

Business Process Analysis to Simplify Trade Procedures

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Topics of this session

- **What/Why?:** Business Process Analysis for TF
- **Graphical Notations:** Unified Modeling Language (UML)
- **Summary & Conclusions**



Session based on the UNNEXt Business Process Analysis Guide for the Simplification of Trade Procedures (2010/12)
unnex.unescap.org

What is a Business Process?

❖ **A Business Process** is a collection of related and structured activities or tasks that produce a specific service or product.

❖ Examples

- ▶ Procedures (including document transactions) of importing processed fruits to Kazakhstan from Kyrgyzstan
- ▶ Export Customs Declaration and Clearance Procedures at the Border Point
- ▶ Applying & Issuing Process for a Certificate of Origin (e.g. as needed to import goods to Azerbaijan)
- ▶ Applying & Issuing Process for a Phyto-sanitary Certificate

What is...

❖ ...a Business Process Analysis (BPA)?

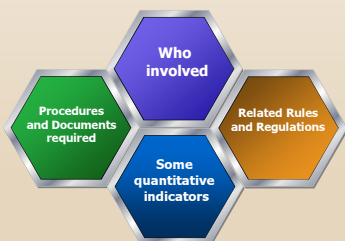
A modelling and analysis of business processes for understanding the current situations and proposing recommendations for improvement.

❖ Examples

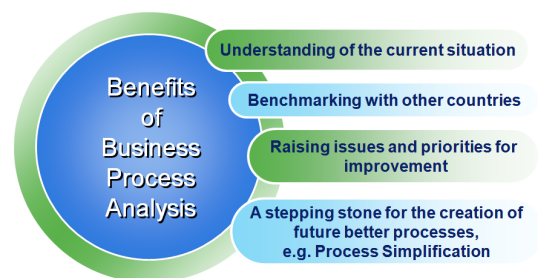
- ▶ Documenting some existing core processes of an organization in delivering some services to its customers
- ▶ Describing a "Standard Procedure," with some exceptional cases
- ▶ Identifying quantitative indicators related to a specified process, e.g. no. of documents, no. of steps, and time/cost of each step
- ▶ Analysis of bottlenecks or redundancies in procedures & documentation
- ▶ Providing recommendations for process simplification or process automation.

Why conduct a Business Process Analysis?

Business Process Analysis is a practical study
□ to understand attributes of business processes, and their relationships



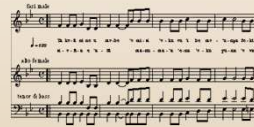
What are benefits of Business Process Analysis?



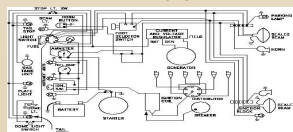
Unified Modeling Language (UML)

- ❖ A set of standard graphical notations for documenting a business process and business requirements

- Is widely recognized and used among practitioners in business community as well as those in IT and software industry
- Allows business domain experts to communicate procedural and documentary requirements with IT implementation or software development team



A common language for musician



A common language for electrical engineer

UML Notations for Use Case Diagram

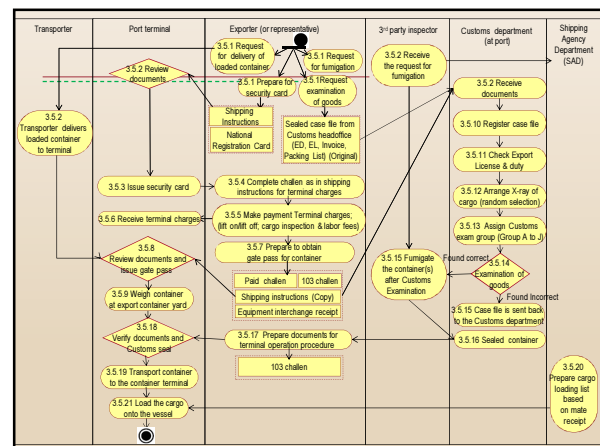
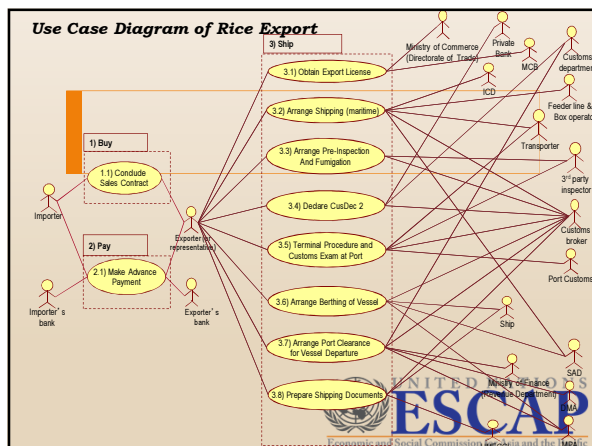
Notation	Description
	Actor □ Represents a role in a particular business process □ Is labeled with a role name
	Use Case □ Represents a business process □ Is labeled with a descriptive verb phrase
	Relationship Association □ Link actors with business processes that they participate in
	Subject Boundary □ Represents a process area □ Includes the name of a subject boundary on top

