# PERSIDANGAN KEBANGSAAN MENGENAI MASYARAKAT BERMAKLUMAT NATIONAL SUMMIT ON INFORMATION SOCIETY (NASIS) 7 – 8 SEPTEMBER 2005 INTERNATIONAL CONVENTION CENTER, BRUNEI DARUSSALAM

Date of issue: 8<sup>th</sup> September 2005 Doc. S2-1

#### **Session 2: Enabling Environment and Policies**

**Enabling Environment and Policies for Paperless Trading [e-Logistics Initiative]** 

> Keynote Speaker by Dr Somnuk Keretho, Director of Institute for Innovative IT Kasetsart University, Thailand

(Thursday, 8<sup>th</sup> September 2005, 8.15am – 10.00am)

# Enabling Environment and Policies for Paperless Trading [e-Logistics Initiative]

National Summit on Information Society
7-8 September 2005, Brunei Darussalam

Dr. Somnuk Keretho
Advisor & Thailand e-Logistics Committee
Ministry of Information and Communication Technology

Director - Institute for IT Innovation Kasetsart University, Thailand





# \_\_\_\_

#### WSIS Key Principles related to Enabling Environment & Policies

- An enabling environment at national and international level is essential for information society.
- The development of ICT infrastructure and applications should maximize economic and social benefits, and serve national priorities.
- ICT-related efforts and programs are needed to be fully integrated in national and regional development strategies.
- Standardization development and adoption of international standards – is one of the essential building blocks of the information society.

П

# What are the questions?

- What are the criteria for enabling environment for information society?
- How could the current existing laws, regulations, and policies adapt to the new environment for information society?
- What is the future role of Internet Governance in information society?
- How would open & interoperable standards provide an enabling environment?
- How to deal with funding/investment issues?
- What are the best practical policies available to online privacy, spam, network security (against cyber-crimes, viruses and worms), copyrights and intellectual property rights (IPR)?

3

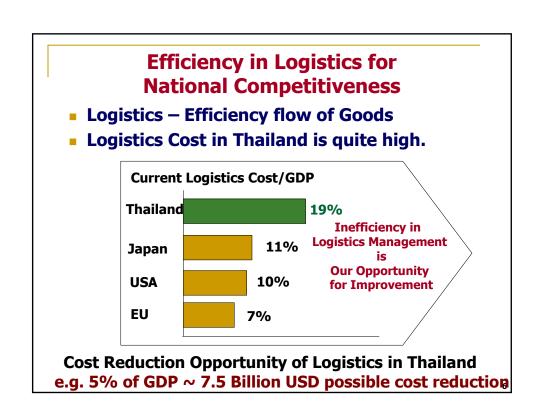
# **Outline**

- (National and Regional)
   Economic Development Agenda
   & ICT Policy Alignment
  - National Logistics Competitiveness & e-Logistics Initiative
- Open & Interoperable Standards
- Institutional Framework
- Investment & Business Model
- IT-related Legal Framework
- Conclusions

