

PHILIPPINE AGRICULTURE AND FISHERY

Challenges, Opportunities and Global Competitiveness

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March 9, 2010

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AGRIBUSINESS AND ECONOMIC GROWTH

- Strong **synergies** between the performance of **agriculture** and **development**.
- **Dynamic and efficient agribusiness** spurs agricultural growth.
- **Strong link** between **agribusiness and smallholders** can reduce rural poverty

- WDR 2008

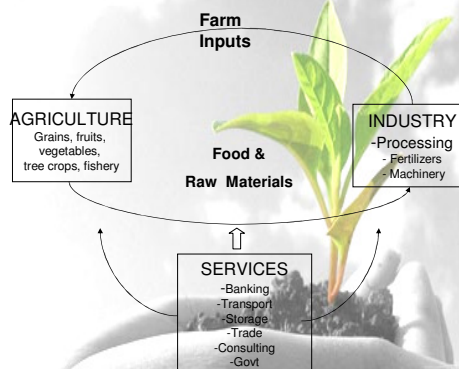
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OUTLINE

- Role of Agriculture and Agribusiness
- The Global Picture
- The ASEAN
- The Philippines
- Competitiveness Guidelines and Implications
- Challenges
- Over-riding and Strategic Goals
- Key Success Factors
- Select Action Agenda
- Food for Thought

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AGRIBUSINESS AND SECTORAL LINKAGES



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STRATEGIC ROLE OF AGRICULTURE IN DEVELOPMENT

- **Economic** – contribution to GDP, food, raw materials for agro-processing, exports,
- **Livelihood** - jobs
- **Environment** - impact of water use, deforestation, coral reefs, climate change

Source: World Bank, World Development Report 2008

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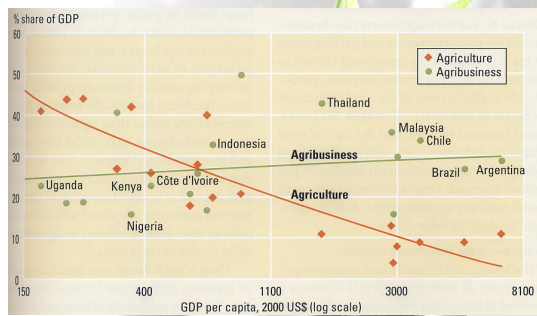
AGRIBUSINESS AND MULTIPLIER

	Agriculture as % of GDP	Agribusiness as % of GDP	Multiplier
Indonesia	20	33	1.6
Malaysia	13	36	2.8
Thailand	11	43	3.9
Argentina	5.6	32.2	5.8
Brazil	7.5	26.6	3.6
Chile	8.5	32.1	3.8
Costa Rica	12.8	32.5	2.5

Source: World Bank (2008), Guilhoto (2004), Jaffee (1999).

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THE RELATIVE SHARES OF AGRICULTURE AND AGRIBUSINESS IN GDP CHANGE AS INCOME RISES



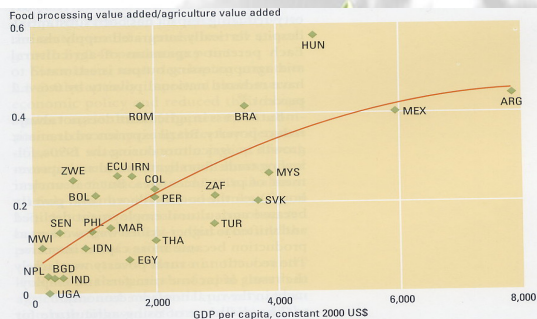
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THE GLOBAL CHALLENGES

- Pressure on food supply
- Rising energy costs
- High fertilizer costs
- Increasing land scarcity
- Increasing water scarcity
- Climate change
- Stringent food standards

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THE RATIO OF FOOD PROCESSING TO AGRICULTURAL VALUE ADDED RISES WITH INCOME



Source: World Bank 2008; UNIDO Industrial Statistics Database 2005.

Note: The list of 3-letter codes and the countries they represent can be found on page xviii.

