

Kenya Agricultural & Livestock Research Organization (KALRO)

PROMOTING WIN-WIN PARTNERSHIPS

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About KALRO

This is an umbrella body that brings together the following former organizations:-

- I. Kenya Agricultural Research Institute (KARI)
- 2. Tea Research Foundation (TRF)
- 3. Coffee Research Foundation (CRF)
- Kenya Sugar Research Foundation (KESREF)





KALRO 16 Research Institutes

Livestock Research Institutes	Crops Research Institutes	Cross-cutting Research Institutes
I. Dairy	I. Food Crops	I. Bio-Technology
2. Goats and Sheep	2. Horticulture3. Tea	2. Genetic Resources
3. Non Ruminants4. Beef5. Apiculture6. Veterinary	4. Coffee5. Sugar6. Industrial Crops	3. Arid & Rangelands Resources4. Mechanization

KALRO Kenya Agricultural & Livestock Reeearch Organization

KALRO 16 Research Institutes and 53 Centres

Crop Research Institutes

- Food Crops Research Institute
- Horticulture Research Institute
- Industrial Crops Research Institute
- Genetic Resources Research Institute
- Tea Research Institute
- Coffee Research Institute
- Sugar Research Institute
- Agriculture Mechanization Research Institute

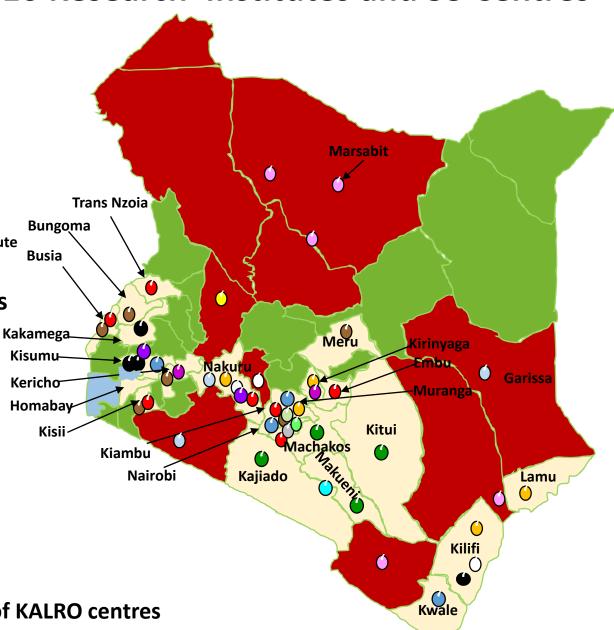
Livestock Research Institutes

- Apiculture Research Institute
- Biotechnology Research Institute
- O Dairy Research Institute
- Beef Research Institute
- Veterinary Research Institute
- Arid & Range Research Institute
 - Sheep & Goat Research Institute
- Non Ruminant Research Institute



Livestock

Counties are mandate of KALRO centres





Organizations Mandate – To support the agriculture and livestock sector through research coordination, technology and innovations development; catalyze transfer and utilization of agricultural and livestock research outputs.

