UNeDocs
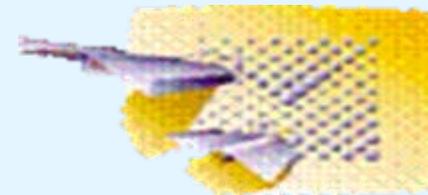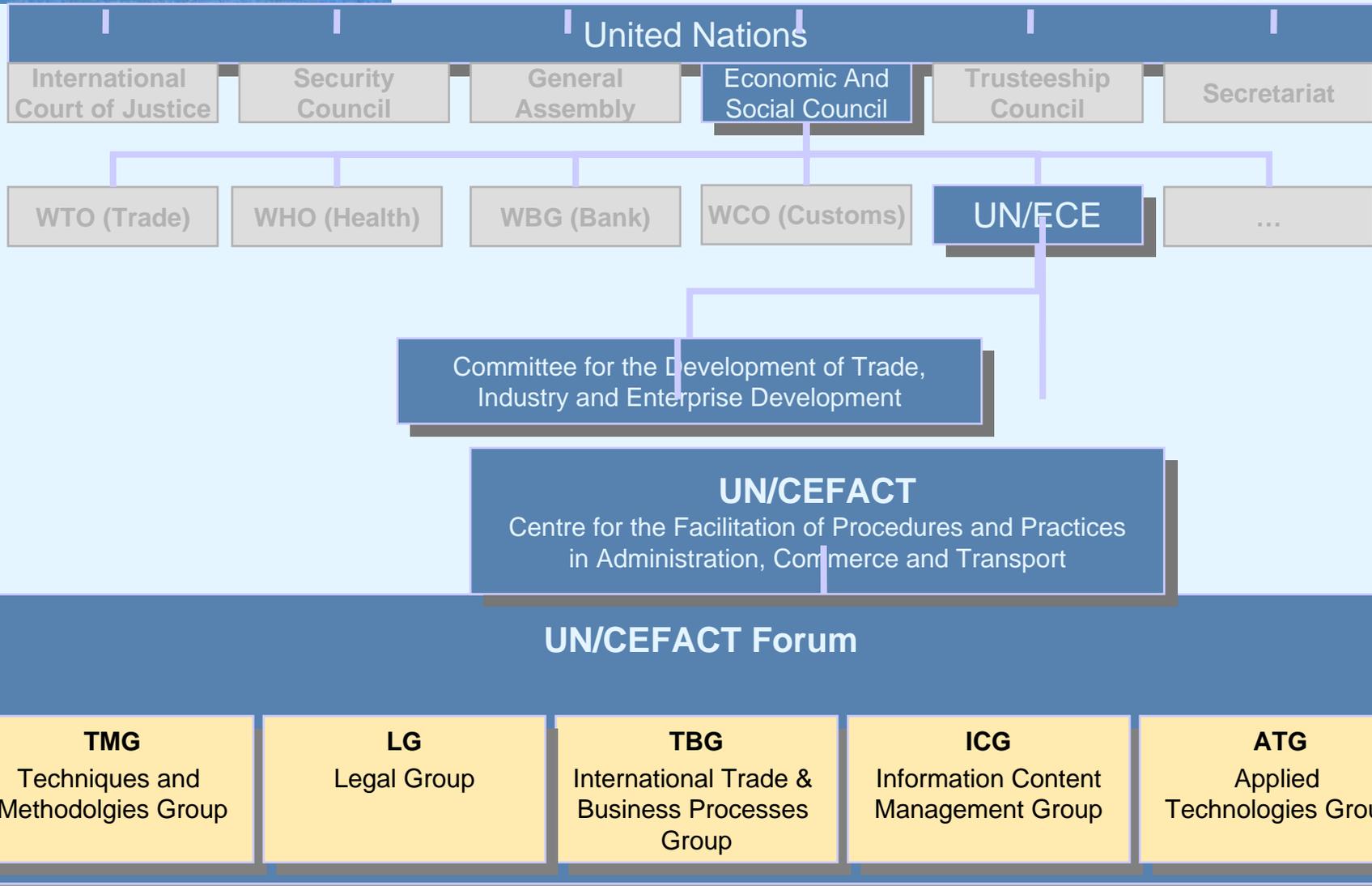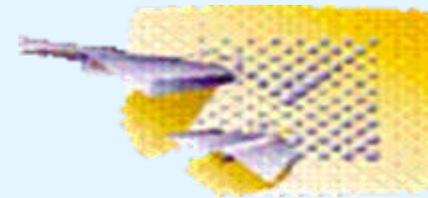
- UN/CEFACT Organization
- What is CEFACT TBG2 Digital Paper?
- TBG2 Projects

  Clickable – Aerospace Industry Association

  UNeDocs – WCO, IATA, FIATA, others
- What is the UNeDocs generic methodology?
- A UNeDocs user demonstration

Links and downloads
http://www.unece.org/cefact/forum_grps/tbg/tbg2_edocs/tbg2_edocs.htm

United Nations

International Court of Justice	Security Council	General Assembly	Economic And Social Council	Trusteeship Council	Secretariat

WTO (Trade)	WHO (Health)	WBG (Bank)	WCO (Customs)	UN/ECE	…

Committee for the Development of Trade, Industry and Enterprise Development

UN/CEFACT
Centre for the Facilitation of Procedures and Practices in Administration, Commerce and Transport

