





ASEAN Food Security Conference:

Role of The Private Sector 16-18 June 2010 Singapore

NEW DIMENSIONS OF FOOD SECURITY & THE ROLE OF THE PRIVATE SECTOR

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OUTLINE:

- 1. INTRODUCTION
- 2. FOOD SECURITY: NEW DIMENSIONS Future Food Systems, Traceability, Regional/Cross-Border Solutions
- 3. THE ROLE OF THE PRIVATE SECTOR
- 4. MOVING FORWARD
- 5. CONCLUSION

INTRODUCTION:

Purpose: Rethinking ASEAN Food Security (with a rice and private sector slant) – in the wake of new dimensions related to Food Security and the Role of the Private Sector so as to (re)position for the future – especially in 'Promoting Conducive Food Market and Trade' (Strategic Thrust 2 of AIFS-SPA)

Underlying theme: Prudent to recognise the new dimensions in Food Security, their interplay and linkages with increasing importance of cross border solutions/investments involving Private Sector and Public-Private Partnership so as to be able to 'get the basics, balance, and functionalism right'.

Key take home message: The private sector should be further encouraged to develop, manage and orchestrate key agri-food supply chains & ASEAN-centric trading networks, including forging intra-ASEAN strategic alliances

FOOD SECURITY

Accepted Definition:

"...When all people, at all times, have physical, social, and economic access to sufficient, safe, and nutritious food that meets their dietary needs and food preferences for an active and healthy life"

Source: FAO, 1996

Traditional Dimensions/Aspects Of Food Security:

- Availability => overall ability of the agricultural system to meet food demand
- Access => by individuals to adequate resources (entitlements) to acquire appropriate foods for a nutritious diet
- Utilization => safety, quality and nutritional aspects of food products
- Stability => individuals at high risk of temporarily or permanently losing their access to the resources needed to consume adequate food

ASIDE: STRATEGIC APPROACH TO FOOD SECURITY

- Some countries, including Malaysia, which have cushioned the impact of previous Food Crises have invariably adopted a pragmatic Strategic Approach which is largely Public Sector driven, linking:
- Food Security (focused on rice basic staple, 'political' crop); and
- Economic Growth (growth with redistribution)
- at both the 'macro' and 'micro' levels.
 - **Macro-level**: leverage policy control over:
 - Sectoral composition of income growth
 - Food prices stabilisation
 - **Micro-level**: rural development
 - Rural education/HRD accessible to poor and females
 - Rural clinics healthcare, family planning
 - Home economics, nutrition education

STRATEGIC APPROACH TO FOOD SECURITY

Strategic Approach comprises 3 components:

- Rapid growth in macro economy;
- Poverty eradication through rural economic growth ('pro-poor' growth); and
- Stability of food system.

Net-result: GOT THE JOB DONE! – though sometimes frown upon by some economists because of 'distortionary', 'efficiency', and cost effectiveness arguments.

2007/08 FOOD CRISIS AND FOOD SECURITY: LESSONS

New Dimensions as compared to earlier Food Crises – Food-Feed-Fuel-Finance conundrum

SHORTAGE? Crisis in many countries not about Shortage, but of Prices. Many instances 'shortage' – due to greed, hoarding, misinformation (i.e. 'man-made') leading to imbalance of supply and demand – Gandhian: 'enough for everyone's need BUT not everyone's greed'!

PRICES? – international prices have retreated from peak to stabilise at new equilibrium but higher than before – End of era of 'cheap food'. And future supply systems more uncertain – requiring innovative approaches at national and regional levels

Importance of management of Supply Chains & Trading Networks in mitigating impact in Turbulent Times – Importance of Private-Public Partnerships - Much depends on how well supply chains and international networks are managed (or mismanaged?).

FOOD CRISIS AND FOOD SECURITY (contd..)