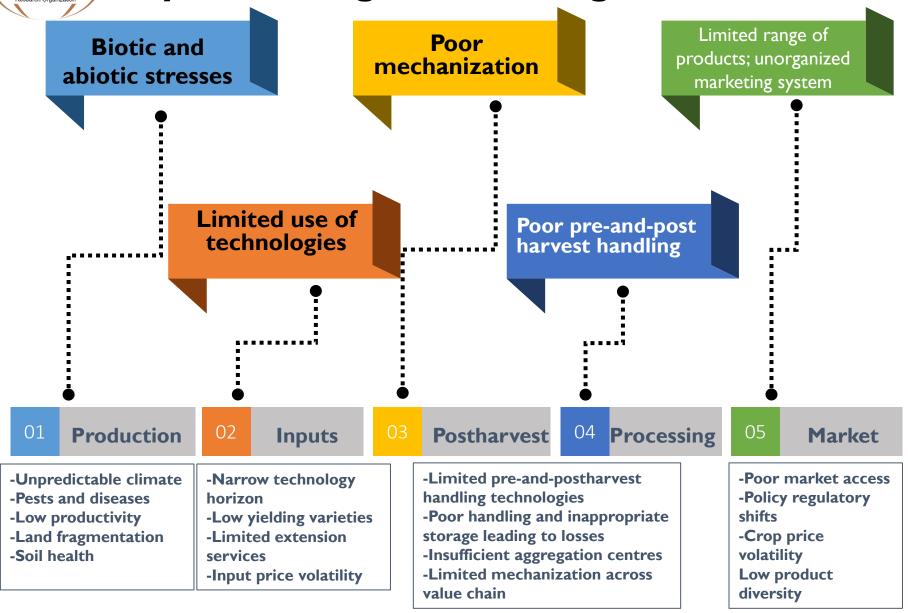








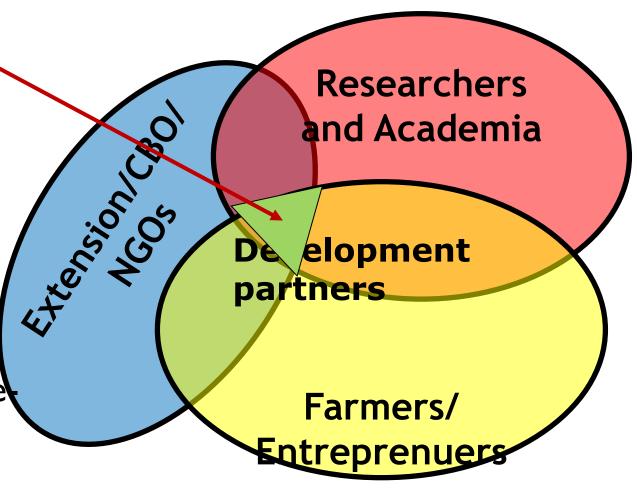
By addressing the following Constraints





Approach: An integrated system with various partners

- Private sector
- Farmers
- Brokerage of knowledge, information and technologies
- Uptake and scale up research products





Approach: Use of Agricultural Product Value Chain Platforms

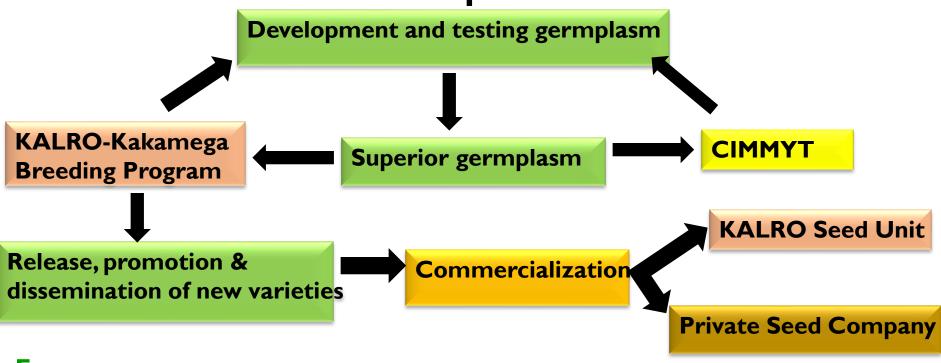
- Recognizes the need to have people level impact (to improve livelihoods)
- Recognizes need for partnerships for impact
- Establishes partners to work with and identifies their roles
- It advocates for 'market responsive products' (driven by needs & consumer preferences) & not 'pushing of commodities' (production of commodities driven by existing agricultural potential)





Examples: Partnership in Seed System Development





Focus

- Development and testing germplasm
- Release, promotion and dissemination of new varieties
- Socio-economic and policy development















Example: Partnerships in the Legume Value Chain_

















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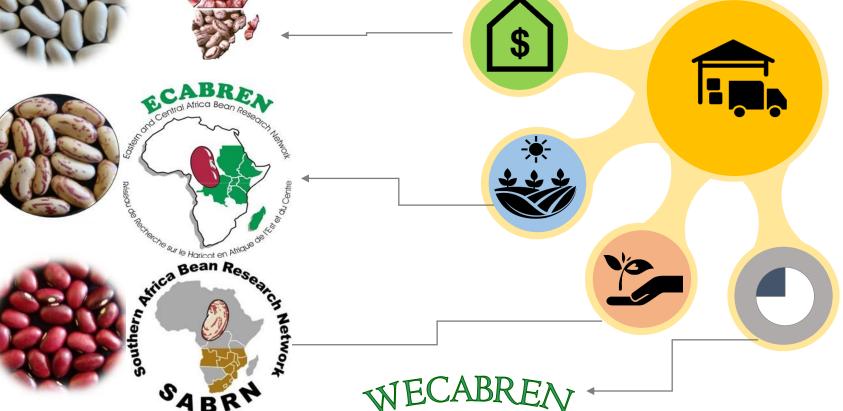
Pan-Africa Bean











CIDA, SDC, USAID, BMGF, McKnight, ASARECA, SADC-FANR, AGRA, KIRKHOUSE







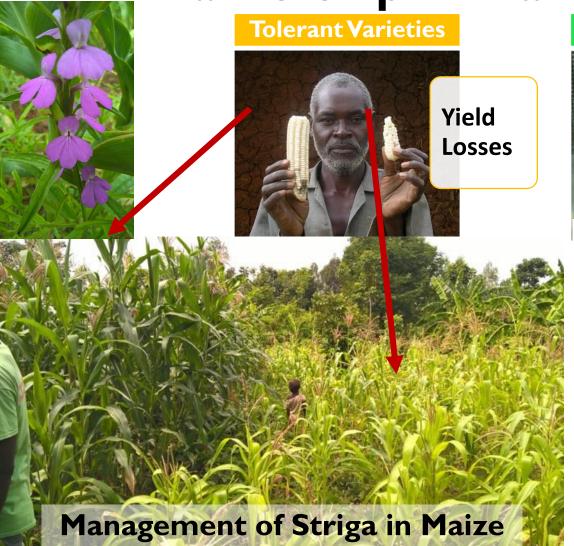








Parnership in management of striga



Biological Control



Fusarium oxysporum (FoxyTI4)

