

## OUTCOME OF INNOVATIONS AND LEARNING FORUM FOR COUNTIES

HELD ON 15<sup>th</sup> AND 16<sup>th</sup> JUNE 2017.

### MAPPING OF INNOVATIONS THAT COUNTIES ARE WILLING TO ADOPT.

COUNTY	INNOVATION INTERESTS	REASON
BARINGO	Stawi Foods & Drinks Limited (Bananas value addition)	The County has abundant solar and has prioritized irrigation for food production.
	Rearing of Mangoes and production of mango juice-Makueni County	County promoting the value chain.
	AAIN (African Agribusiness Incubation Network)- Implements the Africa Agribusiness Incubation Program(AAIP) for job and wealth creation in Africa through strategic partnerships	High unemployment among the Youths, Aging farming population. Attracting Youth to Agriculture
	AGRA (Alliance for a Green Revolution in Africa) – Support small holder farmers in Africa to come up with unique solutions designed to meet their problems relating to seed production, soil health and agriculture markets)	The County has already existing value chains which need ICT to be incorporated for their success.
	We Farm (SMS-based extension services to farmers)	Provision of digital platform and data for decision-making.
BOMET	Nyangororo Banana Processors (value addition)	Need to add value to bananas.
	Indigenous Poultry Farming-Makueni County	One of our key value chain projects. Construction of a chicken slaughter factory is ongoing.
	AAIN Attracting Youth to Agriculture	Establishing youth incubators to harness the full potential of Youths in agri-business.
	Using Digital video for effective Agriculture in Ethiopia	A modern and efficient technology for offering extension services to farmers.
	We Farm ( SMS- based extension services for farmers)	Support extension services through information sharing to improve farm production.
BUNGOMA	Mediae (Use of mainstream media for agricultural extension services. Shamba shape-up)	Good for grass root farmers. Funding possible through PPPs.
	AAIN Attracting Youth to Agriculture	Good platform for secondary and graduate youth in agri-business.
	AGRA	Promoting seed multiplication and access.
	We Farm	Free to register. Can reach many farmers at a go.

COUNTY	INNOVATION INTERESTS	REASON
	Solar-powered boreholes for Irrigation Nyandarua County	Cost effective. Easy to operate. Good for small- holder irrigation.
BUSIA		
ELGEYO MARAkwET	County Health-care Plan - Makueni County	Low number of people are registered with NHIF.
	Transforming Land - Transforming people in Rwanda. Use of Land husbandry, water harvesting and hillside program to push agriculture and transform rural livelihoods.	Some parts of the County are hilly. A lot of soil erosion taking place in the escarpment. Poor farming methods in the escarpment.
	Rearing of Mangoes and production of mango juice- Makueni County	Current coverage is 500 hectares thus the need for value addition. There is a challenge in their transportation to the market. County promotion through the subsidy program.
	AAIN Attracting Youth to Agriculture	Most of the farming community has aged. The county depends on Agriculture (80%). Unemployment I the formal sector.
	Solar-powered boreholes for Irrigation Nyandarua County	The County is 40% ASAL thus the need for irrigation. Availability of solar energy in the hot areas. ASAL areas have high potential for high value crops like water melons, tomatoes and onions.
EMBU	Sweet Potato value addition and Co-operatives- Bomet County	Income generating.
	Solid waste Management (Landfill project)- Kiambu County	The innovation will maintain a clean environment.
GARISSA	Rearing of Mangoes and production of mango juice -Makueni County	The raw material is readily available so the innovation is feasible.
	AAIN Attracting Youth to Agriculture	Youth are productive and need to be engaged.
	Solid waste Management Landfill Kiambu County	Have similar challenges.
HOMA BAY	Sweet Potato value addition and Co-operatives -Bomet County	Availability of raw materials. This innovation addresses both food security and job creation.
	One-acre Fund (financing and training small-holder farmers)	The innovation is inclusive. It addresses more than one need. The innovation is simple.
	Kipingi peanut butter Processing Homabay County	Innovation is relevant and already on pilot basis and needs to upscale.
	Mediae	Both entertaining and educating it passes messages easily. Cuts across age- groups in terms of acceptability. Flexible.

