Trade Facilitation: Improved Sanitary and Phytosanitary (SPS) Handling in Greater Mekong Subregion (GMS) Trade

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Overview

Trends in GMS Trade

- GMS Regional SPS Project
- Roles of IT in food safety and trade facilitation
 - Lessons from Japan
 - Lessons from Lao PDR



Greater Mekong Subregion Regional Cooperation Program

<u>Sectors</u>

- Trade and Transport
- Agriculture
- Energy
- Environment
- Human Resource
 Development
- Telecommunications
- Tourism



Increased GMS trade and trade integration

- Recorded GMS intra-regional trade is growing faster than external trade (588% and 417%)
- More so in Agriculture, Food and Forestry (AFF) trade (465% and 240%)
- Clear trend in GMS trade integration, especially for AFF



Recorded GMS Exports 2000 and 2009 by destination

Value (Billion US\$)	2000	2009	% increase
Total trade	336.4	1423	423
GMS	12.2	71.7	588
Non-GMS	324.2	1351.3	417
Total AFF	29.7	76.9	259
	27.7	0.7	257
GIVIS	Z	9.3	405
Non-GMS	27.7	66.6	240
Food & live animals	25.9	67.2	259
GMS	1.2	5.4	450
Non-GMS	24.7	61.8	250
		0 7	0
Non-tood	3.8	9.7	255
GMS	0.8	3.8	475
Non-GMS	3	5.9	197

AFF Trade Growth in GMS

- Main reasons for AFF growth in GMS:
 - Much improved connectivity
 - Economic growth and demand
- Sources for increased AFF trade
 - Rapid economic growth in the region
 - Tourism
 - Urbanization, retail revolution
 - Adding value; shift to better price/quality segments



Potentials for 'Green' Growth

- GMS is endowed with good natural resources : land, water, biodiversity,...
- 60% of population in GMS are smallholder farmers
- Cross-border inclusive 'green' supply chain can lead to equitable growth along the corridors



Obstacles for tapping unrealized AFF trade potential

- Competition from outside GMS
- Underdeveloped supply chains in GMS
 - Scattered production, small volumes of varying quality, seasonality, informal trade
- Obstacles / weaknesses in SPS field:
 - Procedures more costly and requirements more restrictive to trade than necessary
 - Health protection insufficient



Main deficiencies GMS SPS handling

- Transparency weak regulatory framework; insufficient information
- Not risk-based poor data on pest and disease situation; same requirements for low and high risk products
- Widespread use of precautionary principle
- Lack of trust and information about each others' systems
- Lack of capacities in managing SPS



Project Rationale, Outcome And Scope

- Response: Regional Investment Projects to upgrade SPS capacities in Cambodia, Lao PDR, Viet Nam; and Regional TA
- Investment logic derives from GMS Regional Cooperation Strategy and Program (RCSP)
- Primary need is to address institutional capacity and issues surrounding handling of AFF trade
- Impact: AFF products become safer, more efficiently produced, and traded in greater quantities
- Outcome: an enhanced SPS management system in Lao PDR, Cambodia and Viet Nam



Major Design Features

- Current SPS capacity is very low; technical approaches have adopted simple and cost-effective designs (e.g., rapid test kits) based on pilot-testing and scaling-up over time
- Emphasis on university teaching, NOT research (to scale-up human resources) and selective regional engagement
- Significant subregional orientation; supports regional AFF trade development, engages with variety of institutions and resources etc (regional activities are about 20% of all technical activities by cost)
- Recurrent funding of SPS systems is unavoidable.



Project Outputs

- Strengthened plant, animal and food safety surveillance programs (improved data collection and analysis, field surveys, annual programs of monitoring and response capacity, application of risk-based approaches)
- Enhanced Education Levels/University Training of SPS Specialists (curricula development, improved quality of teachers, improved laboratory and teaching facilities)
- 3. Improved Regional Cooperation and Harmonization (participation in regional fora, technical twinning arrangements, bilateral working groups etc)

CLV Project Benefits

Difficult to quantify impact of SPS projects, BUT:

- Without project:
 - AFF trade will remain informal/unregulated and low-value (major specific opportunities for PRC trade will be lost);
 - exposure to disease risks will increase;
 - CL may become 'dumping ground';
 - CLV will remain subregional weak link
- Range of potential benefits estimated to be around \$10 million in each country annually



Size of Projects

GMS regional SPS project is \$36 million

Approved in June 2012: Cambodia: \$11 million loan Lao PDR: \$11 million grant+3 million loan To be approved in Nov 2012: Viet Nam: \$11 million loan

Regional TA: \$0.75 million.



Roles of IT in Food Safety and Trade Facilitation



Globalization & Market Trends

- Increased international food trade
- Global Concerns on food safety and quality
- Increased requirement of documentation (WTO, FTAs)
- Developing countries need to comply with food traceability requirements



Traceability Systems

Definition of traceability (ISO 22005:2007): "The ability to follow the movement of a feed or food through specified stage (s) of production, processing and distribution"





Traceability Requirements & Developing Countries

- Exported food must conform to GAP, GMP and HACCP standards under WTO
- Different importers may have varying traceability requirements
- Increased burden for producing countries
- Smallscale farmers can be further marginalized



Information Requirement

- Requirements for record-keeping & documentation on food product
- Labeling
- Origin-labeling
- Requirements related to product removal, recall, and notification



Systems in Supply Chain

- Systems that cover operators at several stages in the supply chain
 - Quality Management System
 - Safety Management System
 - Inventory Management System
 - Production History Information Disclosure System



Case Studies from Japan

- Strict Market Requirements
- High volume of food importation
- Relatively quick response in public sector to food safety issues
- Overall high rates of IT adoption
- Small farms with IT adoption gap in rural areas
- Strong private and public sector collaboration



