

BaSiM Final Conference

WP4



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WP 4

Baltic Sea Motorways supporting information services



- 1. General aims of our activities**
- 2. The review of Baltic Sea Motorway information services situation**
- 3. The review of ICT standards in the international trade and transport**
- 4. Model of the repository and electronic documents interchange**

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General objective and aim



Supporting information services required in modern maritime collaboration for reducing disparities and increased cohesion in BSR traffic of goods.

Generally we achieved intended objective of WP4.

Necessary Supporting Information Service for companies, organizations and ICT to simplify concrete system implementation in the future was created.

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- Growing number of various ICT applications support management of the company and gives possibility to send data in electronic format, *but at the same time there is not enough interoperability and cooperation*
- Software offered by ICT companies or created internally by programmers, are based on different standards and use various file formats.
- Lack of common document standards makes it very difficult to exchange electronic documents between business partners.

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Ineffective and insufficient information exchange has negative impact on business processes.

Mistakes in documents,
missing information,
difficult access to actual and required data,

all that leads to:
increased costs,
extended time of transport,
lower quality of services.



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Ensuring common European standards for designing and organization of electronic market, such as:



- information structure
- communication mechanisms and protocols,
- security,
- technology infrastructure,
- confidence level,
- legislation procedures,
- national policies

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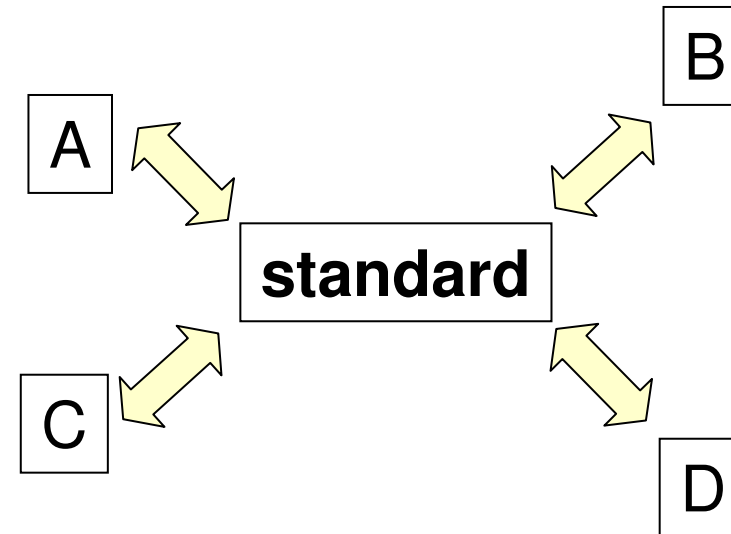
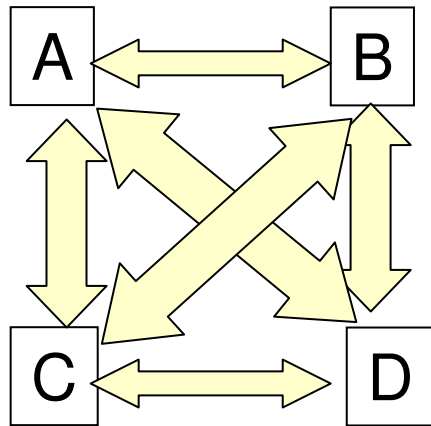
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The review of ICT standards in the international trade and transport

Integration of logistics chains

many partners



- they vary in the size and IT advancement
- their business processes are various