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Pressure on Food Supply

- Growing markets for food, feed, and biofuels
- Industrialization, urbanization and infrastructure reduce prime lands
- Less water for agriculture

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GLOBAL TRENDS

- **Diversification toward high-value production** is a demand-driven process in which the private sector plays a vital role
- **Higher incomes, urbanization, and changing preferences** cause domestic consumer demand for high-value products.
- **The structure of food spending is shifting** from the consumption of grains and staples to vegetables, fruits, meat, dairy, and fish.
- **The demand for ready-to-cook and ready-to-eat foods is also rising**, particularly in urban areas.

- IFPRI, 2007

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Rising Input Prices

Energy and fertilizer

- Slow growth but sustained demand
- Limited discoveries of large oil fields (peak oil?)
- Non-renewable supplies of gas, phosphate and potash
- Sources limited to few countries

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Land and Water Scarcity

- Conversion of farm lands
- **Competing uses of water:** agriculture, industry, infrastructure, housing
- Climate change

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GLOBAL OPPORTUNITIES

- Rising incomes and wealth in Asia - China, India, ASEAN
- **Supply chain transformation**
- Biofuels boom
- **Technology advances** (Life sciences + ICT)
- Cross-border investments

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Climate Change

- Increasing variability
- **Rising intensities of droughts, floods, and typhoons**
- Variability in food supply

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Supply Chain/Logistics Transformation

- Moving goods efficiently
- With faster turnaround
- Multi-points sourcing
- Lower final costs to consumers

Impact: Countries, regions and firms with better logistics have the competitive edge.

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Stringent Food Safety Standards

The new non-tariff barriers

- New opportunities are stifled by rigorous safety and quality standards of countries, processors and retailers
- **Traceability certifications**
- Many developing, agri-exporting countries are ill-prepared.

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Biofuels

(Mandated In Many Countries)

- **Bio- ethanol**
Raw materials: sugarcane, cassava and sweet sorghum
- **Bio-diesel**
Raw materials: palm oil, palm kernel oil, coconut oil, jatropha(?)

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Technology advances

(Life sciences + ICT)

- **GMO impact** of increasing yield and shelf life, more nutritious goods, cost-effective plant *architecture*, and elimination/reduction of cost of farm chemicals use.
- **ICT impact** on rapid transmission of market signals, market transactions, new technologies, and decision-making

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Rising incomes and wealth in Asia - China, India, ASEAN

- **Population size**
- **Rapid economic growth**
- **Fast-rising middle class**

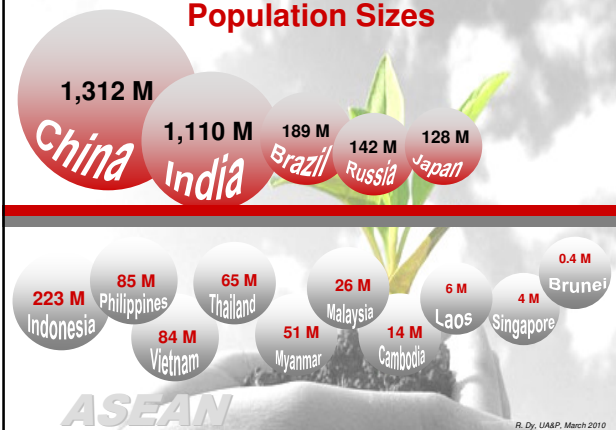
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Cross-border investments

- **FTAs enlarge markets**, lift economies of scale, and attracts **FDIs**
- **Improving risk profile** attracts attract foreign capital into emerging economies
- **Simplified customs and quarantine**
- **Lower barriers of nationalism**

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Population Sizes



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Rising incomes and wealth

- The **global corporations are transforming the opportunities** for small agricultural producers.
- Transactions along the **corporate food chain have increased**. Between 2004 and 2006, global food spending grew by 16 percent from US\$5.5 trillion to 6.4 trillion (Planet Retail 2007).