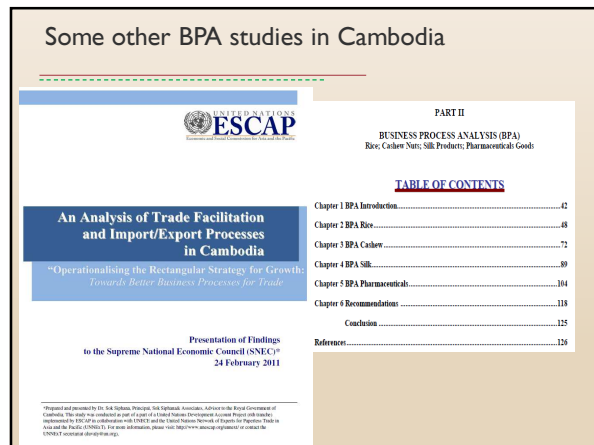
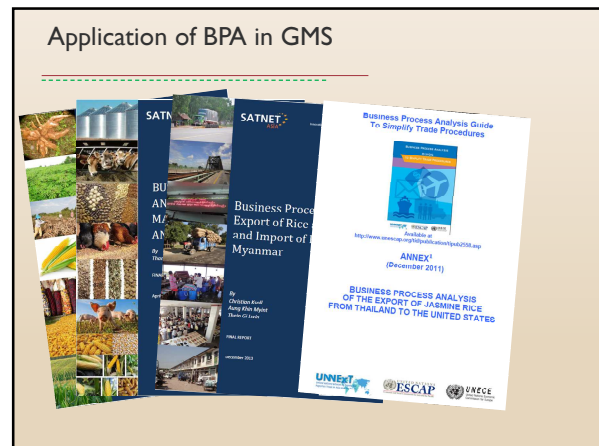
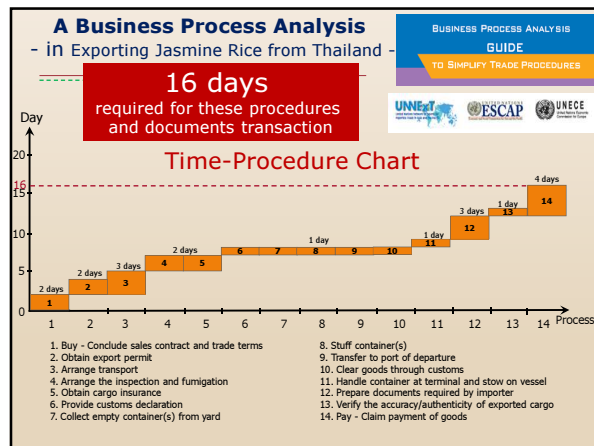
UML Notations for Activity Diagram

Notation	Description	Notation	Description
	Initial State □ Represents the beginning of a set of activities		Swimlane □ Is used to break up individual actions to individual agencies that are responsible for executing their actions □ Is labeled with the name of the responsible individual or agency
	Final Activity State □ Indicates the completion of the business process		Activity □ Represents a non-decomposable piece of behavior □ Is labeled with a name that 1) begins with a verb and ends with a noun, and 2) is short yet contain enough information for readers to comprehend
	Final Flow State □ Indicates that further activities cannot be pursued		Decision □ Represents the point where a decision has to be made given specific conditions □ Attached with labels addressing the condition on each transition line that comes out of an activities and connects to a decision point or vice versa
	Transition Line □ Indicates a sequential flow of actions and information in an activity diagram		
	Fork (Splitting of Control) □ Visualizes a set of parallel or concurrent flow of actions		
	Join (Synchronization of Control) □ Indicates the end of parallel or concurrent flow of activities		
	Object □ Represents a document or information that flows from one activity to another activity (labeled with the name of a document)		

Business Process Analysis (BPA) for trade facilitation

1. A **use case diagram** showing the scope of the business process analysis project;
2. A set of **activity diagrams**; each explains a core business process as represented by a use case in the use case diagram; (together with a set of process descriptions);
3. A list of trade forms and documents which may be accompanied with samples of physical copies;
4. Costs and time for each procedure;
5. A time-procedure chart;
6. A list of identified bottlenecks; and
7. Recommendations to improve the business process and/or to-be business process models.





