

Market trends & implications in agri-food chain research

Myanmar Agribusiness Master Class, Monday 8 January Wendy Umberger, Ph.D.

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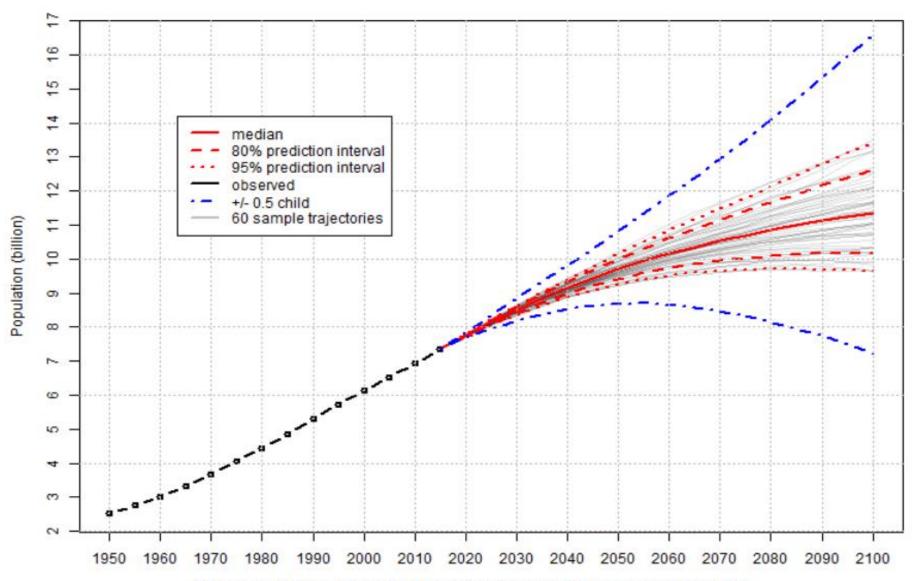
Overview

- How market research can help us understand & address issues & opportunities
- Real world agricultural and food market issues in both developed and less developed countries
- Impact of modern retailer procurement systems, certification, food safety & quality standards
- How high value agricultural product markets have changed risks along the chain
- Constraints to pro-poor agribusiness development in agri-food value chains
- Connection between MSD, value chain analysis (VCA) & market research

Macro-trends affecting Smallholder marketing environment

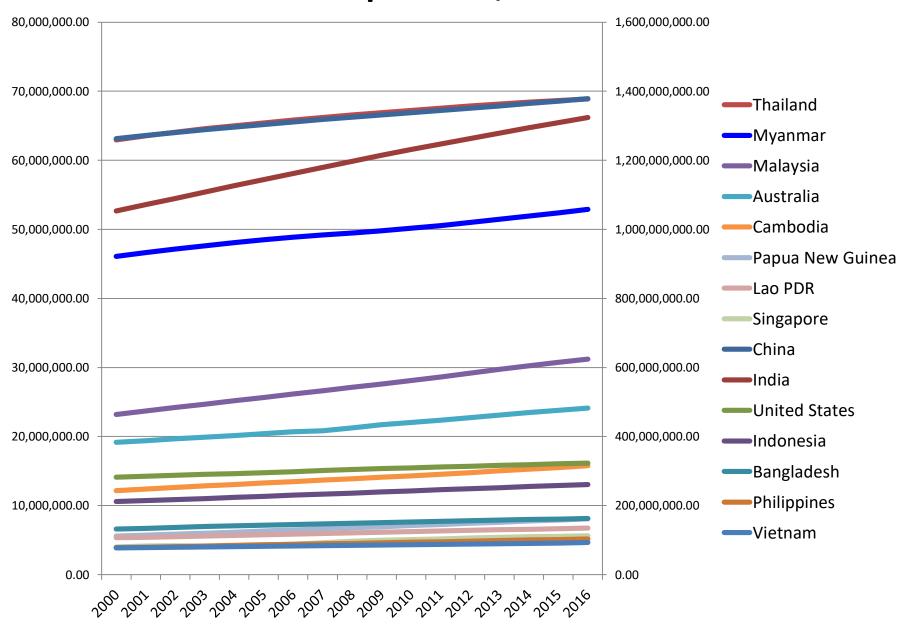
- Population growth
- Urbanization
- Increasing disposable income
 - Declining share of disposable income on food
- Globalisation
- World Trade Organisation and "trade deals"
- Price volatility
- Changing consumption trends
- Market formalisation and changes in governance ("supermarket revolution"
 - Changes in production, processing, procurement, financing
- Food Safety regulation
- Sustainability concerns
- New applications (e.g. biofuel, herbal and pharmaceutical, bio-plastics etc)

World Population Projections (1950-2100)

