Impacts of agri-food value chains mapping to FNS/agribusiness

Name of Presenter: Giacomo Branca

Partner: Tuscia University (Italy)





Outline

- 1. Objectives
- 2. Methodology and data
- 3. VC mapping
- 4. Key results
- 5. Lessons learned for practice & policy implications

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Dairy products in Rwanda

The Value Chains (VCs)

- Cereal-legumes & Brachiaria-dairy
- Case studies in Project countries







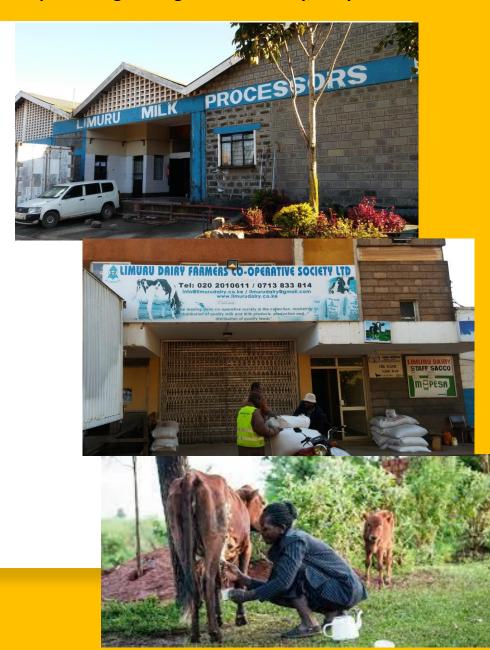
1. Objectives

- ▶ Describe & map the VCs → actors, marketing links & price margins
- ► Identify SAI adoption constraints and drivers @ farm level [and upstream & downstream along the VC]
- ► Estimate economic profitability of potential VC investments (on-farm & off-farm)

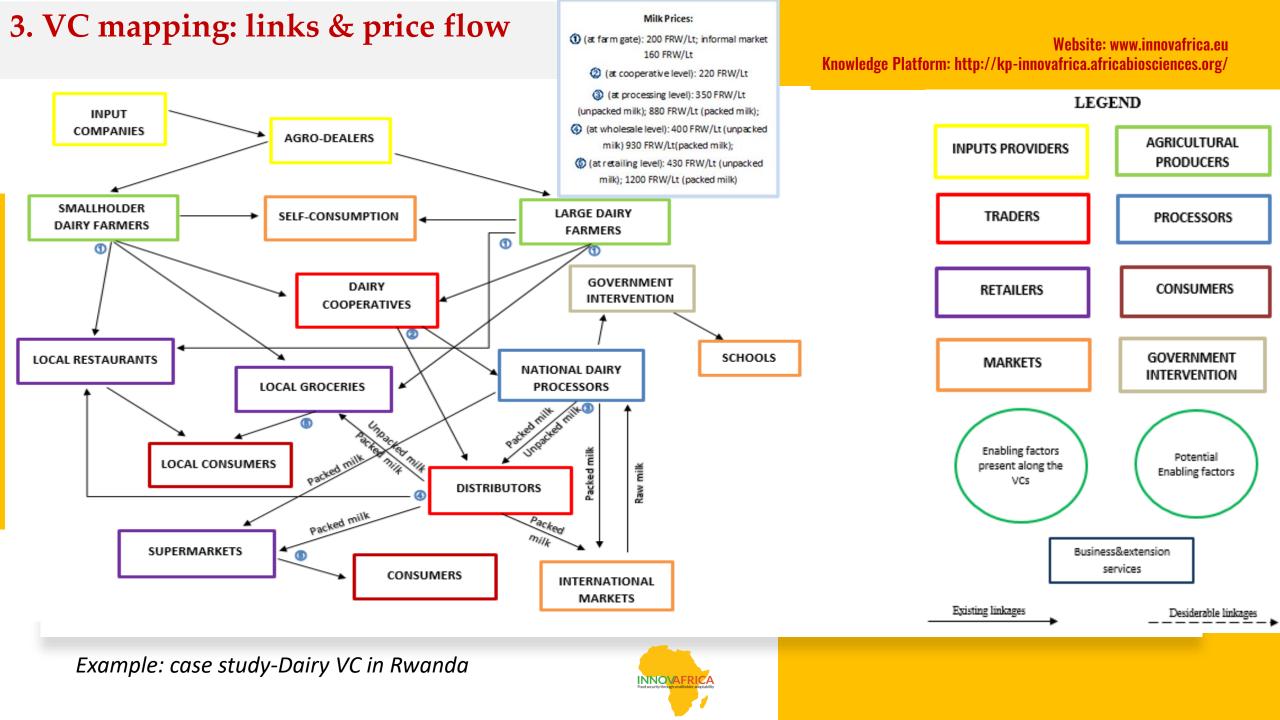
2. Methodology and data

- ► Mapping exercise to identify actors & marketing links (field investigation and key informant interviews)
- ► Financial analysis: activity models to estimate on- and offfarm investments profitability (*MAPs and key informant interviews*)
- ► Econometric analysis: models to study the SAI adoption mechanisms and driving/constraining factors (*HH survey dataset*)