UN/CEFACT Forum

TMG Techniques and Methodolgies Group	**LG** Legal Group	**TBG** International Trade & Business Processes Group	**ICG** Information Content Management Group	**ATG** Applied Technologies Group

UN/CEFACT Plenary

Chair: Stuart Feder
(Bank of International Settlements, USA)

UN/ECE Secretariat Representative

Jean Kubler,
Mika Vepsalainen
Markus Pikard
Claudio Meza

Plenary Bureau

Vice Chair: **Tahseen A. Khan (Government of India)**
Vice Chair: **Mark Palmer (NIST, USA)**
Vice Chair: **Christina Rahlen (Government of Sweden)**

Ibrahima Nour Eddine Diagne
(Gainde 2000, Senegal)

Lim Sang-Won
(KIEC, Korea)

Standards Liasion

Francois Veuilleumier
(ISO, Switzerland)

FMG
Forum Management Group

Chair: **Mike Doran (CERN, UK)**
Vice Chair: **Anders Grangard (GS1 Global, Belgium)**
+ Chairs of Permanent Groups
+ 2 additional TBG:
    Pat Toufar (AIAG, USA)
    Gordon Cragge (SITPRO, UK)

UN/CEFACT Forum

| TMG	LG	TBG	ICG	ATG
Techniques and Methodolgies Group	**Legal Group**	**International Trade & Business Group**	**Information Content Management Group**	**Applied Technologies Group**
Chair: **Gunther Stuhec (SAP, Germany)** *Vice Chair:* **Christian Huemer (University of Vienna, Austria)**	*Chair:* **Usva Kuusiholma (Websoft, Finland)** *Vice Chair:* **Bart W. Schermer (ECP, Netherlands)**	*Chair:* **Jean-Luc Champion (Belgium)** *Vice Chair:* **Pat Toufar (AIAG, USA)**	Chair: **Mike Conroy (Atos Origin, France)** *Vice Chair:* **David Dobbing (Data Logistics Pty, New Zealand)**	*Chair:* **Mark Crawford, (SAP, USA)** *Vice Chairs:* **Jostein Fromyr (EDIsys, Norway) Gait Boxman (TIE Holding, Netherland)**

Permanent Groups
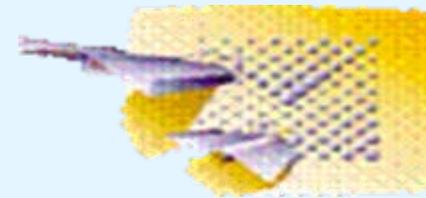
| TBG Working Group		Chair
TBG1	Supply Chain & e-Procurement	
TBG2	Digital Paper	M. Dill
TBG3	Transportation & Logistics	D. Vankemmel
TBG4	Customs	G. Diepens
TBG5	Finance	St. Korsgaard
TBG6	Architecture & Construction	B. Longhi
TBG7	Statistics Collection & Reporting	C. Nelson
TBG8	Insurance	B. Grossman
TBG9	Travel, Tourism and Leisure	P. Heilig
TBG10	Healthcare	Fr. van Bommel
TBG11	Social Services	
TBG12	Accounting & Audit	R. Lemense
TBG13	Environmental	D. Schwarz
TBG14	Business Process Analysis	I. Watt
TBG15	International Trade Procedures	G. Cragge
TBG16	Entry Points	A. Dechamps
TBG17	Harmonisation	MK Blantz
TBG18	Agriculture	Br. Prépin
TBG19	e-Government	J.P. Henninot
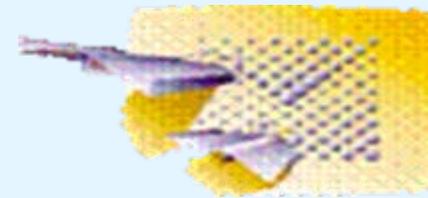
TBG2 Active Projects

- Non-refutable electronic model agreement template

- UNeDocs
  - Thailand Single Window
  - Maylasia Single Window
 - UK
  - Asean Single Window

The 'old fashioned' paper form
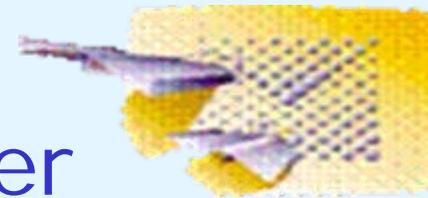
- Has different sizes and formats (letter, A4)
- Has continuing pages, a backside and splitting of data
- layout elements may have a semantic meaning (colors)
- has background master data (titles, standing clauses, box completion guidelines, watermarks, holograms), even multilingual
- likes clear names
- is flat and hides the deeper structuring of data
- is flexible, simple and allows different data in a box
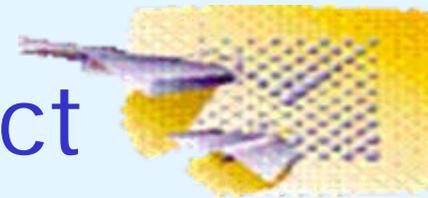- may allow annotations and non-requested data

