Addressing Technical Issues for Paperless Trading and SW Implementation



Dr. Somnuk Keretho UNNExT Advisory Committee Director, Institute for IT Innovation Kasetsart University, Bangkok sk@ku-inova.org



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Speaker - Dr. Somnuk Keretho





Somnuk Keretho is an assistant professor of Computer Engineering Department, and the founding Director of Institute for IT Innovation (INOVA), a research and development institute of Kasetsart University, Thailand, specializing in ICT-enabled innovation, trade facilitation and e-logistics initiatives including Single Window strategic planning and implementation, enterprise information architecture for e-government and e-business, business process analysis and improvement, data harmonization and modeling, ICT-related standards and interoperability, e-transaction related laws, and process-oriented quality software engineering.

He has leaded several ICT strategic projects at organizational, national and regional levels. For the past seven years, he has assisted Ministry of Information and Communication Technology, National Economic and Social Development Board, Ministry of Transport, Port Authority of Thailand, and Ministry of Agriculture in architecting "Thailand Single-Window e-Logistics" related projects including its national e-logistics strategy, implementation plans, interoperability and standards, harmonization and simplification of trade and transport-related documents and procedures, automatic electronic-gate systems development for the Bangkok Port and the Leamchabang Sea Port, and several related software development projects.

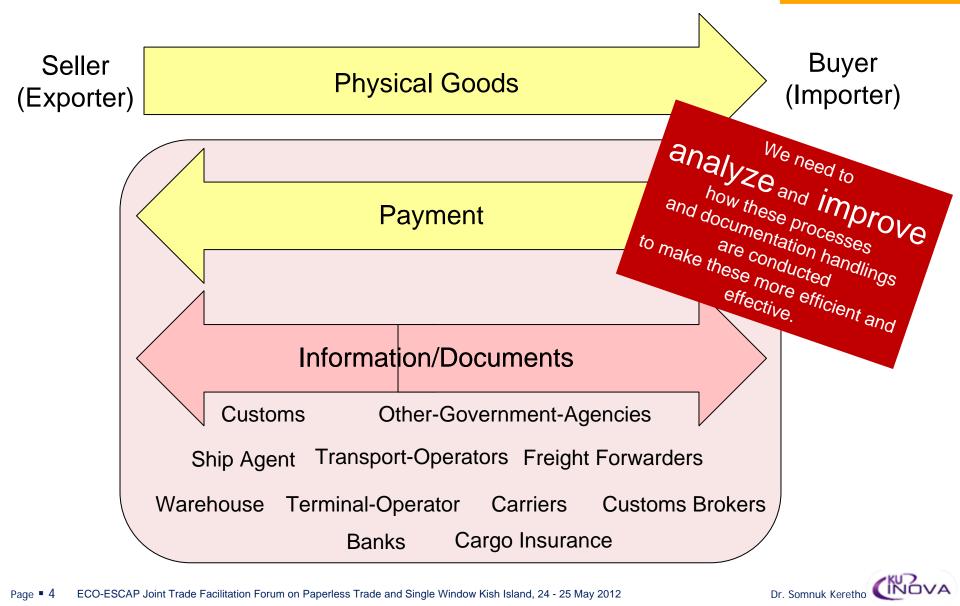
Several of those projects are being aligned with regional and international collaborations, in which Dr. Keretho has actively engaged mostly related to trade facilitation, single window and paperless trading initiatives through UNESCAP, UNECE, APEC and ASEAN. He has played several roles in catalyzing the creation of and actively contributing to the United Nations Network of Experts for Paperless Trade in Asia and the Pacific (www.unescap.org/unnext), and providing several technical supports to the APEC Paperless Trading and ASEAN Single Window Initiatives. He is the main author of the UNNExT Business Process Analysis Guide, the UNNExT Data Harmonization Guide and the UNNExT Managerial Guide for Single Window Planning and Implementation.

Topics of this presentation

- To introduce technical issues (what are they, and why they are important) related to SW Implementation
- Process Analysis and Process Improvement
- Data Harmonization & Document Simplification
- e-Message Development
- System Interface & Interoperability
- Online Security
- Use of Technical Standards



