



LEAVING NO ONE BEHIND: EVALUATION for 2030

2019 National Evaluation Capacities Conference

AN EVALUATION ON FOOD FORTIFICATION ON STUNTING

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Bio-Fortified Crop



Outline of Presentation

- Evolution of Evaluation in Zimbabwe
- Case study on food fortification on stunting
- Background to case study
- Hypothesis
- Methodology
- Findings
- Summary of findings
- Recommendations







Evolution of Evaluation in the Public Sector in Zimbabwe





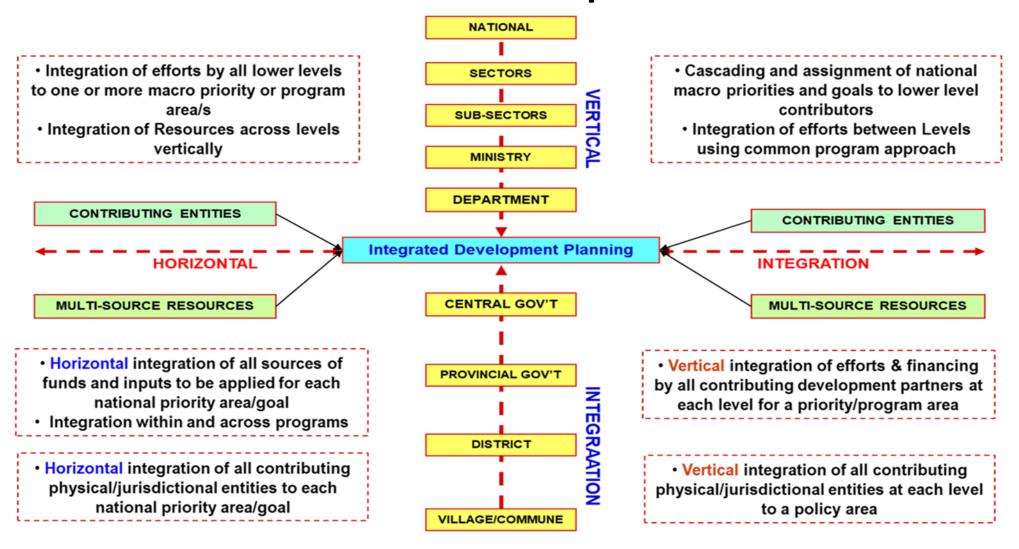
Evolution of Evaluation cont'd

- During the Pre Evaluation there was no defined structures of evaluation.
- During 2005, more focus was on Monitoring, although M&E structures had been introduced.
- Evaluation then was silent as it was donor funded and Government did not have control of it as it came with "pre set conditions "attached thereto.
- In 2015 IRBM was introduced with the component of IRBM&E. Currently, the Government is using an approach called Internalized Self Evaluation (ISE) through the HoVer Principle that focuses on programs not activities which is inclusive. Government has ownership of the ISE method.
- In this regard, technical committees have been set to validate the approach and methodology.
- The above diagram is an example of country driven approach as it uses the **zero defect approach** and continuous improvement by focusing more on internal evaluation so is to achieve the country's Vision and Agenda 2030.





HoVer Principle





Case Study on Food Fortification on Stunting

- The multitude of stunting (anthropometric indicator, height-forage z-score, HAZ<2 standard deviations) below the WHO International Growth Reference in under 5 children poses an persistent threat to child development in Zimbabwe.
- Stunting in under 5 children reduced from 33% in 2010 to 26.% in 2018.
- This is still above the acceptable range by WHO standards. We are still in the medium range and more work has to be done.
- Low micronutrient density and poor protein quality in cereal based diets availed to under 5 children has been identified amongst the dominant causes of stunting in Zimbabwe.





Background to Case Study

- In June 2017, the Zimbabwean Government made it mandatory for major local food manufacturers to fortify processed staple foods with micronutrients.
- In 2016, Zimbabwean Government promoted three bio fortified food crops, namely orange maize (Vitamin A), sugar beans (Zinc and Iron), and quality protein maize.



