



## Member Countries

- Burundi
- East and West DRC
- Ethiopia
- Kenya
- Madagascar
- Rwanda
- Sudan
- **South Sudan**
- Northern Tanzania
- Uganda

**Updates 2011-2012, Addis  
Ababa, Ethiopia**

**By**

**Mathew Abang**

**MAY YOUR GENTLE SOUL REST IN PEACE**



# **Implementing the PABRA frame work 2009-2013**

# **PABRA FRAMEWORK OUTCOME AREAS**

- Genetic improvement**
- IPDM/ISFWM for resilience to Biotic and Abiotic Stresses**
- Nutrition and Health**
- Markets**
- Reaching End Users**
- M&E (Knowledge Management)**
- \* Gender, CC and Environment**

# PROGRESS AGAINST JEEP REPORT

- ❑ Development and dissemination of a new generation of higher yielding bean varieties (nutritional quality for domestic consumption, excellent market acceptance for income generation) – **Crop improvement with NARS, Harvestplus, etc.**
- ❑ Improve production and its reliability through better crop, soil and pest management by farmers – **ICM with NARS, Afnet, CABI etc**
- ❑ Achieve wider impact by extending farmer access to new bean technologies to all main bean production areas in Africa – **Facilitate market access with NARS, private sector, NGOs and Farmer Orgs**
- ❑ Improve and disseminate understanding of how communities in diverse situations can best achieve food security, income and other livelihood aspirations - **Markets, ICT, Public awareness, etc**
- ❑ Strengthen the capacity of NGOs and local agricultural services and strengthen the research sector (NARS, farmer research groups) – **Research partnerships and participatory technology development**

# No of released and pre-released varieties in ECABREN in relation to 2013 target

Country	Stress		Markets		Nutrition		Total	
	Pre rel	Release	Pre-rel	Released	Pre-rel	Release	Pre-rel	Release
Burundi	-	2	-	-	2	4	2	6
DR C -West	8	11	-	-	-	-	8	11
DRC –East	-	30	-	-	2	-	2	14
Rwanda	-	9	-	1	6	5	6	15
Uganda	4	2	-	-	-	-	4	2
Ethiopia	18	-	3	-	-	-	21	0
Madagascar	38	3	-	5	-	-	38	8
<b>TOTAL</b>							<b><u>81</u></b>	<b><u>56</u></b>
				<b>ECABREN 2013 TARGET = 65</b>				

## Number of beneficiaries that accessed seed of improved bean varieties across ECABREN

Country	Access (Households)						Total (2009-11)
	2009		2010		2011 (March-July) one crop season		
	Female	Male	Female	Male	Female	Male	
Burundi	104,900	80,649	134,208	112,982	85,900	65,390	584,029
DRC-East	357,689	139,204	258,645	155,470	120,450	67,030	1,098,488
DRC-W	24,165	11,750	46,800	14,250			96,965
Ethiopia	46,249	107,914	42,713	128,140	47,900	145,490	518,406
Kenya	155,861	104,998	213,425	168,635	120,900	146,900	910,719
Madagascar	24,293	15,338	27,859	7,373	15,890	8,800	99,553
Rwanda	94,900	73,590	202,692	90,150	152,450	87,900	701,682
Tanzania (N)	21,600	10,090	25,990	13,073			70,753
Uganda	78,309	95,709	82,921	101,348	65,565	45,670	469,522
<b>Sudan !!!</b>							
	<b>907,966</b>	<b>639,242</b>	<b>1,035,253</b>	<b>791,421</b>	<b>609,055</b>	<b>567,180</b>	<b>4,550,117</b>
	<b>4,550,117 (56.1% being women)</b>						

## Number of seed producers and their seed production systems across ECABRN Countries 2009-2011

Country	Decentralized unit (non certified seeds)	Decentralised (certified /quality declared seeds)	Medium seed companies	Large companies / parastatals
Burundi	15	2		
DRC-East	35	3		
DRC-W	8	2		
Ethiopia	45	15	3	2
Kenya	20		2	1
Madagascar	13	5		
Rwanda	20	2		1
Tanzania (N)	16	12	2	1
Uganda	30	5	5	
<b>Total</b>	<b>202</b>	<b>46</b>	<b>12</b>	<b>5</b>