Trade Logistics – 3 Kinds of Flow

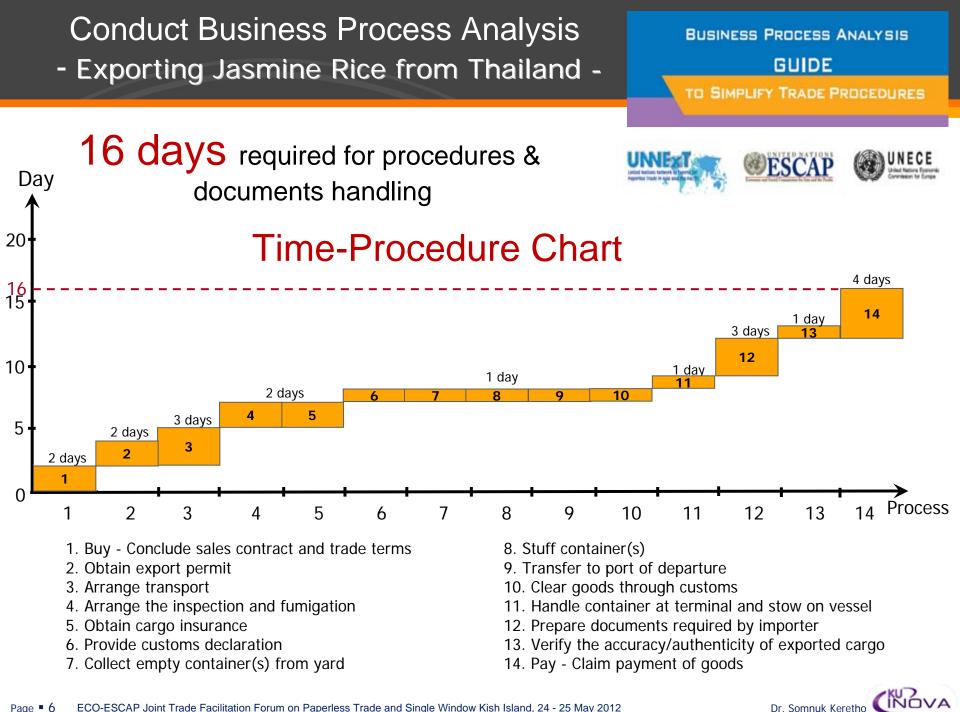


A Thai Case Example for Information/Document Flow

Documents related to Exportation of Rice (from purchase order until the cargo container leaving the sea port)

36 Documents involving 15 parties, and more than 1,140 data elements to be filled in

1.	Proforma Invoice (35)	21.	Master Sea Cargo Manifest(17)
2.	Purchase Order (39) Buy/Pay Docs	22.	House Sea Cargo Manifest (37)
3.	Commercial Invoice (51)	23.	Export Declaration (114) Regulatory Docs
4.	Application for Letter of Credit (24)	24.	Good Transition Control List (27)
5.	Letter of Credit (32)	25.	Application for Permission to Export Rice (KP. 2) (24)
6.	Packing List (25)	26.	Sales Report (KP 3) (21)
7.	Cargo Insurance Application Form (20)	27.	Application for the Collection of the Permit for the Export
8.	Cover Note (23) Transport Docs		of Rice (A. 3) (35)
9.	Insurance Policy (24)	28.	Permit for the Export of Rice (A. 4) (35)
10.	Booking Request Form – Border Crossing (25)	29.	Application for Certificate of Standards of Product (MS.
11.	Booking Confirmation – Border Crossing (30)		13/1) (44)
12.	Booking Request Form – Inland Transport (16)	30.	Certificate of Analysis (17)
13.	Booking Confirmation – Inland Transport (18)	31.	Certificate of Product Standards (MS. 24/1) (45)
14.	Bill of Lading (42)	32.	Certificate of Fumigation (21)
15.	Empty Container Movement Request (TKT 305) (2	33.	Application for Phytosanitary Certificate (PQ. 9) (29)
16.	Request for Port Entry (TKT 308.2) (27)	34.	Phytosanitary Certificate (33)
17.	Equipment Interchange Report (EIR) (24)	35.	Application for Certificate of Origin (42)
18.	Container Loading List (28)	36.	Certificate of Origin (38)
<u>19.</u>	Container List Message (32)		
20.	Outward Container List (34)	* Num	ber in parenthesis is the no. of data elements
Page	ECO-ESCAP Joint Trade Facilitation Forum on Paperless Trade and Single Window Kish Island, 24 - 25 May 2012 Dr. Somnuk Keretho		



(from purchasing time till the vessel leaving the port)

- •36 required documents (only 4-6 e-documents)
- 15 Stakeholders involved
- 14 big steps (123 small steps)
- 16 days needed (all together)



- -6 days for regulatory procedures
- -7 days for transport-related procedures
- 12 days for traders, banks and insurance procedures





The issue is about

Increasing al Trade Competitiveness

by improving rt/Transit Procedures and Documents Handlings among Government Agencies, Business Entities and ogistics/Transport Service Providers

s called "Trade Facilitation" improvement (the third flow of logistics) y national development agenda of most countries around the world.)