- IFPRI, December 2007

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China Market



- China: **1,300 million**
- Average economic growth: **10% p.a.**
- **300 million** middle class (mostly in coastal cities)
- Olympic dividends

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China in 15-20 Years

- "By 2025, China will have **221 cities** with more than **one million** inhabitants – compared with 35 in Europe today – and 24 cities with more than five million people."
- "By 2030, **1 billion** people will live in China's cities... **170 mass-transit systems could be built...40 billion of square meters of floor space will be built in five million buildings—50,000 of which could be skyscrapers.**"

Source: McKinsey Global Institute, June 2008

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China Consumer Market Large Size, High Growth

	2004	2007	2008 (e)
Consumer Spending \$ billion	758	1,160	1,226
Food Spending \$ billion	276	295	405

Source: Euromonitor

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China Market

- Mainland China has:
22 provinces
5 autonomous regions
4 municipalities.
- 20 provinces have population of **over 30 million!**
- Each province is a **different country!**

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China Food Market

Major agri-food importer:

- Vegetable oils
- Fresh Fruits
- Seafoods
- Raw materials (rubber, hides, cotton, etc.)

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China Coastal Clusters, 2007

Megapolis		Metropolitan Area	
	Population (Million)		Population (Million)
Yangtze River Delta	88	Shanghai	20
Pearl River Delta	50	Guangzhou - Foshan	14
Beijing-Tianjin	40	Beijing	17

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China

- Since 1978, **agriculture growth has exceeded the growth of population** by nearly five times, transforming the country's food economy.
- But, with **240 million small farms** (ave. < 0.6 ha), there are challenges in moving the system into a modern, vertically integrated and able to meet the nation's increasing demand for safe, traceable and reliable food.

Authors: Huang, L. (2008) Regoverning Markets Programme
<http://www.eldis-agriculture@lyris.ids.ac.uk>

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CEO Quotes



“Nowhere in the world is there a market like this – nowhere. To me, the 21st century will be the Chinese century. China will change the economic balance of the world.”

- Guy McLeod, President, Airbus China
(China CEO: Voices of Experience by Fernandez and Underwood, John Wiley, 2006)

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Japan Rich but Aging



- Consumer Market (Japan): **128 M**
- High income market
- Aging and declining population
- Large tourists base

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Taiwan



- Population: **23 million**
- High income: ~**\$20,000 per person**
- Food importer: **over \$3 billion a year**
- Wheat, soybeans, corn
- Processed foods

Source: <http://www.cepd.gov.tw/>

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Japan



- Food importer: **\$60 billion a year**
- Grains for feeds; Some rice
 - Meat
 - Fruits, vegetables
 - Seafood
 - Quality and food safety concerns

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Taiwan Developed Country Lifestyle



	2004	2007	2008 (e)
Consumer Spending \$ billion	195	222	226
Food Spending \$ billion	42	50	51

Source: Euromonitor

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South Korea




- Consumer Market: **40 million**
- High income markets
- Aging population
- Home to Samsung, Hyundai, Kia, & Lotte

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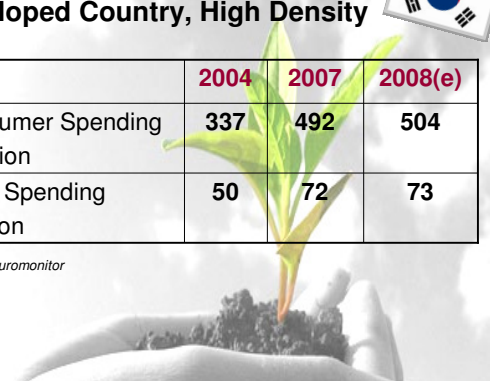
South Korea

Developed Country, High Density



	2004	2007	2008(e)
Consumer Spending \$ billion	337	492	504
Food Spending \$ billion	50	72	73

Source: Euromonitor



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THE ASEAN



- The whirlwind of opportunities.
- A global agrifood player.
- Resources: land, seas, and people.