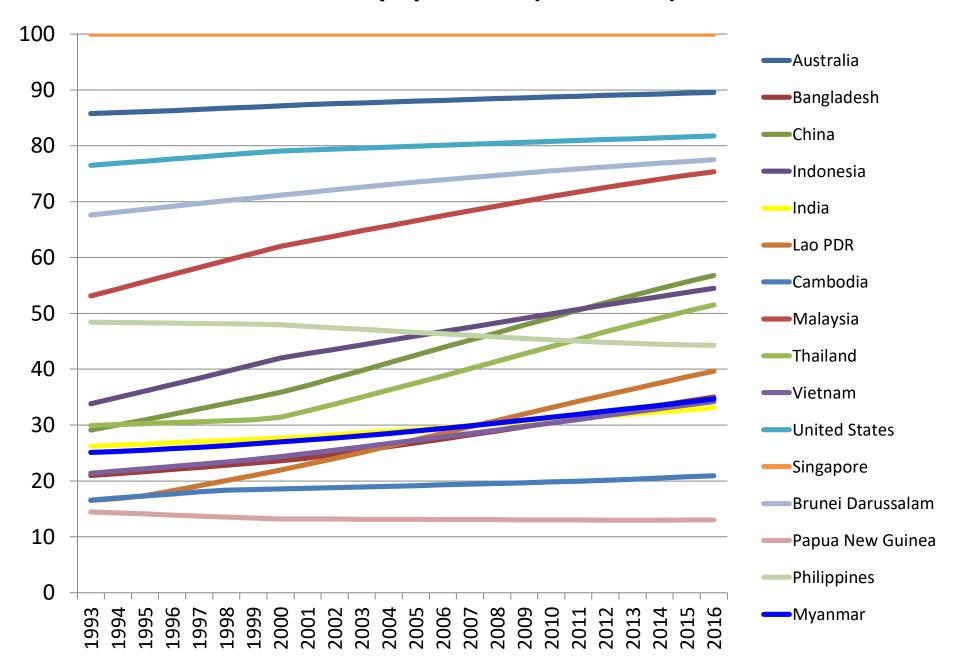


Source: United Nations, Department of Economic and Social Affairs, Population Division (2015).
World Population Prospects: The 2015 Revision. http://esa.un.org/unpd/wpp/