Farmer Capacity Building





Strengthening Sericulture Value Chains



- Silk value chains
- Medicinal value chains
- Mulberry value chains

Japan

- Silkworm introduction and breeding
- Mulberry selection and development
- Silk value addition reeling, textiles

Client

- Silk worm and mulberry variety introduction
- Increased production and productivity
- Improved marketing and market access















Plantwise: Partnership in Extension-Driven Research

Devolved crop protection advisory services using a Plant Clinic Model

Crop health data capture to inform research

Surveillance data to inform policy



















Strategic Partnerships: Web-based repository for pathogen population genetic data

(D) CABI

Proposed interventions:

- Pest and disease mapping to inform management strategies
- Capacity building on and IPDM and developing a surveillance system within the schemes
- Provision of IPDM technologies
- Training Plant Doctors and setting up of Plant Clinics
- Continuous monitoring for pest and disease outbreaks and emerging ones







Invasive pests: Management Parthenium (Parthenium hysterophorus)

- Parthenium poses a significant threat to agriculture and livelihoods
- Risk Assessments for the introduction and release of Zygogramma bicolorata in Kenya
- Improve knowledge sharing, awareness, and education on biocontrol of parthenium, through increasing capacity of institutions
- *KALRO working with KEPHIS to introduce and release 2 biocontrol agents:
 - Zygogramma bicolorata
 - Listronotus setosipennis







PRISE:

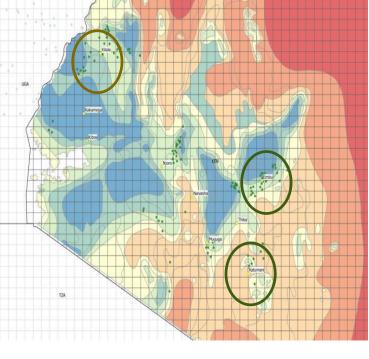
Pest Risk information Services





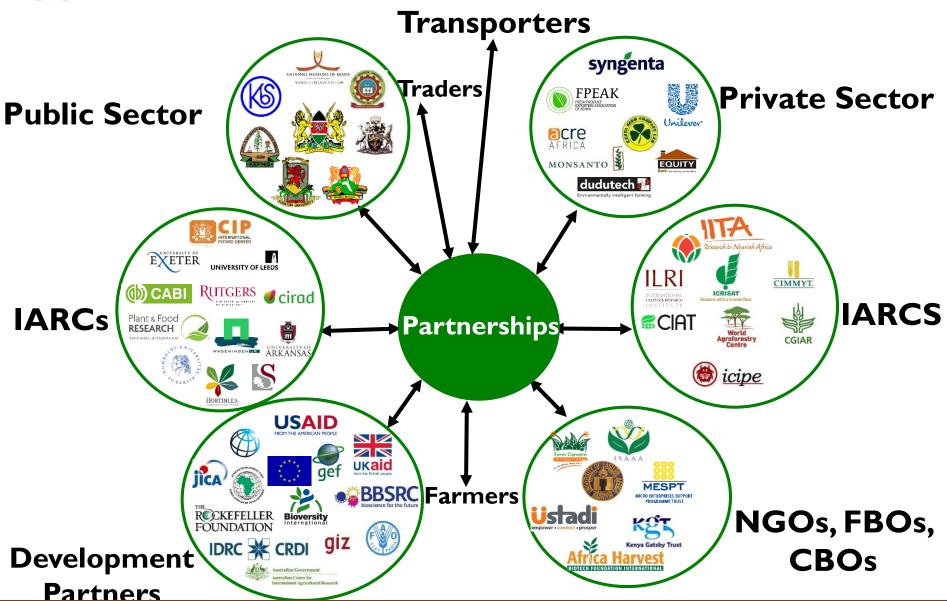
- Developing models for early warning systems for pests such as fall army worm, Tuta absoluta and bean fly in Kenya in Kitale, Machakos and Embu
- Partners CABI, KALRO, Assimila, Kings College London, Centre for Environmental Data Analysis and Plant Protection & Regulatory Services Directorate in Ghana
- Controlled Temperature (CT) rooms at KALRO-Muguga rehabilitated to study FAW







Opportunity: It is all about Strategic Partnerships



Win-WIN-WIN Strategic Partnerships

This has been achived through Win-Win-Win strategic Partneships that avoid conflicts but beneficial to KALRO, the partners and most importantly the customers- Farmers



Thank you