**ANY CHAIN IS AS STRONG AS
ITS WEAKEST LINK**

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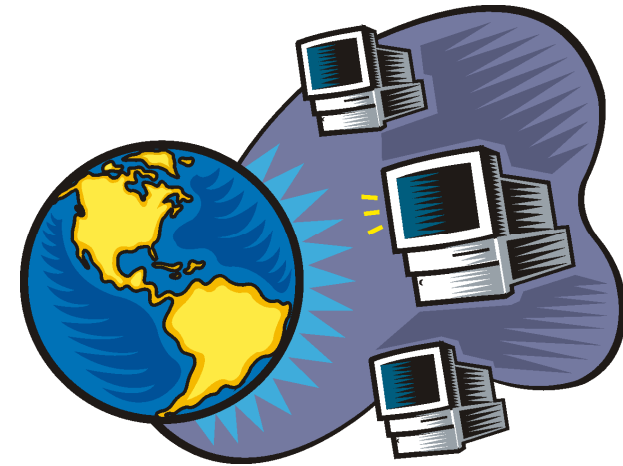


„para-standards”:

- office documents: MS Word
- research texts: Postscript, TeX, pdf
- Internet: HTML, GIF, JPG, ...
- EDI: e.g. EDIFACT

standard has to be:

- publicly owned
- open and public
- independent from any manufacturer



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**There are many standards
in use...**

Range	Industry specific	Inter-industry
National	<ul style="list-style-type: none"> • VDA (automobile industry; Germany) • TRAF 	ANSI X.12 (USA)
Inter-national	<ul style="list-style-type: none"> • ODI • SWI • RIN (insurance) • UN/EDIFACT – various standards 	UN/EDIFACT

**IT DOES NOT MAKE
BUSINESS EASIER**

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Why XML is so unique?

- it is readable both for people and computers
- XML enables separating data from their presentations and definition
- XML provides easy data interchange
- Internet browser is sufficient to use it
- it is independent from both software and hardware
- it is generally approved and recommended
- XML tags are not defined - users make them
- the structure of data is defined
 - Data Type Documents
 - Data profile

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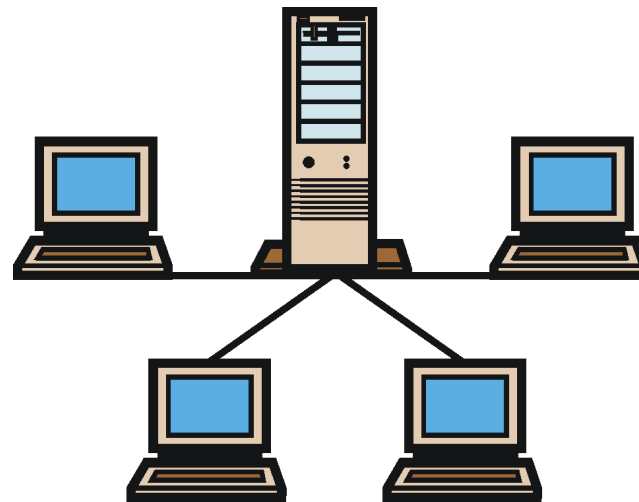
Model of the repository and electronic documents interchange