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South Korea



Food import: **over \$12 billion a year**

- Grains *except rice*
- Fruits and vegetables
- Seafood
- Quality and food safety concerns



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ASEAN COUNTRIES ARE WORLD PLAYERS




	1	2	3
Rice	Thailand	Vietnam	India
Palm oil	Indonesia	Malaysia	Thailand
Coconut oil	Philippines	Indonesia	India
Natural rubber	Thailand	Indonesia	Malaysia
Coffee, robusta	Vietnam	Indonesia	Brazil
Banana, fresh	Ecuador	Philippines	Costa Rica
Pineapple, canned	Thailand	Philippines	Indonesia




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The ASEAN



- Dynamic economies
- **Nearly 600 million** consumer market
- Indonesia **230M**, Philippines **90M**, Vietnam **87M**, Thailand **65M**, Malaysia **27M (2007)**
- **Over 150M** middle class
- Diverse cultures and markets
- Heavy agri-food importer: wheat, meat, fish, fishmeal, temperate fruits, but a global exporter.



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ASEAN EXPORTS AMONG THE WORLD PLAYERS



	1	2	3
Shrimps	China	Thailand	Vietnam
Catfish	Vietnam	China	USA
Canned tuna	USA	Thailand	Spain
Tapioca starch	Thailand	Vietnam	Indonesia
Pepper	Vietnam	India	Brazil
Cashew	Vietnam	Nigeria	India
Cacao	Ivory Coast	Ghana	Indonesia



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PHILIPPINE AGRICULTURE PERFORMANCE

RP tailed in the 1980s and 1990s
(% Average Annual Growth)

	1980-1990	1990-2000	2001-2008
Indonesia	3.6	2.1	3.4
Malaysia	3.4	0.3	3.3
Philippines	1.0	1.7	3.8
Thailand	3.9	4.2	3.0
China	5.9	4.1	4.2
Vietnam	2.8	4.3	3.9

Source: World Bank Development Indicators, 2004 and 2006; Asian Development Bank – Key Indicators of Developing Asia and Pacific Countries, 2007

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COMPARATIVE AGRICULTURE AND FISHERIES RECORD RP at the cellar (revealed comparative advantage)

Export Value in\$ B	INDON	MALAY	PHIL	THAI	VIET
Fish, etc.	1.6		0.3	2.3	2.5
Veggies				0.7	0.2
Fruits and nuts			0.6		0.5
Coffee	0.9				1.6
Cocoa and prep	0.9	0.6			
Cereals & prep			0.2	2.7	0.9
Vegetable oils	6.1	7.0	0.6		
Seafood prep	0.3		0.1	4.0	0.6
Rubber prod	5.5	4.8		8.9	0.9
All products	15.8	12.4	2.5	22.8	7.3

Products Revealed Comparative Advantage (RCA) >1 (2006)

Source: ITC

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RP failed in agriculture exports!

Values in 2007	Exports (\$ B)	Imports (\$ B)	Balance (\$ B)	Export/ Farm Area (\$)
Indonesia	23.4	10.5	+12.9	710
Malaysia	20.5	10.6	+9.9	2,710
Thailand	25.0	8.4	+16.6	1,420
Vietnam	11.7	6.1	+5.6	1,500
Philippines	3.2	4.3	-1.1	300

Source of basic data: WTO, CIA

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MANG AMBO'S FINANCES

Why is a Filipino farmer poor?

Item	Status	Major Causes
Farm Area	Low Utilization	<ul style="list-style-type: none"> Limited multi-cropping and diversification Inadequate irrigation and drainage Weak marketing infrastructure
x Farm Productivity	Low	<ul style="list-style-type: none"> Limited use of good seeds and genetics Low input use Access to technology and training Access to credit
= Production	Low	<ul style="list-style-type: none"> Plus: post-harvest losses
x Farm Price	Somewhat Low	<ul style="list-style-type: none"> High transport costs (poor rural infrastructure) Access to market information Weak farmers organization
= SALES	Low	<ul style="list-style-type: none"> Recipe for low income

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It has dismal record in fishery and aquaculture exports!

	EXPORT (\$ billion)	COASTLINE (kilometer)	Export/ Coastline (\$/km)
Indonesia	1.95	57,716	34,000
Malaysia	0.64	4,675	137,000
Philippines	0.39	36,289	11,000
Thailand	6.17	3,219	1,918,000
Vietnam	3.06	3,444	890,000

Note: HS 03 & HS 16
Source: ITC and CIA (2007 Data)

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MANG AMBO'S FINANCES

Why is he poor?

