

Welcome on behalf of UPL Group

By:

Vijay Sardana Head – Food Security & Agribusinesses

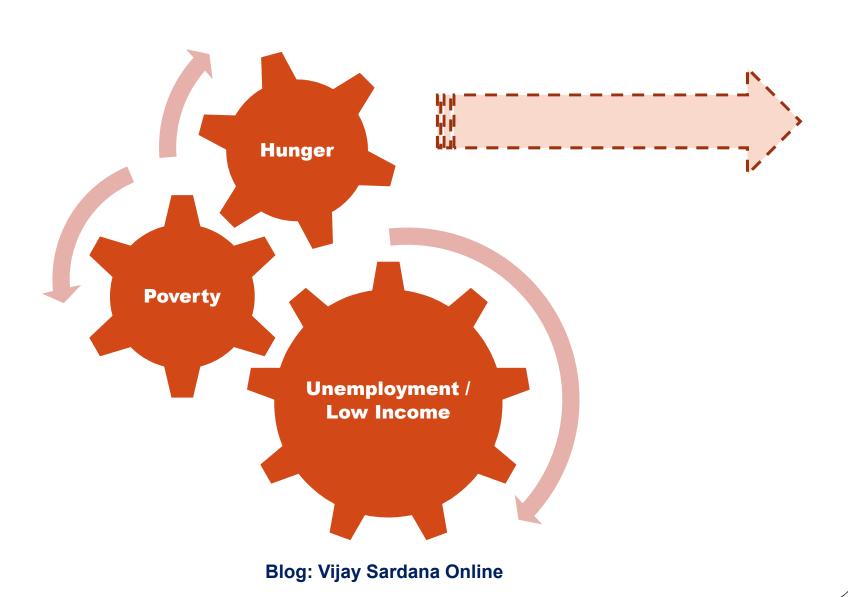


Policies for Enhancing Food Security: Effects on Employment, Livelihood & Food Security

By:

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Learning from Global Experience



Hunger kills more people every year than AIDS, malaria & tuberculosis combined.



How to break this vicious circle?





Let me share facts with you all...

1. How basic technologies can improve productivity in Africa

2. How food losses can be minimized in Africa

How to improve productivity to address Employment, Livelihood and Food Security Challenges?

CROP - RICE

- 1. Hybrid **PAC837** of Advanta vs Local popular variety **Gambiaca**
- 2. No of locations: 1

Hybrid	PAC837	Gambiaca
Company	Advanta	Local variety
No of panicles/hill	26	20
Panicle length (cm)	30	19
No of grains/panicle	140	110
Avg yeild in Kg (25 Sq m)	15.85	12.15
Avg yield (Kg/Ha)	6340	4860
Yield comparison	130%	100%
Yield advantage	30% o	ver check

PAC837 is superior in yield over popular local variety

Gambiaca by 30%

Blog: Vijay Sardana Online

CROP - SORGHUM

- 1. Hybrid **PAC501** of Advanta vs Local popular variety (NAD)
- 2. No of locations: 2

Hybrid	PAC501	NAD
Company	Advanta	Local variety
Plant height (cm)	162.5	
Panicle length (cm)	38.5	22.5
Panicle weight (gm)	230	137.5
Avg yeild in Kg (25 Sq m)	9.75	6.35
Avg yield (Kg/Ha)	3900	2540
Yield comparison	154%	100%
Yield advantage	54% ov	ver check

PAC501 is superior in yield over popular local variety

NAD by 54% Blog: Vijay Sardana Online

CROP - CORN

- 1. Hybrid **PAC740** of Advanta vs Local popular research variety
- 2. No of locations: 1

Hybrid	PAC740	Research Var	
Company	Advanta	Local variety	
Plant height (cm)	185	110	
Cob length (cm)	24	12	
No of grain/cob	480	150	
Avg yeild in Kg (25 Sq m)	18.75	5	
Avg yield (Kg/Ha)	7500	2000	
Yield advantage	275% over check		

PAC740 is superior in yield over popular local research variety by 275% Blog: Vijay Sardana Online