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Concept

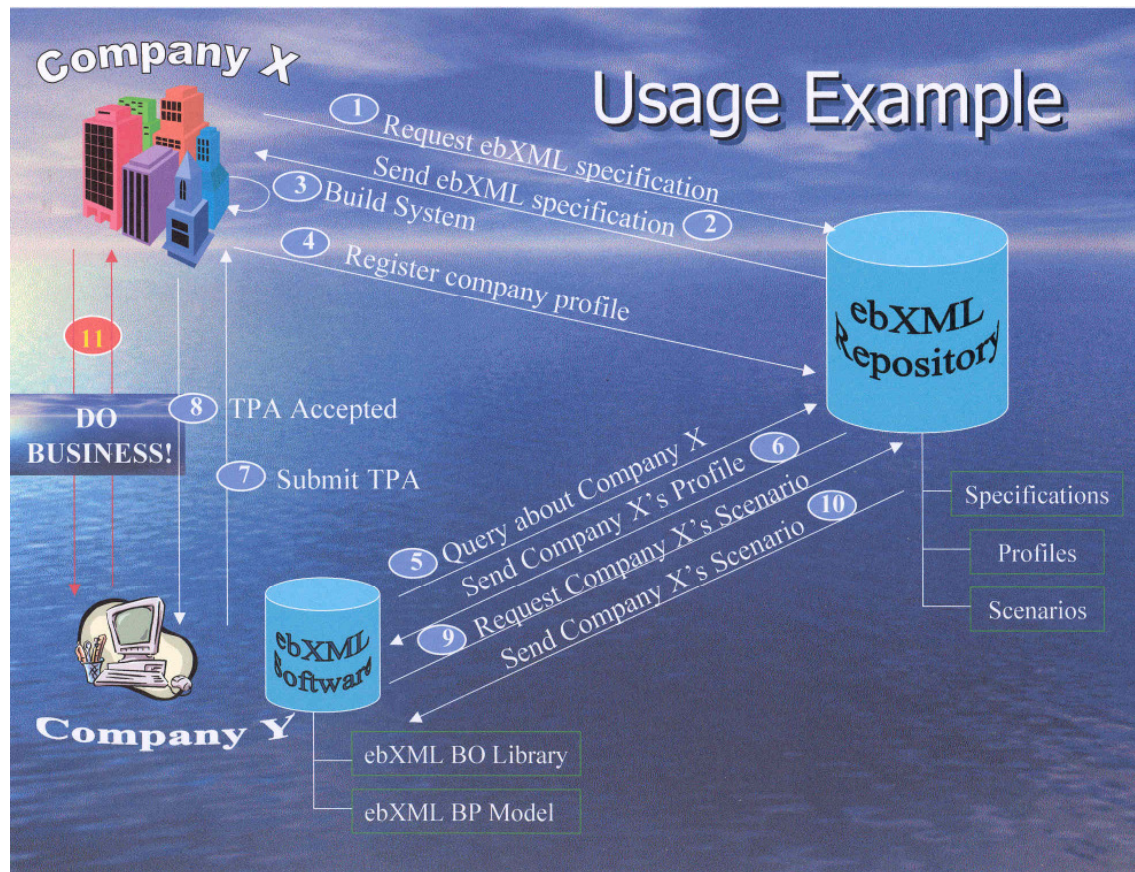
Implemented by means of a **demonstrator** functioning on the Internet e-business communication platform with the assistance of a **repository** of electronic documents.



