



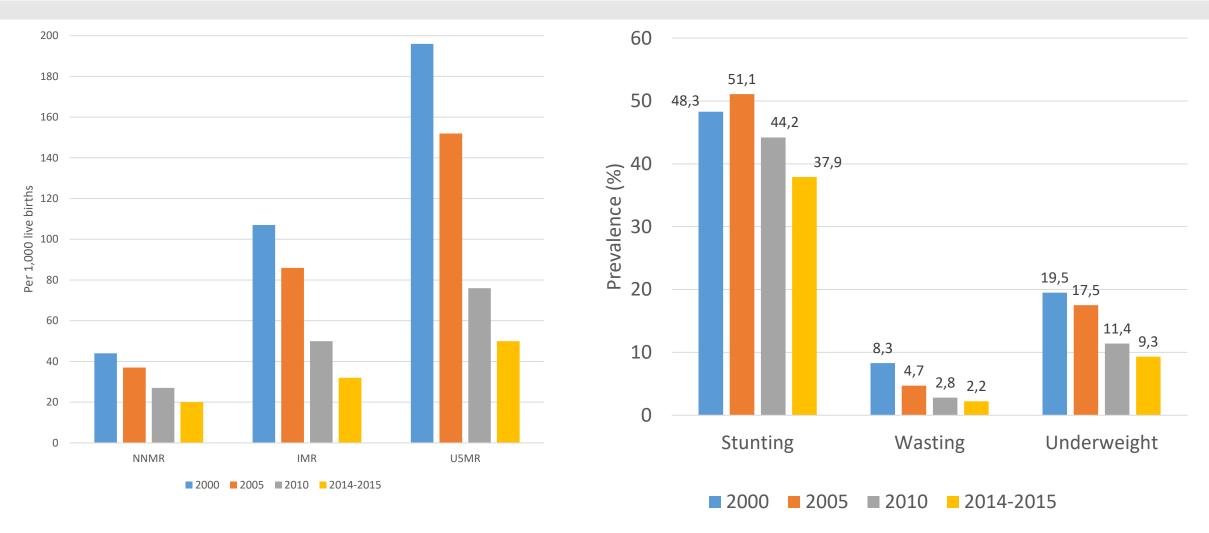
Food security, stunting, and sustainable irrigated agriculture - Rwanda case study



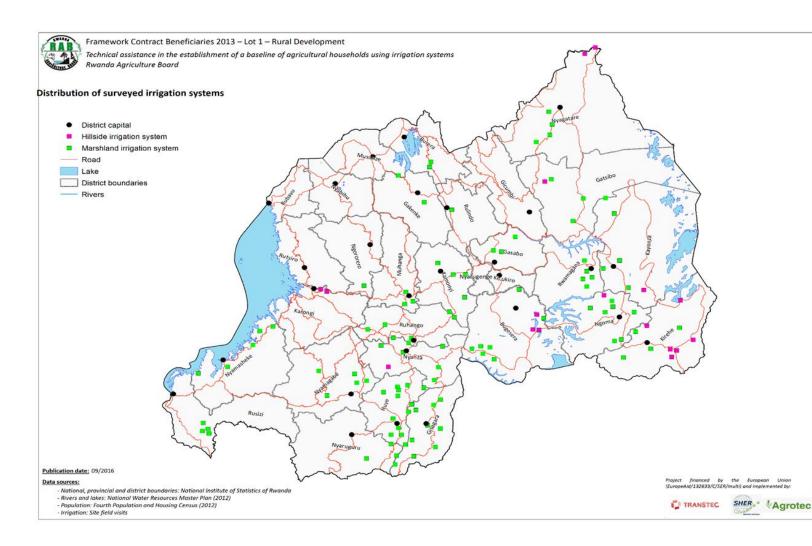
Aimee Mpambara

August 29,2018

RWANDA HAS MADE EXCELLENT PROGRESS ON <5 MORTALITY AND ACUTE MALNUTRITION (WASTING), BUT PROGRESS ON STUNTING REMAINS MODEST