- Country acting alone generally cannot handle, often making situation worse (cross-border externalities)
- BLESSING Opportunity to transform individual countries' Food/Rice Industry strategic investments along supply chain (BUT many cases derailed by subsequent Financial Crisis)
- BUT Need for Vigilance and Monitoring and ability to Respond as a Nation/Region cross-border arrangements getting more important role of Private sector/investment/driver quicker response Adam Smith's 'Invisible Hand'
- While major initiatives are targeted at fixing Supply side, efforts should also focus on conditioning or managing the Demand side as well
- Need to get the Basics & Balance Right

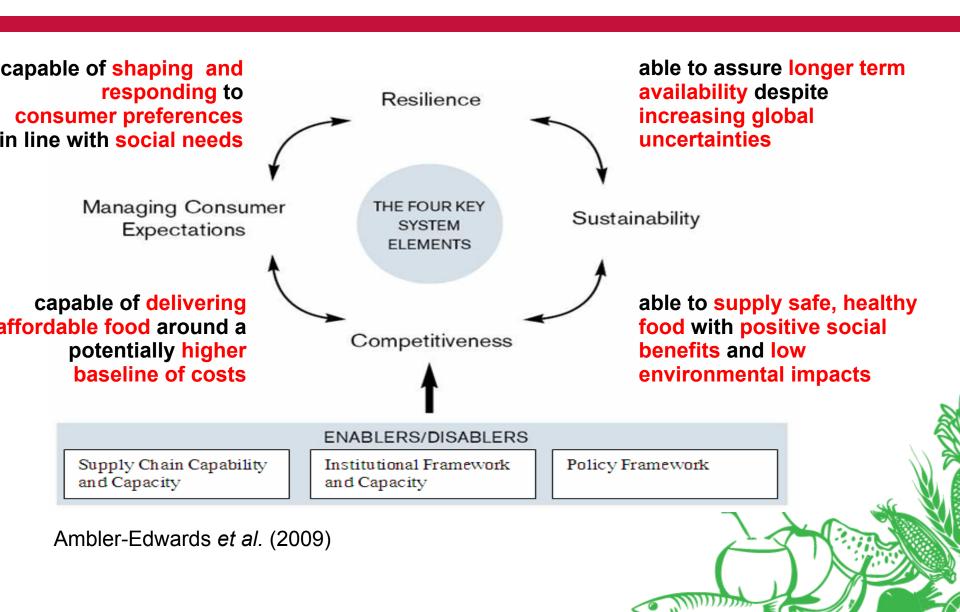
NEW DIMENSIONS: FUTURE FOOD SYSTEMS

Ambler-Edwards et al. (2009) – Chatham House Report - over the next few decades, global food system will come under renewed pressure from combined effects of seven fundamental factors: Population Growth, Nutrition Transition, Energy, Land, Water, Labour, Climate Change.

They further posited that:

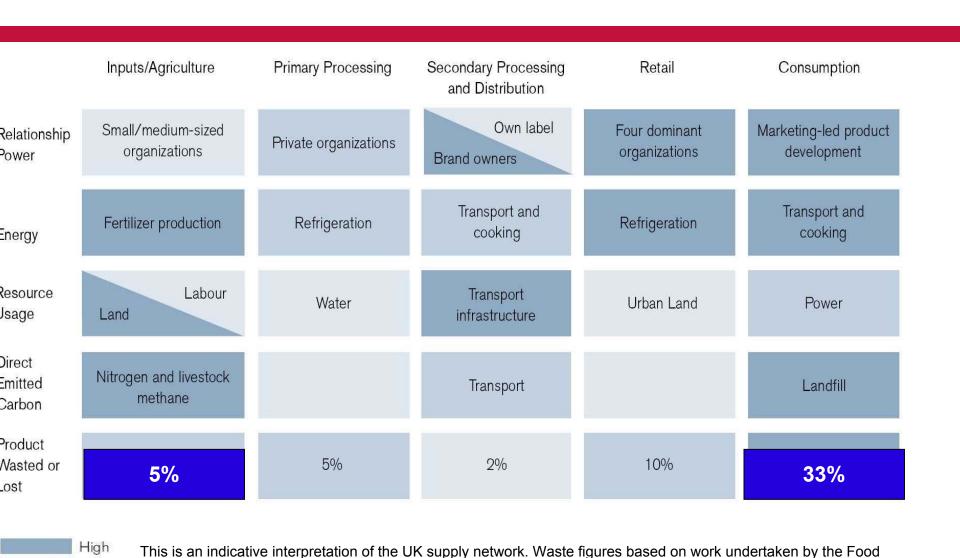
- 'Business as usual' models would at worst fail, at best poor preparation for future scenario;
- Food supply arrangements must operate profitably around significantly higher price norm (reflecting true cost of resources & incorporating wider social and ecological considerations);
 - Supply systems going to be > uncertain and prices > volatile
 - Able to reconcile often conflicting goals of resilience, sustainability and competitiveness while meeting and managing consumer expectations; and
 - **New capacities, policy framework & institutions are cornerstones**