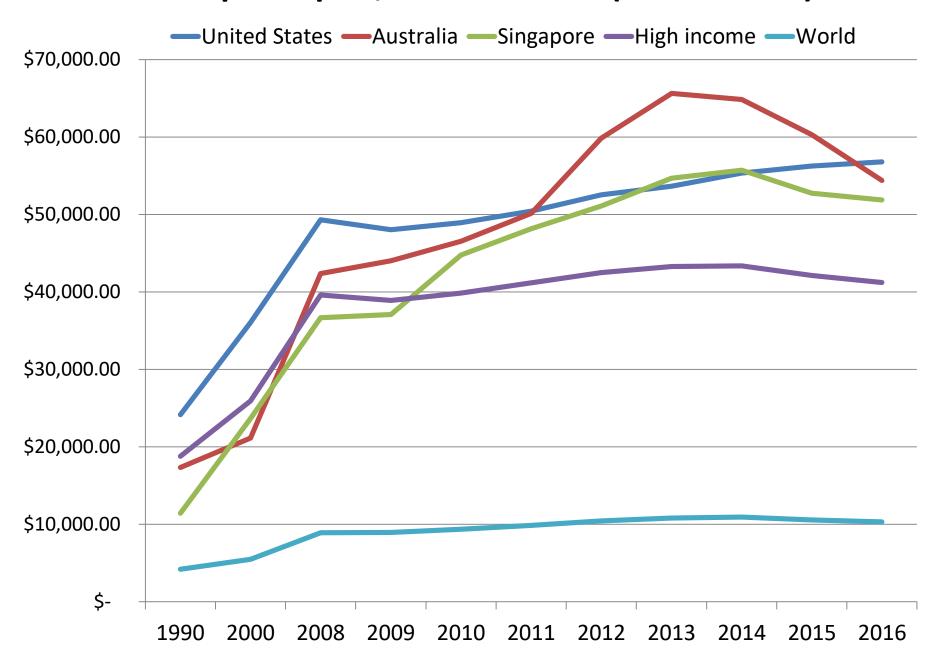
Population, total



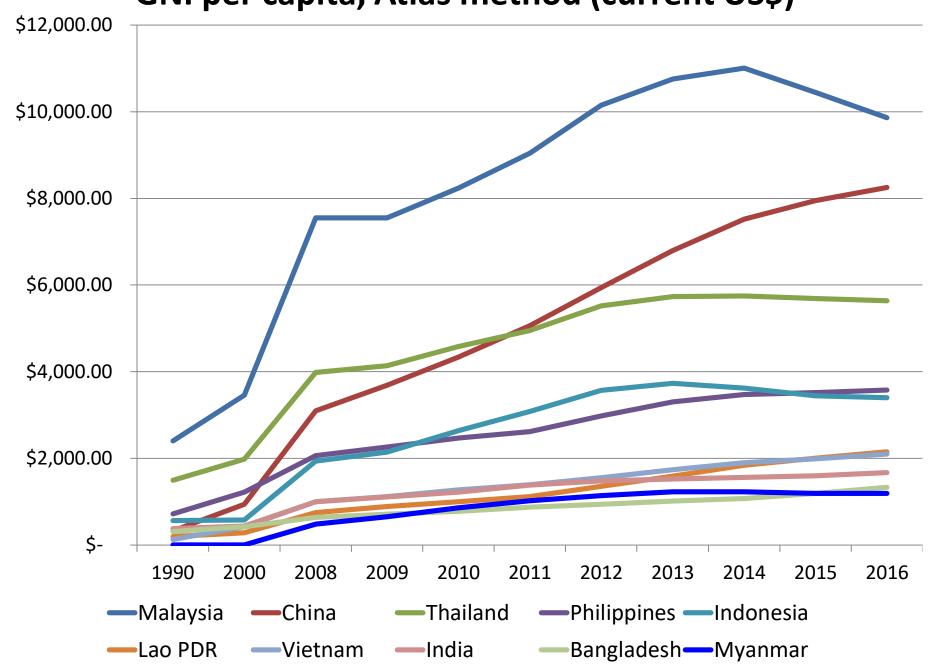
Urban population (% of total)



GNI per capita, Atlas method (current US\$)



GNI per capita, Atlas method (current US\$)

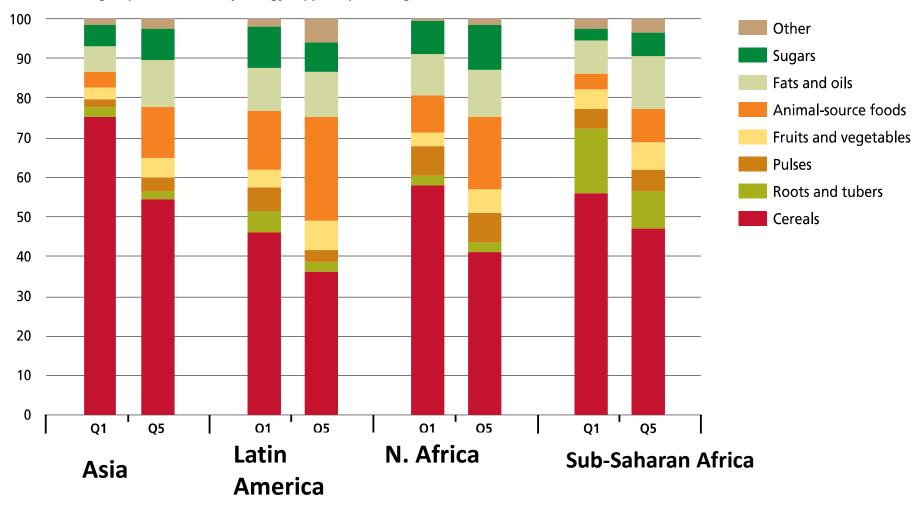


Consumption trends affecting smallholders

- Dietary "upgrading"
- Quality and credence attributes
- Dem Which are relevant
 "Hea for Myanmar?
- Off-season purchasing (year-round demand for fresh produce)
- Exotic and novelty foods
- Ethnic food

Dietary Upgrading

Share of food groups in total dietary energy supplies (percentage)



Note: Data refer to households of lowest and highest income quintiles in 47 developing countries.

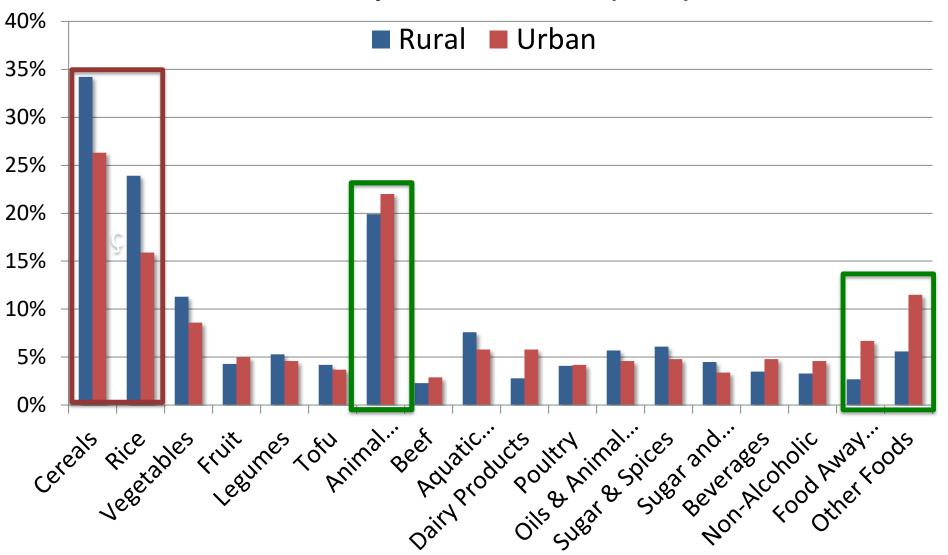
Source: The State of Food Insecurity in the World 2012, FAO available at http://www.fao.org/publications/sofi/en/