UPDT on Potatoes: Improves Yield by >30%



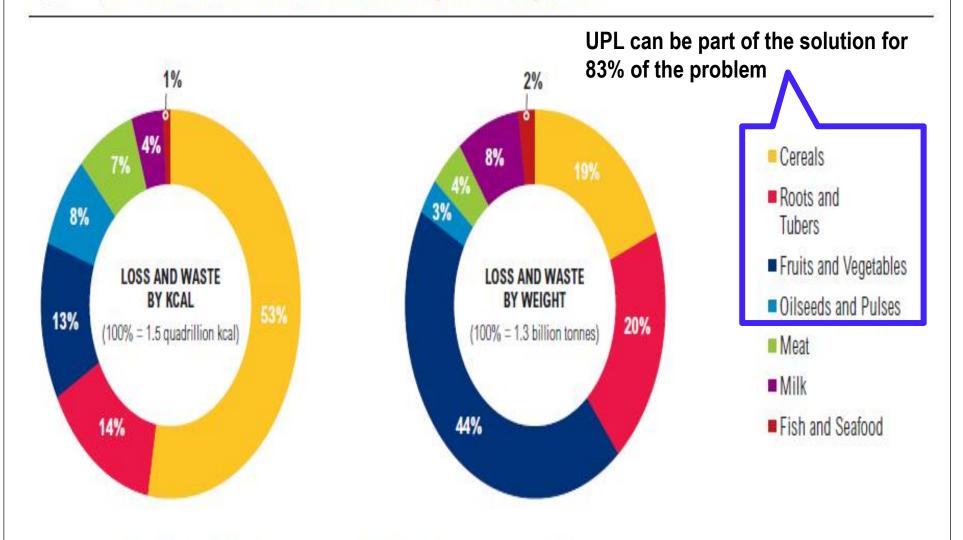
Avg. Wt: 173.6 gms

Avg. Wt: 139.6 gms

Avg. Wt: 70.6 gms

How to minimize food losses to address Employment, Livelihood and Food Security Challenges?

Figure 1 | Share of Global Food Loss and Waste By Commodity, 2009



Source: WRI analysis based on FAO. 2011. Global food losses and food waste—extent, causes and prevention. Rome: UN FAO.

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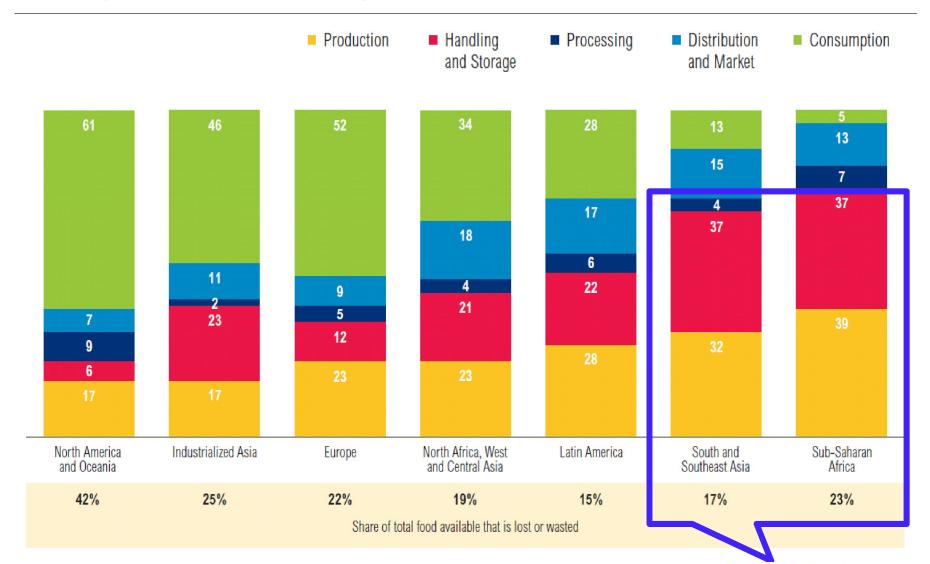
Table 2 | Food Loss and Waste Along the Value Chain

