

National Initiatives for food security and Nutrition: Case **Studies**

CAADP implementation in Rwanda: Initiatives, Successes, Lessons learnt and challenges

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Place of Agriculture in the National Economy

- 31% of Rwanda's GDP
- 70% of exports
- Employment 80% of population
- Provides 90% national food needs



Investments in the sector - guided by 2nd Strategic Plan for Agricultural Transformation

- •Institutional strengthening
- Policy and regulatory framework
- Agricultural statistics and ICT
- M&E systems
- Decentralisation

1.
Intensificatio
n and
development
of sustainable
production
systems

- •Natural resources, water and soil conservation
- •Crops and livestock development
- Marshland development
- •Irrigation development
- •Supply & use of ag. inputs
- Food security management

4. Institutional development

Poverty
Reduction and
Food Security

PSTA II

2. Support to the professionalis ation of the producers

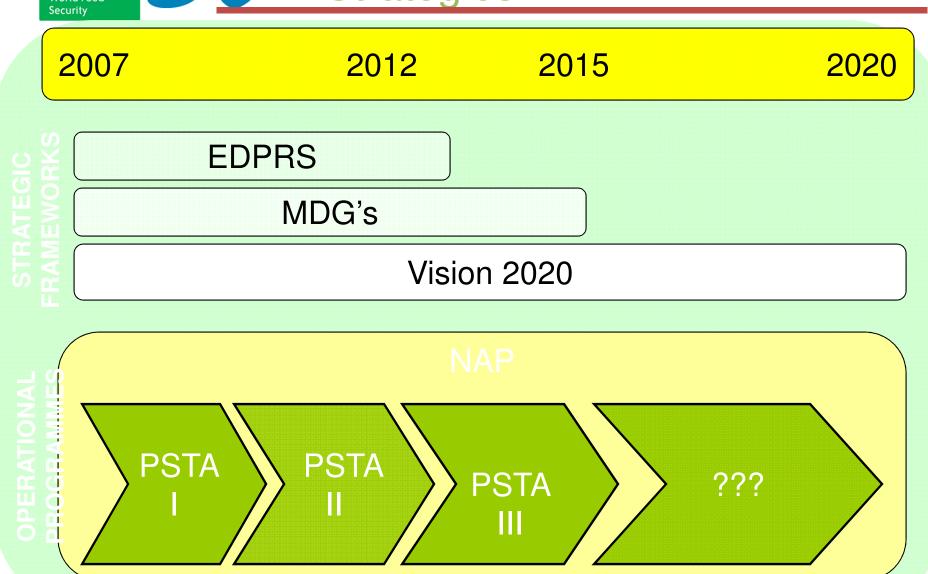
- •Creating an enabling environment
- •Development of traditional and non traditional exports
- Value addition
- Infrastructure
- Rural finance

3. Promotion of commodity chains and agribusiness development

- Promotion of farmers' organisations and capacity building for producers
- Proximity services for producers (extension)
- Research



CAADP Alignment with GoR Strategies



Rwanda's agriculture sector faces a set of unique challenges

- Need to generate higher incomes for poor farmers on small plots of land
- Control soil erosion and reverse soil fertility loss
- 2/3 of the country is on steep slopes-Increase land available for cultivation
- Reduce dependency on rainfed Agriculturefor sustainability
- Weak capacity base: infrastructure and skills
- Absence of a string private sector for farm services, marketing and inputs
- Weak/absence of an extension system









Crop Intensification

- Land Consolidation
- Fertilizer access
- Seeds access

Erosion Control

- Terracing
- Agro-forestry

Resource Use

- Irrigation
- Water Harvesting

Targeting nutrition

- One cow per poor family
- Small ruminants
- Kitchen garden

Building Skills and Market Development

- Participatory Extension Services
- Research
- Domestic and Export Market Dev



Key elements of the crop intensification program

Land consolidation 25,000 ha (06)550,000ha (10) (2.8%-61%)

- Small holder farming
- Efficiency of Access and distribution of input
- Smallholder access to extension services
- Increased opportunity for credit access
- Increased marketing power
- Potential for increase in mechanization