Milk production, marketing (cooperative) and processing in Kangundo Subcounty, Kenya

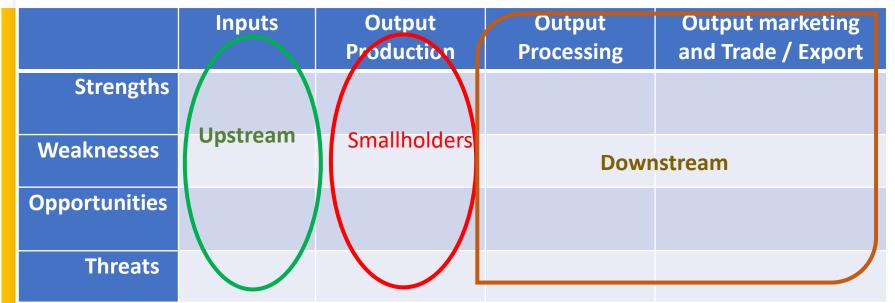






3. VC mapping: SWOT Analysis

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A processor in Harrismith, South Africa

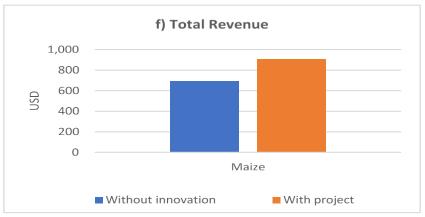


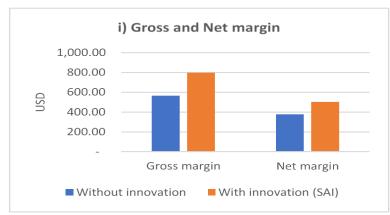
Milk processing in Kangundo Subcounty, Kenya



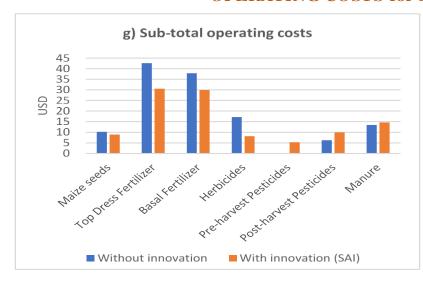
4. Key Results @ smallholder farm level (SAI adopters)

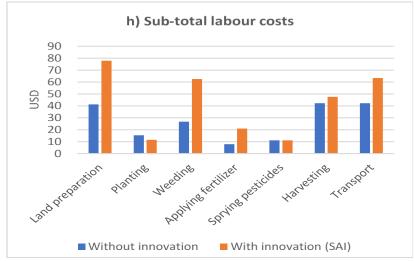
MAIZE





OPERATING COSTS for MAIZE PRODUCTION





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Maize fields in Kwa-Kwa, South Africa