Production	Handling and Storage	Processing and Packaging	Distribution and Market	Consumption
DEFINITION				-
During or immediately after harvesting on he farm	After produce leaves the farm for handling, storage, and transport	During industrial or domestic processing and/ or packaging	During distribution to markets, including losses at wholesale and retail markets	Losses in the home or business of the consumer, including restaurants/caterers
NCLUDES				
Fruits bruised during Dicking or threshing	Edible food eaten by pests	Milk spilled during pas- teurization and processing (e.g., cheese)	Edible produce sorted out due to quality	Edible products sorted out due to quality
Crops sorted out post- narvest for not meeting quality standards	Edible produce degraded by fungus or disease	Edible fruit or grains sorted out as not suitable for processing	Edible products expired before being purchased	Food purchased but not eaten
Crops left behind in fields due to poor mechanical harvesting or sharp drops in prices	Livestock death during transport to slaughter or not accepted for slaughter	Livestock trimming during slaughtering and industrial processing	Edible products spilled or damaged in market	Food cooked but not eaten
Fish discarded during fishing operations	Fish that are spilled or degraded after landing	Fish spilled or damaged during canning/smoking		

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Intervention and Action Zone

Food Lost or Wasted By Region and Stage in Value Chain, 2009 Figure 6 (Percent of kcal lost and wasted)



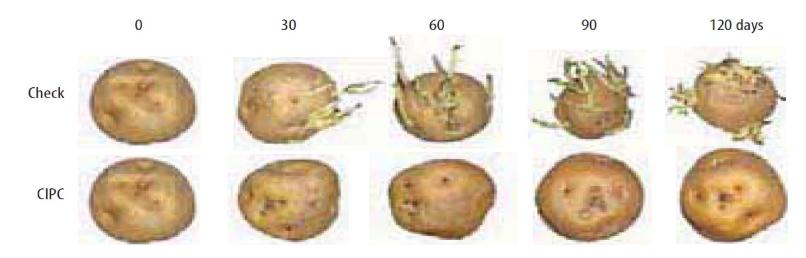
Number may not sum to 100 due to rounding. Brog: Vijay Sardana Online ce: WRI analysis based on FAO. 2011. Global food losses and food waste—extent, causes and prevention. Rome: UN FAO.



UPL Technologies Minimizes Post Harvest Losses & Saves up to 40% Electricity







When World is benefitting from these developments, why Africa is taking time?

Biggest Challenge is "Mindset" & Tendency to "Reinvent the Wheel" & "To show Authority & Power of denial"

In this process, Who is suffering?
African People & African Economy.
Who is Gaining?

Those who are supplying food to your country.

What is the Way Forward?

 Let us decide to review all laws and regulations those are creating time lag and adding transaction cost in development and discouraging investment.

Example: Government of India has decided to repel about 2000 laws, rules and regulations to improve investment and productivity in the Country.

 Have single point agenda – "Open the thought process and Mindset - We have to move ahead and Fast

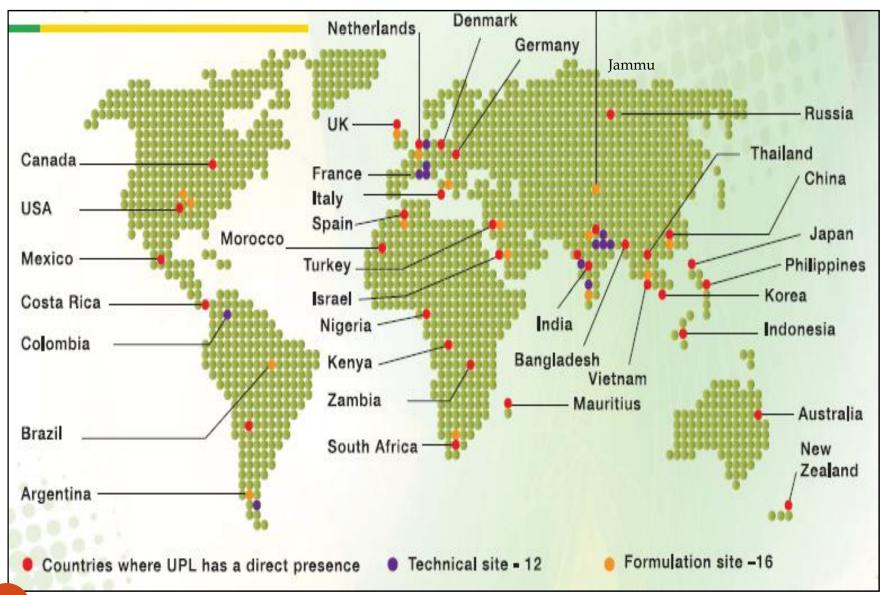
Example: learn from others mistake and move ahead and fast, because hungry people are not interest in 5 year plan and she or he needs answer on yesterday basis.