Crops by Agro ecologies- A Rwandan Green revolution











Fertilizer access has been improved through market-based subsidies

GoR bulk imports & smart transport subsidies ensure availability

Private sector capacity-building: auction and distribution

network

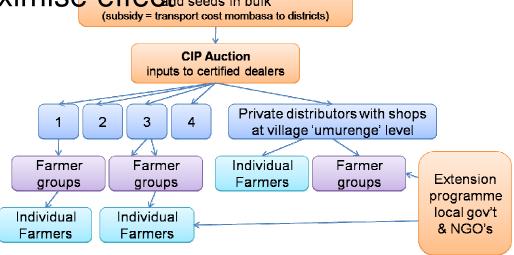
Voucher system to ensure access

Results
Land consolidation to maximise effected seeds in bulk

 Fertilizer use in target districts increased from 4 kg to 19.9 kg /ha

 Households using fertilizer increased from 25 to 44%

Plans for 65% in 2010



East African
Commercial Input
Suppliers



Creating demand, even among the poorest farmers

- Drought resistance and Hybrid seed access
 - Conditional upon fertilizer purchases
 - Maximizing effect of fertilizer subsidies

Developing local seed production

- Ensuring sanitary & phyto-sanitary standards
- Providing incentives, e.g. subsidised loans
- Making research & technology







80% of Land protected against erosion



- Radical Terracing
- Progressive Terracing
- Agro-Forestry



Restoring Soil Fertility

- Livestock Ownership for Organic fertilizer
- Inorganic Fertilizer





On target for protecting 100% of arable land by 2014

Nutritional security and income improved through livestock ownership and productivity

One cow per poor family

- 90,000 cows distributed
- More than half contributed by farmers

Small Ruminants

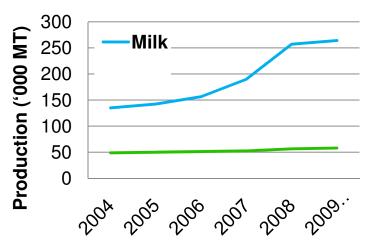
- · Goats, Sheep, Piggery
- Poultry Extensive vaccination campaign
- Control of major disease

School feeding and kitchen gardens in the most vulnerable

- One cup of milk
- Cows at schools and school gardens
- Kitchen Gardens



Milk & Meat Production





LWH project - the underlying causes of the food crisis

Without LWH

- Land is acidic, impoverished in fertility, poorly holding moisture, and is dry in dry months,
- Soil, moisture and agricultural inputs are washed downhill by gravity and flood

With LWH

- Soil fertility is replenished and moisture holding capacity is improved
- Slope is corrected and Soil erosion is controlled
- Land productivity is improved and maintained.

Key challenge – steep landscape



Taming the hills for food security and Erosion Control Security





Production on terraced land: Security agriculture and environmental protection





Production increases are several times higher





Outcomes and Impact: Key indicators o track

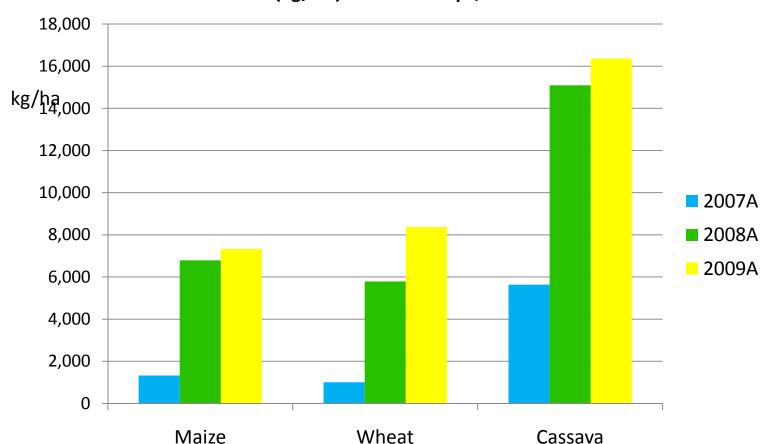
Real growth	2000	Actual June 2010	Rwanda's Vision 2020
Agric GDP %	- (0.7 in 2007)	8.8	6
Agriculture as % of GDP	45	33.8	33
Fertiliser application (kg/ha/annum)	0.5	19.9	15
Soil erosion protection (% total land)	20	80.9	90
Land under "modernised" agric (%)	3	18%	50