COUNTY	INNOVATION INTERESTS	REASON
	Using Digital video for effective Agriculture in Ethiopia	The innovation is inclusive. The innovation is simple to implement.
ISIOLO	County Health-care Plan-Makueni County	It will help improve Maternal health as well as general access to Health services.
	ICT-Agriculture; WhatsApp tool/app Bomet County	Reduced number of extension workers due to retirement and attrition without replacement and this would be a good alternative.
	Solar-powered boreholes for Irrigation Nyandarua County	Isiolo is an ASAL region; Introducing this kind of technology could help encourage the youth to venture into Agriculture.
	A Where (high resolution platform providing quantitative agri-weather data to farmers)	Timely sharing of information on market prices. Provides information / early warning systems through various types of media.
KAJIADO	Provision of Uterine Balloon Tamponade (UBT) Services at health facilities in managing uncontrolled Post-Partum Hemorrhage (PPH). -Garissa County	To help reduce Maternal Mortality.
	Pamoja Tujikinga na Magonjwa Integrated Program- Kitui County	Strengthening Community Health Services.
	Fodder establishment Project- Murang'a County	Diminishing grazing lands.
	Skilling and employment among Youths in India	Youth empowerment to the County's largest population group.
	Solar-powered boreholes for Irrigation Nyandarua County	Solution to ASAL areas where rain-fed agriculture is unreliable.
KAKAMEGA		
KERICHO	Nyangororo Banana Processors	Creating Value chain for the Bananas.
	eJijipay (automated revenue collection platform) Nairobi County	Automation of revenue collection.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	Conversion of inorganic waste (plastics) into industrial fuel.

COUNTY	INNOVATION INTERESTS	REASON
	Solid waste Management Landfill Kiambu County	Solid waste management.
KIAMBU	Sweet Potato value addition and Co-operatives- Bomet County	Tuber value addition; High production of tubers. Capacity builds extensions on documentation using ICT. Contribute to mitigate nutrition insecurity in the County.
	Safi Organics (they make fertilizer from organic waste that improves soil quality)	Quick way to utilize the Agricultural waste from the separated waste from solid management plant.
	AAIN Attracting Youth to Agriculture	High rate of unemployment among the youth. Diminishing land sizes. Proximity to Jomo Kenyatta University of Agriculture and Technology(JKUAT).
	Solar-powered boreholes for Irrigation Nyandarua County	Highly depended on ground water. High power cost resulting in high production costs. Highly horticultural County. Inadequate water.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	The County has rapid urbanization with industrialization. Some areas are arid. Address encroachment of water sources.
KILIFI	One acre Fund	High poverty levels prevent farmers from being able to purchase farm inputs. Inadequate supply of certified seeds and other farming inputs. High cost of farm inputs.
	AAIN Attracting Youth to Agriculture	Availability of the industries. Unemployed youth are many. Good will of the County Government.
	Future Pump (solar powered pump)	Availability of Irrigation water from River Sabaki.

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	Solar-powered boreholes for Irrigation Nyandarua County	River Sabaki which is permanent provides water for irrigation. Various water sources available in the County such as shallow wells and water pans. Availability of land for irrigation. Labour availability.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	Presence of raw materials from agricultural wastes such as coconut husks, cassava wastes etc. Availability of labour- Unemployed youth.
KIRINYAGA		
KISII	Coffee Improvement project-Baringo County	An approach capable of revitalizing the coffee industry in Kenya. Good marketing strategy.
	Safi Organics	Cheap way of improving soil fertility using available natural organic matter Creates job opportunities.
	Solid waste Management Landfill-Kiambu County	An environmental friendly and efficient way of managing waste.
	Using Digital video for effective Agriculture in Ethiopia	A modern and efficient technology for offering extension services to farmers.
	We Farm	A fast and efficient way of passing messages to many farmers at a go.
KISUMU		
KITUI	Pamoja Tujikinga na Magonjwa Integrated Programme - Kitui County	Bringing health services and awareness closer to the People.
	Contract Farming of Sorghum by Farmers with EABL-Tharaka Nithi	The climate in Kitui is suitable for growing of Sorghum. To provide ready market for sorghum already started.
	Mediae	For networking farmers to market their products.
	eJijipay platform -Nairobi County	To maximize revenue collection and even advance to business permits.
	Solar-powered boreholes for Irrigation Nyandarua County	Reduced cost of operation as opposed to petrol or diesel. To maximize on the availability of solar energy.
KWALE	Indigenous Poultry Farming- Makueni County	Alternative food choice to improve food security. Provides a faster white meat supplement that has high nutritional value.