Key International Paper Forms
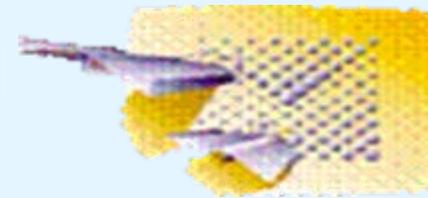
- Negotiable Bill of Lading
- Insurance Certificate
- Consular Invoice
- Import/Export Licences
- Letter of Credit
- Cargo Declarations
- Certificates of Origin, Phytosanitary etc.
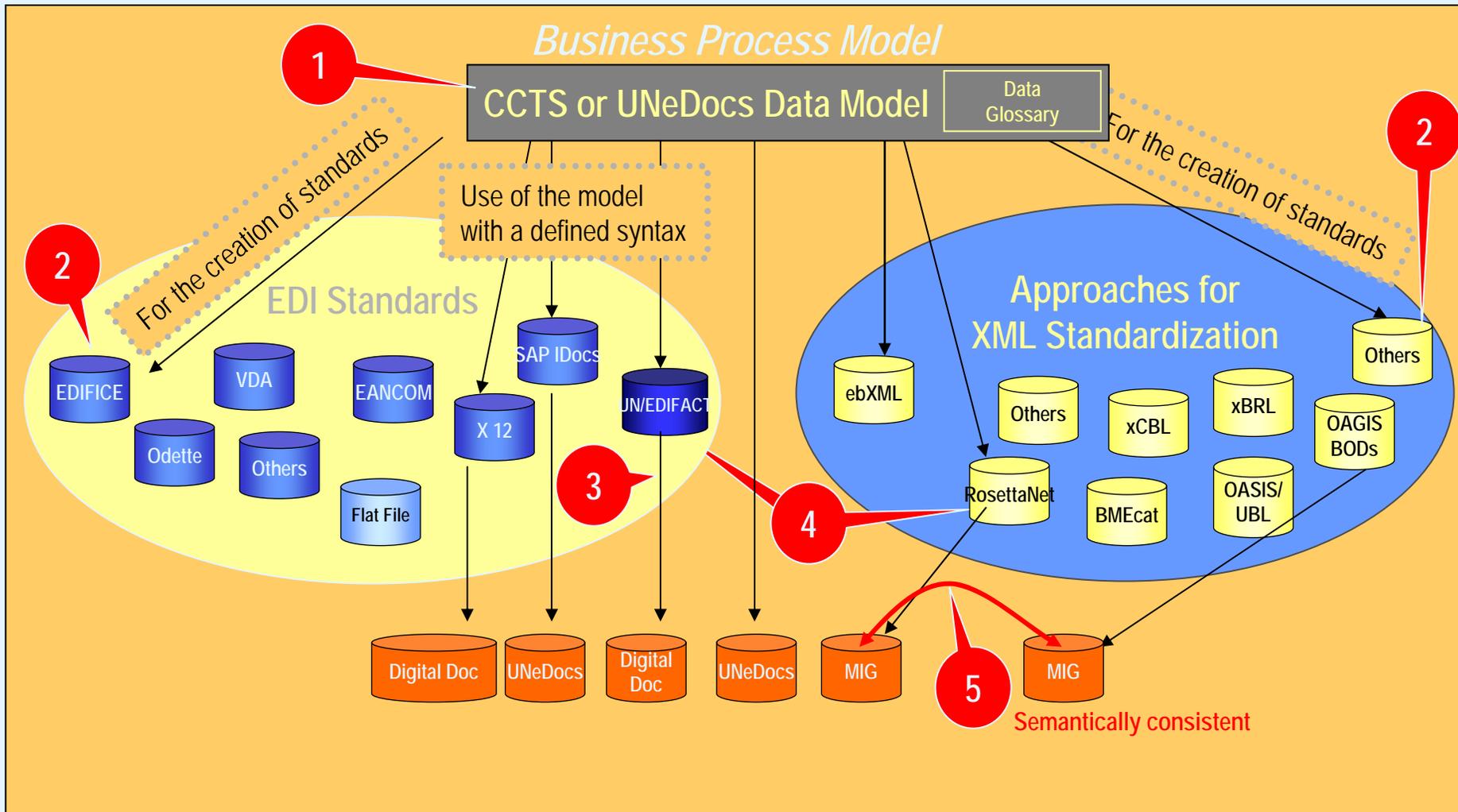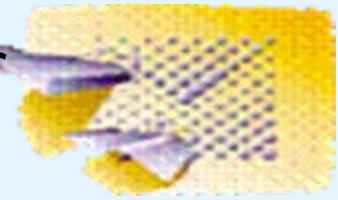- etc.

UNeDocs Project

Overview:

- To facilitate international trade and electronic transfer of data for cross border trade by developing, publishing and maintaining a coordinated set of international standards including the UN/CEFACT Trade Reference Model, a comprehensive cross-domain data model, UN/EDIFACT and XML document structures, document presentation methodologies and box completion guidelines.