Outcomes and Impact: CFS Committee on World Food Outcomes and Impact: A property of the committee on World Food Outcomes and Impact:

Security

Yields in CIP areas have increased between 2 and 4-fold

Yields (kg/Ha) for Food Crops, 2007-2009

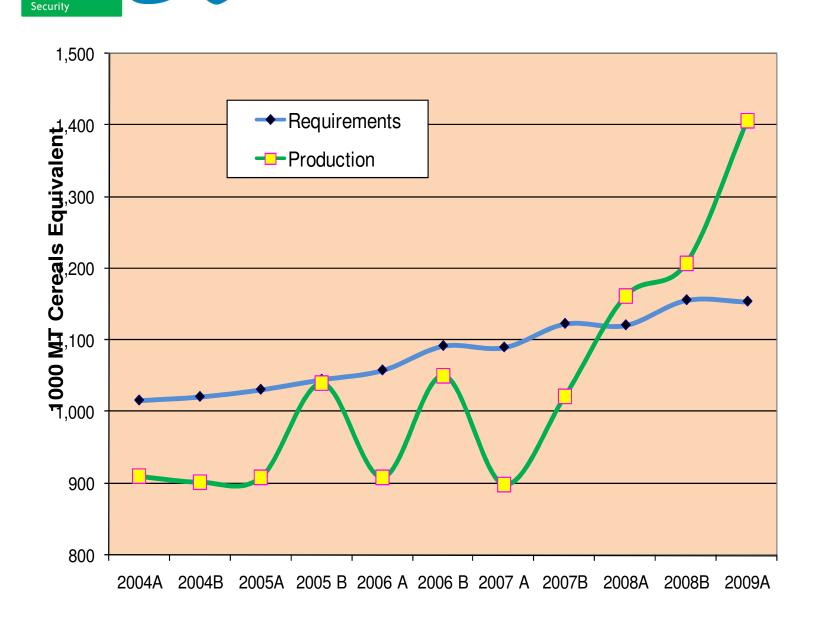




61% increase in maize production through use of improved seed and



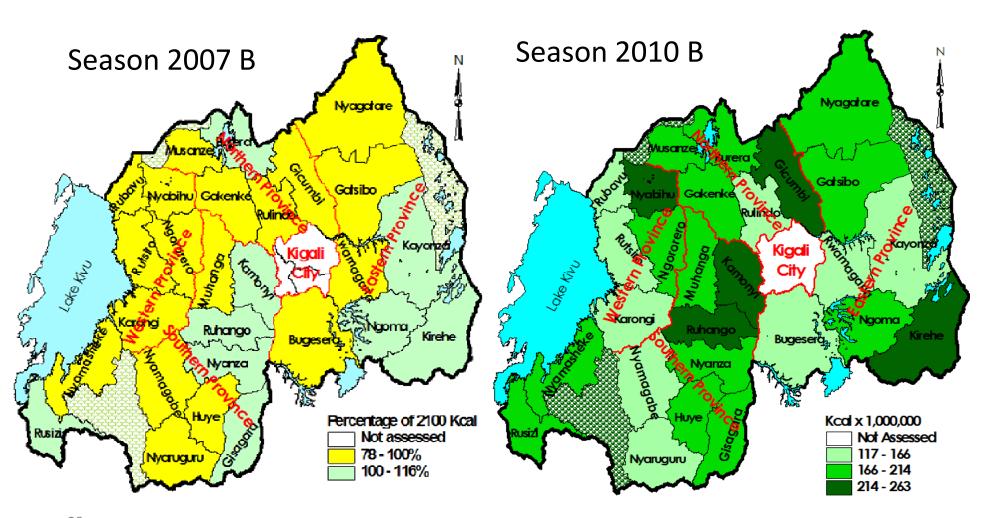
Outcomes and Impact: Food consumption higher than production