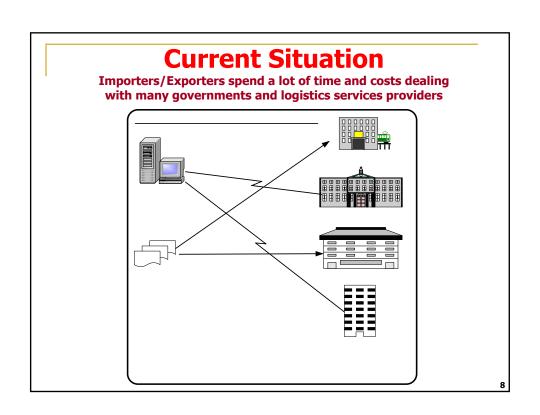


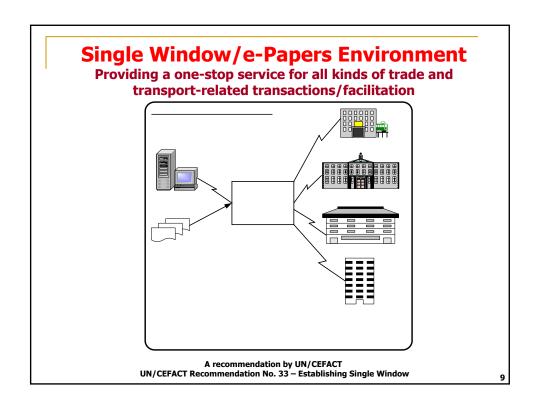


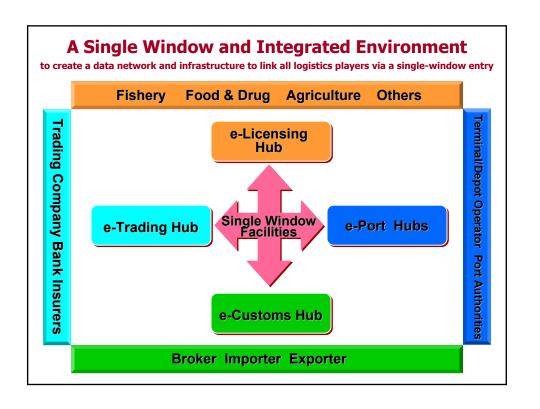


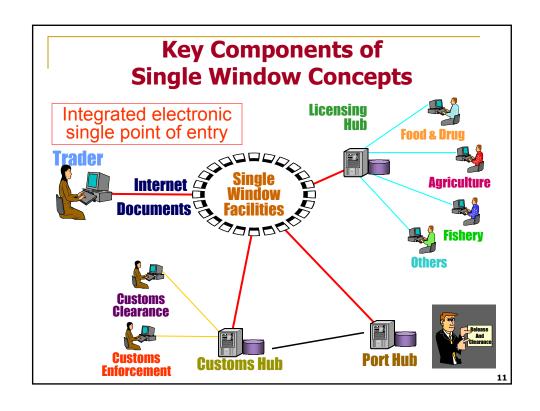


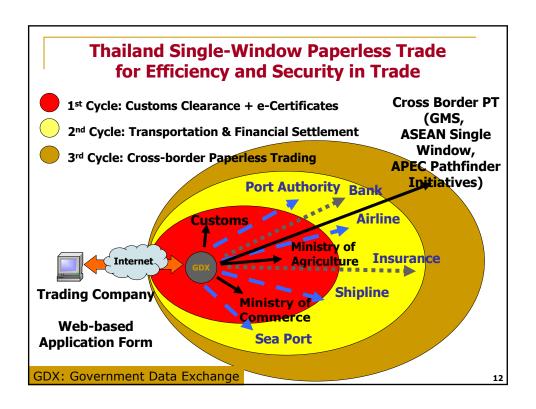


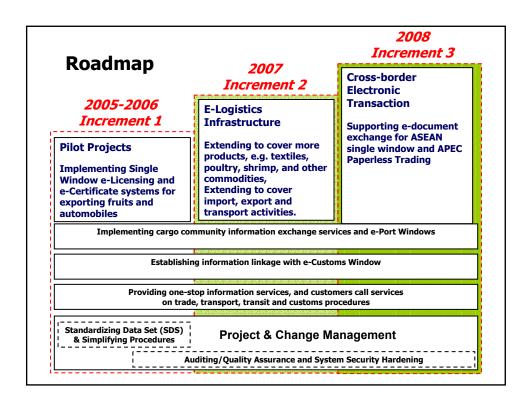












#### **A Pilot Project – Exporting Fruits**

 As Is: 7-10 days to obtain five related certificates, declarations and transportation documents

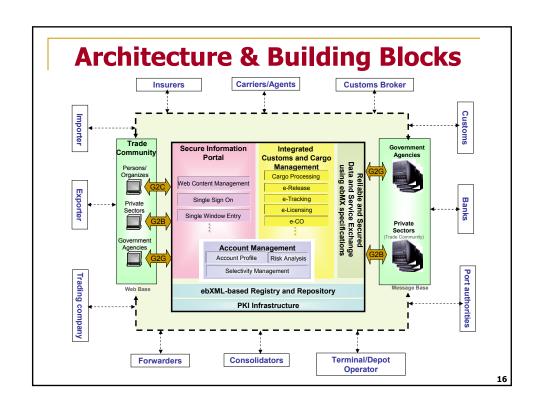
(4 government agencies, 5 related logistics providers) to export durians to China

- To be: One-Stop e-Services for Exporting Fruits by Dept of Export Promotion, MOC and other 8 departments
  - Centralized e-Forms & Internet Licensing with Digital Signature and Digital Watermarking in 15 minutes
    - Electronic Sanitary-Phytosanitary Certificates (e-SPS)
    - Electronic Certificate of Origins (e-CO)