FUTURE SUPPLY SYSTEMS



FOOD SUPPLY SYSTEM: UK

Medium

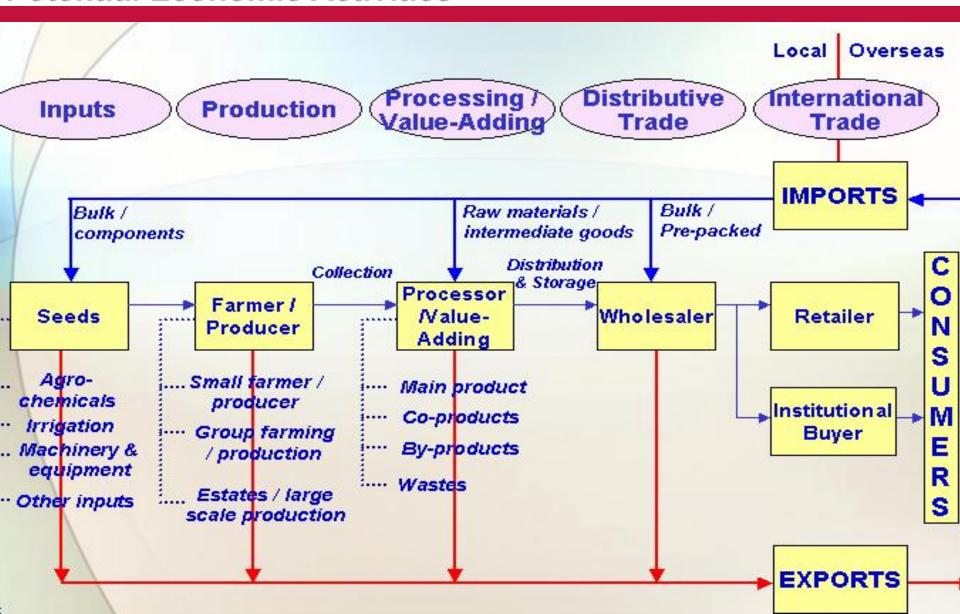


Low consumer waste figures.

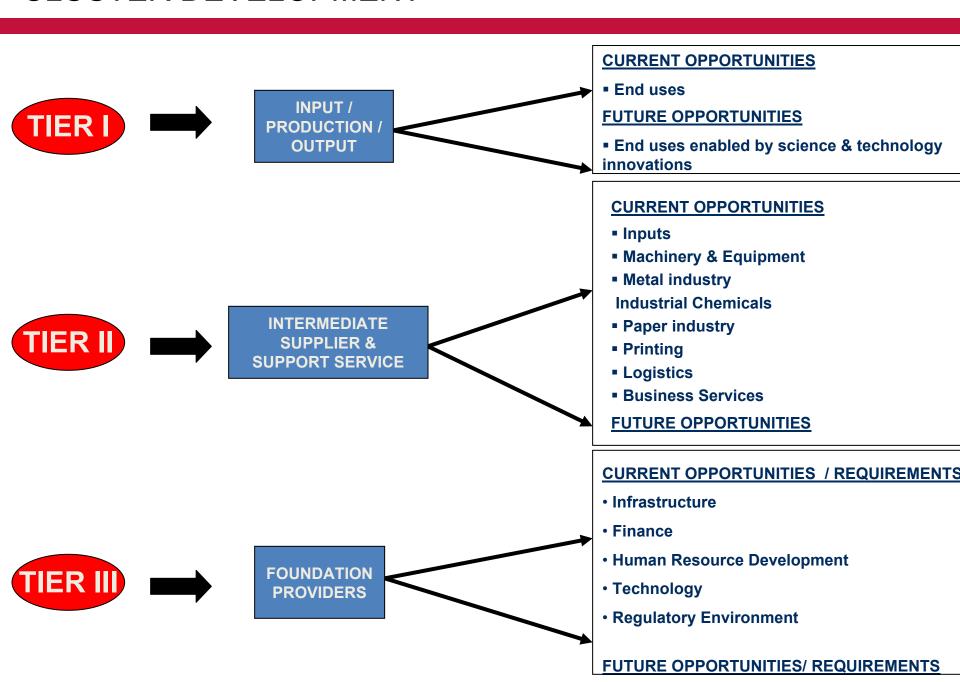
Process innovation Unit at Cardiff University on behalf of the Food Chain Centre. WRAP estimates have been used for

Source: http://www.wrap.org.uk/wrap_corporate/news/food_waste_set_to.html (15.10.08).

