



Electronic information and transaction platforms for logistics and transport

Prague Workshop, 7th – 8th November 2005

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Agenda

- The supply chain information flow
- Role of paper
- Extra costs?

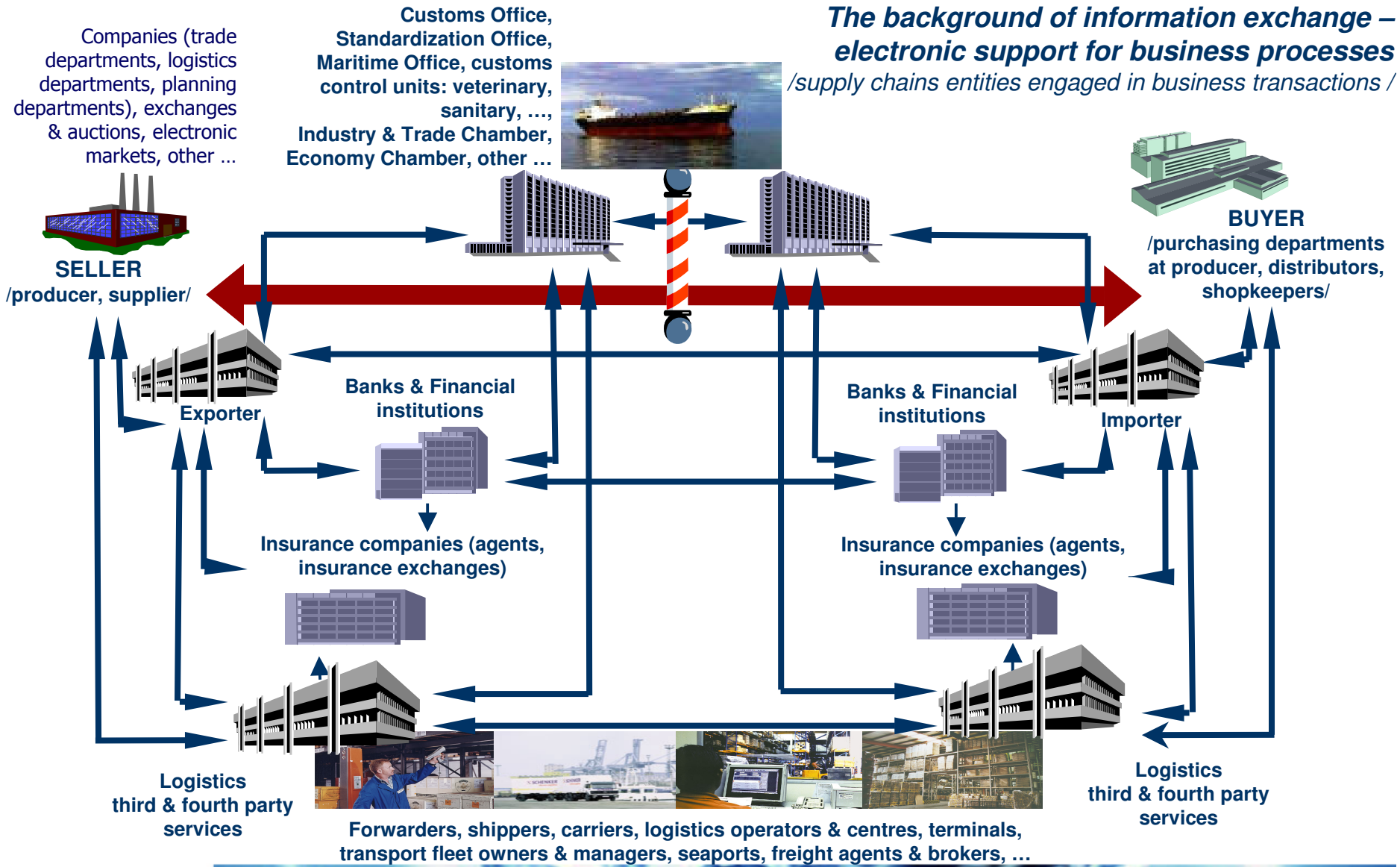
Troubleshooting

- Standards
- Tools
- Best practises





The background of information exchange – electronic support for business processes
/supply chains entities engaged in business transactions /



A chain...