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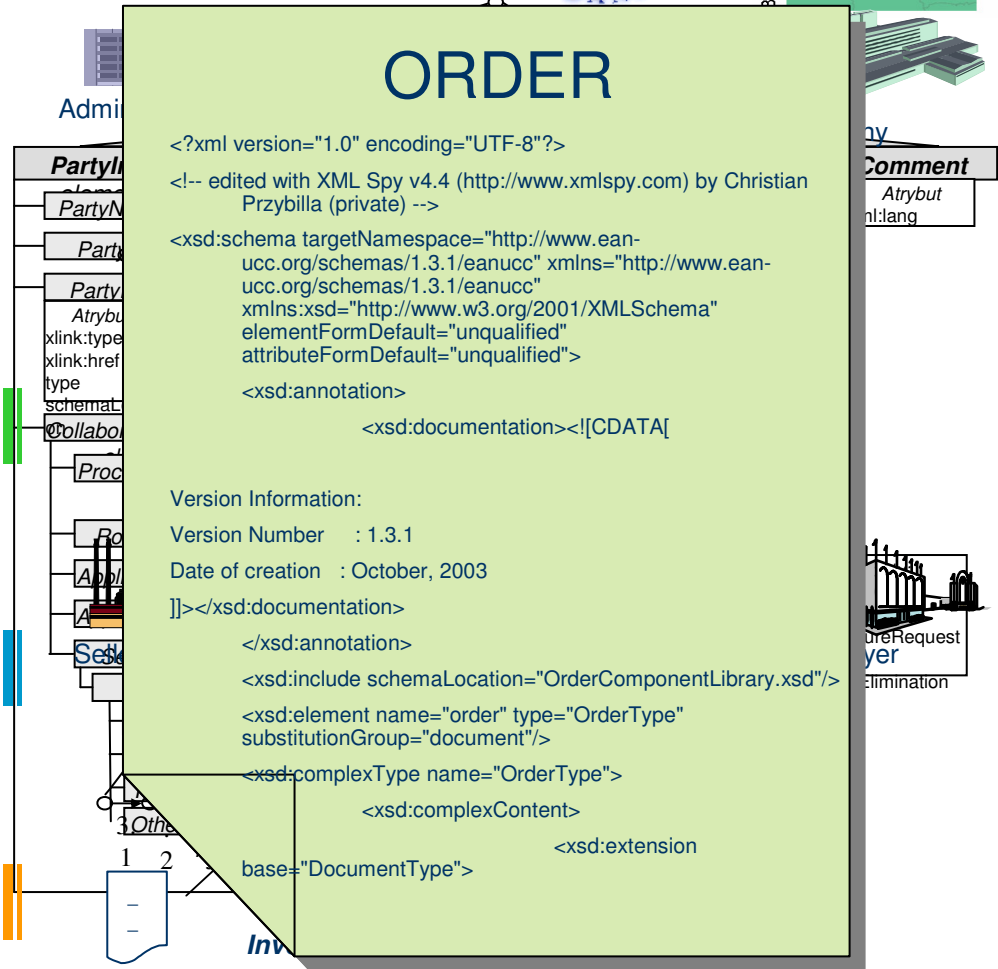
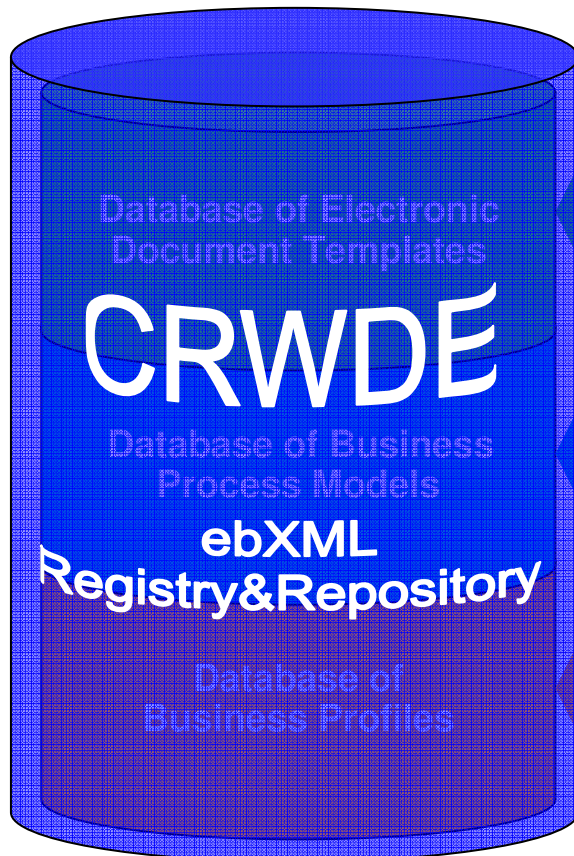


Model of the repository and electronic documents interchange



Electronic documents interchange with the use of ebXML Repository

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XML Design Rules for EAN.UCC Business Process
ebXML Message Specification Schema
ebXML Catalog of Common Business Process

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Database of business profiles (DBBP)

the business profile of the entity

Entities consists of two parts according to *ebXML Business Process Specification Scheme* standards (*ebBPSS*):

- *Business Collaboration Profile* - uses the defined and representative parameters of the business entity, the range, geographical scope, the means of running activity and customer service
- *Business Collaboration Agreement* - uses the defined parameters' descriptions and the terms of cooperation (informatics-technology specification) that facilitate information interchange.

