Regionally Integrated Initiatives (RIIs)

Transforming Agri-Food Systems in West and Central Africa (TAFS-WCA)

Donor Drop-In Calls, March 9th, 2023.

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Outline

1. Overview
2. Partnership
3. Implementation to date
4. Innovation Business Model Hub (IBM hub)
5. Collaboration with other Initiatives/ synergies
6. Looking forward
Priority Science

With 22 countries
1. WCA Africa has one of the lowest land productivities (high yield-gap)
2. Climate change is creating significant challenges
3. WCA is struggling to produce sufficient food (quality and quantity) for the needs of the region’s growing population

Making food systems more nutritious, safe and resilient to climate change

Promoting digitalized information systems in bundling innovations at landscape level.

Participatory toolset for inclusive landscape management and citizen science for one health

Addressing social barriers to create equality for women and youth doing business in value chains

Taking to scale innovations with proven impact in the region
Work Packages

WP1: Sustainable Intensification and Diversification for Nutritious and Resilient Food Production

WP2: Informed Digital Agriculture for Climate Resilience

WP3: Sustainable and Inclusive Landscape Management

WP4: Youth and Women Entrepreneurship Models

WP5: Accelerating Impact of Investments and Catalyzing Impact at Scale

Innovation Packages and Scaling Readiness (IPSR)
Partner engagement/Sub-grants/ Collaborators

- **Two** partner engagement workshops (West and Central Africa) organized
- **Four New agreements signed with NARS**: AfricaRice-CIP-CORAF; IITA and CRI-Ghana; AfricaRice and CSIR-CRI; AfricaRice and NCRI-Nigeria;
- **Agreements are under negotiation**: CIP and ISABU (Burundi); CIP and INERA (DRC); ABC and ENABEL (Burundi)
- **Operating within existing Partnerships and MoUs**: ABC has an ongoing MoU with ALIGHT (Rwanda); IWMI and IAR (Nigeria); IWMI and UDS (Ghana)
- Partnership with **WUR** on initiative for Sahelian Zone
Key achievements

- 68 outputs in the PRMS
  - 21 Capacity sharing
  - 16 Innovation development
  - 18 Knowledge product
  - 13 Other outputs
- Baseline survey completed in 5 countries in West and Central Africa (Cote d’Ivoire, Ghana, Nigeria, Burundi and Rwanda)
Key achievements

• Examples of capacity sharing out of 21 event

Business models (Demand driven and co-designed)

Consumers
Retailers
Wholesalers
Miller
Processors
Farmers
Services providers
Input suppliers
Consumers

Food system
- RiceAdvice Business model design
- Training on TICKS for scaling readiness

Postharvest
- Rice Postharvest Loss Reduction
- Mycotoxin Control in Cereals
- Sweetpotato Processing Training

Agro practices
- Climate-Smart Agriculture
- Digital agro climate advisories
- Container/sack gardening

Inputs
- Seed processing and propagation
- Simple macro-propagation techniques for banana seed multiplication
- High-quality early generation seed of orange-fleshed sweetpotato
Key achievements

• Examples of Innovations out of 16 Innovation development

Business models (Demand driven and co-designed)

Consumers
Retailers
Wholesalers
Miller
Processors
Farmers
Services providers
Input suppliers
Consumers

Food system

- Customizing Digital AgroClimate Advisory Mobile business

Postharvest

- Technologies to reduce postharvest losses (PICS bag)

Agro practices

- Optimal options to diversify rice farms
- Good agronomic practices for sweetpotato
- Decision support tools for site specific fertilizer recommendation

Inputs

- New biofortified cassava varieties
- Isotope techniques for the selection of climate-resilient varieties
- Biopesticides against vegetable pests

Resilient AgriFood Systems (RAFS)
Other highlights

- Side event on how linking cis to CSA can enable sustainable scaling of innovations to strengthen agrifood systems during the FARA 2022 Biennial Africa CSA Stakeholders Conference; 15 September 2022, Accra
- Meeting of One CGIAR representatives and Initiative leads/focal points in Nigeria-12 October 2022
- Dialogue on the CGIAR 2030 Research and Innovation strategy in Rwanda – 10 Nov. 2022
- One CGIAR WCA Updates and Consultative Workshop, 13-14 December 2022, Accra, Ghana
- Participation to COP27, Sharm El-Sheikh, Egypt, 7 November 2022
- Workshop with WUR on Center of Excellence in the Sahelian Zone, Niamey 15-16 December 2022
Collaboration with other Initiatives/synergies

- **EiA and Sustainable intensification and Digital**
  - WP 1 and 2

- **SeEdQUAL**
  - WP 1 and 5
  - Quality seed for delivering genetic gains in farmers’ fields

- **Ukama Ustawi**
  - WP 1, 3, 4 and 5
  - Diversification for resilient agri-food systems

- **HER+**
  - WP 4
  - Gender and Social Equality for Resilience in Agrifood Systems

- **TAFS-WCA**
  - Sustainable Intensification and Climate Change Adaptation
Innovation business model hubs

Research for development

WP 1: Demand, Seed Diversification & Intensifications

WP 2: Digital agro-advisory for climate adaptation

WP 3: Landscape management

WP 4: Women & Youth Entrepreneurship

WP 5: Catalyzing impact at scale

Output and Results

Business models (Demand driven and co-designed)

Consumers

Retailers

Wholesalers

Miller

Processors

Farmers

Services providers

Input suppliers

Consumers

Development

Policy maker

NGOs

Regional Organization

Government

Private sector

Actor organization
Innovation Business Model hubs (IBM hub)

✓ A methodological framework and case study of the IMB hub approach published in 2022

An extended Canvas business model: A tool for sustainable technology transfer and adoption

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ABSTRACT

The rise of new agricultural technologies represents an opportunity for agricultural development, especially to achieve the 2030 Sustainable Development Goals. However, farmers in developing countries struggle with adopting new agricultural technologies due to several socio-economic factors. This study proposes a service-based business model for sustainable technology transfer and scaling of new technologies to increase household resilience. The business model is divided into two segments: (i) cost-benefit and (ii) sustainability analysis was added to the original Canvas business model. We used two innovative technologies: a personalized extension application and a rice threshing machine to apply the business model. Quantitative data from 700 randomly selected rice farmers in Kano State, and qualitative data collected using the Delphi method were used. The adapted Canvas business model is profitable when both technologies are used separately, with an Internal Rate of Return (IRR) of 23% and 28% for the threshing machine and the application, respectively. However, higher profitability is observed when both technologies are combined in one business model. In this case, the business has an IRR of 33%. Moreover, the study showed that the combined business model is vulnerable to the service prices. Therefore, we recommend re-evaluating the business model to determine a fair price and payment method for both the service recipient and the provider.
Way forward

- **Review and Planning Meeting** – (April 3-7 or 10-14)
- **Baseline survey** ongoing in 2 countries in Central Africa
- Develop **Women and Youth Innovation Business model Hub**
- Testing of **business models** to increase entrepreneurship for youth and women
- Evaluation of different early generation seed technologies for **scaling readiness**
- Follow-up of teams participating in **Innovator Workshops**
- **Co-design sustainable catchment** land use plans and practices that are embedded in relevant local and/or national governance systems
Strengthening partnership and collaboration

- Partnership with bilateral projects (AICCRA, HealthyDiet4Africa)
- Possibility to collaborate with regional organizations especially CORAF, ECOWAS and ECCAS
- Partnership with regional programs such as the West Africa Food System Resilience Program (FSRP) and TAAT (2nd phase)
- Possibility of extension to Sahelian zone in collaboration with WUR
Thank You!