Final consumer

Logistics Centre

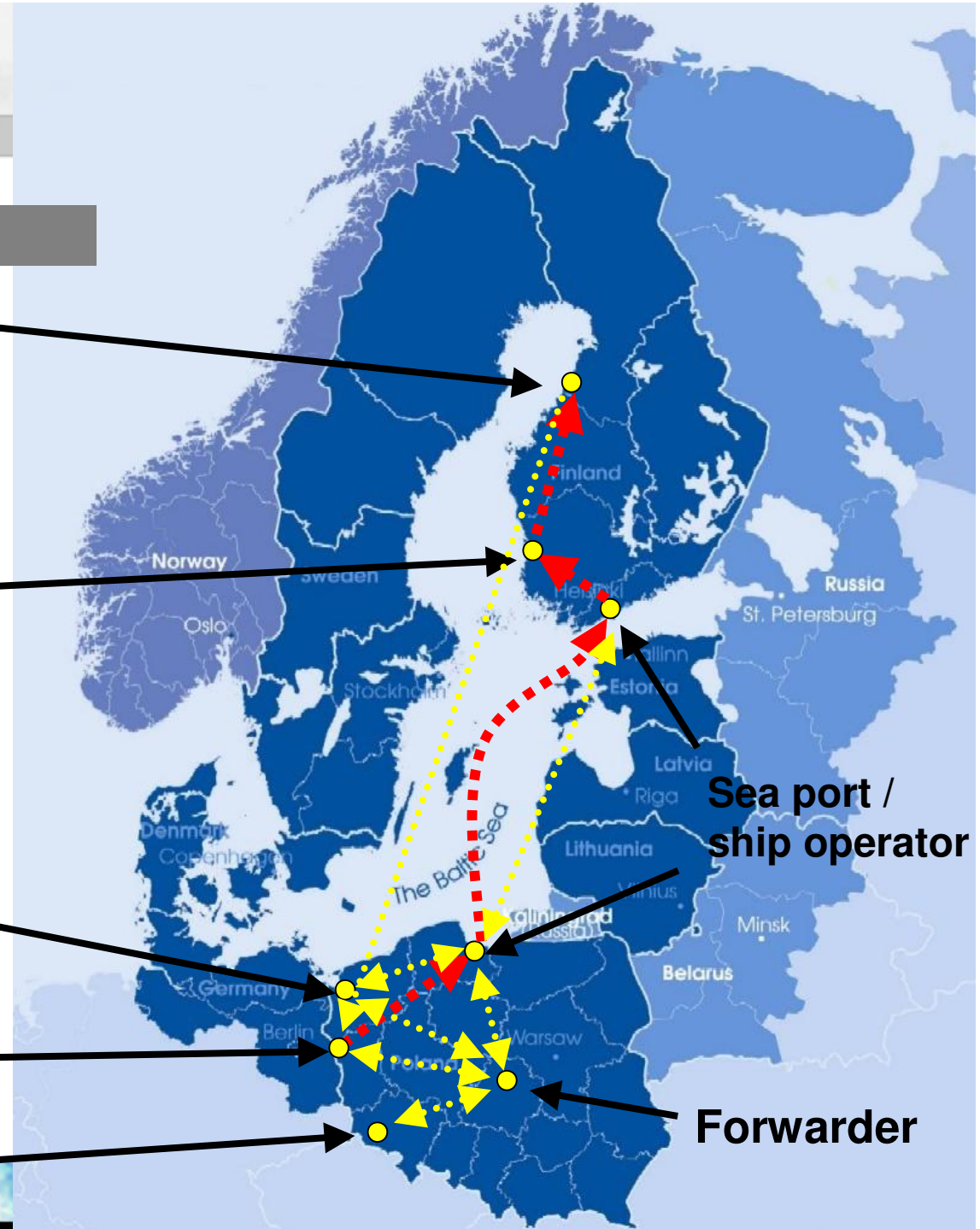
Sanitary office

Meat factory

Carrier

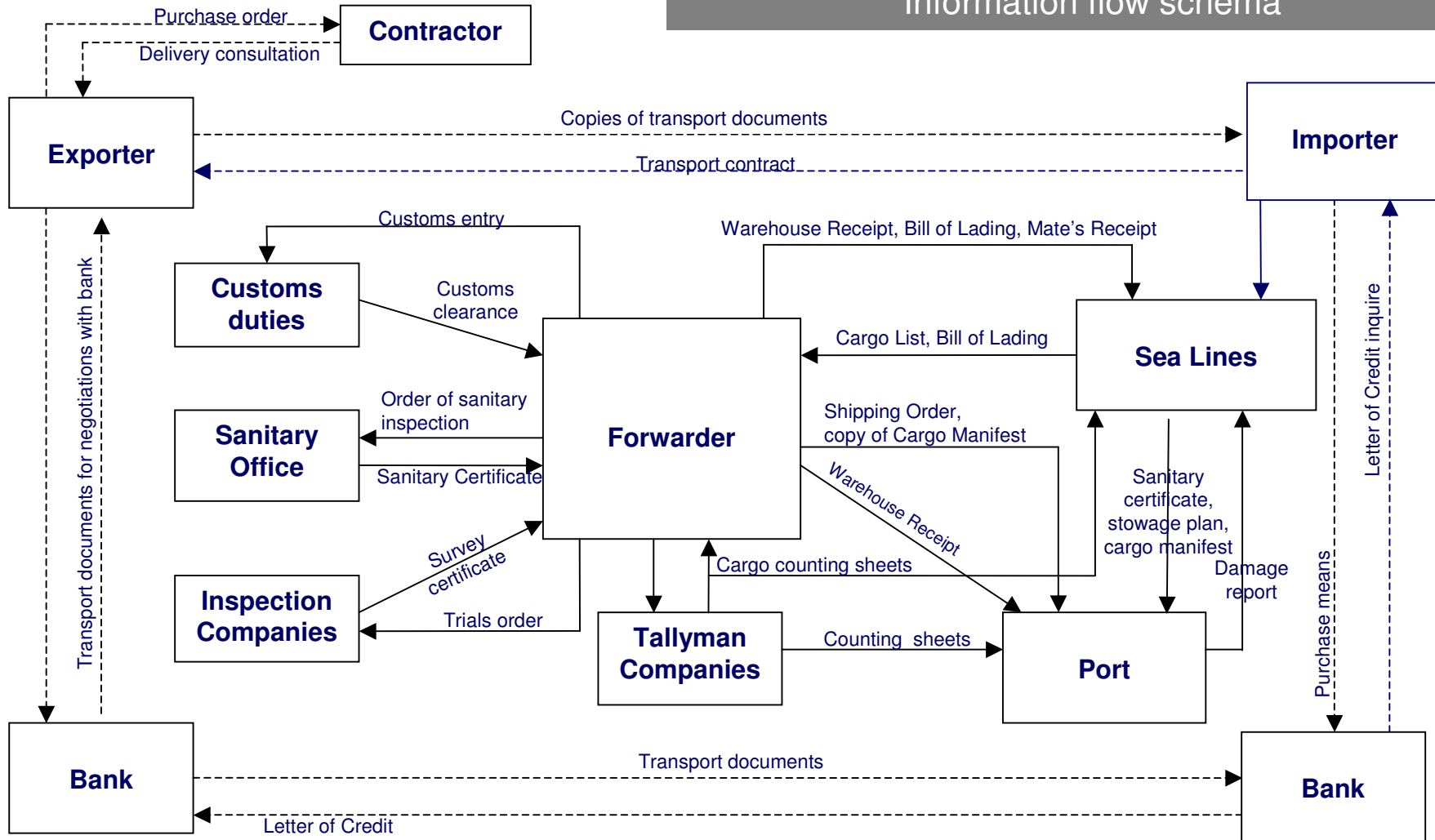
**Sea port /
ship operator**

Forwarder





Information flow schema

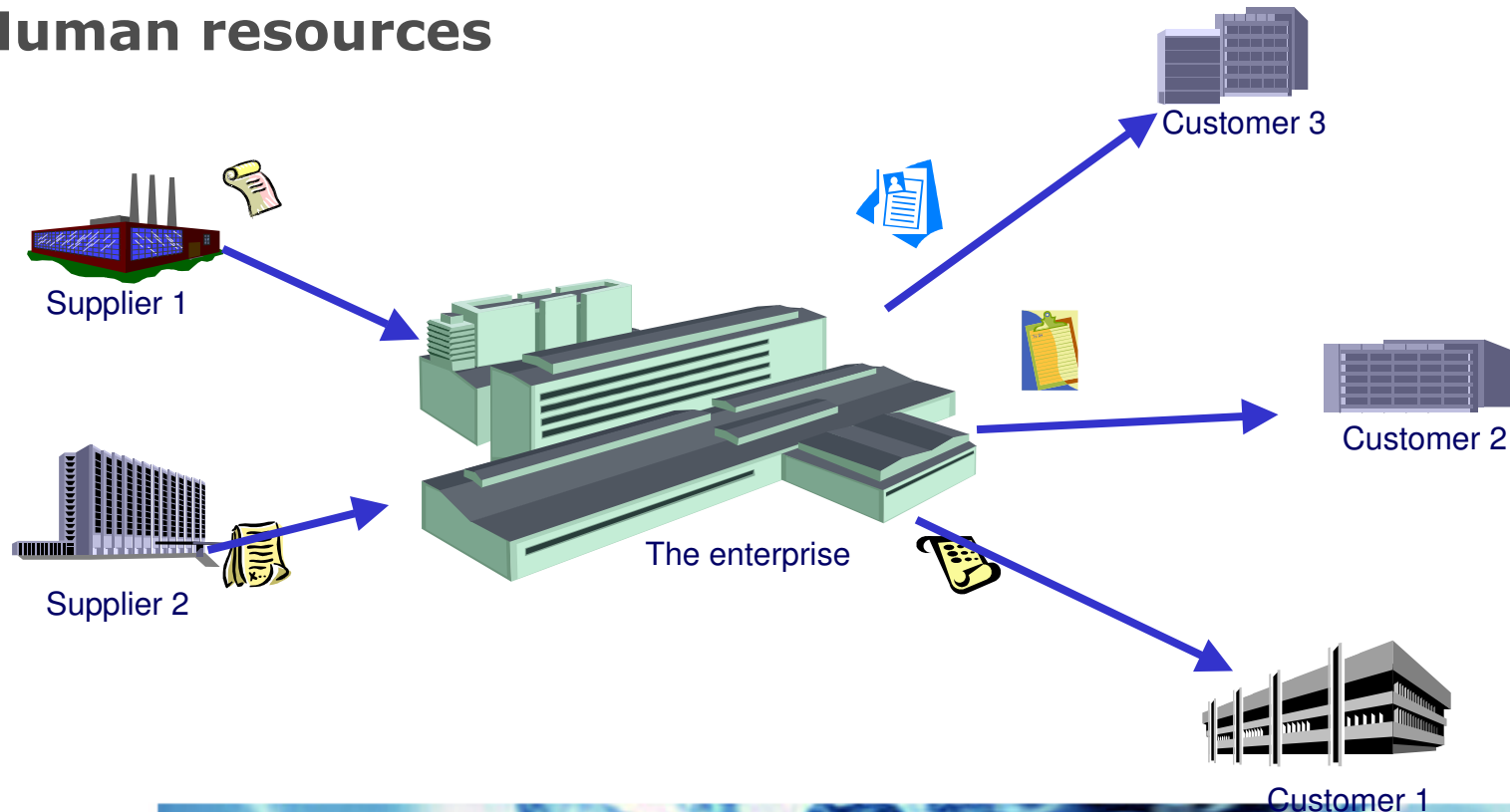


Model schema of document flow in bulk goods service in Polish ports (export)



Extra costs?

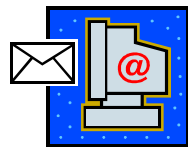
- Errors when retyping
- Paper documents turnover
- Human resources



Communication channels

All processes need documents

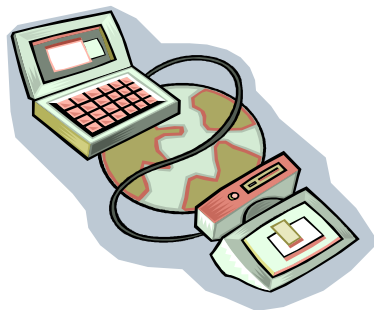
Different documents and the variety of channels