- To enable the development of simple low-cost solutions to support the generation and exchange of standardised paper and/or electronic international trade documents by implementing existing standards and recommendations.
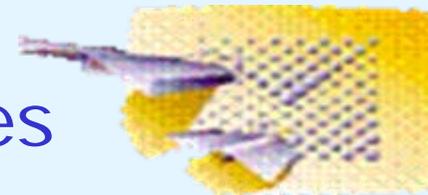
A New Approach for Digital Forms

Business Process Model

1 → **CCTS or UNeDocs Data Model** | Data Glossary

For the creation of standards **2**

For the creation of standards **2**

Use of the model with a defined syntax

EDI Standards

Approaches for XML Standardization

EDIFICE

VDA

EANCOM

SAP IDocs

Odette

Others

X 12

UN/EDIFACT

Flat File

3

4

ebXML

Others

xCBL

xBRL

OAGIS BODs

RosettaNet

BMEcat

OASIS/ UBL

Others

Digital Doc

UNeDocs

Digital Doc

UNeDocs

MIG

5

MIG

Semantically consistent

Combined Approach

Electronic Document Exchange
XML or UN/EDIFACT

```
<?xml version="1.0" encoding="UTF-8"?>
<n:Invoice
xmlns:n="urn:oasis:names:tc:ubl:Invoice:1.0:0.70"
xsi:schemaLocation="urn:oasis:names:tc:ubl:Invoice:1.0
:0.70
UBL_Library_0p70_Invoice.xsd">
        <cat:ID>token</cat:ID>
        <cat:IssueDate>2003-02-14</cat:IssueDate>
        <n:TaxPointDate>2003-02-14</n:TaxPointDate>
        <cat:BuyerParty>
                <cat:PartyName>
                    <cat:Name>Bills
Microdevices</cat:Name>
                </cat:PartyName>
        </cat:BuyerParty>
        <cat:SellerParty>
                <cat:ID/>
                <cat:PartyName>
                    <cat:Name>Joes Office
Supply</cat:Name>
                </cat:SellerParty>
        <cat:InvoiceLine>
                <cat:ID>1</cat:ID>
                <cat:InvoicedQuantity
unitCode="token">5</cat:InvoicedQuantity>
                <cat:Item>
                    <cat:Description>Pencils, box #2
red</cat:Description>
                </cat:Item>
        </cat:InvoiceLine>
</n:Invoice>
```

Paper Document
aligned to UN Layout Key

Electronic Edit Form

UNeDocs Objectives

- Align International Cross Border Data across Customs – Regulatory Documents – Transport and Trade
- Provide smooth migration path towards Digital Paper
- Increased semantic interoperability through reuse of UN/CEFACT Core Component Library
- Electronic successor of the paper-based UN Layout Key (the UN Rec No 1 Unsung Hero)
- Combining ISO 15000-5 Core Components, EDI, XML, document presentation and box completion guidelines
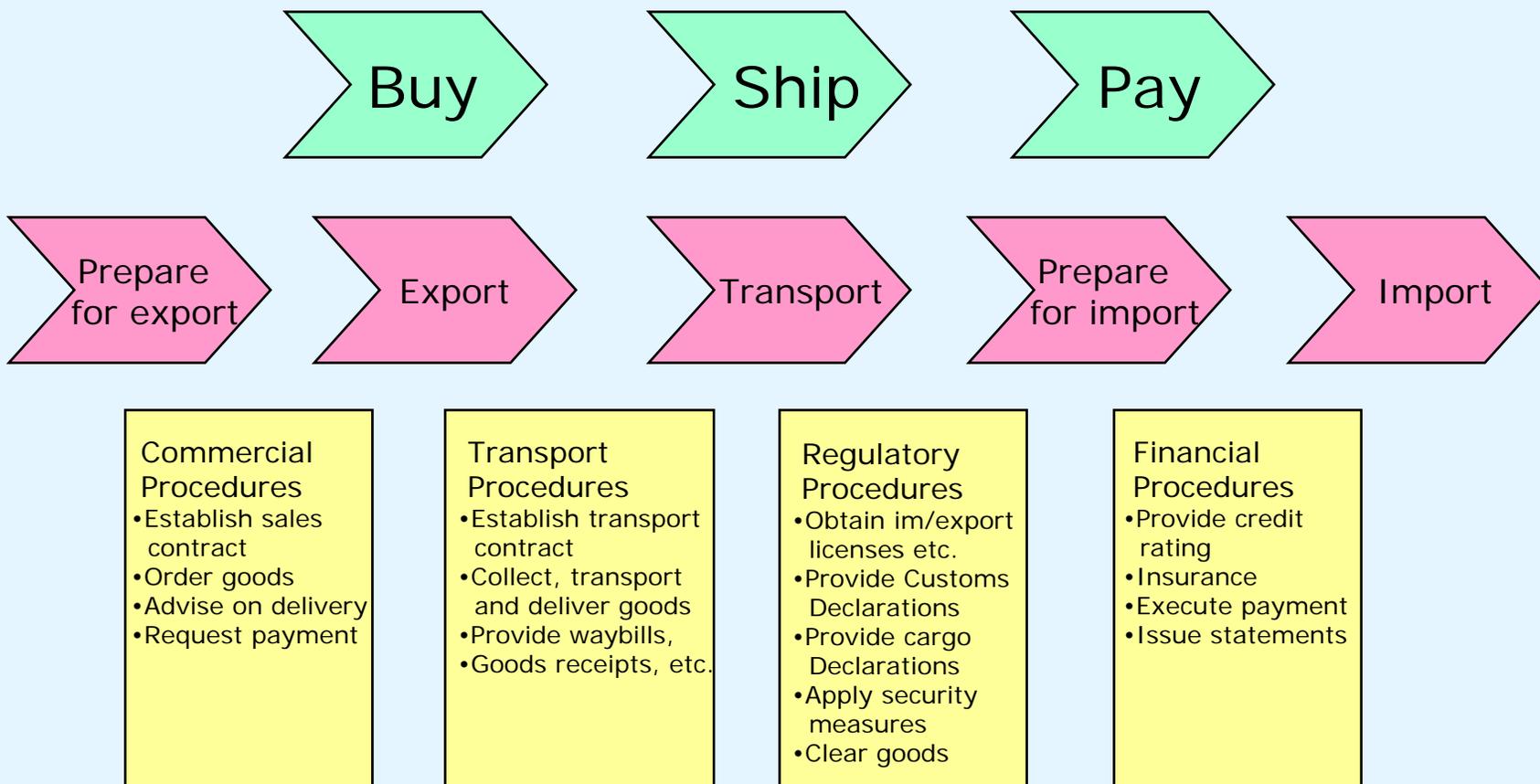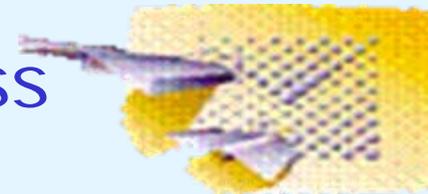- Easy migration to newer versions
- Extensibility by user restrictions