Agri-Food Supply Chain – From 'Seed to Shelf': Potential Economic Activities



CLUSTER DEVELOPMENT



NEW DIMENSION IN FOOD SECURITY - TRACEABILITY

A 'new dimension' of Food Security, especially in US, EU and other developed nations – traceability - however, somewhat blurred by concerns over Food- Financial Crises in 2008 – refers to supply protection rather to supply insufficiency – 'that what one eats is safe and traceable' – from 'farm to fork'

Traceability (ISO Definition) – The ability to trace the history, application or location of an entity by means of recorded information

- In the food chain The ability to trace and follow a food, feed, food producing animal or substance through all stages of production and distribution
- -In production systems The ability to trace the history of the product through the supply chain to or from the place and time of production, including the identification of inputs used and production operations undertaken

TRACEABILITY (CONT'D)

- Generally catagorised into fresh produce (fruits, vegetables), grains and oilseeds, and livestock and fish as well as their processed forms
- Heightened after 9/11 and series of food scares BSE, Avain Flu (H5N1), Nipah virus, Foot & Mouth Disease, bio-terrorism, contaminated seafood, pet food more recent Toxic infant formula/milk and biscuits, etc tainted with melamine impact on entire supply chain
- Compliance and beyond business angle (first mover advantage, branding, product differentiation) Adam Smith's 'invisible hand'



NEW DIMENSION: REGIONAL SOLUTIONS/EFFORTS

Recent global food crisis – recognition that food security one of most important cross-border issues where countries acting alone are unable to handle – top priority issue in ASEAN and East Asia (ASEAN+3) levels

- In 14th ASEAN Summit, March 2009, Thailand adopted ASEAN Integrated Food Security Framework (AIFSF) and Strategic Plan of Action on Food Security in the ASEAN Region (SPA-FS)
- In 11th ASEAN+3 Summit, Nov 2007 identified food security issues as the key area where regional cooperation need to be advanced. NEAT Working Group in East Asian Food Security, July 2009 need to build on East Asia Emergency Rice Reserve (EAERR) piloted in 2004 [Japan earmarked 250,000MT of rice, recently China pledged 300,000MT cf ASEAN Emergency Rice Reserve of 87,000MT] and ASEAN Food Security Information System (AFSIS) initiated in 2003 and weave into AIFSF and SPA-FS
- Just completed World Bank/ASEAN/ADB/FAO Study on Enhancing Food Security in ASEAN: Policy Reforms, Private Investment in Food Supply Chains and Cross-Border Trade Facilitation

ASEAN OVERVIEW - 2008

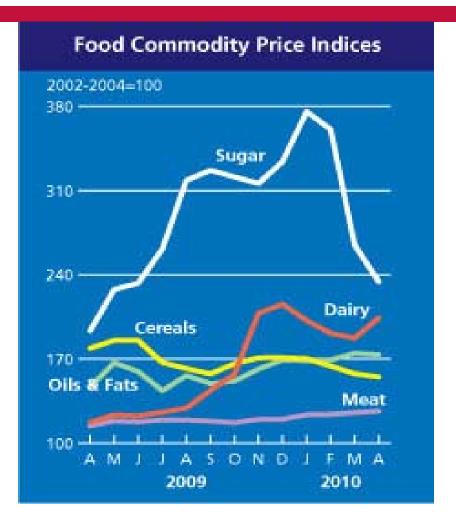
(ASEAN as a production base as well as a market)

	ASEAN	China	India
Population (million)	583.7	1,338.6	1,166.1
Land Area (million km ²)	4.4	9.6	3.3
GDP (US\$ billion)	1,506.2	7.973 trillion	3.297 trillion
GDP Per Capita (US\$)	2,582	6,000	2,900
Exports (US\$ billion)	879.1	1.435 trillion	176.4
Imports (US\$ billion)	831.2	1.074 trillion	305.5
GDP Growth (%)	4.4	9.0	7.4