COUNTY	INNOVATION INTERESTS	REASON
	Mediae	Platform for communicating with citizens. Allow public participation of government functions.
	Solar-powered boreholes for Irrigation Nyandarua County	Provision of water in an efficient and sustainable way. Reduce water shortage, use of green energy.
	Solid waste Management Landfill Kiambu County	Educate citizens on being environmental friendly. Reduce Carbon dioxide footprint in Kenya.
	Kings biofuels (makes briquette from waste)	Alternative energy source. Sustainable green energy from a positive environmental cleanup process.
LAIKIPIA	A Where	Good for rural areas of Laikipia County fibre optic cable in the three main towns of Laikipia (Nyahururu, Nanyuki and Rumuruti).
	Skilling and employment among Youths in India	Majority of youths in Laikipia are exposed to income generating jobs and skills; they lack technical skills that can expose them to Industrial and Agribusiness jobs.
	ICT-Agriculture; WhatsApp tool/app Bomet County	A large number of staff are aging and retiring. Inadequate funds to hire new staff. To improve networking in Agriculture extension.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	Half of Laikipia County is a semi-arid area and has experienced rapid climatic change over the last few years which have resulted in: Farmers-pastoralists conflicts leading to loss of human life, wildlife-human conflict. Loss of jobs by youth.
LAMU	Sweet Potato value addition and Co-operatives-Bomet County	Lamu has got a high potential for production of sweet potatoes
	ICT-Agriculture; WhatsApp tool/app Bomet County	Use of WhatsApp for extension services is easy to implement.
	We Farm	Easy to implement; only needs a handset to star.
	Solar-powered boreholes for Irrigation Nyandarua County	No overhead costs due to the use of natural energy. Environmental friendly.
	Mediae	Fast results/ solutions are immediate.
MACHAKOS	Transforming Land - Transforming people in Rwanda	Prevents Soil erosion. Improved productivity of the land. Conserves the environment (Soil conservation and water harvesting for crop production).
	Skilling and employment among Youths in India	Creates employment for the youth Aggregation of farm produce for better prices. Improved living standards.

COUNTY	INNOVATION INTERESTS	REASON
	Safi Organics	Makes use of organic waste which could have otherwise been wasted. Creates jobs for Youth and Women. Improves soil organic matter.
	Eco-Agribusiness	There are a lot of mangoes produced by farmers; selling prices are low during the harvesting season hence need for preservation to sell later, value addition to earn premium prices. Reduced post-harvest losses.
	Solid waste Management Landfill Kiambu County	No clear guidelines in garbage disposal Keeps the Environment clean. Goodwill from the political class is very important for its success.
MAKUENI	Eco Seed (provision of wildflower seeds and plants)	We will customize it and use Sisal because Makueni has plenty of Sisal.
	Sweet Potato value addition and Co-operatives - Bomet County	Customize and use Cassava and Sorghum.
	One acre Fund	The little water that is available in Makueni will be adequate.
	Safi Organics	It is viable and can be sustained. It is youth friendly.
MANDERA		
MARSABIT		
MERU		
MIGORI		
MOMBASA	Mediae	The radio programs and the i-shamba SMS alerts are very important platforms for sharing agricultural information. Our farmers need to register with Shamba shape-up.
	AAIN	Most youths in Mombasa are engaged in drug abuse and other anti-social behaviors. Integrating them into Agriculture through AAIN will benefit the youth groups.
	AGRA	Using tips on agronomic practices crop insurance facilities and how to reach last mile small-holder farmers is key for Mombasa County.
	Solar-powered boreholes for Irrigation Nyandarua County	Inadequate rainfall patterns in Mombasa has been a problem for decades, therefore, sinking boreholes for small scale irrigation especially solar powered.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	Climate issues and solutions to climate change affects most counties, coming up with innovative ways to find solutions to climate change like climate smart technology solves the problem.