Project Deliverables
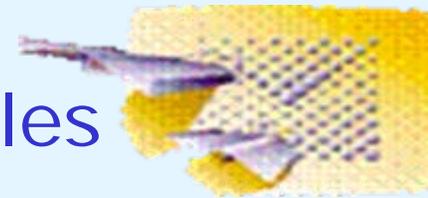
- A Business Process Model illustrating where the UNeDocs documents fit into the operation of the International Supply Chain based on the UNCEFACT International Supply Chain Reference Model.

- A ISO 15000 Part 5 (CCTS) compliant Common Data Model based on candidate or published UNCEFACT Core Components that are linked to the UNTDED/ISO 7372.

- Methodology for the presentation of data contained in electronic data exchanges onto electronic or paper forms and the update of UNLK to become eUNLK.

- For documents the project will develop:
  - A class diagram and document structure
  - The paper and electronic, re-usable layout description of the document based on the UN Layout Key
  - Box Completion Guideline
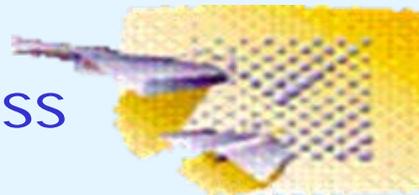 - XML profiles
  - UN/EDIFACT message implementation guide

UNeDocs Process Scope

Buy   Ship   Pay

Prepare for export   Export   Transport   Prepare for import   Import

Commercial Procedures	Transport Procedures	Regulatory Procedures	Financial Procedures
•Establish sales contract •Order goods •Advise on delivery •Request payment	•Establish transport contract •Collect, transport and deliver goods •Provide waybills, •Goods receipts, etc.	•Obtain im/export licenses etc. •Provide Customs Declarations •Provide cargo Declarations •Apply security measures •Clear goods	•Provide credit rating •Insurance •Execute payment •Issue statements