Irrigation in Rwanda



- 589,711 ha of irrigation potential
- 48,508 ha irrigated (7.5 percent of potential)
- Cost of irrigation has been the main constraint to irrigation development



Challenges to irrigation development in Rwanda

- High cost of irrigation
- Small and fragmented private lands
- Inadequate capacity within public and private sector
- Lack of irrigation culture within communities
- Undeveloped and inefficient marketing chains
- Low performance of existing irrigation infrastructures
- Water inefficiency in irrigation systems





Proposed solutions to the challenges

- Small scale irrigation supported by government
- Land consolidation
- Capacity building for farmers groups, private sector and extension agents
- Improvement of existing irrigation infrastructures for better water efficiency





Nutrition in irrigation projects

- Peer learning : nutrition messaging and education provided in the self help groups
- Access to nutritious food : kitchen gardens, horticulture development, fish farming in dams,



 Nutrition through increased income : horticulture and market access



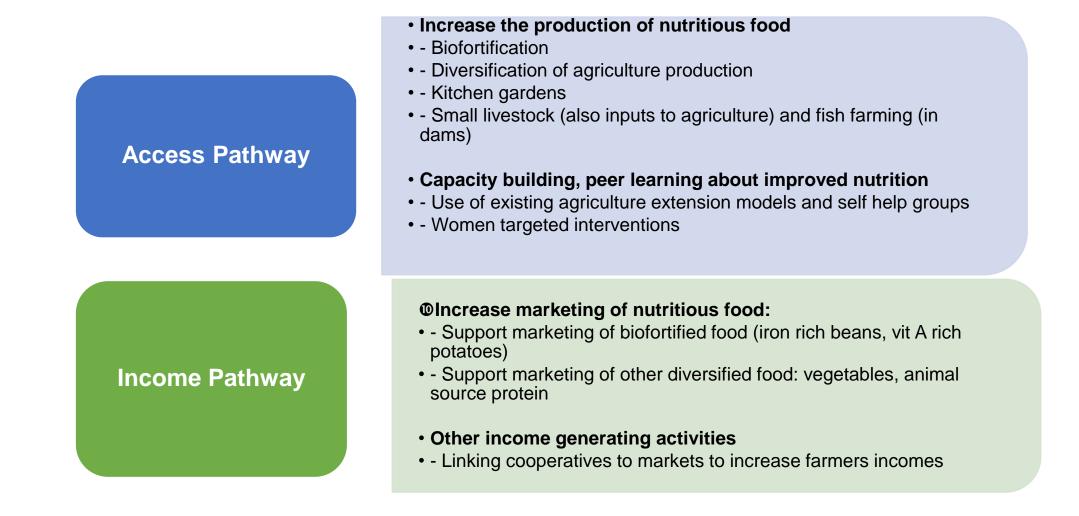
THEORY OF CHANGE FOR AN INTEGRATED PROGRAM

Impact	Reduced Stunting			
Outcomes	Improved coveragEnhanced access t		caring, feeding and hygic ransfers and other nutri	ene practices tion-sensitive interventions
Inputs/ Interventions	 HNP PROJECT: Community and household level prevention & management Effective delivery of high impact health & nutrition interventions by health facilities Innovations and knowledge sharing 	 SP PROJECT: Expansion of cash transfers Gender and child sensitive public works to vulnerable HHs Targeted behavior change and ECD interventions 	WATER AMD SANITATION: Inform BCC interventions to be included in SP and HNP projects Support key stakeholders to mobilize MININFRA for water supply investments	 AGRICULTURE PROJECTS: Support improvements in household food security and dietary diversity through biofortification, labor saving technologies, and promotion of micro-nutrient enriched foods Explore possibility of piloting the food security and nutrition component in districts to be targeted through HNP operation

Guiding Principles

- **D** Enhance use of data for geographic targeting and tracking beneficiaries
- **G** Focus on high stunting districts and on vulnerable and poor households
- Leverage successful programs (VUP, CHW, PBF)
- Learning by doing approach

Agriculture contribution to the Stunting Reduction Program



Key considerations

- Collaboration with other sectors is key
- Bring farmers on board early enough
- Listen to farmers, understand them, and adapt