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MURANG'A	Sweet Potato value addition and Co-operatives- Bomet County	Raw materials available after production of 30 million sweet potato vines.
	One acre Fund	Avails affordable inputs to farmers as well as boost extra service provision.
	Rearing of Mangoes and production of mango juice-Makueni County	Raw materials are available but normally have high post-harvest losses.
	eJijipay platform for electronic payment Nairobi County	Improved revenue collection and accountability.
NAIROBI		
NAKURU	We Farm	Many farmers have no smart phones Quick dissemination of relevant information necessary due to many diseases and pests.
	Eco-Agribusiness (value addition of fruits into jam and pulp)	We have a big number of youths who need to be engaged in useful work. Youth have interest in agribusiness.
	AAIN Attracting Youth to Agriculture	High unemployment among the Youths Current average age of farmers is 60 years.
	County Health-care Plan-Makueni County	Most people cannot afford health services and the NHIF coverage is very low.
NANDI	Using Digital video for effective Agriculture in Ethiopia	Seeing is believing; hence videos convince the farmers to adopt new technologies.
	eJijipay platform -Nairobi County	Increase in revenue collection and drop in corruption.
	Skilling and employment among Youths in India	High unemployment rates among the youths. Lack of the necessary skills to enable youth to work in tea, sugar, and milk processing industries in Nandi.
	Mediae	Inadequate extension workers. ICT attracts youth to participate in Agriculture. Reaches a higher number of farmers.
	Sweet Potato value addition and Co-operatives Bomet County	Lack of market and exploitation of farmers by middlemen mostly for maize and milk. Lower prices during maize harvest season. Post-harvest losses.
NAROK		
NYAMIRA		
NYANDARUA	County Health-care Plan- Makueni County	Primary Health care is important.
	One home One cow story- Murang'a County	Nyandarua does well in dairy farming It is feasible all over the County.

COUNTY	INNOVATION INTERESTS	REASON
	Indigenous Poultry Farming Makueni County	The project has already begun with some incubators for youth groups. The County Government has set aside funds for more incubators.
	Transforming Land - Transforming people in Rwanda	Soil fertility management.
	Using Digital video for effective Agriculture in Ethiopia	Use of digital video for effective extension.
	KINGS BIOFUELS	Use of waste saw dust.
		Dairy farming and the availability of raw materials for planting of fodder is common in Nyandarua.
NYERI	Mediae	Agriculture is the backbone of the County's economy and youths have expressed interest in Agriculture. There are areas where there is not Internet access but SMSs work.
	AAIN Attracting Youth to Agriculture	High rate of unemployment in the Counties. Vast tracts of Land in Nyeri. Fertile soil in the County.
	KINGS BIOFUELS	Destruction of ecosystem. Availability of waste that can be converted to biofuel e.g. Sawdust and coffee husks.
SAMBURU	Solid waste Management Landfill-Kiambu County	Waste is recycled and utilized thus avoiding wastage.
	eJijipay -Nairobi County	Enhances revenue collection; More revenue is collected.
	Village Industrial power	Plenty of raw materials for business development. Safety and enhanced nutrition. Affordable.
	Farmers Pride (provides farmers with quality farm inputs at affordable prices)	Can reach agro-dealers and quality input linkages. Capacity building.
	County Health-care Plan - Makueni County	Eases accessibility, affordability, efficiency and effectiveness of the healthcare system.
SIAYA	Contract Farming of Sorghum by Farmers with EABL-Tharaka Nithi	Does very well in all parts of Siaya County. Can easily been done by Youth and Women.
	Safi Organics	Inorganic fertilizers no longer result in good yields; soil acidity level is up. Farm and crop produce is readily available. Creation of jobs for many youths. Reduced cost of production for people.