International Trade Reference Model

UN/CEFACT Global Supply Chain Business Standards

TBG18 Agriculture

TBG2 Digital Paper

TBG15 Trade Facilitation

TBG8 Insurance

TBG19 eGov

TBG1 Supply Chain

TBG5 Finance

TBG4 WCO DM

TBG3 Transport

TBG13 Environment

International Trade Single Window

Global Supply Chain Reference Process Model

UNeDocs Data Model

UNTDED

UNeDocs for Single Windows

Trade

Materials Management

Transport

Customs & OGAs

Insurance
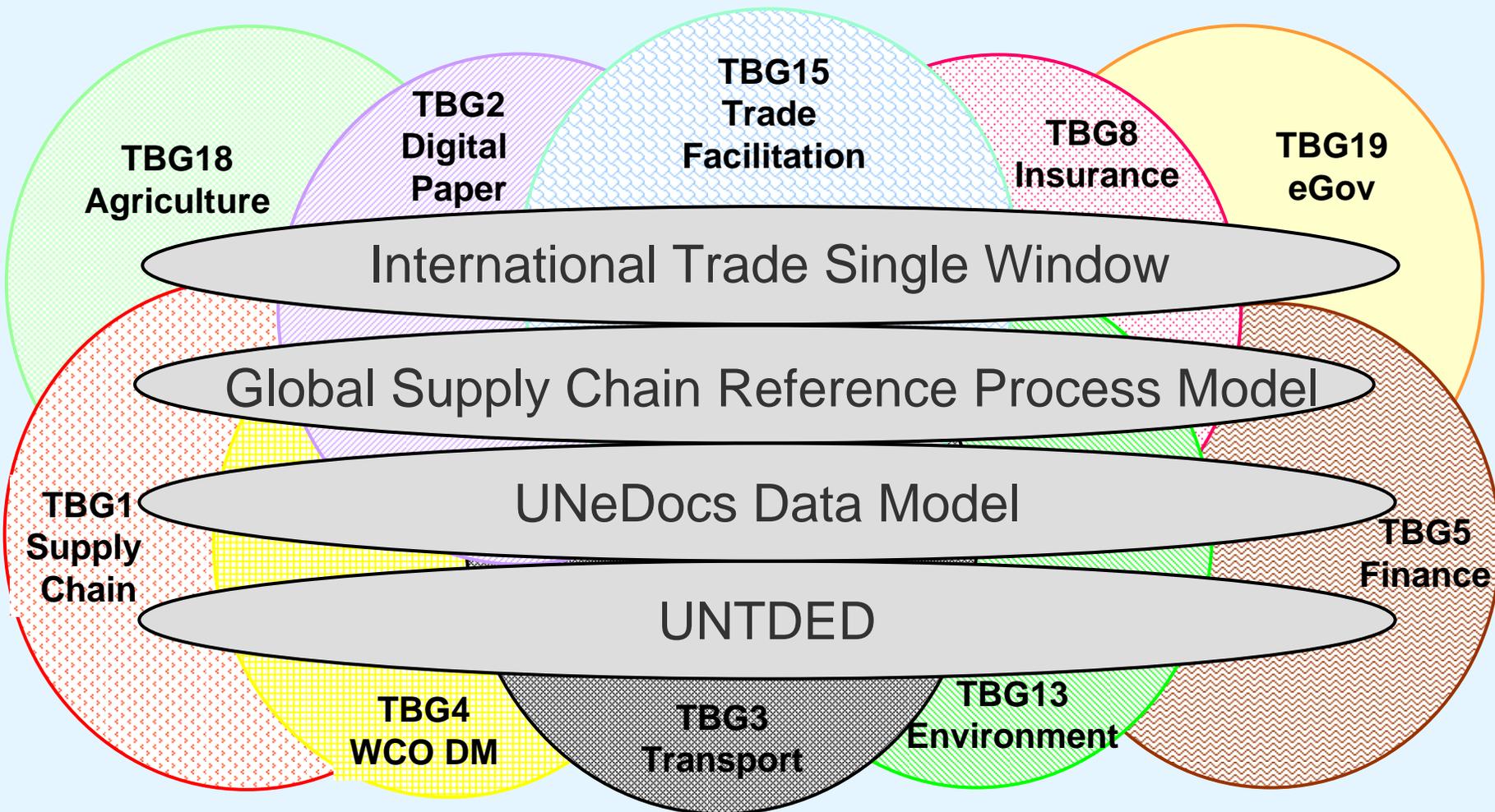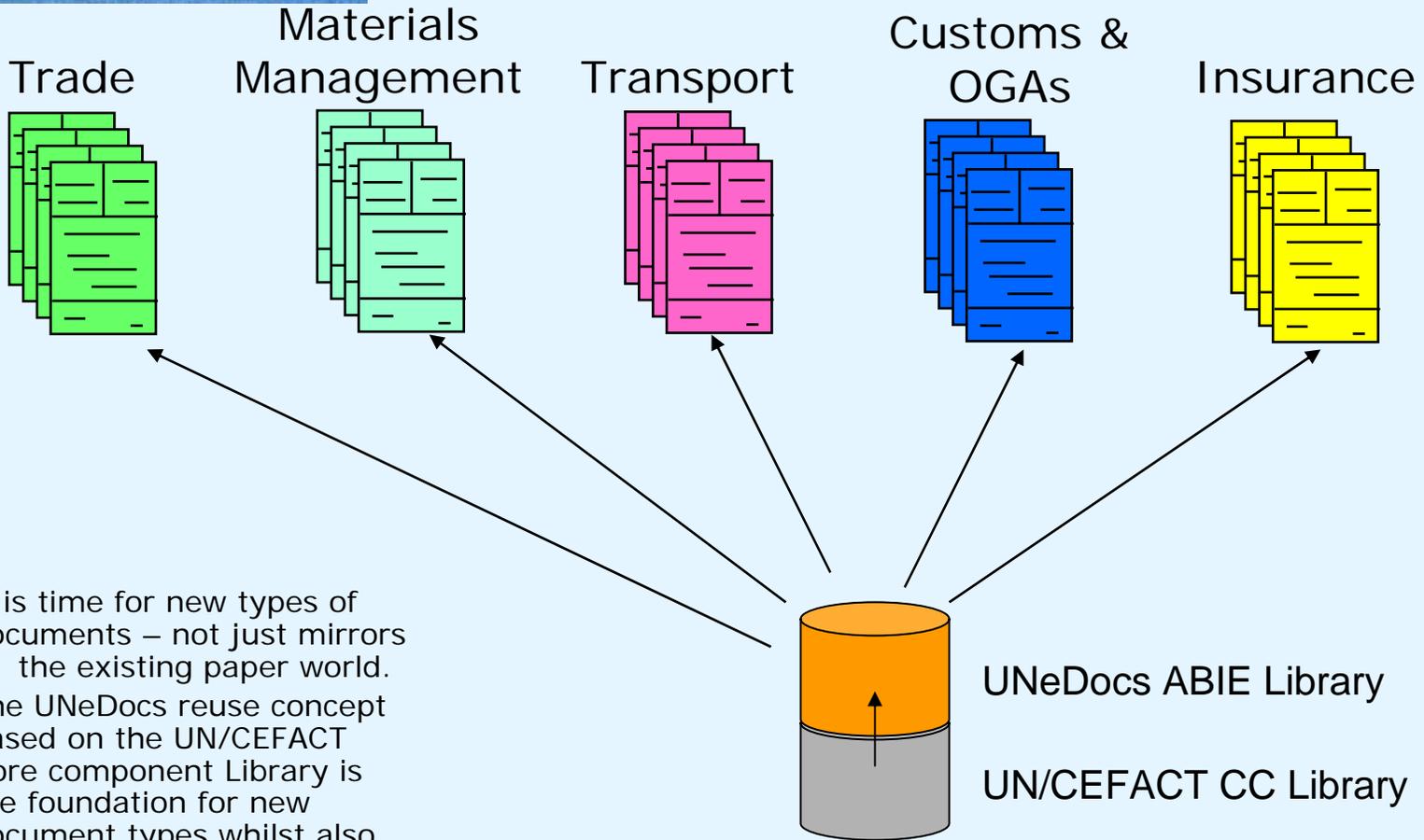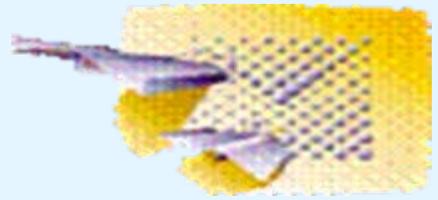
- It is time for new types of documents – not just mirrors of the existing paper world.
- The UNeDocs reuse concept based on the UN/CEFACT Core component Library is the foundation for new document types whilst also providing legacy support and a migration path between the two.

