah Egypt XXX	43	1.02	00:00:11	0.00%
10. Paris	38	3.16	00:03:54	47.37%
11. Guayaquil	37	3.32	00:03:50	29.73%
12. Kampala XXXX	36	2.94	00:04:32	75.00%
13. Cairo XXXX	33	2.67	00:02:48	42.42%
14. Montpellier	33	2.39	00:02:35	30.30%
15. Mandaluyong	29	3.52	00:08:15	37.93%
16. Suez XXXX	27	1.11	00:00:50	0.00%
17. Quezon City	27	6.70	00:14:26	14.81%
18. Bangkok	23	6.00	00:11:42	65.22%
19. Cotonou XXXX	23	1.70	00:01:49	55.52%
20. Niamey XXXX	22	4.14	00:10:08	31.82%
21. Yaounde XXXX	21	4.57	00:06:20	57.14%
22. New York	20	2.75	00:03:17	75.00%
23. Addis Abeba XXXX	19	1.84	00:02:17	68.42%
24. Abuja XXXX	19	1.68	00:01:23	89.47%
25. Dar Es Salaam XXXX	19	3.53	00:06:22	73.68%

The African Aquaculture Email Discussion Groups Information Exchange.....

From: Karen L. Veverica <veverkl@gmail.com>
 To: sarnissa-african-aquaculture Mailing List sarnissa-african-aquaculture@lists.stir.ac.uk
 Sent: Sat, 30 January, 2010 18:46:10
 Subject: [Sarnissa-african-aquaculture] First floating fish feeds available in Uganda

Ugachick Poultry Breeders Ltd has begun making large amounts of extruded fish feed with a single screw "wet extruder", which cooks and expands the mash to produce a floating pellet if the formulation is done correctly.

Karen,

This is good news for the development of aquaculture in the region . Colleagues in Rwanda, Tanzania and Southern Sudan have been waiting for this. Thanks again.

Cheers!
 John K. Walakira
 Aquaculture Scientist, Uganda

Contacts.....

Hi Seth,
 Its good to let Asma know the work that CSIR-WRI-ARDEC is doing. He may not be the only person right within Ghana who does not know where and who to contact. This, to me calls for more effort in you putting your research findings to the public domain. Its great to have a website but let even the 'ordinary' Ghanaian know the good work that you are doing to encourage others into the field. We need to see more of ARDEC on this network. As Karen advised, you will need to give Asma the best advice to give him a good start.

Thanks
 Sam
 Graduate student
 Auburn University

At 14:49 30/01/2010, Nasser wrote:

Hi all,
 I am from Uganda and wanted to try on AQUA SPAWN as alternative for induced breeding of catfish because in the previous methods, we had to kill a male or female to get a pituitary hormone to induce spawning. How can I access Aqua spawn from south Africa?
 Kasozi Nasser
 Aquaculture scientist -Uganda

Dear Mr.Kasozi,
 I manage a factory that now and then buys catfish, as well as a catfish hatchery. We have enough dry pituitary that we extract and dry process when receiving fish. This can be used. If you want to try please get in touch. My phone is 0752
 All the best,
 Philip Borel

SUCCESS STORY
 Susan Njeri, Kenya... From Tomatoes to Fish



What else is SARNISSA doing?
 It is identifying and helping key members:

Who can work together/collaborate towards putting in a research or development proposal – researchers + commercial?

Helping to identify relevant funding sources – They are there – you just need to know where to look.....

Helping but not writingHow best to write a concept note or proposal? What are the funders looking for??
 Then submitting and waiting for result.....



SARNISSA HAS NO FUNDS TO GIVE OUT TO INDIVIDUAL RESEARCHERS, PROJECTS, ACADEMIC INSTS

OUR AIM IS THROUGH FORMING NETWORKS PROVIDING A WIDE RANGE OF PEOPLE WITH ACCESS TO INFORMATION AND CONTACTS SO THAT THEY CAN START TO HELP AND DEVELOP THEMSELVES

Below is status and harvests from Egyptian Tilapia Farming



EXAMPLE

With help from SARNISSA West African Group of individuals developed & started Freshwater Prawn *Macrobrachium vollenhovenii* Farming Project Proposal in Cameroon:

University of Buea (anglophone),

University of Douala (francophone),

Concepto Azul (a French/Ecuadorian biotechnology NGO),

Vige International (French volunteer organization),

Bleu Cameroun (French NGO), OPED (Local NGO)

IRAD Specialized Research Centre for Marine Ecosystems in Kribi and a new Institute for Aquatic Sciences in southern Cameroon.



Funding has already been obtained from the Congo Basin Forest Fund (€250 000 for development and extension of crevette farming technology)

and IRAD core (€15 000 for grow-out trials) and a further €150 000 (for hatchery and larval rearing technology) has been requested from UNDP .

A hatchery has been built and is in operation, and 88 women in three groups in the mangrove forest area of southern Cameroon are currently engaged in on-farm trials of *Macrobrachium vollenhovenii* cage culture.