Item	Status	Major Causes
COSTS		
Farm Inputs - Quantity	Low Usage	<ul style="list-style-type: none"> Lack of resources Not bankable
- Costs	High	<ul style="list-style-type: none"> High transport costs (poor rural infrastructure)
Loans	High Cost	<ul style="list-style-type: none"> Small loan size, high risk
FARM INCOME	Low Income (Poverty level)	<ul style="list-style-type: none"> Low revenue and high costs

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SOURCES OF COMPETITIVE ADVANTAGE

- ✓ **Factor endowment**
- ✓ **Difference in productivity and costs**
- ✓ **Dynamic economies of scale**

Source: Colliers and Venable (2007), Eifert, Gelb and Ramachandran (2005), and Wood and Mayer (2001) as quoted in the World Development Report 2008

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On Business Climate

- **Good macro fundamentals**
- **Reasonable fiscal and external balances, realistic exchange rate, low inflation and interest rates, competitive markets, and**
- **Social and political stability.**

-- ADB, Philippines: Moving Towards a Good Investment Climate, 2005

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Factor endowment

- **Natural resources**
Land, Water, Sea
- **Human capital**
Supply: Unskilled and Skilled
Quality

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On Business Climate

- **Infrastructure availability and quality** of physical infrastructure, such as roads and ports, telecommunications, power and water supply.
- **Maintenance of assets**

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Productivity and Cost Drivers

- **Business climate**
- **Infrastructure**
- **Institutions**

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On Business Climate

- **Governance and institutions:** transparency and efficiency in regulation, taxation, and legal system, strong and well-functioning financial sector, labor market flexibility, and skilled labor force.

-- ADB, Philippines: Moving Towards a Good Investment Climate, 2005

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Economies of Scale

- Size matters
 - Raw material base
 - Early movers have an advantage
- ### ECONOMIES OF SCOPE
- Supplier industries and services in the cluster
 - Support institutions

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DETERMINANTS OF GLOBAL COMPETITIVENESS

AT THE FRONT OF THE SUPPLY/VALUE CHAIN:

- The **cost, availability, and reliability of raw materials** delivered to the processors

Source: AFFA

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GLOBAL COMPETITIVENESS

IMPORT

- Domestic Price < Border (CIF) Price

EXPORT

- Domestic Price < Border (FOB) Price

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DETERMINANTS OF GLOBAL COMPETITIVENESS

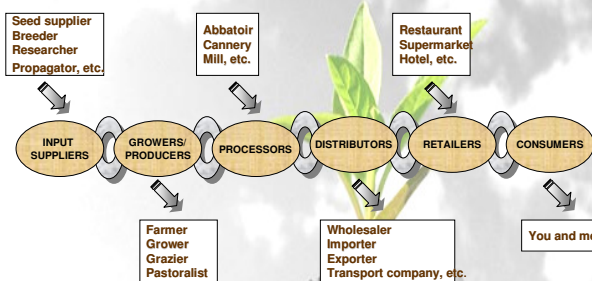
ALONG THE SUPPLY/VALUE CHAIN:

- The **relative efficiency in value adding**
- Importance of financing, manufacturing, packaging, branding, marketing and distribution.

Source: AFFA

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THE SUPPLY CHAIN



SOURCE: New Industrial Development Program (NIDP) – MADE IN AUSTRALIA, Number 1, Series 3, AFFA (2003).

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AGRO-INDUSTRIAL COMPETITIVENESS

When **raw materials are priced below world prices:**

Processors are able to compete in price-sensitive markets provided supply chains are efficient.

Source: AFFA

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IMPLICATIONS

- Inter-connectivity of roads to ports
- Land consolidation for large scale raw materials
- Supply chain efficiencies

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AGRO-INDUSTRIAL COMPETITIVENESS

Where the **prices of raw materials are higher** than those of competitors:
it would be **tough to develop products for the export.**

Source: AFFA

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AGRO-INDUSTRIAL COMPETITIVENESS

Where **raw materials are priced at near world prices**
✓ **good marketing**
✓ **innovative product development**
✓ **a sound understanding of consumers** are **keys to compete** in value –sensitive markets

Source: AFFA

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IMPLICATIONS

Address longer term issues of:

- productivity
- plant efficiencies
- logistics
- scale

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IMPLICATIONS

- Investing in marketing and export development
- Investing in product R&D
- Investing in market research and intelligence

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MAXIMIZE
GDP, Jobs, Incomes and Exports
in Agri-Fishery

Subject to:

- Market
- Profitability
- Land and Climate Suitability
- Budget Constraints

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Allocate budget to:

INDUSTRIES:

- Rice
- Corn
- Coconut
- Sugar
- Fruits
- Vegetables
- Poultry
- Livestock
- Fishery
- Aquaculture

FUNCTIONS:

- Market Development
- R&D
- Technology
- Post-harvest Extension and Training
- Human Resources
- Logistics

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A TALE OF TWO PRIORITIES
(Is this sustainable?)

RICE (Happy Face)

ALL OTHER PRODUCTS (Sad Face)

LEVEL OF SUPPORT

Govt, Pils, NGO, Media, Bizmen

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THE CHALLENGES

- **Highly political nature of rice that distorts resource allocation**

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WHY THE OBSESSION FOR RICE SELF-SUFFICIENCY?

POINT:

- Only 30 M tons (7%) are traded globally.
- The Philippines buys 2 M tons. With supply crisis, it will not be food-secure.

COUNTERPOINT:

- RP can produce 85-90% of its rice and refocus resources with higher returns ensuring income security.
- The ASEAN (Thailand, Vietnam and Cambodia) produce 15 M tons of world rice surplus.

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Rice accounts for less than 20% of agriculture output but gets the lion's share

AFMA BUDGET

- RICE Farmers (<25%)
- CROPS, LIVESTOCK & FISH Farmers (>75%)

DA RESOURCES

- RICE (>60%)
- CROPS, MEAT & FISH (<40%)

- RICE (75%)
- CROPS, MEAT & FISH (25%)

- Also NFA consumers subsidies use large resources: Php 18 B in 2007, and over Php 50 B in 2008

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Poverty alleviation is ill-targeted. The higher the poverty, the lower the AFMA spending!

Poverty Incidence (%)

AFMA Budget Allocation (Php per hectare/fisher)

- COCONUT: 1.4 M farms
- CORN: 0.68 M farms
- FISHERIES: 1.37 M small fishers
- RICE: 1.35 M farms

Average

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THE CHALLENGES

- Private sector reluctance to invest (CARP, infrastructure, peace and order)
- Lack of long-term financing for tree crops
- Banking system anchored on collateral-based lending
- Low priority for R&D (highest impact on productivity and poverty in many places)

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THE CHALLENGES

- Governance issues
- Peace and order situation in areas with high potential
- Trade agreements
- Climate change
- Unorganized, fragmented farm sector (lack of economies of scale)

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RANKING OF PUBLIC INVESTMENT EFFECTS ON SECTORS (INTERNATIONAL EXPERIENCE)

- R & D is a major catalyst of agriculture growth in competitor countries.
- Education is next.
- Rural roads that connect markets and services.
- Irrigation is 4th or 5th

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OVER-RIDING STRATEGIC GOAL

MAKE FARMING PROFITABLE
for a sustainable, globally competitive agribusiness.

Income security first.
Food security will follow.

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RANKING OF PUBLIC INVESTMENT EFFECTS ON SECTORS (INTERNATIONAL EXPERIENCE)

Item	China	India	Thailand	Vietnam
Ranking of Returns in Agriculture Production				
Agriculture R & D	1	1	1	1
Education	2	3	3	3
Roads	3	2	4	4
Telecommunications	4	-	-	2
Irrigation	5	4	5	5
Electricity	6	8	2	-
Soil and water conservation	-	6	-	-
Item	China	India	Thailand	Vietnam
Ranking of Returns in Poverty Reduction				
Agriculture R & D	2	2	2	2
Roads	3	1	3	4
Education	1	3	4	3
Telecommunication	-	-	-	1
Electricity	4	8	1	-
Irrigation	6	7	5	5

Source: Shenggen Fan (2005). The Role of Agriculture in Poverty Reduction: Evidence from Asia. IFPRI
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FOOD FOR THOUGHT

AGRICULTURAL POLICIES OF KEY ASEAN COUNTRIES

- **Malaysia**
Maximization of income through the optimal utilization of resources. This includes maximizing agriculture's contribution to GDP and export earnings as well as maximizing producers income.
- **Thailand**
Enhancement of production efficiency to increase farm profits and reduce costs.