UNeDocs ABIE Library

UN/CEFACT CC Library

UNeDocs for Single Windows

Materials Management

Transport

Payment

Trade

Insurance

International Trade Single Window

UNeDocs Data Model

Customs
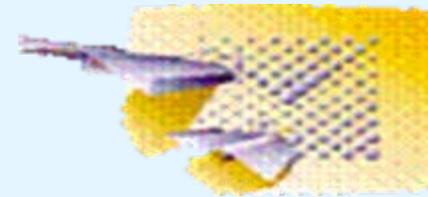
Other Govt. Agencies
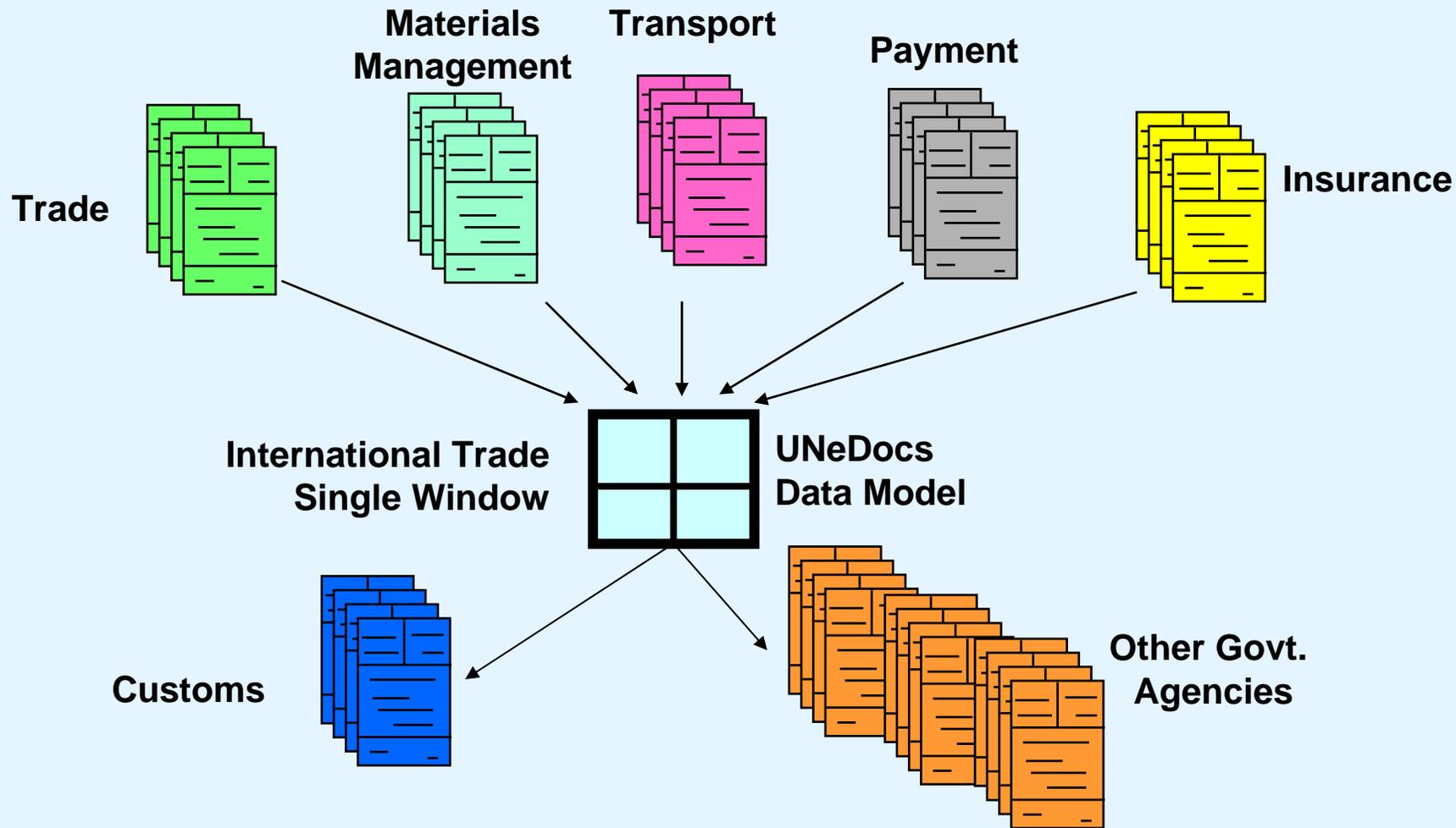
The Standards Map