Source: ASEAN Secretariat & World Fact Book

FAO's FOOD PRICE INDICES By Categories





Source: FAO (2010)

World Bank's Classification – Cereals, Oils & Fats, and Other Food (meat, sugar, breverages, etc)

HE ROLE OF THE PRIVATE SECTOR –Strategic Thrust 2 – owards Promoting Food Market & Trade

- Bello (2005) Ensuring Food Security via ASEAN Integration (focused on rice, maize and wheat)
- Noraini (2007) Food Safety in Southeast Asia Challenges & Response
- Mostly focus on what Governments can and should do.

However:

- 'International Cooperation is far too important to be left to Governments alone' ~ Willy Brandt
- Our Contention: One of the key role of private sector (on it's own or through Public-Private Partnership) is to develop, manage and orchestrate agri-food supply chains & regional trading networks towards promoting Food Market and Trade and ultimately ASEAN Food Security

THE ROLE OF THE PRIVATE SECTOR (Cont'd)

- TNCs active in the region Nestle, Cargill, Tesco, Carrefour regional chains, export platforms, CSR, also CSV ("Creating Shared Value")
- Cross Border Investments ASEAN Business Council (ASEAN Business Advisory Council); Business Angel Network of Southeast Asia (BANSEA); Malaysian South-South Association (MASSA)
- Comprehensive Cross Border Investments along entire supply chain(s)
 - Oil Palm FELDA, Sime Darby, KLK, SinarMas
 - Livestock Charoen Pokphand Group (in Malaysia, Indonesia, Viet Nam, Cambodia, Myanmar – animal feed, layers, broilers, pigs, shrimp); Leong Hup Holdings (in Indonesia, Viet Nam – animal feed, layers and broilers).
 - Initial step is to supply host country's market subsequently integrate sourcing of inputs and marketing on regional basis
 - Rice more sensitive need to stabilize supplies & prices of BOTH
 domestic and international (export/import) market to balance the interests
 of farmers, consumers and regional food security examine examples of
 exporting and importing countries.

RICE : Public-Private Partnership a la Myanmar

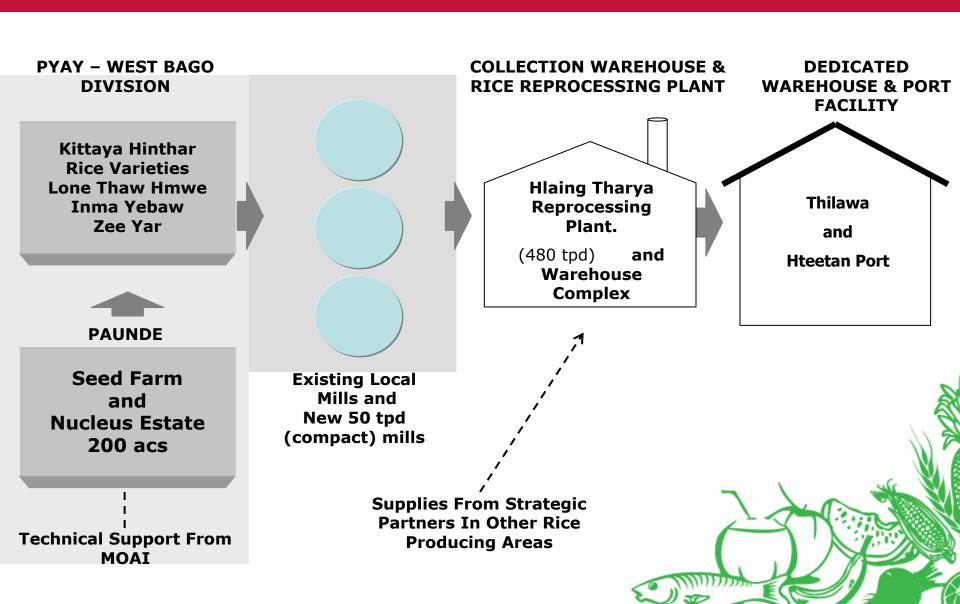
Min Of Agric & Irrigation together with Min Of Commerce initiated this program in 2009-10 rice season

- 1) MOAI provides pure lines for multiplication of good/certified seeds and technology
- 2) MOC provides trade and marketing services

The state encouraged the formation of 27 rice "leading companies" for improvement of rice supply chains – increasing productivity, production, quality, traceability, innovation, and transmission of prices and benefits back to 30,000 farmers and players along supply chain.