Source: Dy, R. 2009 Food for Thought: How Agribusiness is Feeding the World.

KEY STRATEGIC GOALS

- **Increase farm productivity**
- **Expand market-led diversification**
- **Promote non-farm and off-farm job creation thru private investments**

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KEY SUCCESS FACTORS

- A **marketing infrastructure** that links supply/value chains.
- A **market information system** with timely, accurate and accessible information.
- A **well-funded R & D program**, accompanied by human resource development of scientists and researchers, which engages universities and the private sector.

Source: AFMA Report

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AGRICULTURE as pathways out of poverty

- ✓ **Increase productivity in foods sector**
- ✓ **Connect smallholders to rapidly expanding high-value horticulture, poultry, aquaculture, as well as dairy markets**
- ✓ **Generate jobs in the rural nonfarm economy.**

Source: World Bank, WDR 2008

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KEY SUCCESS FACTORS

- An **investment climate** that attracts local and overseas investors.
- **Organized producers** that are learned on the dynamics of the market place – cost, quality and supply reliability.
- An **appreciation of data and statistics** as metrics of performance

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KEY SUCCESS FACTORS

- **Strategy.** A clear strategy that is stable over many years.
- **Continuity.** A bureaucracy that values professionalism, career paths, and meritocracy. A bureaucracy not subject to vagaries of frequent elections.
- **Organizational Capability.** Creating and managing training and skill-development programs to maintain or improve on the priority capabilities. When top bosses are involved in setting the capabilities agenda, organizations are more successful at aligning those agendas with the capability and more effective at building the needed skills (Mckinsey, 2010).

Source: AFMA Report

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FACTORS IN AGRI DEVELOPMENT



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AGENDA

- **Agriculture-Fishery Plan for the MTPDP, 2010-2016**
- **R&D, marketing, production, financing, and human resources plans**

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SELECT ACTION AGENDA

- **Food safety standards and testing labs**
- **Establish farmers' and barangay registry**
- **Invest in quality education for farmers and entrepreneurs**
- **Monitoring of inputs, outputs and outcomes**

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SELECT ACTION AGENDA

- **Review of realistic level of rice self-sufficiency.**

Shift to sufficiency of food staples: rice, corn, banana, camote, cassava, gabi and other carbo sources

The Philippines has no Mekong Chaophraya and Irrawaddy rivers, sources of cheap irrigation

R. Dy, UA&P, March 2010

FOOD FOR THOUGHT

*Know your enemy, know yourself, and you can fight a hundred battles with **no danger of defeat**. When you are ignorant of the enemy but you know yourself, your chances of winning and losing are equal. If you don't know your enemy or yourself, you are bound to perish in all battles.*

- Sun Tzu, *The Art of War* as cited by Ghemawat, *Strategy and the Business Landscape*, 2006

R. Dy, UA&P, March 2010

SELECT ACTION AGENDA

- **Pump-prime the tree crops** through rehabilitation, new planting, intercropping and conversion.
- Program for **fishery production** from aquaculture/mariculture
- **Eliminate QR on rice imports** and shift NFA role to logistics provider and buffer stocking.
- **Craft a multi-year agriculture infrastructure plan**

R. Dy, UA&P, March 2010

FOOD FOR THOUGHT

*Globalization is about producing where it is **most cost effective**, sourcing capital from where it's **cheapest** and selling it where it is **most profitable**.*

- N.R. Narayana Murthy, *Infosys*, 2003 as cited by Ghemawat, *Redefining Global Strategy*, Harvard Business School, 2007.

R. Dy, UA&P, March 2010

FOOD FOR THOUGHT

Innovation has become a primary force in determining industry growth and performance.

Unfortunately, a wide gap exists between aspirations to innovate, and the ability to execute.

- Paraphrasing The McKinsey Quarterly 2007

R. Dy, UAAP, March 2010