Sugar



Cooking oil



Mealie meal



Wheat meal

Hypothesis

H1: Female headed households are more likely to adopt food fortification than their male counterparts.

H2: Household adoption of food fortification reduces the proportion of stunted children in that household.

H3: Female headed households that adopt fortification are more able to reduce the proportion of stunted children in their households than their male counterparts.



Methodology



- The data comprised of a sample of 25,297 households with at least one under 5 child.
- Sample households were randomly drawn from the sampling frame of the 2012 National Census so that they were representative of the national population of households with under 5 children.



Findings

Type of Food	Proxy of Food Fortification Adoption	Femo	ale [F]	Mal	e [M]	Difference
Fortification						in means
		Mean	SD	Mean	SD	_ [F – M]
	Observations # (%)	7,017	(27.7%)	18,280	(72.3%)	
	Ever heard about Fortified foods [1 if Yes, 0 if No]	0.112	0.316	0.123	0.328	-0.010**
Mandatory	Able to identify fortified foods on the market [1 if Yes, 0 if No]	0.105	0.306	0.118	0.322	-0.013***
	Purchased any fortified food product in the past 30 days [1 if Yes, 0 if No]	0.152	0.359	0.179	0.384	-0.027***
Supplementation	Fed child (6 – 23 months) meals with micronutrient powders in the past 30					1
	days [1 if Yes, 0 if No]	0.046	0.209	0.049	0.216	-0.003
Biofortification	Ever heard about Bio fortified Crops [1 if Yes, 0 if No]	0.045	0.207	0.056	0.229	-0.011***
						'



Findings cont'd

		Ho	Difference		
		Total	Female (F)	Male (M)	(F-M)
Household adopted food fortification:	Yes (Y)	0.253	0.242	0.252	-0.015
	No (N)	0.294	0.302	0.290	0.012*
Difference in means	(Y-N)	-0.040***	-0.060***	-0.033***	-0.027



Findings cont'd

Type of Fortification	Proxy of Food Fortification Adoption	
	Ever heard about Fortified foods [1 if Yes, 0 if No]	-0.0469 ***
		(0.011324)
	Able to identify fortified foods on the market [1 if Yes, 0 if No]	-0.0208**
Industrial Fortification:		(0.009955)
	Purchased any fortified food product in the past 30 days [1 if Yes, 0 if	-0.0333***
	No]	
		(0.011683)
	Fed child (6 – 23 months) meals with micronutrient powders in the	-0.0273*
Supplementation:	past 30 days [1 if Yes, 0 if No]	
		(0.018255)
Biofortification:	Ever heard about Bio fortified Crops [1 if Yes, 0 if No]	-0.0356**
biolorinication.		(0.017038)



Summary of Findings

- Firstly, we found statistically weak evidence that female headed households were more likely to adopt food fortification than their male counterparts.
- Secondly, food fortification reduced the proportion of stunted children in the household.
- Finally, in comparison to non-adopters, female headed households that adopt food fortification were more able to reduce the proportion of stunted children in their households than their male counterparts.







Summary of Findings

- Women, children and people living with disability and the poor are often relegated to the after thought in all development activities.
- This expose' shows that if we include the marginalized thus: children are taken care of by the women, the same women then take care of people living with disability.
- This only shows that we leave no one behind.
- Zimbabwe launched the Zimbabwe National Food Fortification
 Strategy 2014—2018. The strategy, will serve as a guide at both policy and implementation levels to prevent micronutrient deficiencies.
- The Strategy was developed to address the micronutrient deficiency burden in the country as revealed by the 2012 Zimbabwe Micronutrient Survey.



Recommendations

- These results highlight the need for policy makers to actively promote food fortification, as it is likely to contribute to the reduction of stunting and develop Pro-poor Strategies.
- To involve men in fortification interventions to improve on their knowledge and appreciation of fortified foods and the associated benefits.
- There is need to raise awareness on the production and consumption of Bio fortified crops (orange maize, quality protein maize and sugar beans) and stimulate consumption.





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Thank You