e-mail



mail



EDI



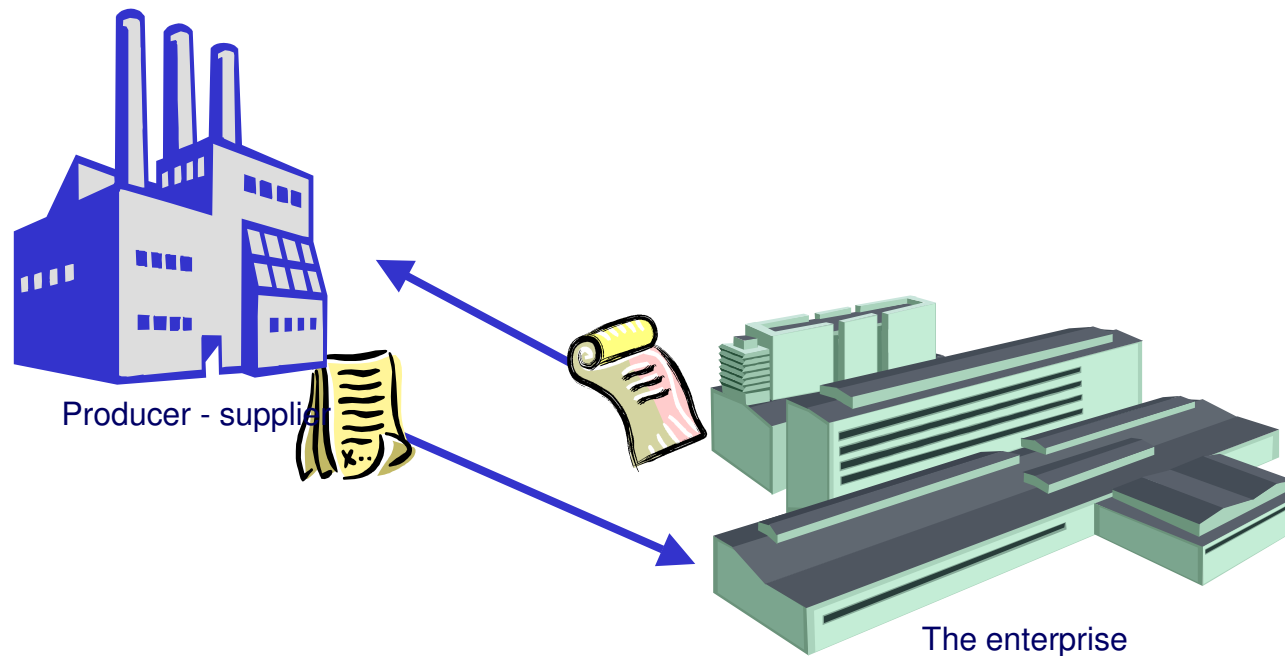
telephone



fax



Business process realization

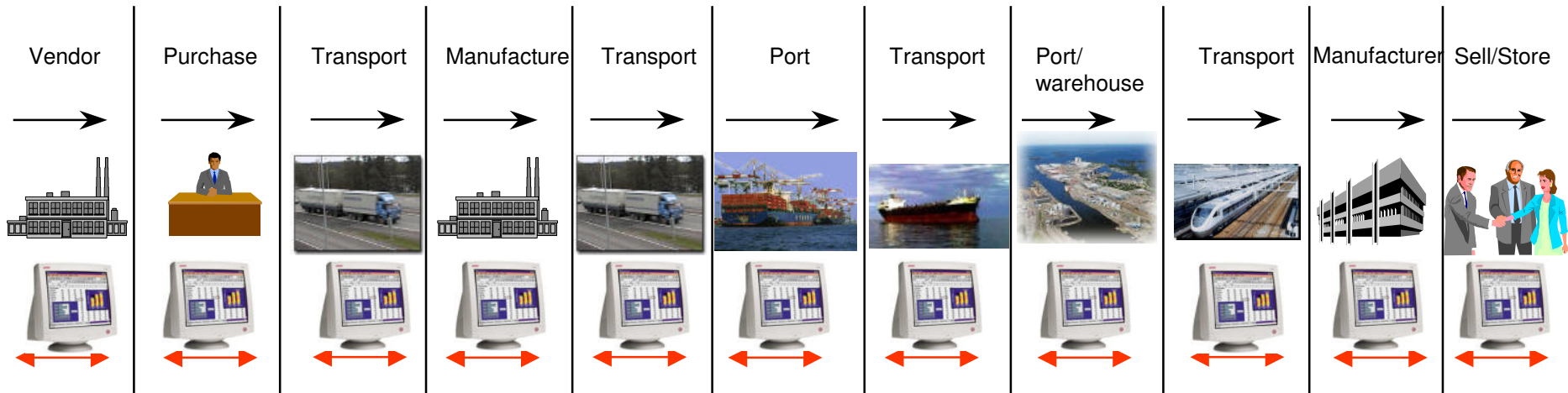


*Note: business processes become routine
and turn into standard scenarios*





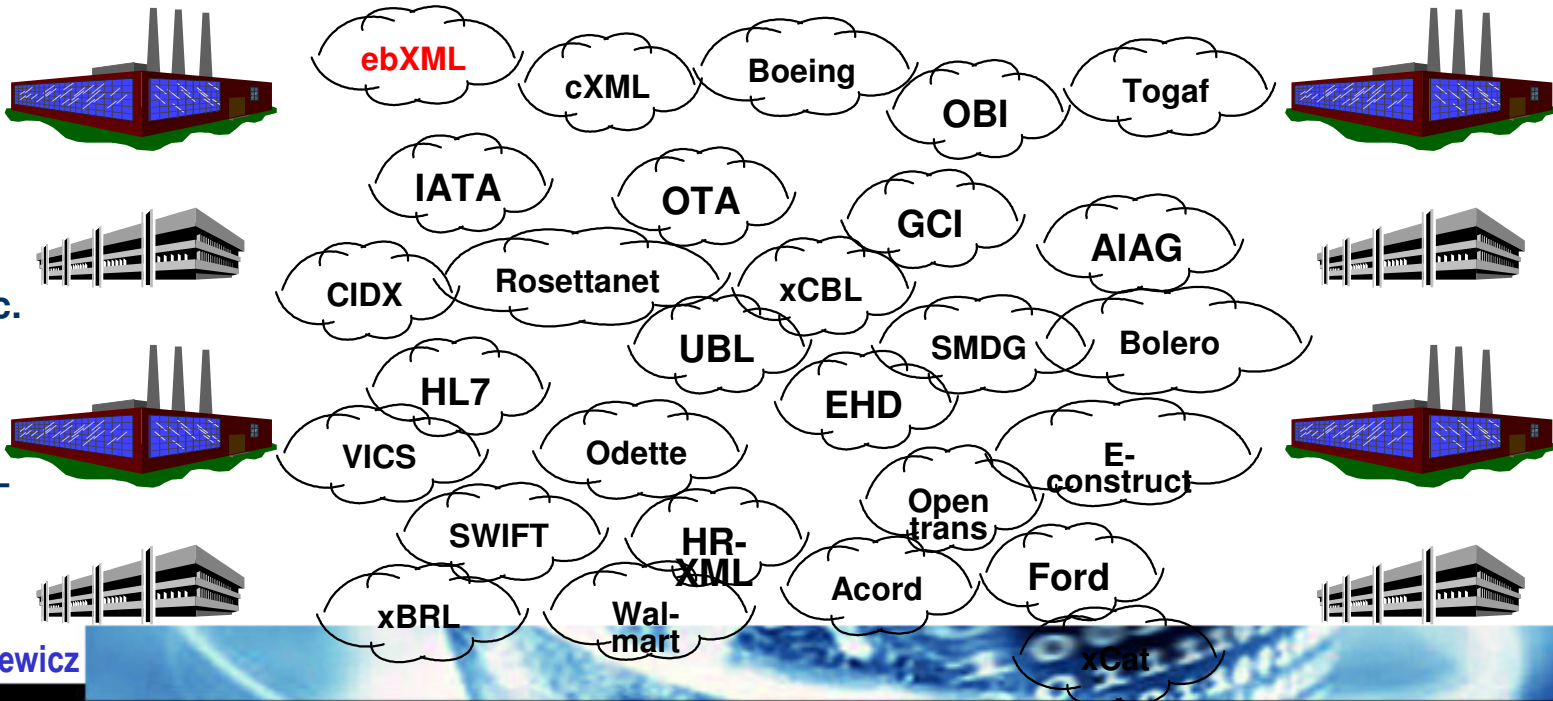
Physical movement and handling of goods



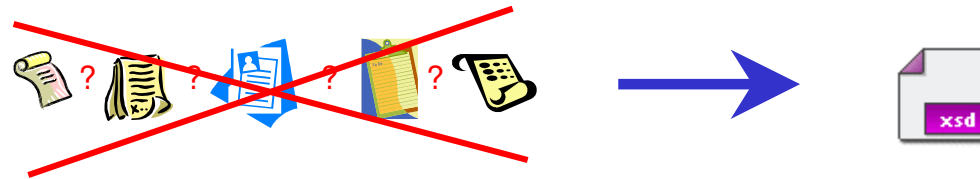
Information and technological standards – protocols, interfaces, etc.