The most innovative is Ayeyar Hinthar Group and its subsidiary Kithayar Hinthar formed with 48 local partners in Pyay which galvanizes the upstream activities in Pyay, West Bago.. Provides seasonal loans, credit- in- kind in terms of seeds and chemical inputs, contract farming around its nucleus estate

Ayeyar Hinthar Comprehensive Rice Supply Chain



Components of Comprehensive Rice Supply Chain

- Paddy seeds production of good/certified seeds at Paunde supported by Hmawbe (MOA&I) seed center
- 2. Seed Processing plant (next phase)
- 3. Paddy farmers training center and field laboratory (Applied R&D) planning stage
- 4. Commercial Rice Production
 - 1. Nucleus estate at Paunde and system of out-growers/contract farmers (currently >3,500 acres)
- Milling Upgrading of existing mills around Pyay and construction of reprocessing plant (Hlaing Tharyar) and port facilities (for export) at Yangon
- 6. Branding/quality control Special brands by rice variety for Pilot Project area rice, emphasizing food safety and traceability.
- 7. Balancing Domestic Distributive Trade (to retail outlets and supermarkets) and Exports including forging strategic alliances in domestic and overseas market

FROM RICE SUPPLY CHAIN TO FOOD SUPER HIGHWAY (Rice Importing Country)

SOURCING

 Vertical integration in the sourcing countries through JVs



 Pioneering High Quality Rice farming

& quality by using new technology/innovation

distribution and logistic

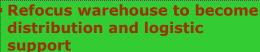
DISTRIBUTION

 Consolidate bus, entities and vertically integrated with logistic and production

MILLING

Improve operational efficiency

WAREHOUSING







Chain

Supply

Managing

-inking





ENGINEERING







REALTY & CONST

LOCAL & INTERNATIONAL

(International Trading Network)

- Commodities Trading
- Backward integration through JVs with relate sources (eg: flour, manufacturer of food, etc

OTHER FOOD



Semi Perishables

Onions, shallots, Garlic, **Dried Chilies, Potatoes, Spices**

Dry Food

• Bread, Flour, Sugar

Processed Food

Wet Food

· Beef, Chicken, Fish

Horizontal Integration

(Food Super Highway)

Forward integration through JVs with food distribution network



(Cluster Development)

MOVING FORWARD

The above account demonstrates what is possible and indeed being implemented at various degrees in different ASEAN countries – to underscore the basic need to engage the private sector – who on their own accord has already positioned themselves to utilize ASEAN as both a production base and market. This can be leveraged to enhance ASEAN Foosecurity.

Simultaneously, other Immediate, mid-term, longer-term efforts should include:

- Supply-side supply response to price, exploit biotechnology & innovation, infrastructure, rationalize/repackage subsidies, encourage public-private partnerships – along entire supply chain
- Demand-side reduce demand (reduce wastage, especially at consum level), consumption, diversify diet supplement with other staples/carbohydrates (e.g. sweet potato) also eat < meat & switch from terrestrial livestock to seafood/aquaculture (more efficient feed conversion ratio)
- Strengthen & orchestrate rice supply chains and international networks

CONCLUSION

- the potential role of the private sector as well as the need to 'get the basics, balance, and functionalism right' between public and private sector (as well as civil society and international agencies) efforts in enhancing ASEAN Food Security and sustainable development
- Relatedly, the increasing private sector efforts in integrating increasingly ASEAN-wide modern farming and modern economic activities along agri-food supply chains and international trading networks could and should be harnessed and leveraged to complement and supplement on-going Government efforts and included in a more holistic multi-sectoral approach to ASEAN Food Security

CONCLUSION (Cont'd):

Therefore, guardedly optimistic ASEAN's ability to harness and exploit opportunities in relation to the new dimensions and dynamic changes in Food Security. The dynamic interplay between the various drivers of development of supply chains and international webs/networks, strategy for future food system s and evolving technology and innovations can and should be harnessed to generate wealth, income and stability and hence ensure food security at the local, national, and regional levels.

"Markets open to Trade, and Minds open to Ideas will be the

final battleground" - Victor Hugo



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