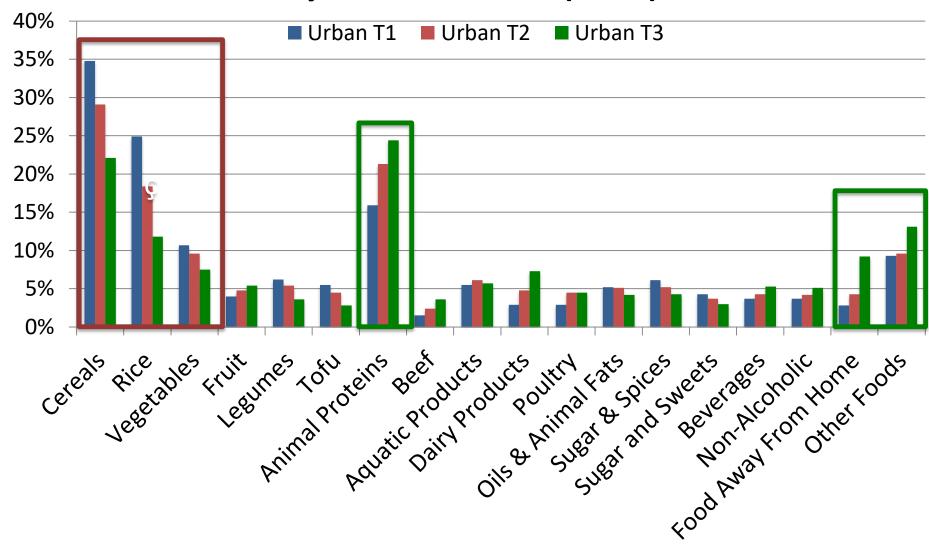


Indonesia, Rural vs. Urban Total Food Expenditure Shares (2010)



Source: Reardon, et al. 2014. "Urbanization, Diet Change, and Transformation of Food Supply Chains in Asia." Working paper, Global Center for Food Systems Innovation, Michigan State University.

Indonesia, Total Food Expenditure Shares by Income Tercile (2010)



Source: Reardon, et al. 2014. "Urbanization, Diet Change, and Transformation of Food Supply Chains in Asia." Working paper, Global Center for Food Systems Innovation, Michigan State University.



World Trade: Price volatility?



http://www.fao.org/worldfoodsituation/foodpricesindex/en/

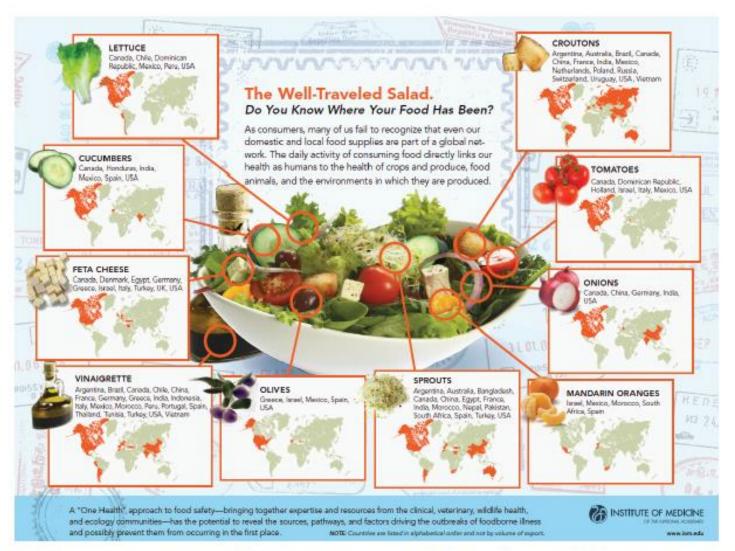


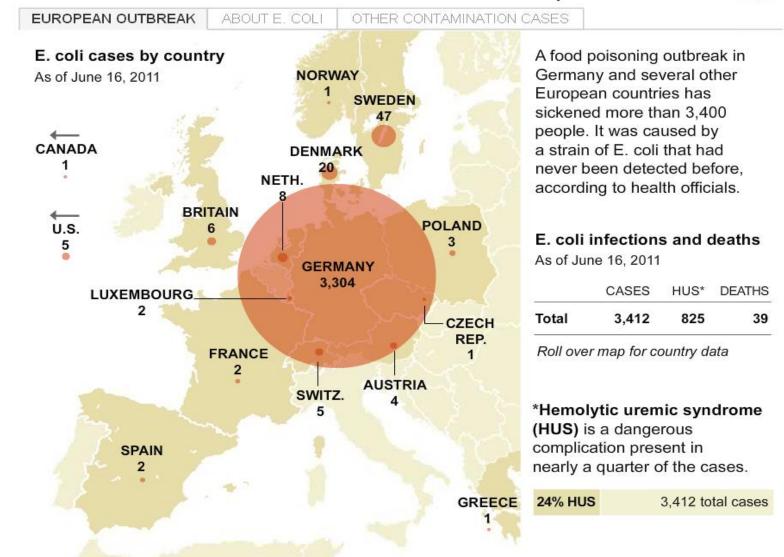


FIGURE WO-1 The well-traveled salad. To view an interactive version of this infographic on your computer or to download the static version of this image, visit http://iom.edu/Activities/PublicHealth/MicrobialThreats/2011-DEC-13.aspx.