Business Process Analysis (tpad.unnext.org)

Over 50 import and export process cases are included, based on studies conducted since 2009 by international organizations such as ESCAP, ECE, ADB and their member states.

TPAD can help you easily identify the studies related to a specific country

No.	Exporting country	Importing Country	Product	Corridors and routes	Study period	Link to study
1	Cambodia	France	Rice	Through Sihanoukville Autonomous Port - Europe	2010 to 2011	Download
2	Cambodia	India	Cashew nut	Through Sihanoukville Autonomous Port - India	2010 to 2011	Download
3	Cambodia	Germany	Silk	Phnom Penh Road 64 - Phnom Penh International Airport - Hannover Airport	2010 to 2011	Download
4	Cambodia	China	Cassava	Sihanoukville Autonomous Port - Hong Kong	2012 to 2013	Download
5	Cambodia	China	Maize	Sihanoukville Autonomous Port - Hong Kong	2012 to 2013	Download

Trade Process Analysis Database (TPAD)

No.	Exporting country	Importing Country	Product	Corridors and routes	Study period	Procedure name
1	Cambodia	France	Rice	Through Sihanoukville Autonomous Port - Europe	2010 to 2011	Apply for phytosanitary certificate
2	Cambodia	India	Cashew nut	Through Sihanoukville Autonomous Port - India	2010 to 2011	Apply for phytosanitary certificate
3	Bhutan	Bangladesh	Orange	Phnom Penh - Indragiri	2011 to 2012	Apply for

Indicators related to Trade Procedures in GMS

Export country and product	Destination	No. of days	No. of actors involved	No. of procedures	Type of documents required	Cost (\$)
Cambodia – Maize	China	20	15	13	22	1250-1360
Lao PDR – Maize	Thailand	16	11	8	21	735
Myanmar – Rice	West Africa	19-23	20	10	>25	425

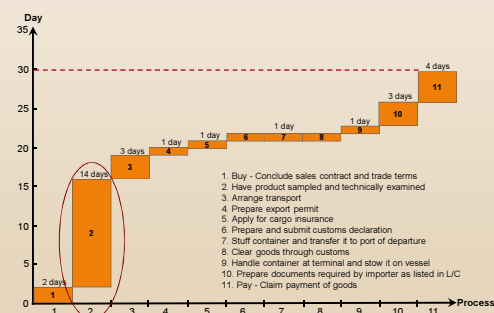
Source: ESCAP BPA Study Reports 2013-14, available at:
http://umnext.unescap.org/tools/business_process.asp

Comparison of a specific export procedure: apply for Sanitary and Phyto-sanitary Certificate for export of agro-food products

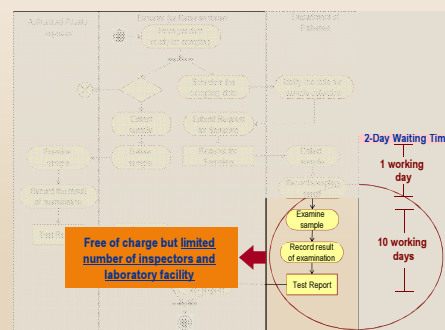
	Cambodia	Lao PDR	Myanmar
Trading partner	China	Thailand	West Africa
Product	Maize	Maize	Rice
Number of days required	2-5	2	2
Documents required	i. Phyto-sanitary Certificate application form ii. Commercial invoice iii. Packing list iv. Release container v. Fumigation certificate	i. Phytosanitary application form ii. Packing list iii. Export license iv. Customs certification v. Business license from Vietnamese Capital Agricultural Dept. vi. Commercial contract among importer and exporter vii. Pro-forma invoice	i. Shipping instructions ii. National registration card iii. Sealed case file from Customs iv. Export declaration v. Export license vi. Invoice vii. Packing list
Stakeholders involved	i. Exporter ii. Ministry of Agriculture Forestry and Fisheries	i. Exporter ii. Vientiane Capital agriculture Division	i. Exporter ii. Ministry of Agriculture

Source: ESCAP BPA Study Reports 2013-14, available at:
http://umnext.unescap.org/tools/business_process.asp

Case I: Thailand's Export Process of Frozen Shrimp



Example of identifying bottleneck: Thailand's Export Process of Frozen Shrimp



An example of recommendations for improvement of trade procedures

Benefits of the BPA studies: An example in Cambodia

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_3224