Outcomes and Impact: Positive food balance free of aid and imports

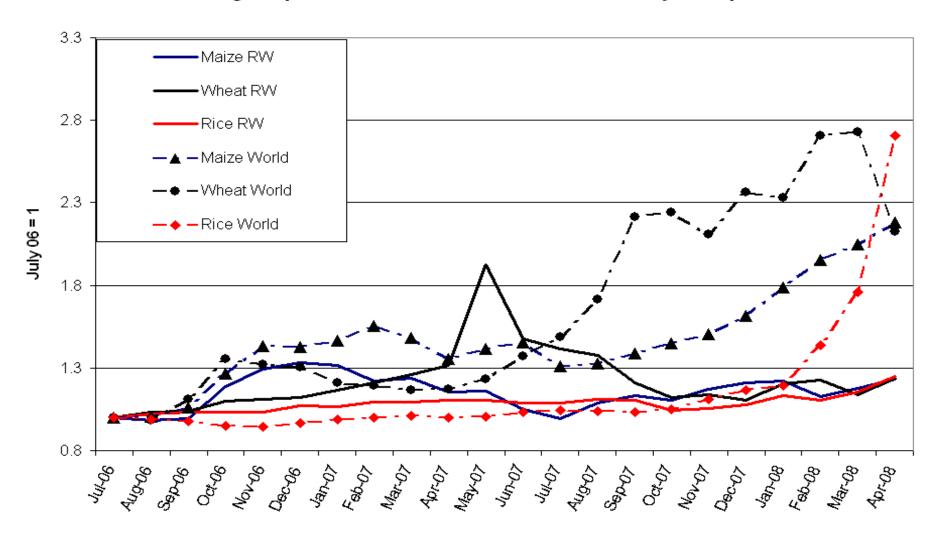
Food Balance sheet	2008B	2009В
1. AVAILABILITY = 2 + 3	1,104	1,387
2. Production	1,208	1,532
3. Losses (-20%)	-181	-230
4.NEEDS = National Consumption	1156	1,190
5. Balance/Deficit =1 - 5	-52	197
6. Imports (estimated)	103	N.A
7. Food Aid	36	N.A
8. TOTAL	-52	197

Outcomes and Impact: Food security at the Hhold level



Outcomes and Impact: Mitigating the impact of the global food crisis

Index of grain prices in Rwanda and world markets, July 06 - April 08



Key Successes: 1) Food security and a smiling farmer



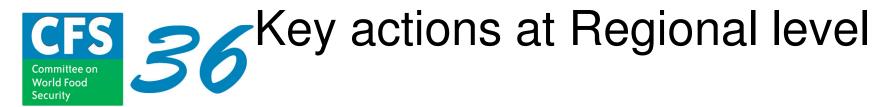
- 2) High Returns on Investment:
- 1\$US in Agric = 3.19\$US GDP
- Staples highest returns: 1\$US = 3.84\$US GDP



Actions to be Improved: Increasing efficiency and sustainability of key initiatives

Rwanda: Rwanda and her partners

- Irrigation: Increasing Area for Irrigation 2010-2017 = 63,000 ha (e..g. **Asian success**)
- Mechanization
- Improved seed Varieties
- Better fertilizer Access and Improved technologies
- Invest in a National seed Industry
- Invest in post harvest systems including strategic reserves
- Invest in value addition
- Increase access to agric financing and crop insurance



Commitment to achieve the CAADP growth and budgetary objectives

- Agriculture-led growth of 6%
- Increased public investment (10% budget share)
- Achieve FOOD AND NUTRITION SECURITY (MDG1)

Commitment to peer review and accountability processes

that would allow for transparency,

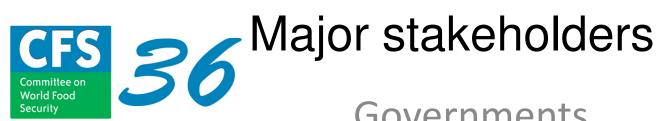
sharing of lessons and experience with all stakeholders and other member states

Strengthening the CAADP process

- Investment plans and Peer review
 - Improving advocacy
 - Better coordination of all actors
 - Increased Financing

Lessons from Rwanda: OWNERSHIP

- Build on strong national and political ownership
- •Bringing the development partners on board to support the Government owned and led agenda
 - Commitment to Maputo declaration



Governments Development partners AU/NEPAD **COMESA**

Civil society and Private sector



More Recently:

- GAFSP
- CFS