To use your smartphone to link directly to the interactive version use the QR code.

Food contamination: E. coli outbreak in Europe





Updated: June 16, 2011 SOURCES

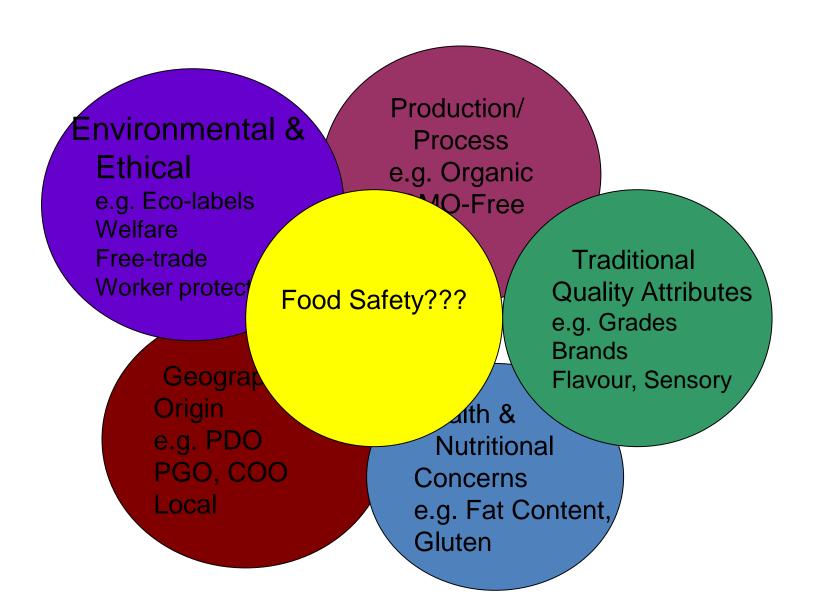
Food Safety Issues

- Foodborne pathogens / microbiological contaminants
- Environmental contaminants dioxins, PCBs, heavy metals
- Natural toxicants mycotoxins, phycotoxins, GMO
- Pesticide and drug residues
- Processing contaminants
- Allergens
- Additives illegal dyes
- Authenticity
- Deliberate adulteration (food fraud)





Food quality & safety are multi-dimensional







































Bogor, West Java







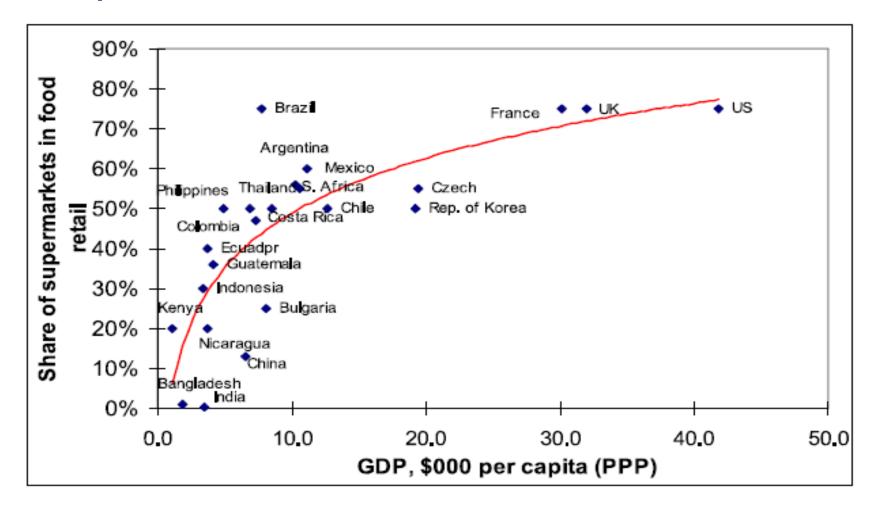




Private sector initiatives to meet changing food demand

- Foreign direct investment (FDI)
- Vertical integration and coordination
- Governance- Requiring suppliers meet standards
 - Food safety control systems for quality assurance (e.g. HACCP)
 - Animal welfare standards
 - Environmental standards
 - Worker standards
- Certification by third-party accredited parties
 - E.g. GAP
- Traceability
- Sustainability

Supermarket Growth and Income



Supermarket Growth

Figure 5.4 Rising per capita incomes are important drivers of supermarket growth Source: Reardon and Berdegué (2006) and World Bank World Development Indicators.