Examples of ICT used

- Integrated Circuit (IC) tag
- Handheld devices
- Web-based service technology



Traceability System in Supermarket



Information on crops (name & place of production, fertilizers & chemicals applied, other product specifications)

Information on cultivation & product



生產者名	#出農園 Name of farm (producer)
生産地	神奈川県臺武市 Place of production
载增方法	露港職場 Cultivation method
E.Fi	発表、牛義、蘇者を使う有機肥料を使用Fertilizer applied
自然	スピノエース葡萄水和剤、アドマイヤープロアブル、アファーム乳剤、ラービンプロアニ ルなどを使用 Chemical applied
2.4	Name of product

Variety

品紙 しずはま2号 **Comments and specifications of products**

萩培・流通映録(約60秒)

発見の装護	みずみずしく、新鮮です。	-
味の特徴	曲ざわりがよく、噛むとほんのり甘みがあります。	HE-MANN
生産者からのコメント	☆私の好きな食べ方☆ 1.サラダにして、ごまドレッシングやマヨネーズをかける 2.野菜炒めにする おいしく栄養価の高いキャベツの忍を、上手に活用して下さい。	
反地扬性	単新鮮なままお届けできます! 構成はどこにも負けません!!温度変化のないおいしさが味わえ	₩/編風 #
栽培上のこだわり	消費者の方が食べておいしいと思うものを作ること。そして作った作物 を。新鮮なうちに食べてもらうこと。この2点にこだわっています。	57.

Video of farmer and his farming practice

A.P.

Information on producers

074-M	Alexand and a second		Name of farm Name of producer
the state	生產者	并出農園	Address
	1 代表者反名	井出 茂廉	Phone
	住所	神奈川県麗沢市	Mail address
- W/	電話番号	X00X - XXX0 - XXXX	Home page
-1.1	メールアドレス	OO @ mpd.biglobe.ne.	ip .
- <u>M</u>	ホームページ		

私のこだわり野産作り 増肥(負責、牛糞、豚茸)をバランスよく使い、野菜が上手に栄養着給出来るようにしています。また、 同じ土巻で同じ作物は作らず、麝香に敷着作物を変えていき、土の栄養が腐らないように工夫していま Greetings from protuter (ホリー)の利む(内のつかのひじたの)でののでおりやます。 』

Tracking information on delivery history and route

18		田荷	
國馬虎	200 F	7月29日914:27	
aun	Time/Date of	f arrival	
通経路	天面	出荷	
AOO	7月29日9:15:22	7月29日 9:17:32	
	*	Time/Date	of departure
通經路	入商	出荷	
R送用A	7月29日9:17:32	7月29日917:54	
	*		
通経路	入商	出商	
5.烟	7月29日917:54	7月29日9:22:43	
	+		
1.通經路	入街	出育	
£送唐日	7月29日92243	7月29日923:07	
	Ŧ		
588	入荷	***	
売店	7.月 29日 9:23:07		
			and the second se
計時間	0:09:40		

A

Traceability system in production & distribution processes







IC chip





Barcode and Tag









ADB

Scheme of Certification and Distribution of Product



Case Study: Dried shiitake mushroom in Oita Prefecture

- Fraud in labeling of origin of products
- Oita Prefecture produces about 30% of domestic mushroom
- Packers and District markets formed a council to introduce the system





Scope of Traceability System in Oita



Role of Council

- Managing the "Made in Oita" symbol mark and operator ID number
- Auditing place-of-origin labeling
- Publicity
- Respond to inquiries regarding traceability



Costs of Investment

- Operating system
 \$ 10,000
- Hardware and software
 - -\$4,000
- Additional labor costs
 - 10-15 mins/day
- Management fee for council – \$100/year





Benefits

Increased in price

- Year 2000 : 2,432 yen/kg
- Year 2005 : 3,449 yen/kg
- Year 2007 : 4,000 yen/kg



Case Study: Poultry in Kyoto Prefecture

- Avian flu caused damaged to the industry
- Producers, distributors, and Poultry Safety Promotion Council of Kyoto Local Government formed a Council
- Consumer survey
- Reliability not the details





Scope of System

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- Farm
- Slaughtering house
- Processing house
- Retailer

Costs

Production and processing site

- Hardware and software: \$20,000/site
- Running costs: \$2,000/yr
 - Membership fee \$500/yr
 - Printing and supply of label \$400/yr
 - Hardware maintenance fee \$500/yr
 - Usage fee of software (Mistubishi) \$600/yr

Retail store running cost: \$2,000/yr





Benefits

- Feedback shows that consumers are satisfied with the system
- No price increase but sale of poultry resumed



Lessons from Japan

- Traceability Systems is essential in gaining market access
- Traceability systems promotes consumer confidence
- Traceability Systems improves business efficiency throughout the supply-chain
- ICT lead to efficient data management and access



Case Study from Lao PDR

- Pilot project to enable smallholder producer association to apply 'cloud based' software to implement paperless trade to export coffee
- Training time is about 30 mins
- Transaction cost declined by about \$200 USD per consignment



GMS Regional Program for E-Trade of AFF

- Regional farm assurance, Participatory Guarantee System, e-certification systems
- Regional traceability systems, starting with organic rice
- Pilot cross-border e-trade platform, starting with two products for each GMS countries



Lessons for CAREC

- Private and public sector collaboration is essential
- Public sector funding is required to kick start SPS and IT system development
- Industry association should take a leading role in establishment of the systems
- Extensive consultation of stakeholders along the supply chain to required
- Less extensive IT systems at the farmer level



Thank you for your attention