What we UPL do for you?

UPL MODEL for FOOD and FEED SECURITY



Global Footprint OF UPL GROUP



Sales Presence in more than 120 countries that account for 90% of Worlds Food basket. Manufacturing presence across 28 sites (9 in India and 19 International)

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Upl - Presence Across Value Chain

Biology R&D

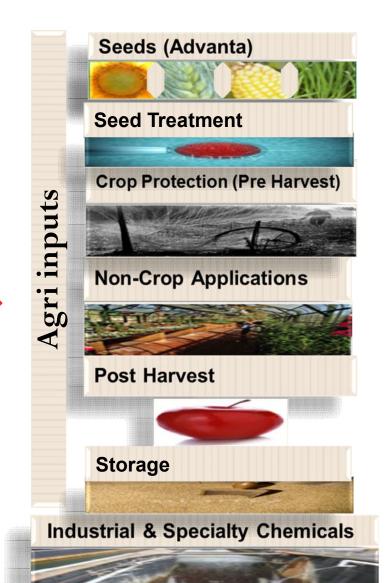
Development - Strong Chemical
Synthesis Capabilities

Registration

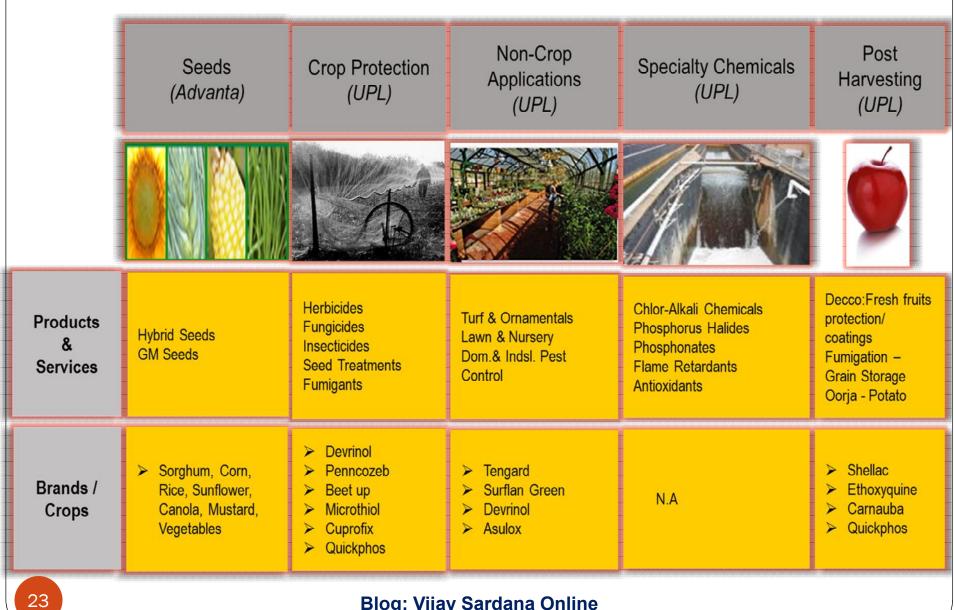
Active Ingredient Manufacturing

Formulation & Packaging

Marketing & Distribution



Presence Across the Value Chain



Adjacent Technologies & Innovations

Seed Treatment

Drought Mitigation Technologies

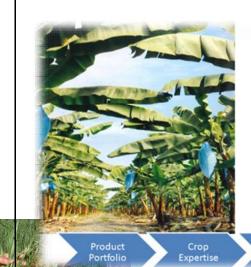
Biological Solutions

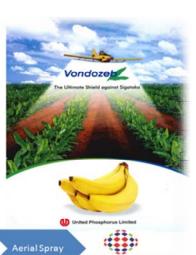
Bio Activators and Adjuvants

Crop Nutrition and Soil Health

Vector Control

Crop Solutions & Services







Some Highlights from the Global Development for Africa

FORAGES



Growing importance of forages in developed and emerging markets – animal productivity under focus - we have traditional strength in sorghum and millet with BMR technology

Investment in markers and breeding programs in Australia, Argentina & USA to bring higher quality products

SORGHUM



Investment in development of sorghum seed.

CORN



Investment in development of Corn seed.

UPL: A GLOBAL Family – with Africa



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Feel free to contact us... vijay.sardana@uniphos.com

Open for Discussion