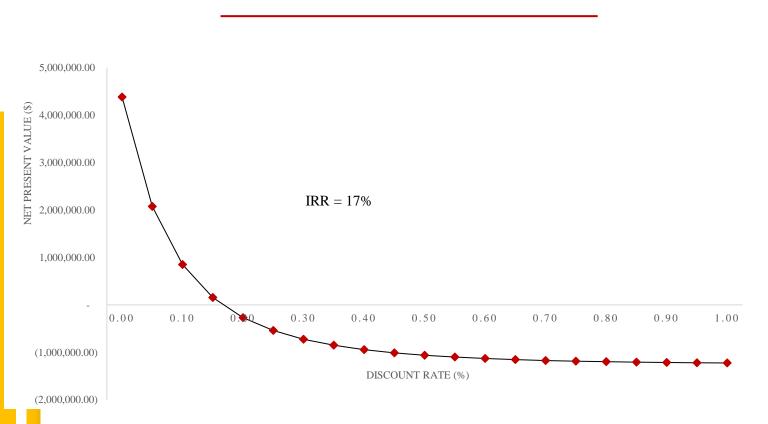


Brachiaria fields in Kirehe District, Rwanda



4. Key Results @ upstream & downstream level

NPV DISCOUNT RATE CURVE





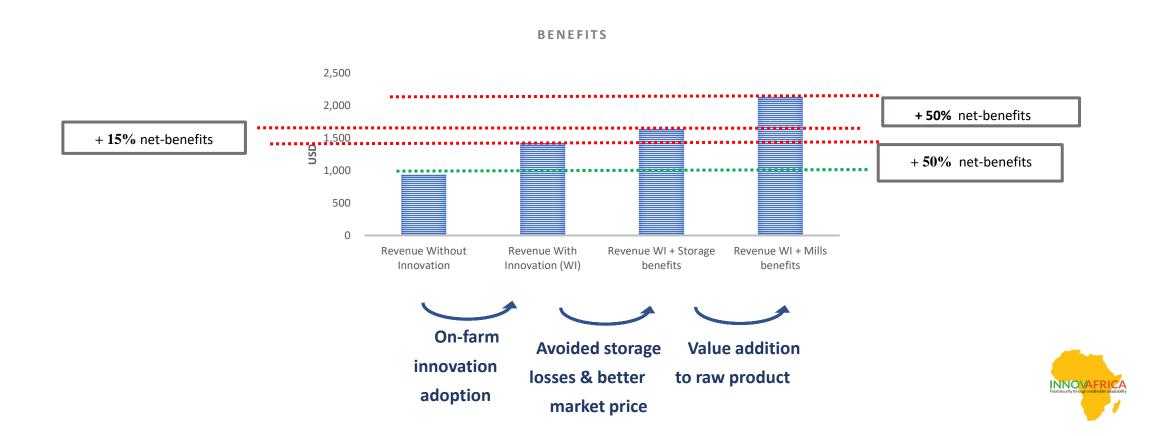
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Traders in Dedza, Malawi



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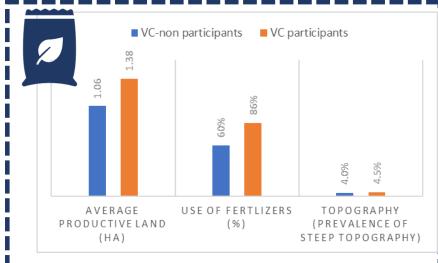


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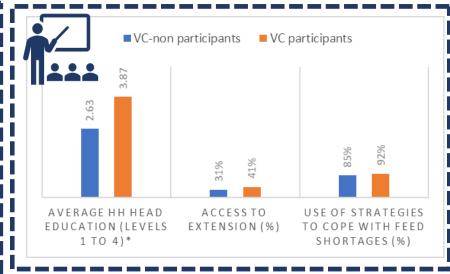
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Asset endowments in Kenya

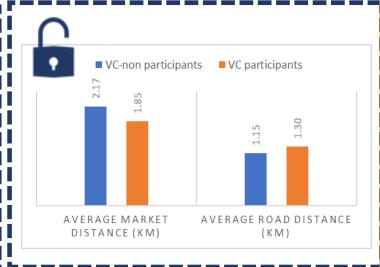
Natural Capital



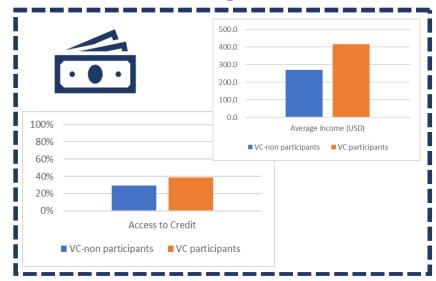
Human Capital



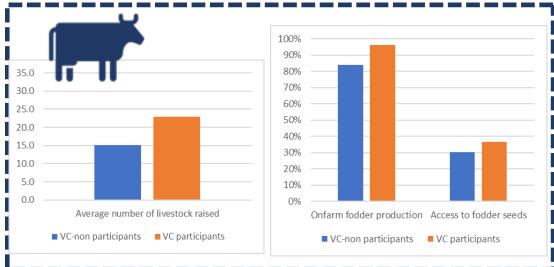
Enabling environment



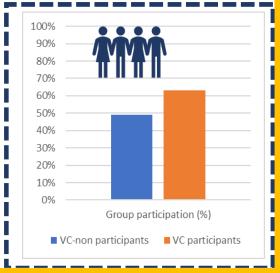
Financial Capital



Physical Capital



Social capital

























































Journal of Cleaner Production



'Clearing the air': common drivers of climate-smart smallholder food production in Eastern and Southern Africa

ARTICLEINFO



Africa, i progetti di innovazione agricola in Kenya, Etiopia, Ruanda, Malawi, Tanzania e Sud Africa

Dal 2017 l'università degli Studi della Tuscia con il Laboratorio di Economia dei Sistemi Agro-Alimentari Sostenibili



Deliverable 4.1: Identify key agri-food VC pathways

Deliverable 4.1

Promoting sustainable change of smallholders' agriculture in Africa: conomic and institutional perspectives from a cross-country comparison

Giacomo Branca, Luca Carchiarelli, and Alexandro Somentino: Department of Economics Engineering, Society and Business (DEIM), Tuscia University, Via del Paradiso 47.