Supermarket share of Retail Food Sales

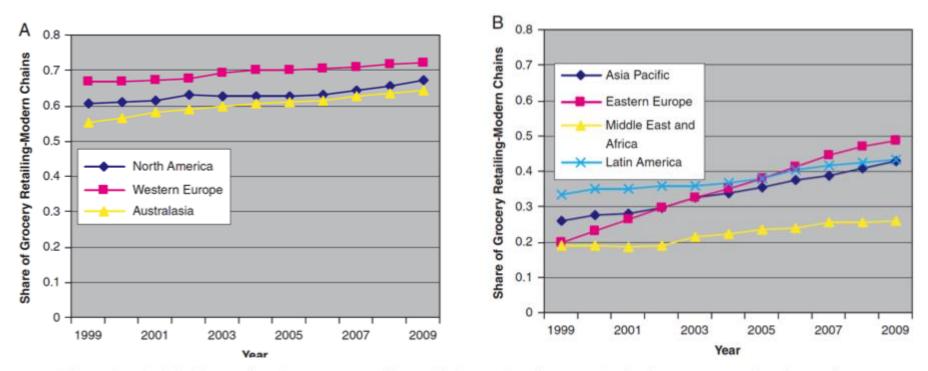
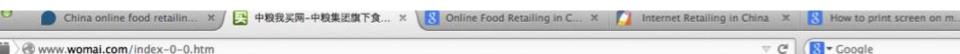


Figure 2 (A,B) Share of total grocery retailing sold in modern formats. Each figure reports the share of expenditure of total grocery retailing for the country spent in modern formats—hypermarkets, supermarkets, discounters, and convenience stores that are part of a chain are shown as —x— in Figure 2B. Source: Authors calculations using Euromonitor International data.

Source: Tandon, S., A.E. Woolverton, M.R. Landes. 2011. "Analyzing Modern Food Retailing Expansion Drivers in Developing Countries." *Agribusiness*, forthcoming



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RED LOLLO A non-hearting loose-leaf lettuce, Lollo Rosso has fringed and crinkled leaves that are tinged deep red...

ICEBERG



RADICCHIO Radiochlo is bitter and bright. Find great ways to use this versatile vegetable in salads, pastas,...



RADICCHIO LONG Enjoy baked radiochio, savoring its taste and texture, sweet, bitter and crunchy. The best variety for...

Salads



Batavia lettuce is a non-hearty lettuce w frilly leaves. Its crunchy nutty flavoured leaves grow upright...

FRESH BEETROOT



CASTELLANO This delicious variety of fan-leafed lettuce has received its designation because it ... ranging in colour from...



A beefsteak tomato (American English) or beef tomato (British English) is any of the largest varieties...



Iceberg lettuce is regarded (perhaps unfairly) as being low in nutrition and also calories. But it's...

A lettuce that belongs to a cultivar of garden lettuce and has long crisp leaves and...

Beetroot has been linked with better stamina, improved blood flood and lower blood pressure

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Supermarkets: A double-edged sword?

- Traditional retail markets may be "crowded out"
 - Access to fresh products is limited
 - Potential negative price impact
- Small farmers may be squeezed out
 - Quality standards may be difficult for small farmers to meet
 - Sourcing and distribution systems may favour larger growers to reduce transactions costs
- Small farmers can increase incomes if able to supply the modern channel
 - Assistance with inputs, credit, and technical assistance to meet the higher quality standards







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Nestle announces new animal welfare standards



Nestle will require suppliers to provide more space for farm animals, minimize pain in veterinary practices and welcome independent auditors. Above, Nestle world headquarters in Vevey, Switzerland. (Fabrice Coffrini / EPA)

By DAVID PIERSON

Standards are Changing the Rules of the Game as Larger Volumes are Procured at a Distance

Service Standards

Environmenta Social **IStandards**

Standards

Sanitary and Phytosanitary Standards Quality and Condition Standards

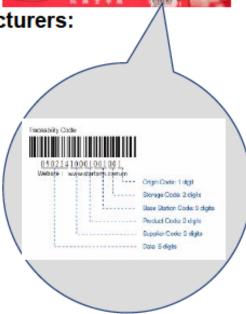


Traceability underlines Quality- and Food Safety Leadership.