Aim of SARNISSA to initiate, help and support this process.

Project identification – Bringing together of partners – Identification of potential funders – Proposal writing – Then await success Or rejection !!



What else is SARNISSA involved in ?

Preparation and publication of **User Friendly Case Studies** 10-15 pages – Information + lessons learnt

Portfolio of 19 Titles already:

Lake Harvest: Commercial Production of Nile tilapia on Lake Kariba

Role of academic insts in development of **seaweeds cultivation** in Tanzania

Royal Fish Farm, Benin : A **commercial recirc Clarias farm and hatchery** producing fingerlings and market size fish



10 Analytical In Country Aquaculture Status Reviews

Including : Uganda, Malawi , Cameroon, Cote D'Ivoire, Ghana, S Africa, Kenya.

Role(s) of Govt? of Research ? of Academic Sector of Private Sector? Policy and Planning ? Markets?

Past history. Current status Successes , Failures? Future.....? Many Hyperlinks Contacts

And Asian Study Tour Reports

3 African partners – 1 month trip to view different sectors of aquaculture development in 3 S Asian countries: Thailand, Nepal, Bangladesh. Reports give overview of different sectors, gov, commercial, research, academic, markets, Many Hyperlinks, Contact



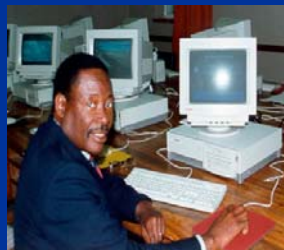
E workshops Sept/ Oct 2009

INVITATION FROM ETC TO PARTICIPATE IN 2 SARNISSA E-WORKSHOPS ON THE TOPIC OF:

NETWORKING AND CONSTRUCTIVE DIALOGUE AMONG RESEARCHERS AND POLICY MAKERS IN THE FIELD OF AQUACULTURE

English language E workshop facilitated by E. Kaunda, and Jeremiah Kangombe, Bunda College

French language E workshop facilitated by Dr Victor Pouomogne, IRAD, Cameroon



Some Final Reflections Conclusions on SARNISSA

SARNISSA is first and foremost a network of individuals – Its main strength comes from the range, skills, experience, good and bad advice! of its members

Its success has and will come as long as these people keep communicating with each other and it is providing a service that people want.....

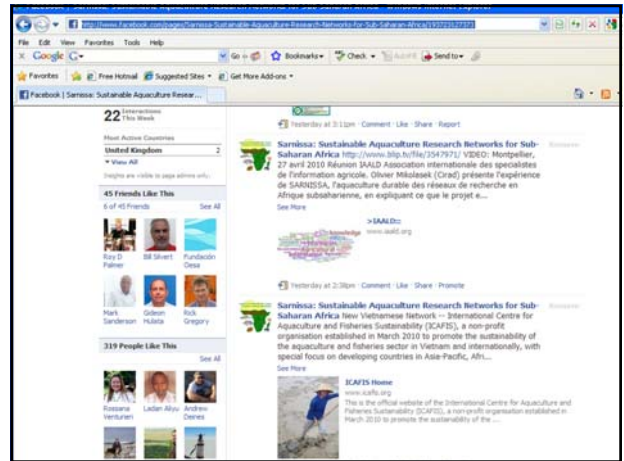
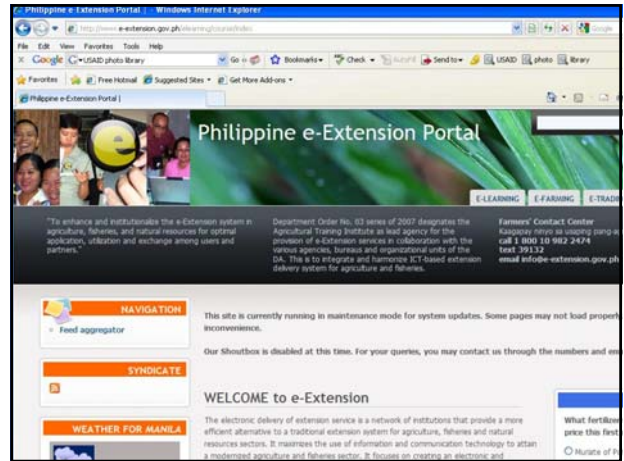


Wider Reflections on Networks and Future of Agricultural Aquaculture Development worldwide

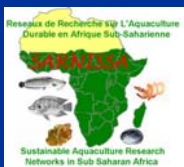
-Changing format and delivery of extension? and research?
 -Increasing influence of IT and improved communication allowing access to information - presentations from this work

From village into urban markets?
 From researcher to village?
 From village to researcher/ policy maker ?

Vast changes for individual farmers,
 Accessing information and Markets related to mobile phones
 Aquatic Animal Health – role of network?



Thank you



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SARNISSA is going up, gaining more and more people forming their own collaborations, when we get to the top Whats over the other side?