Many local applications – no common co-operation platform

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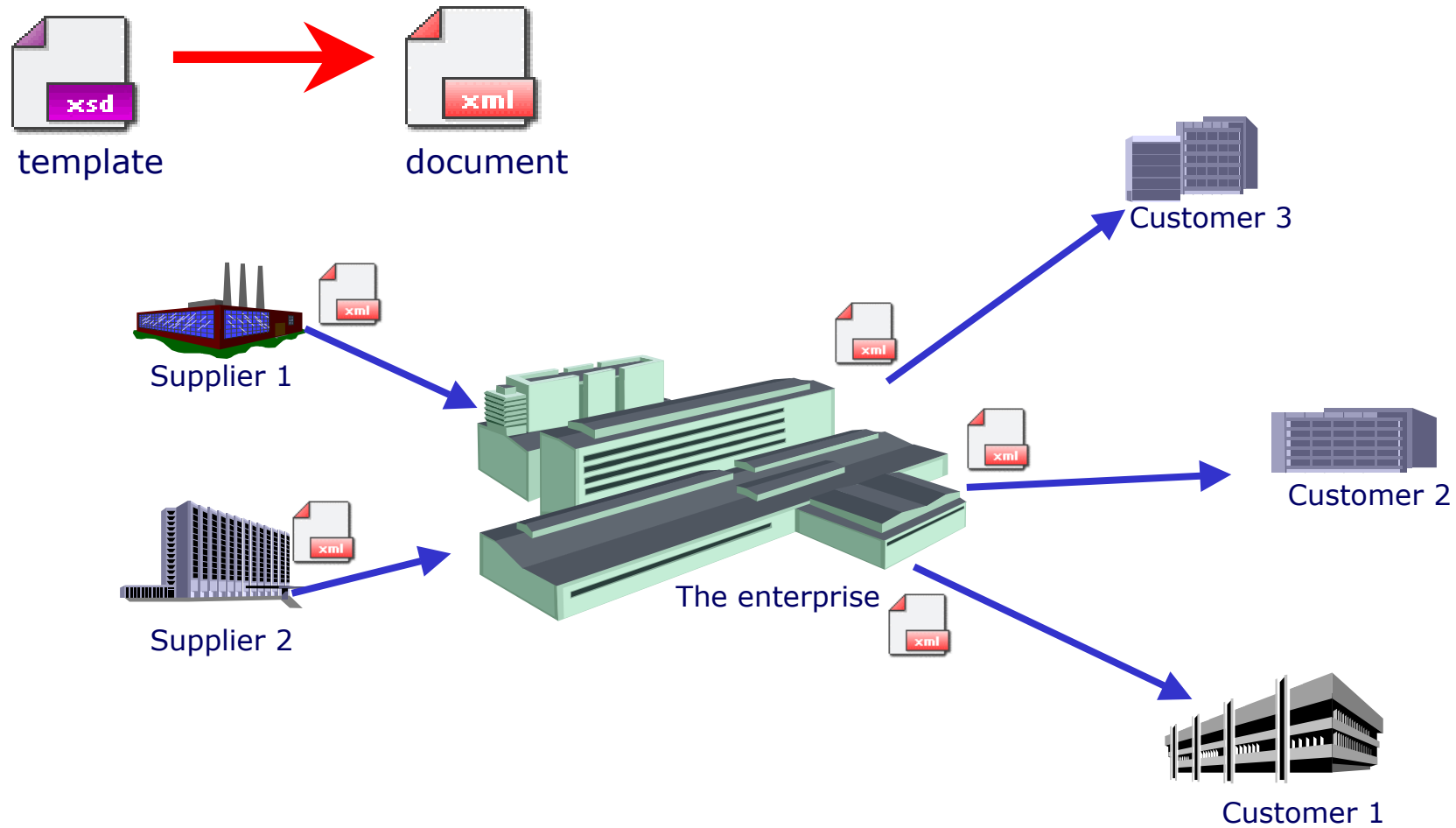


Benefits of common templates



- ✓ Public and updated templates
- ✓ Uniformity of solution in whole chain
- ✓ Low errors level
- ✓ Integration of partners from all chain
- ✓ Reduced transfer problems
- ✓ Step by step implementation

Benefits of common templates





A small company
vs.
advanced e-business





Before you begin checklist



- 1. Get an Internet connection**
- 2. Select partners for EDI implementation**
- 3. Choose processes to be electronically supported**
- 4. Choose suitable electronic documents**
- 5. Adjust documents to meet your needs**
- 6. Run the electronic documents exchange**

Note: the ebXML standard enables automation of business collaboration



Do it simply! Do it with ebXML!!!

electronic
business
using **XML**



From paper to repository...