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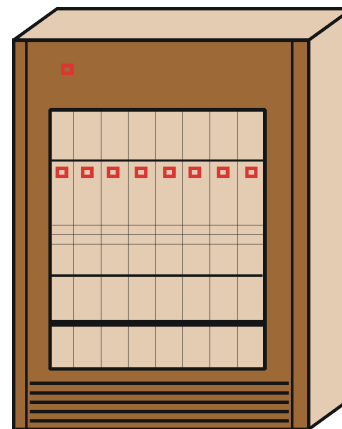


Database of business processes' models

Consists of

- models of main business processes (*General Business Model*)
- component models common for main economic processes,

universal for all economic sectors and world areas (*Catalogue of Common Business Processes*)

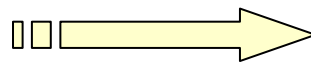




Database of electronic documents' templates

consists of:

- records
- tables
- forms of electronic documents
- precise definitions**



data structure -

type of document -

sequence of data in the document -

grouping data, e.g. *suppliers, receivers,*
***object of transaction, terms of delivery etc.* -**

blank forms and specifications for filling them out -



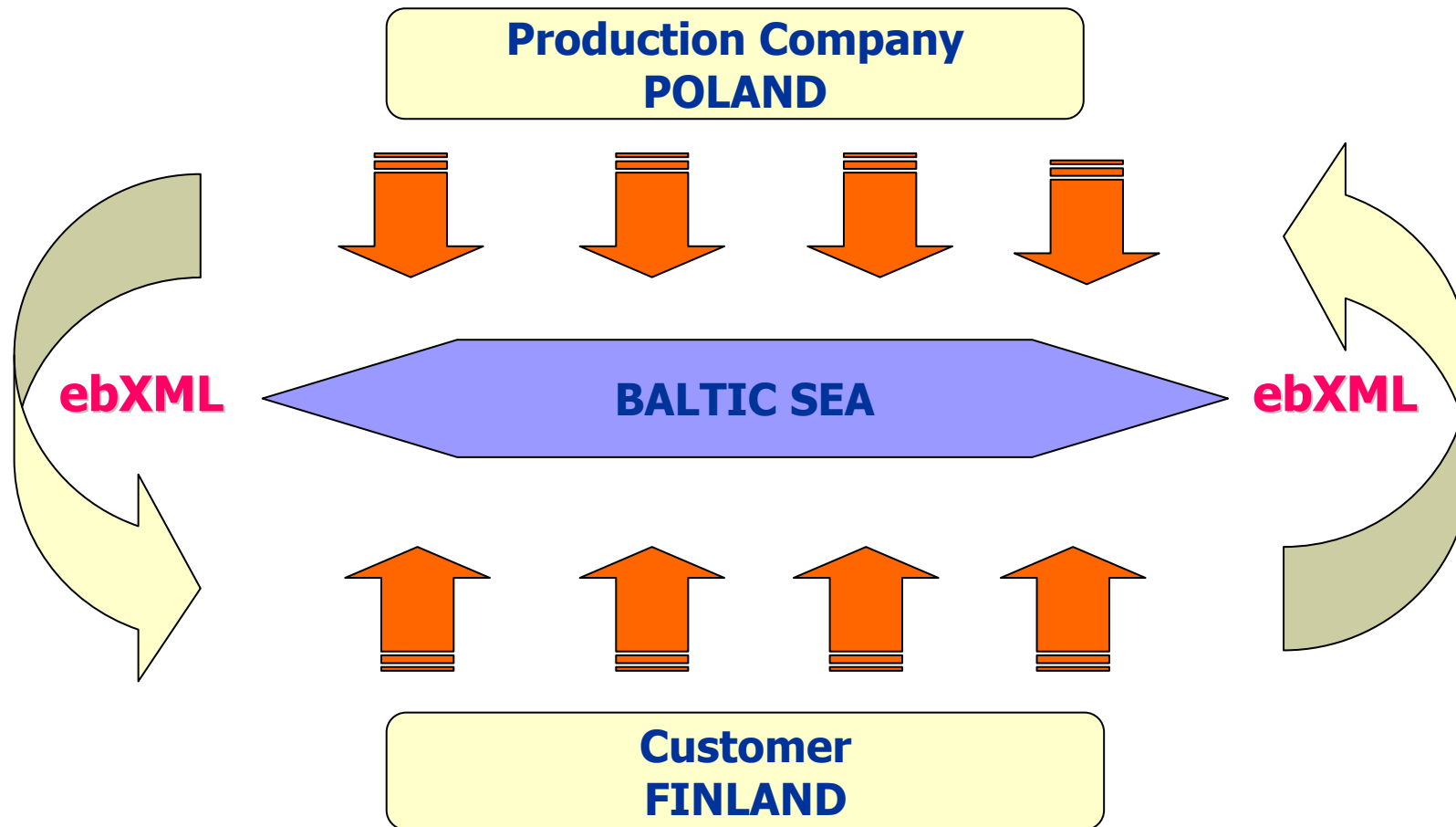
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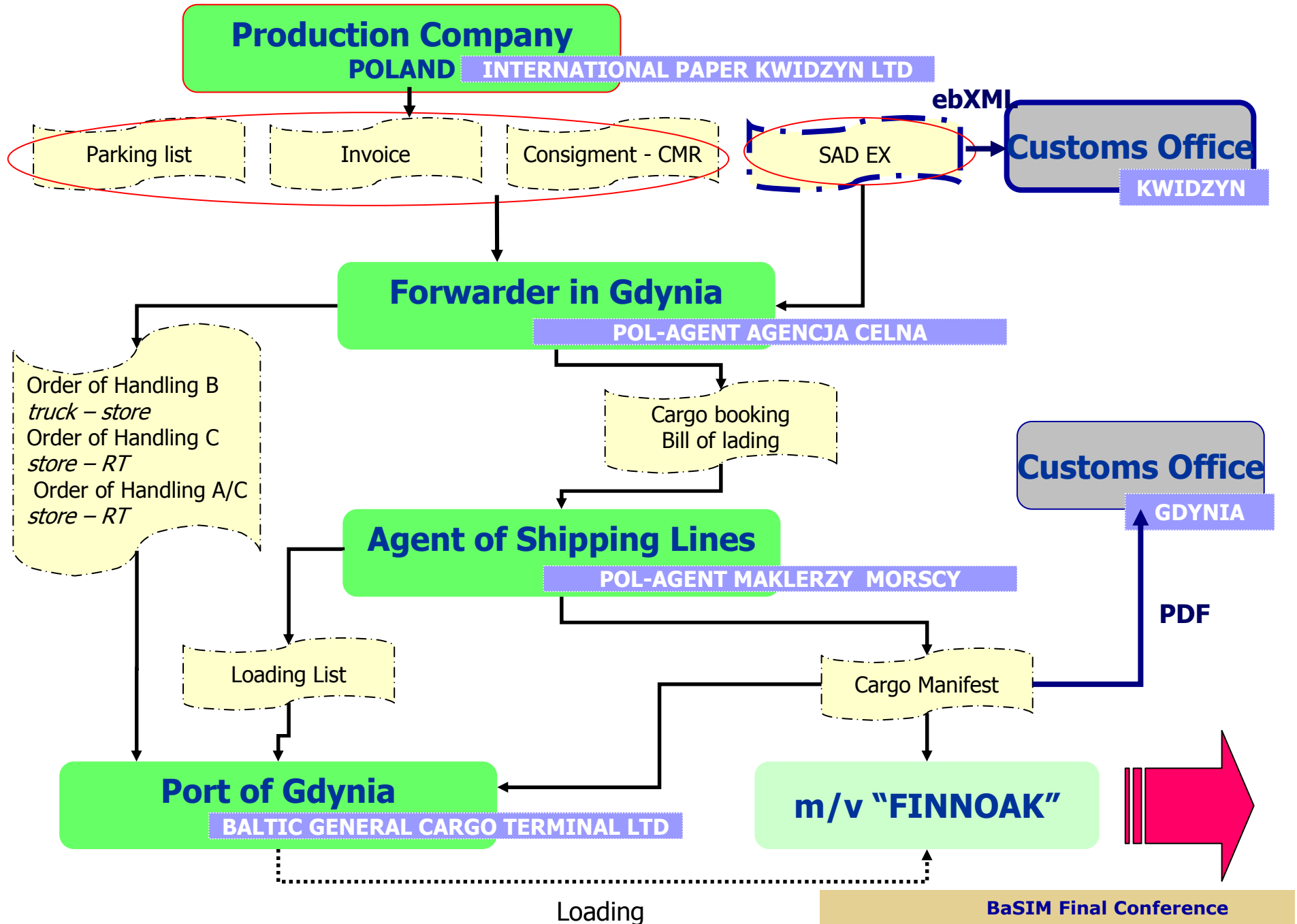