COUNTY	INNOVATION INTERESTS	REASON
	AAIN Attracting Youth to Agriculture	To create jobs for the youth. To increase scale of production thus reduced food insecurity. Keeps the youths busy and empowered.
	Eco-Agribusiness	Most youths don't own land. Environmental conservation. Both rural and urban agriculture.
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	To create new jobs for the youths from the innovation. Cushion farmers from climatic shocks Food security sustainability. Income sustainability.
TAITA TAVETA	Contract Farming of Sorghum by Farmers with EABL - Tharaka Nithi	A way to adapt or mitigate climate change.
	Skilling and employment among Youths in India	The single biggest challenge in Taita Taveta is youth unemployment empowering youths with skills in building construction, driving, computer skills, auto mechanics etc. will help curb this situation.
	AAIN Attracting Youth to Agriculture	Majority of the youths are unemployed and can get jobs in the banana value chain project.
	eJijipay platform-Nairobi County	The County requires this to automate its troubled payment system.
TANA RIVER	Fodder establishment Project-Murang'a County	Utilize irrigation to grow fodder for dry times. Tana River has vast grazing land that dries up during dry season. The need to conserve animal feed for dry season.
	Rearing of Mangoes and production of mango juice - Makueni County	Tana River produces 21000 tons of Mangoes and about 50% goes to waste value addition is the way out.
	AAIN Attracting Youth to Agriculture	An increased number of youths dropping out of school are idle and may join clandestine groups.
	Using Digital video for effective Agriculture in Ethiopia	Video attracts the youth and old alike. By using this media we could reach more people and enlighten them on the benefits.
	Solar-powered boreholes for Irrigation Nyandarua County	Water from shallow wells along the river Tana Basin can be extracted using solar pumps for irrigation.
THARAKA NITHI	Nyangororo Banana Processors	Banana Value addition.
	Contract Farming of Sorghum by Farmers with EABL-Tharaka Nithi	excess sorghum after production is sold by EABL.
	AAIN Attracting Youth to Agriculture	Youth empowerment and entrepreneurship.
	AGRA	Green gram processing- with production on the rise, packaging and branding will increase the prices.

COUNTY	INNOVATION INTERESTS	REASON
	eJijipay platform -Nairobi County	Automation of revenue collection to replace the current manual system of revenue collection.
TRANS-NZOIA	Eco- Mandate	Most vegetables go to waste or are sold at low prices during high supply periods hence value addition through drying increases the value of the produce.
	eJijipay platform-Nairobi County	The innovation will improve revenue collection, reduce corruption and work at the convenience of the customer.
	Mediae	The innovation accelerates agricultural development through private extension services delivery to complement county government extension service.
	Azuri Health (value addition for fruits)	The innovation will provide value addition to the bananas that are currently in high production.
	Village Industrial power (a biomass fueled, combined heat and power solution)	The innovation will go a long way in addressing high post-harvest losses in maize which is a major value chain addition and will lead to growth of cottage industries.
TURKANA	Skilling and employment among youths in India	High levels of unemployed youth who cannot afford education may be trained and given skills for self-employment
	Using Digital video for effective Agriculture in Ethiopia	Increased use of media can help attract the youth to agriculture
UASIN GISHU	County Health-care Plan- Makueni County	To offer better access to Medical attention and better management at the convenience of the patient.
	Sweet Potato value addition and Co-operatives- Bomet County	To add value to the increased production of Irish sweet potatoes.
	Mediae	To bridge the knowledge sharing gap.
	AAIN Attracting Youth to Agriculture	To engage the unemployed youth in gainful employment in Agriculture.
	Solid waste Management Landfill Kiambu County	To solve solid waste management challenges. To utilize the organic waste in Agriculture.
VIHIGA		
WAJIR		
WEST POKOT	Eco- Mandate	West Pokot has enough sunshine and this would reduce the deforestation that is going on.

COUNTY	INNOVATION INTERESTS	REASON
	Kenya Climate Innovation Centre- Harnessing Innovative private sector solutions to climate change	West Pokot has 3 different climatic conditions. With this innovation in place, farmers would be in a position of getting instructions on what they should plant.
	Skilling and employment among Youths in India	West Pokot has 8 youth vocational centres distributed in 4 sub-counties; all these centres have infrastructure in place for skilling of the youth.
	Transforming Land - Transforming people in Rwanda	The terrain in West Pokot and that of Rwanda is similar and there's a lot of degradation so there is need to transform these lands.