University of Life Sciences (NMBU), P.O. Box 5003, N-1432 Aus. Norway



Deliverable 4.2: Strategies to upgrade value chains through the acquisition of technical, institutional, and market know-how developed jointly with MAPs

Deliverable 4.2

the European's Union H2020 research

WP5 leader: NMBU Task leader and prepared by: TU Other partners involved: HU, KALRO, UoM, SFHC, RAB, SUA, ARC Objectives: i) To identify the expected effects of mapped agricultural policies given the institutions environment and the local (physical, technical, environmental, administrative) barriers, ii) to map institution and their weight in promoting the adoption of innovative sustainable agriculture intensification (SAI) practices; iii) to estimate the role played by the extension and advisory services (EAS) and the policy context in innovation adoption.

Introduction

Deliverable No.: 5.2 A technical brief with a Venn diagram

A.A. 2019 2424

in innovation adoption and value chain participation

Valentina D'Amico

Thesh supervisor Prof. Giacomo Branca

abusted in follower of the requirement for the degree of decine at the Toucin

Organization, within the XXXIII ductoral program in Economics, Management, and

A comprehensive plan for investments,

market infrastructure, capacity and agri-

business model prepared for selected products

in each case country

Deliverable 4.3

concepts, modelling and challenges

Diverse rural livelihoods in

Eastern Africa farming systems:

Increasing smallholders' productivity is expected to enhance food security in Africa. A paradigm shift towards sustainable agricultural intensification and innovation is required. Creating an enabling institutions environment will accelerate agricultural change. This task looks at the role played by institutions and policie in supporting the development of SAI systems by small-scale farmers in the cereal-legume and investock

Step 1: producing intervention logic diagrams to identify national/local general/sectoral policies governmental private/pluralistic institutions and farm-/value chain-level barriers in the implementation of stainable agricultural intensification systems

assess their weight and their sectoral/intersectoral links.

Step 3: conducting econometric analysis to estimate the effect of households' socio-economic characteris extension services, policy context, value chain organization on the on-farm probability to adopt the sustainable agricultural practices

Pluralistic EAS systems exist in the six countries, with different degree of engagement of private firms, third

In Ethiopia, extension services are mainly provided by government agencies which benefit of relatively high public expenditure and innovation diffusion effectiveness.

In Malawi and Kenya, knowledge dissemination is importantly conducted through private firms, non-

In Rwanda, a relevant role in information dissemination is played by governmental research institutions.

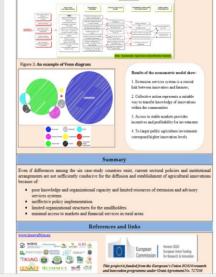
In Tanzania, farmers have relatively higher asset levels and would probably be able to pay for the extension

ervices. There would be space for private sector providing such services.

Policy guidelines/a policy brief to upgrade value chain for smallholders

Deliverable 4.4

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Deliverable No: 4.1 Technical Brief on Key Agricultural Food Value Chain Paths

Lead partner: TU Prepared by: NIBIO

Other partners involved: RAB. BecA. HU. KENAFF, SFHC, IAKIB, SUA & ARC Objective: To identify and map the key local and regional Agri-food value chain pathwa relevant actors and enabling environment and service providers

agricultural Food Value Chain (VC) is defined as "the full range of farms and firms and their succe oordinated value-adding activities that produce particular raw (agricultural) materials and transform tem into particular food products that are sold to final consumers and disposed of after use, in a manner that is profitable throughout, has broad-based benefits for society, and does not permanently deplete





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Why to study Agri-food VC pathways?

gribusiness corporations and private sector lack knowledge of smallholder sector as a market for their ucts/services and as potential suppliers for their inputs. Addressing this missing link between nallholder fammers and other key VC actors through vertical and horizontal integration is vatal for concurie growth. It also enhances smallholder livelshoods while serving business interest of private suparases. Agar-food VC chain mapping was carried out in 6 countries of Innov-Africa Project (Table 1).

ne Chain	Ethiopia	Kenya	Malawi	Rwanda	Tanzania	South-Africa
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lets-Legume	-		1		*	
chiaria forage 10		1	-	1	2.	



Viterbo - Il docente Giacomo Branca: "Questo è un progetto con l'Africa e L'università della Tuscia in sei paesi dell'Africa con "InnovAfrica"

Condividi la notizia

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A technical brief with a Venn diagram

Deliverable 5.2

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