## Number of farmers accessing seed and using integrated crop management in some ECABREN countries

Country	No. partners engaged in ISFM/IPDM	Female	Male	LR 2011	2009 & 2010
Burundi	15	15,033	11443	26476	
DRC-East	18	20477	11395	31872	
Ethiopia	21	23950	72745	96695	
Kenya	20	54405	66105	120570	
Madagascar	15	5879	3080	8959	
Rwanda	23	114338	65925	180263	
Uganda	28	22948	15985	38932	
<b>Total</b>		<b>257,029</b>	<b>246,678</b>	<b>503,707</b>	<b>1,354,922</b>
	<b>ECABREN target (50% of 5 M) = 2.5 million</b>				<b>1,858,269</b>
	<b>Achievement so far = 74%</b>				

**ECABREN-facilitated training sessions for trainers from private and public sector seed producers. The sessions aimed to enhance skills and knowledge of seed producers in areas of seed business (pre and post harvest), seed marketing and entrepreneurship**

<b>Country</b>	<b>Participants</b>		<b>Total</b>
	<b>Female</b>	<b>Male</b>	
<b>Burundi</b>	<b>8</b>	<b>22</b>	<b>30</b>
<b>DRC-East</b>	<b>15</b>	<b>16</b>	<b>31</b>
<b>Ethiopia</b>	<b>5</b>	<b>25</b>	<b>30</b>
<b>Madagascar</b>	<b>-</b>	<b>-</b>	<b>Planned</b>

# ECABREN regional or zonal bean innovation platforms that have been established

Country	No. zonal / regional platform	Partner organizations	participants	
			Female	Male
Madagascar	2	11	18	22
Burundi	3	9	6	28
DRC-East	2	15	16	31
Ethiopia	1	26	11	56
Rwanda	2	tba	tba	tba
Uganda	5	“	“	“
Kenya	3	“	“	“

## Cross border trade flows for beans in southern and eastern Africa (courtesy of RATIN, Fewsnets)

\* First six months of 2011 only for Eastern Africa. For southern Africa however, period covers one year for southern Africa

<b>Season</b>	<b>2005/6</b>	<b>2006/7</b>	<b>2007/8</b>	<b>2008/9</b>	<b>2009/10</b>	<b>2010/11</b>
Southern Africa	14343	10153	10988	9236	8800	12075*
Eastern Africa	86504	94439	67259	110394	108,877	40,000*
<b>Total in tons</b>	<b>100847</b>	<b>104592</b>	<b>78247</b>	<b>119630</b>	<b>117677</b>	<b>52075*</b>

In Rwanda, Burundi and DR Congo, marketed beans = 25% of harvest

This proportion rises to 76% in Ethiopia, where beans are mostly commercial

In Uganda marketed beans = 46% of harvest

# Fundraising

ASARECA Proposal – 2011 to 2014 (US\$ 900,000) - APPROVED

BioInnovate Proposal – 2011 to 2014 (US\$ 1 Mio) - APPROVED

FAO Dryland Initiative ECA – AUSAID \$\$\$

CIAT, BecA, The University of Cambridge and Rothamsted Research submitted BBSRC-UK proposal project titled, "*Manipulation of bean-aphid –virus interactions: A new avenue for sustainable disease management of an important crop in Africa*" (UK£2,005,766) - APPROVED

CIAT, MUK and Harper-Adams Univ submitted a BBSRC-UK proposal titled, "*Harnessing genomics to understand the interaction between the common bean and anthracnose for sustainable disease management and improved productivity in Eastern Africa*" (UK£997,309) – NOT APPROVED

# Key Meetings and Symposia

- ❖ PABRA ISFM/IPDM Working Group Meeting, which took place in Kampala in December 2010.
- ❖ ECABREN steering committee meeting, Burundi, 17 – 21 January 2011
- ❖ PABRA Annual steering committee meeting, Burundi, 21 – 25 March 2011
- ❖ Bio-Innovate Project Inception Meeting, Nairobi, 16 – 19 March 2011
- ❖ ASARECA Project Inception Meetings in Namulonge, Bujumbura, Bukavu and Kigali, August and Sept 2011.
- ❖ PABRA's Nutrition Working Group Meeting, Kampala, 11 – 15 July 2011
- ❖ SDC proposal development meeting, Kampala, 25 – 29 July 2011
- ❖ SDC final proposal writing meeting, Kampala, 26-28 September 2011

# Partnership

Planning is on going for MoU between CIAT-ECABREN and the MoA, Rep of South Sudan, which will see South Sudan join ECABREN as the 10<sup>th</sup> member state.