Star Farm:

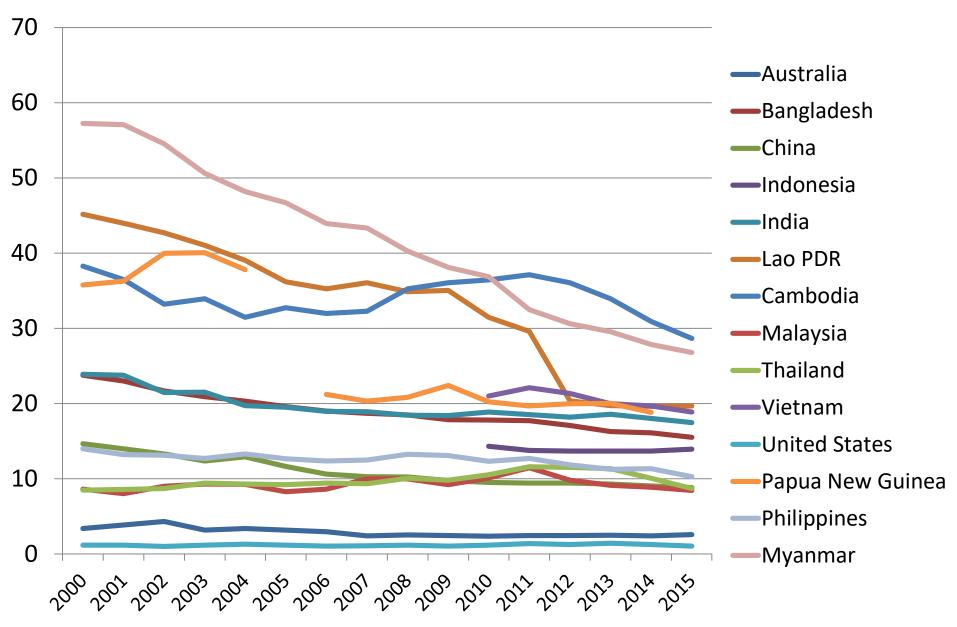
- ☐ China's first agriculture consulting firm
- □ Initiated by METRO to train local farmers/manufacturers:
 - □ Good Agricultural Practices (GAP)
 - □ Good Manufacturing/Hygiene Practices (GMP/GHP)
 - ☐ Good Distribution Practices (GDP).
- Maintaining quality control directly at the source
- □ Fulfilling the "From Farm to Fork" promise
- Monitoring every process detail from farm to fork.





What is the relevance for Myanmar?

Agriculture, value added (% of GDP)



Implications of trends for smallholders?

- Exclusion of smallholders?
- Higher returns = higher risks?
- Changes in types of risk?
 - degree of diversification
 - participation in value adding activities
- Exposure to new types of risk?
 - Depends on type of HVAP
- Climate change impact?
- Ability to manage and plan for risky events is crucial
 - Education, training, opportunities to manage risk

Market-related Risks – input & product markets

Market Access

- Product market concerns related to smallholders being excluded if market for high value agricultural products is only modern channel
- Input market concerns if smallholders are lacking human and social capital needed to access
 - Financing
 - Seed
 - Infrastructure

Transaction costs

- Access to market information, grading, certification services
- Market volatility
 - Product markets can be more stable
 - Issues related to putting "eggs all in one basket"
 - Policy and regulations?
 - Export markets?

Market-related Risks – input & product markets

Price level

- Assumption that price is higher for farmers
- Market power? Information asymmetry?
- Shifting of price risk?

Price volatility

- Affected by changes in income, trade, politics
- Highly dependent on quality and reputation
- Opportunities to lock-in a price through contracting both for inputs and outputs / products

Production Risks

- Stringent quality and quantity (timing) requirements mean production risks are important
 - Weather-related
 - Natural Disasters and extreme weather events
 - Biological and environmental
- Alternative varieties and production methods?
- Diversification opportunities?

Logistical and Infrastructural Risks

- Logistics and infrastructure are typically more important when producing HVAP
 - Quality requirements
 - Safety standards
 - Grading and certification
 - Packaging
 - Transportation
 - Storage
 - Financing
- Access may be increased, depending on business model

Constraints to pro-poor agribusiness development in agri-food value chains

- Access to capital
 - Land, technology, water, labour, management;
- Access to information and innovations;
- Poor economies of scale and competitiveness;
- Vulnerable to risk and shocks;
- Cultural, social and gender barriers exclude entry or influence;
- Poor business enabling environment

Analyzing Market Systems

1. Macro-level

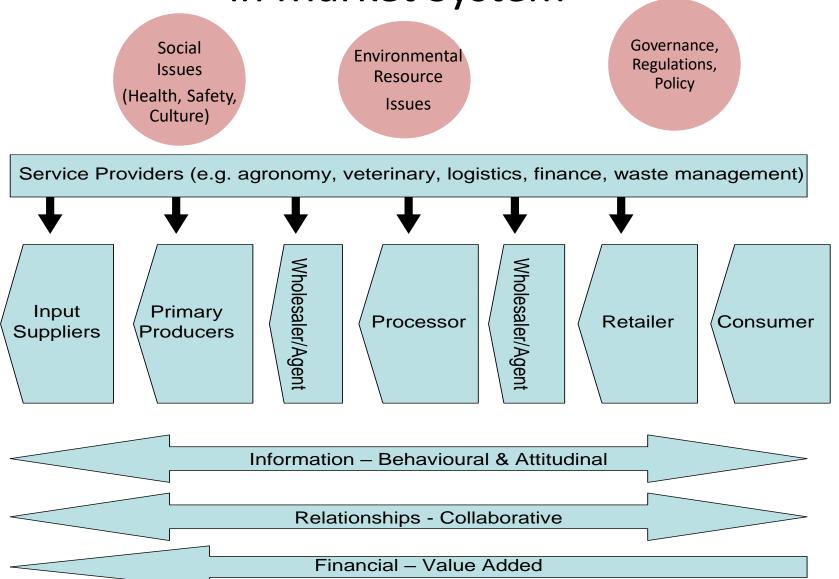
- High Level trends and issues
- E.g. demographic trends, economic growth
- International trade