Separation data and structures from presentation – the concept

CCTS (ISO 15000-5), UMM		eUNLK TS
CC Library, UNTDED (ISO 7372)		
Contextualised Data Models	⟷	eUNLK Meta eForms
NDR: XSD, EDIFACT instance production rules	⬇	'NDR': eUNLK instance production rules
XSD (as of different NDR), EDIFACT Migs	⟷	FO, Stylesheets, Others, Xforms (if usable)
(CEFACT) Registry		

Please note: Black – exists. Blue - does not yet exist

UNLK – UN/ECE Rec. 1
The unsung Global Hero
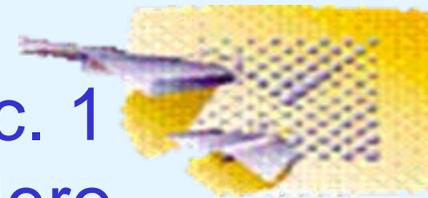
- First published 1973

- Flexible aligned data presentation which has become the de facto standard for the majority of international trade documents

- Foundation for International transport conventions e.g. Maritime B/L (ICS), Airwaybill (IATA), Road CMR (IRU), Rail CIM (UIC) etc.

- Foundation of Customs and other Regulatory Procedures e.g SAD, Phyto-Sanitary Certificates, Cert of Origins etc.

- Hundreds of document formats based on UNLK across trade, transport, finance, customs, insurance, inspection etc.

- TDED (ISO 7372), box completion guidelines…

UNeDocs and eUNLK
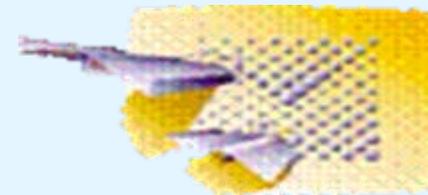
- Support for presentation of eForms
- Maintains print format capabilities
- Links to electronic data exchanges
- Updated to reflect current global trade practices
- Core Component aware
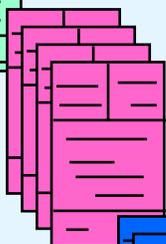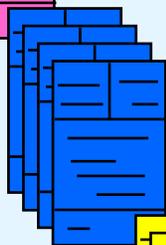- Support for multilingual aspects

UNLK Form Families
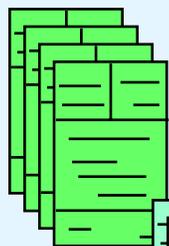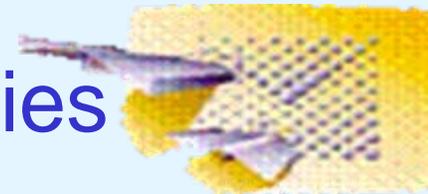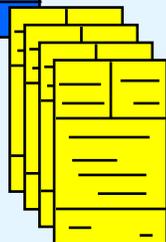
Trade Documents – Quotation, Order, Invoice etc.

Materials Management Documents – Despatch Advice, Pick List, Packing List etc.

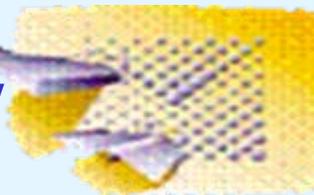Transport Documents – Bill of Lading, Shipping Instructions etc.

Customs Documents – Export, Import, Transit Declarations, Cargo Reports etc.

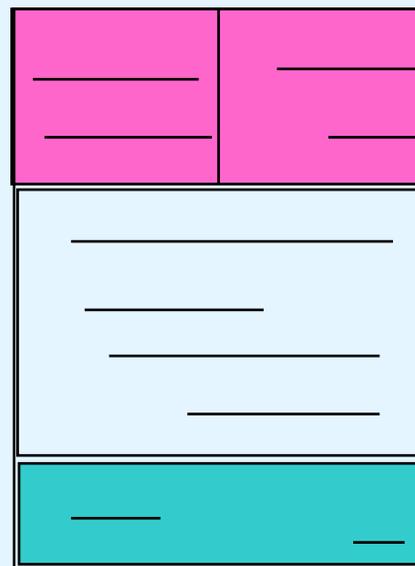Other Regulatory Documents – Cert of Origin, DGN etc.

UN Layout Key
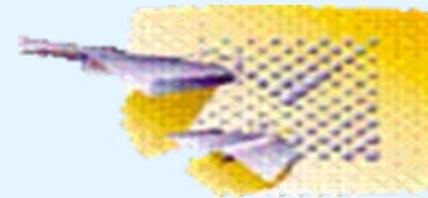
Cross-Sector Transaction Data

Sector Specific Detail e.g.
order line items, goods items ...

Document Function Specific

UN Layout Mapping Example

UID   2280
Name   Transport Means. Actual Departure. Date Time
Definition **Date and or time of the departure of means of transport**
Synonym   Flight Date, Sailing Date
Repr.   an..17
Mapping   UNLK: L 17, P 16

For further information please contact:

Sylvia Webb
swebb@gefeg.com

GEFEG US

Telephone   310-370-3410
Fax   310-370-5614
Web   www.gefeg.com