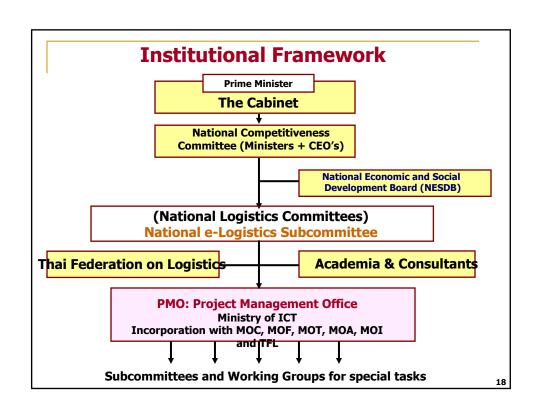
MOC MOA MOF MICT





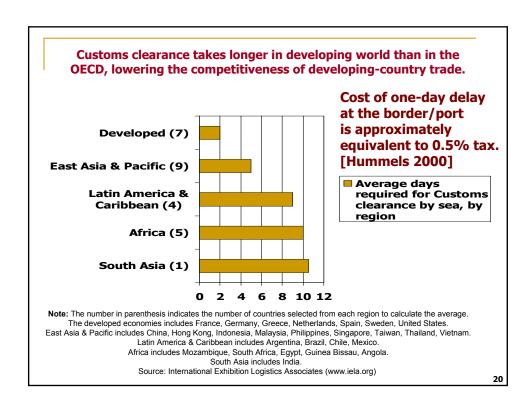
# **Open & Interoperable Standards**

- Standardized Data Elements
  - UN Trade Data Elements & Directory, UN Layout Key
  - WCO Data Model
- XML Document Exchange & Process Standards
  - UN/CEFACT Naming and Design Rules
  - UNeDOCs XML Schemas for trade and transportrelated documents, e.g. Purchase Order, Invoice, Customs Declaration, Health Certificates, Certificate of Origins, SPS Certificates
- Document and Service Exchange Protocols
  - ebXML Messaging Services (ISO/DTS 15000)
  - Certificate Authority (CA) Interoperability
  - Security Standards, e.g. BS 7799/ISO 17799



# **Cost/Benefits Analysis**

- *Investment*: 31 million USD for 3 years (~6.5 million USD is secured for 2006)
- Targeted Benefits: not less than .5% of Import/Export Volume
  - □ Costs saving -> 0.7 billion USD annually



# **Investment & Business Model** of the e-logistics platform

- Sustainability for the long-term development and operational services
- MICT is in a process of preparing a TOR for "calling for proposals" (CFP) including
  - Investment & Business Model of the System
  - Project Management + Collaboration Approaches
  - Development & Operational Services
  - Technical Solutions
  - Performance Indicators & Assessment

21

# **Recommended Key Performance Indicators**

- To improve time and cost factors
  - Phase 1:
    - Reduce Permit Processing time and cost by %
    - Reduce declaration by %
  - Phase 2:
    - Reduce the process at the port by %
    - Reduce overall end-to-end process by %
- Increase in volume of transactions by%
- Increase in the # of key constituents sign-on

For example, WCO Time Release Study is conducted to provide

Inerease introduced and introduced in the system of the sy

# **Legal Framework**

- Electronic Transaction Act 2001
  - Referring to UNCITRAL Model Law on Electronic Transaction and Digital Signatures
- Computer Crime Law\*
- Data Privacy Law\*\*
- Electronic Fund Transfer Law\*\*
- Public Key Infrastructure, and Authorized Certificate Authorities are

needed. \*This bill is under reviewed by the Cabinet

\*\*These bills is in a drafting and reviewing stage by stakeholders

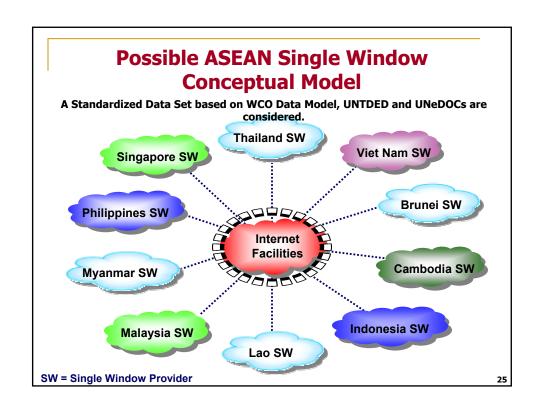
23

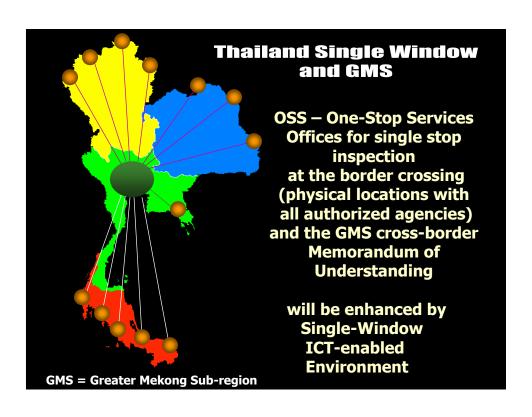
### **ASEAN Single Window**

- Single Submission,
- Single Decision Making,
- Single Data Processing

#### **Key Objective**

- To expedite and simplify information flow between government and trade and bring meaningful gain to all parties involved in international trade.
- To establish the viable, simplified, standardized and integrated environment for cargo clearance in line with international best practices
- To reduce time and resources needed for cargo clearance





# **Conclusions – Key Issues**

- Trade Facilitation begins at home (behind borders), but enhanced by regional integration (between borders)
- High-level Political Commitment and Resources
- Inter-agency & Public-Private Involvement
- Change Management (including human factors)
- Business/Investment Models
- Clear Roadmap
- Legal Framework and PKI Infrastructure
- Standardized Data Set (SDS) a pre-requisite for establishing Single Window Paperless Environment
- Interoperability/Standards, e.g. XML schemas, Protocols, and Security Standards

27

# Thank you

**Dr. Somnuk Keretho** 

Advisor & Thailand e-Logistics Committee Ministry of Information & Communication Technology

> Director - Institute for IT Innovation Kasetsart University Thailand





sk@ku.ac.th