2. Meso-level

- How the market system operates and why
- E.g. value chain and end market analysis
- Informs overall project goals

3. Micro-level

 Understanding interventions and unique needs of market actors or institutions that will drive desired change in market system. Improve food security by understanding issues in Market System

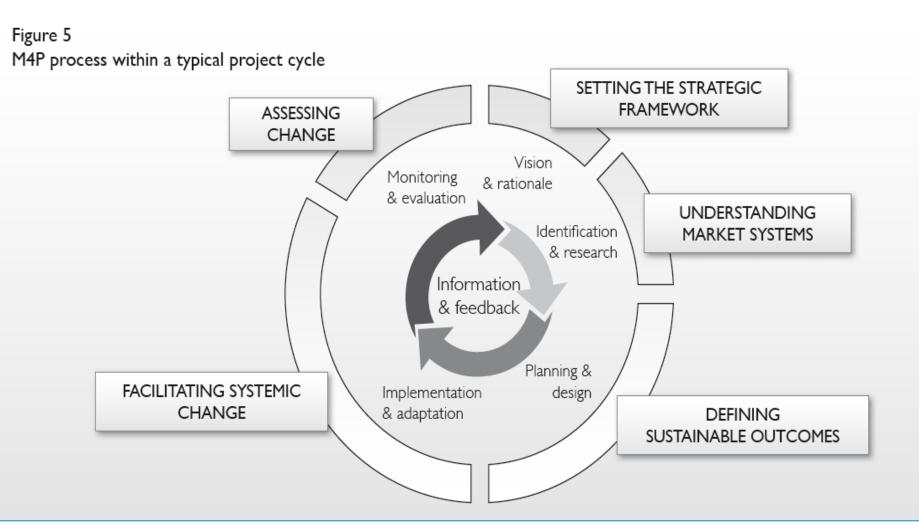


Market Research can lead to more Efficient Food Systems

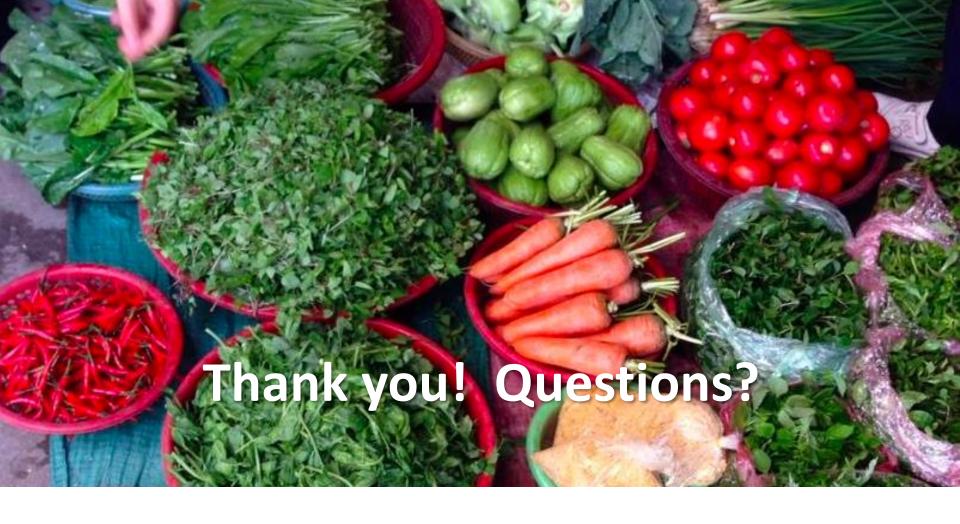
- Improve translation and uptake of R&D
 - Understand how economic decisions of individuals, firms, and institutions are influenced
- Evaluate role for government and policy in food system
 - Market failures
 - Efficient design of policy and development programs
- Investigate market opportunities for smallholders
- Investigate impact of programs on value chain, community, livelihoods

Market Failures?

- Public goods food security, food safety
- Externalities increasing use of inputs, climate change, obesity and NCD
- Market power
 - Buyer and seller side
 - Prices too high or too low?
 - Access to innovative products and technologies?
- Asymmetric information
 - Info. missing or incorrect
 - Inefficient purchasing decisions



The Springfield Centre (2009) A Synthesis of the Making Markets Work for the Poor (M4P) Approach, funded by DFID and SDC https://beamexchange.org/resources/103/



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