Tradycyjny opis procedur i wzorów dokumentów



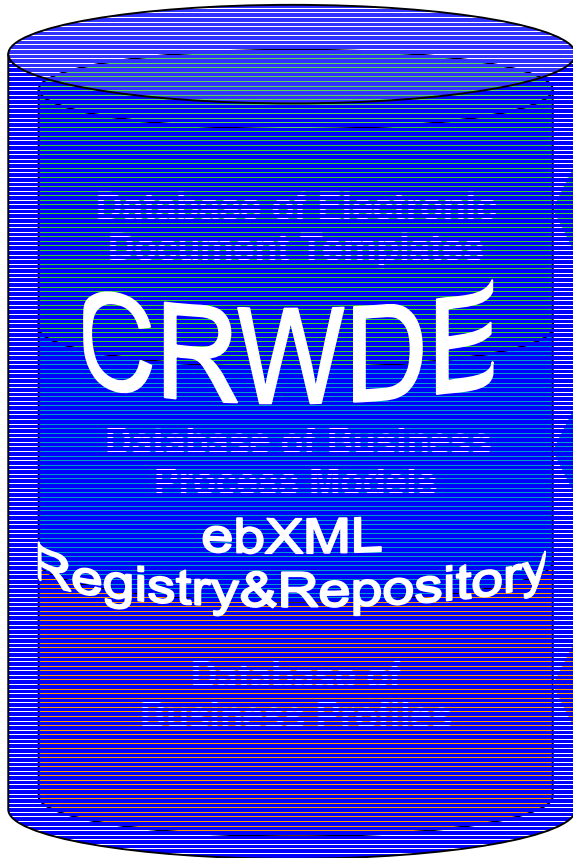
Elektroniczny opis procedur i wzorów dokumentów