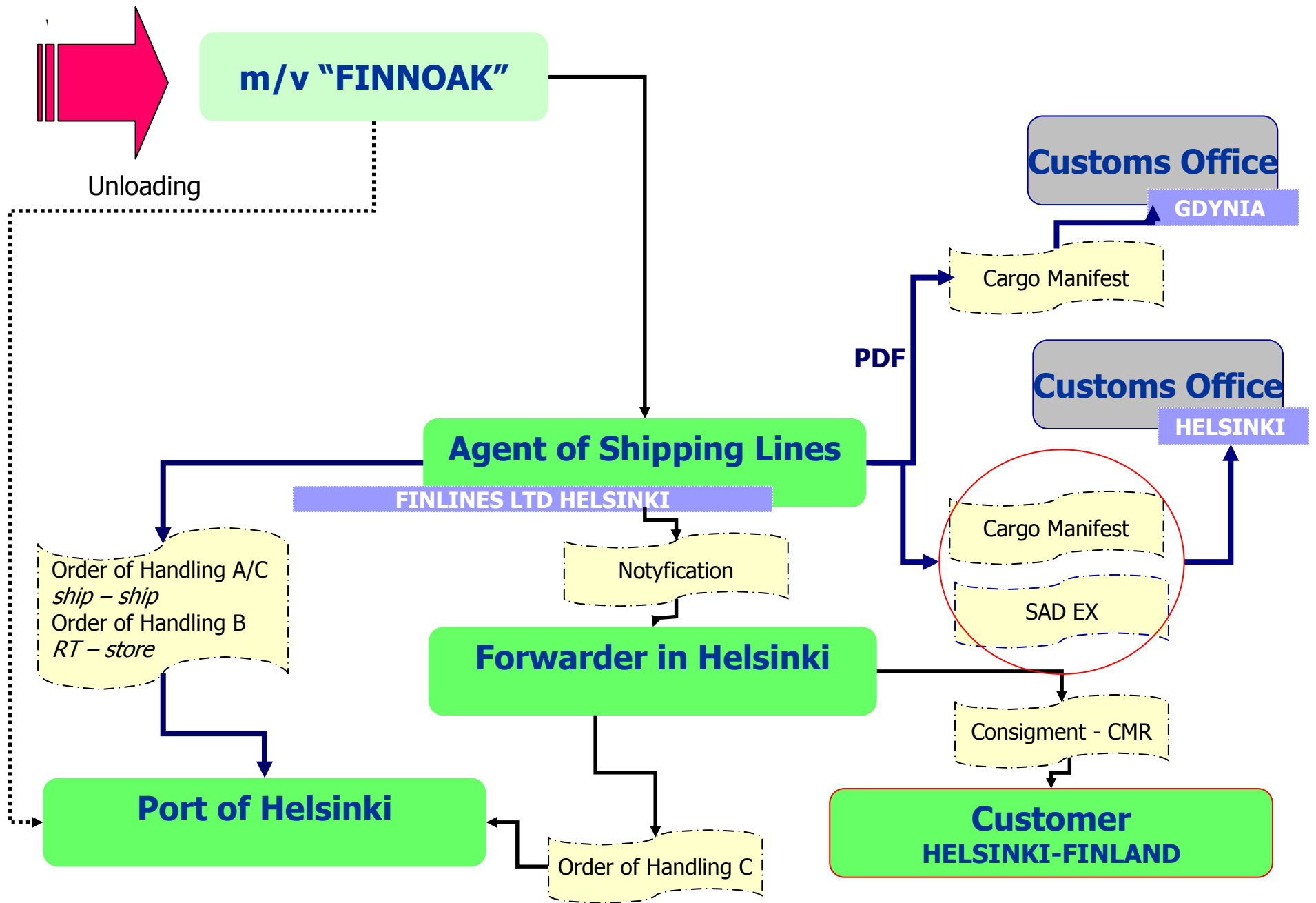
C a s e

Poland - Finland

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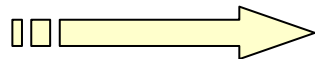
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Existing DOCUMENTS

consists of:

- Parking list
- Invoice
- International Consignment (road, rail)
- SAD EX
- SAD EX KARTA
- Notification
- Cargo manifest
- Cargo booking
- Bill of lading
- Order of Handling



B truck - store
C store - RT
A/C store - RT



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Existing ACTORS

PORODUCTION COMPANY (INTERNATIONAL PAPER KWIDZYN LTD)
CUSTOMER IN HELSINKI

SHIPPING LINES (M/V "FINOUK"; FINLINES LTD)
AGENT OF SHIPPING LINES

-Customs Office

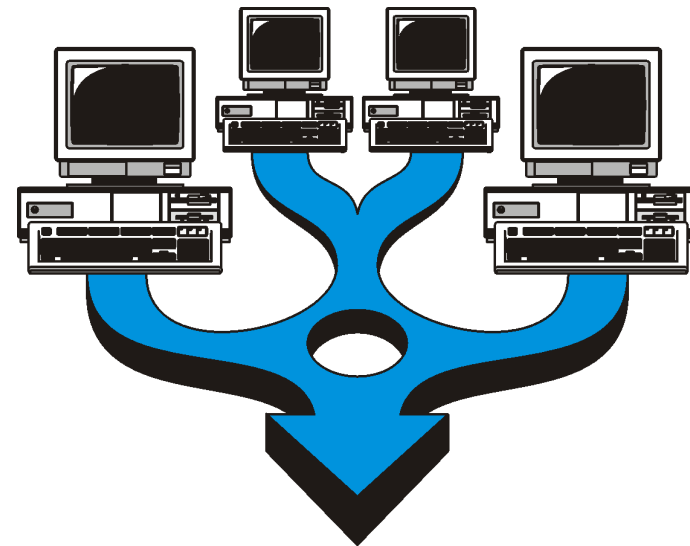
- KWIDZYN
- GDYNIA
- HELSINKI

-Forwarders

- GDYNIA
- HELSINKI

-PORT OF GDYNIA (BALTIC GENERAL CARGO TERMINAL LTD)

-PORT OF HELSINKI



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The barriers e-business in Baltic Sea Region

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Active partners

MI -Maritime Institute in Gdańsk – WP leader

ILiM- Institute of Logistics and Warehousing, Poland

PoG - Port of Gdańsk Authority, Poland

PoSz –Authority of Szczecin and Świnoujście Seaports, Poland

TZL -Technik Center Luebeck, Germany

FMA - Finish Maritime Administration, Finland

FDT – Association of Danish Transport Centres, Denmark

Advisory partners

MinI-Ministry of Infrastructure, Poland

UoG -University of Gdańsk, Faculty of Economics, Poland

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Thank you for your attention!

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