CIAT is supporting World Vision International, South Sudan to make the transition from Emergency Relief to Agricultural Development and Food Security in the country.

MOU with WVI will see the development and implementation of potentially huge collaborative R4D projects in the new Rep of South Sudan.

# Writeshop Manuscripts Accepted

1	Ngueguim et al	Influence of time of planting on yield and grain quality of bean genotypes grown on an andosol in the western highlands of cameroon (whc).	ISFWM	WECABREN
1	Birachi et al	Factors influencing smallholder farmers' bean production and supply to market in Burundi	Markets	ECABREN
2	Rezene et al	Genetic variation for drought resistance in small red seeded common bean genotypes	Breeding	ECABREN
3	Muthomi et al.	Inheritance of resistance to angular leaf spot in yellow beans	Breeding	ECABREN
4	Katungi et al	A cost-benefit analysis of farmer based seed production for common bean in Kenya	Economics/Seed System	ECABREN
5	Wahome et al	Multiple disease resistance in snap bean genotypes in kenya	Breeding	ECABREN
6	Wagara et al	Reaction of selected common bean genotypes to physiological races of <i>Phaeoisariopsis griseola</i> occurring in Kenya	IPDM	ECABREN
7	Kusolwa et al	Seed storage proteins arl2 and its variants from the apa locus of wild tepary bean g40199 confers resistance to <i>Acanthoscellides obtectus</i> when expressed in common beans	Breeding	ECABREN



# Writeshop Manuscripts Accepted

<b>1</b>	<b>Muedi et al.</b>	<b>Characterisation of bacterial brown spot pathogen from dry bean production areas of South Africa</b>	<b>IPDM</b>	<b>SABRN</b>
<b>2</b>	<b>Muimui et al.</b>	<b>Resistance and inheritance of common bacterial blight in yellow bean</b>	<b>Breeding</b>	<b>SABRN</b>
<b>3</b>	<b>Chataika et al</b>	<b>Inheritance of resistance to common bacterial blight in common bean</b>	<b>Breeding</b>	<b>SABRN</b>
<b>4</b>	<b>Chataika et al</b>	<b>Inheritance of halo blight resistance in common bean</b>	<b>Breeding</b>	<b>SABRN</b>
<b>5</b>	<b>Fourie et al</b>	<b>Improvement of common bacterial blight resistance in south african dry bean cultivar teebus</b>	<b>Breeding</b>	<b>SABRN</b>
<b>6</b>	<b>Fourie et al</b>	<b>Application of molecular markers in breeding for bean common blight resistance in south africa</b>	<b>Breeding</b>	<b>SABRN</b>

# Manuscripts not YET returned

1. Susceptibility of South African dry bean cultivars to bacterial diseases. *Deidré Fourie*
2. Pathogenic and genetic variation in *Xanthomonas axonopodis* pv. *phaseoli* and *X. axonopodis* pv. *phaseoli* var. *fuscans* in Southern Africa. *Deidré Fourie et al*
3. Morpho-physiological response to post-flowering drought stress in small red seeded common bean genotypes. *Yayis Rezene et al*
4. Efficacy of host resistance in management of angular leaf spot of common bean. *M.K. Charimbu, I.N. Wagara and D.O. Otaye*
5. Strengthening haricot bean informal seed multiplication: Community Seed Banks in Alaba Special District, Southern Ethiopia. *Abebe Shiferaw et al*
6. Innovative haricot beans seed system for smallholder farmers - experiences from Dale District, Sidama Zone, Southern Ethiopia. *Kettema Yilma et al.*
7. Effects of stationary electromagnetic fields on the radicle length during the initial growth of rosecoco beans. *O. J. Odhiambo , F.G. Ndiritu and I.N. Wagara*
8. Effect of genetic factors for phosphorus use efficiency by bean genotypes. *M. A. Kilango*

# CAPACITY BUILDING

MSc research fellowship – TL 2 Objective 4 (Bean Breeding)

PhD research fellowship – BBSRC Project (CIAT-Cambridge-BecA)