ebXML Repository enables to store business data





Central Repository
of Electronic Document Templates



Administration Operation Service

Party

PartyN

Party

Party

Atrybu

xlink:type

xlink:href

type

schemat

@collabo

Proc

App

Self

App

Se

ORDER

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XML Spy v4.4 (http://www.xmlspy.com) by Christian
Przybilla (private) -->
<xsd:schema targetNamespace="http://www.ean-ucc.org/schemas/1.3.1/eanucc" xmlns="http://www.ean-ucc.org/schemas/1.3.1/eanucc"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="unqualified"
attributeFormDefault="unqualified">
<xsd:annotation>
<xsd:documentation><![CDATA[
Version Information:
Version Number : 1.3.1
Date of creation : October, 2003
]]></xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="OrderComponentLibrary.xsd"/>
<xsd:element name="order" type="OrderType"
substitutionGroup="document"/>
<xsd:complexType name="OrderType">
<xsd:complexContent>
base="DocumentType">
<xsd:extension

```

Comment

Atrybut

nl:lang

Mode

sted

ureRequest

Elimination

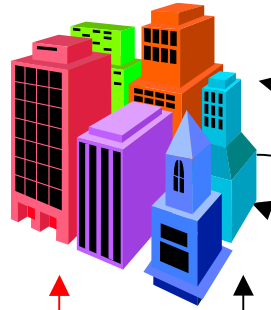
XML Design Rules for EAN.UCC ebXML Message Specification

Specification Schema Catalog of Common Business Process



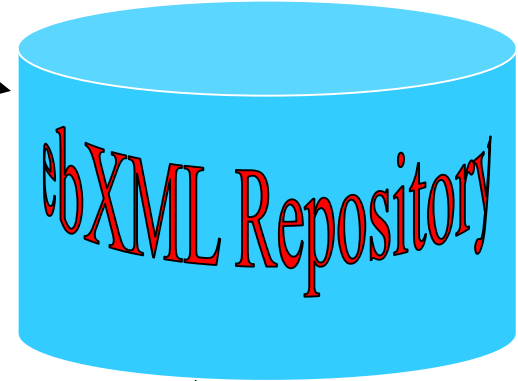
How does it work?

Company A



Registering of the Company in the Repository

Enhancement of the IT system



ebXML Repository

No Business!

Collaboration agreement

Request for scenarios

Profiles

Processes

Documents



ebXML Software

Company B





business implementation (1)

place: Hong Kong

branch: office supplies

field: invoicing and electronic accounting

partners:

MTR Corporation – metro operator in Hong Kong

Saggio (Asia Pacific) – office supplies provider in Asia region



business implementation (2)

Effect:

- regular system use
- possible adjustment of documents generation timeframe
- 300 satisfied users of the system in MRT Corporation

Benefits:

- more effective collaboration between partners
- reduction of costs related to the paper documents turnover
- access to supply and accounting data for business analysis
- electronic invoices processing
- increased productivity
- significant decrease of corrections





what next?

Advanced solutions of IT systems on the basis of global standards.

Implementing standards of identification of entities and goods in trade using GS1 standards.

Advanced EDI communication on ebXML standards





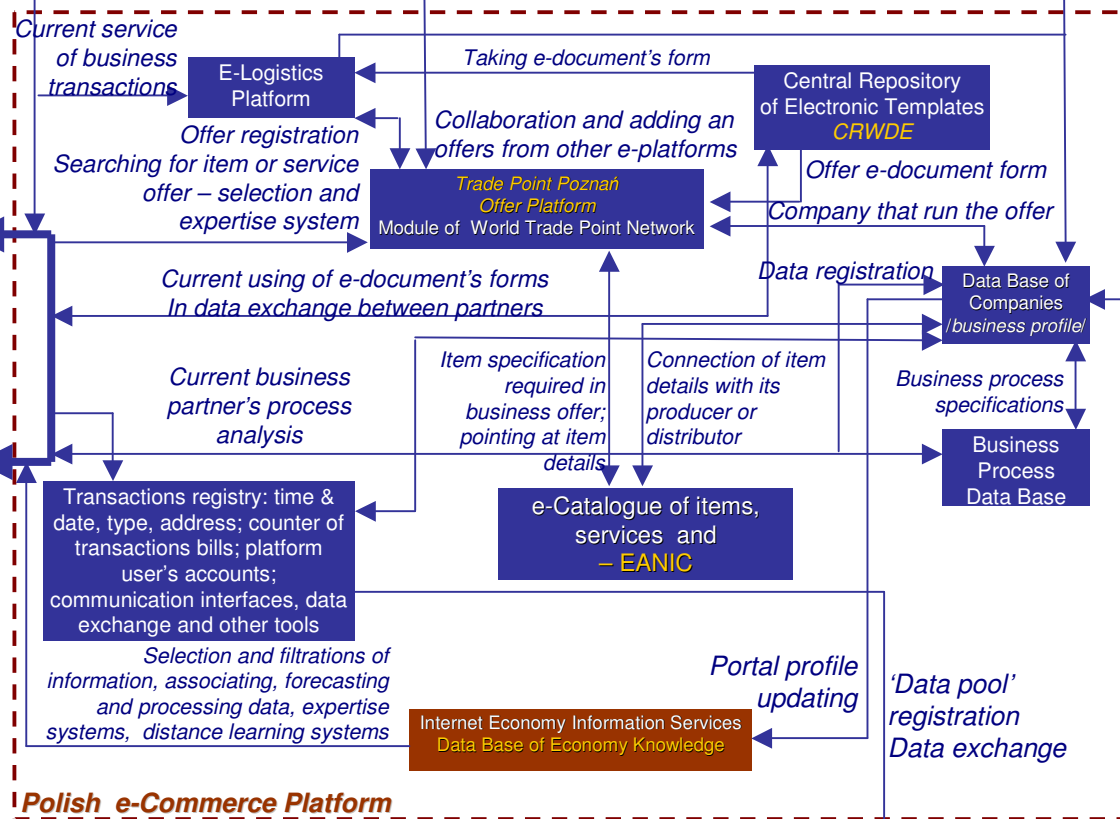
Using of other platforms functionality : payment, track & trace of delivery, transport ordering, making other electronic services available

Electronic platform:
offer (steel, clothes, electronic equipment, energetic, agriculture, build, etc.),
E-commerce platform B2B,
Services: logistics, finance, building, R & D, insurance, projecting, IT, etc.
Custom's clearance system,
Public ordering system,
Electronic banking system,
Healthcare service system,
Application service provider system

Adding of new business partner data

Collaboration – buying-selling, cooperation, current data exchange

Connection of company's data with outside electronic accounts (in bank, insurance company, logistics provider, etc.)



Transactions registry: time & date, type, address; counter of transactions bills; platform user's accounts; communication interfaces, data exchange and other tools

Selection and filtrations of information, associating, forecasting and processing data, expertise systems, distance learning systems

Item specification required in business offer; pointing at item details

Connection of item details with its producer or distributor

e-Catalogue of items, services and - EANIC

Internet Economy Information Services Data Base of Economy Knowledge

Data Base of Companies /business profile/

Business Process Data Base

Portal profile updating

'Data pool' registration Data exchange

Current service of business transactions

E-Logistics Platform

Taking e-document's form

Central Repository of Electronic Templates CRWDE

Offer registration Searching for item or service offer – selection and expertise system

Trade Point Poznań Offer Platform Module of World Trade Point Network

Collaboration and adding an offers from other e-platforms

Offer e-document form

Current using of e-document's forms In data exchange between partners

Data registration

Current business partner's process analysis

Company that run the offer



THANK YOU !

I'll be happy to answer your questions @:

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