<b>NAME</b>	<b>DEG</b>	<b>UNIVERSITY</b>	<b>FUNDING</b>	<b>STATUS</b>
<b>Second Waltram RAVELOMBOLA</b>	<b>BSc</b>	<b>Ecole Superieure des Sciences Agronomiques de Madagascar</b>	<b>PABRA</b>	
<b>Ddamulira Gabiri Geoffrey</b>	<b>PhD</b>	<b>Makerere University, Kampala Uganda</b>	<b>RUFORUM</b>	<b>2<sup>ND</sup> Year</b>
<b>Moses Kiryowa</b>	<b>PhD</b>	<b>Makerere University,</b>	<b>MSI</b>	<b>3<sup>rd</sup> year</b>
<b>Floride Mukamuhirwa</b>	<b>MSc</b>	<b>Makerere University,</b>	<b>RUFORUM</b>	<b>1<sup>st</sup> year</b>
<b>Winifred Amongi</b>	<b>MSc</b>	<b>Makerere University,</b>	<b>RUFORUM</b>	<b>1<sup>st</sup> year</b>
<b>Kijana Ruhebuza</b>	<b>MSc</b>	<b>Makerere University,</b>	<b>PABRA</b>	<b>1<sup>st</sup> year</b>
<b>Esther Arengo</b>	<b>MSc</b>	<b>Makerere University,</b>	<b>MSI</b>	<b>Completing</b>
<b>Aston Ebinu</b>	<b>MSc</b>	<b>Makerere University,</b>	<b>MSI</b>	<b>Completing</b>
<b>Solo Artherine</b>	<b>BSc</b>	<b>Ecole Superieure Polytechnique de Madagascar</b>	<b>PABRA</b>	
<b>Sylvie Colombe</b>	<b>BSc</b>	<b>Ecole Superieure Polytechnique de Madagascar</b>	<b>PABRA</b>	

<b>NAME</b>	<b>DEG</b>	<b>UNIVERSITY</b>	<b>FUNDING</b>	<b>STATUS</b>
<b>Mercy Naitore Kiarie</b>	<b>PhD</b>	<b>Nairobi University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Esther Arengo</b>	<b>PhD</b>	<b>Egerton University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Orende Joseph</b>	<b>MSc</b>	<b>Nairobi University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Dennis Okwi</b>	<b>MSC</b>	<b>Sokoine University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>George Muhamba Tryphone</b>	<b>PhD</b>	<b>Sokoine University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Elisiana Kweka</b>	<b>MSc</b>	<b>Sokoine University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Anastasia Saumu Musym</b>	<b>MSc</b>	<b>Nairobi University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Samwel Njuguna Mwangi</b>	<b>MSc</b>	<b>Nairobi University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Luseko Chilagane</b>	<b>MSc</b>	<b>Sokoine University</b>	<b>KIRKHOUSE</b>	<b>3<sup>rd</sup> Year</b>
<b>Annet Namayanja</b>	<b>PhD</b>	<b>Sokoine University</b>	<b>AGRA</b>	<b>Completing</b>
<b>Berhanu Amsalu Fenta</b>	<b>PhD</b>	<b>University of Pretoria</b>	<b>TL II</b>	<b>Completing</b>

<b>NAME</b>	<b>DEG</b>	<b>UNIVERSITY</b>	<b>FUNDING</b>	<b>STATUS</b>
Fitsum Alemayehu	<b>PhD</b>	<b>University of Free State</b>	<b>TL-I</b>	<b>1<sup>st</sup> Year</b>
Scolastica Mwikali Wambua	<b>MSc</b>	<b>Kenyatta University</b>	<b>TL -11</b>	<b>Completing</b>
Edidah Ampaire Lubega	<b>PhD</b>	<b>University of Pretoria</b>	<b>PABRA</b>	<b>3<sup>RD</sup> Year</b>
NDUWARUGIRA Eric	<b>MSc</b>	<b>Sokoine University</b>	<b>Bio-Innovate</b>	<b>1<sup>st</sup> Year</b>



# Moving Forward from 2011

- ❑ Dr Andy Farrow left; implications for updating the Bean Atlas
- ❑ Establishment of locally owned Bean Value Chain Platforms in 7 ECABREN countries – **DONE** Three flagship projects (ASARECA, Bio-Innovate, TL-2) in full swing!
- ❑ Modalities in place to meet all 2013 targets
- ❑ ECABREN website – one stop shop of information for all stakeholders – **In PROGRESS**
- ❑ Restructuring of ECABREN Regional Nurseries is **on going**. Discussed extensively during Breeders' Meeting and **to be re-launched in 2012 based on SABRN model**
- ❑ **Proceedings of ECABREN SC Meetings**



Thank you