

EU digitalisation Strategy for the Union Customs Code (UCC)

*Frank Janssens
Head of Unit
European Commission DG TAXUD
Unit Customs Processes, Data and
Project Management
Brussels/Belgium
Frank.Janssens@ec.europa.eu*

EU Digital Customs

- *The European Union has engaged in a major effort to achieve EU Digital Customs by end 2020*
- *The digitalisation of customs: electronic declarations are the rule. For other types (e.g. oral or paper declarations) an exception is needed*
- *Digitalisation creates new integrated ways of doing customs business!*
- *The digitalisation of Customs in the EU is also a major effort in further integration and harmonisation of customs operations in 28 Member States*

Legal basis: enabling EU Digital customs

9.10.2013: *UCC Adoption by the EP and the Council (OJ L 269)*

28.07.2015 : *Adoption of UCC Delegated Act Act*

24.11.2015 : *Adoption of UCC Implementing Act*

29.12.2015 : *Publication in OJ L343*

01.05.2016 : *Application
(with transitions for ICT until 31.12.2020)*

MASP

- Planning and project charter for all electronic customs initiatives ([Decision N° 70/2008/EC](#) , *art.8.2*) **which includes the UCC projects**
- Prepared by European Commission with input from Member States and Traders' federations
- Yearly update
- *MASP on Europa web site*

https://ec.europa.eu/taxation_customs/general-information-customs/electronic-customs_en

More information on eCustoms strategy in the EU on the EUROPA web site.





UCC Work Programme

- **Legal provision** UCC Regulation - Article 280
- **Purpose:** in support of the development of electronic systems and the transitional measures which can be applied until 31 December 2020
- **Content:**
 - Much more concise than MASP, but a legal basis for the timely development and deployment of the electronic systems referred to in Article 16(1) UCC
 - Priority-based as stipulated in Article 280(2) UCC

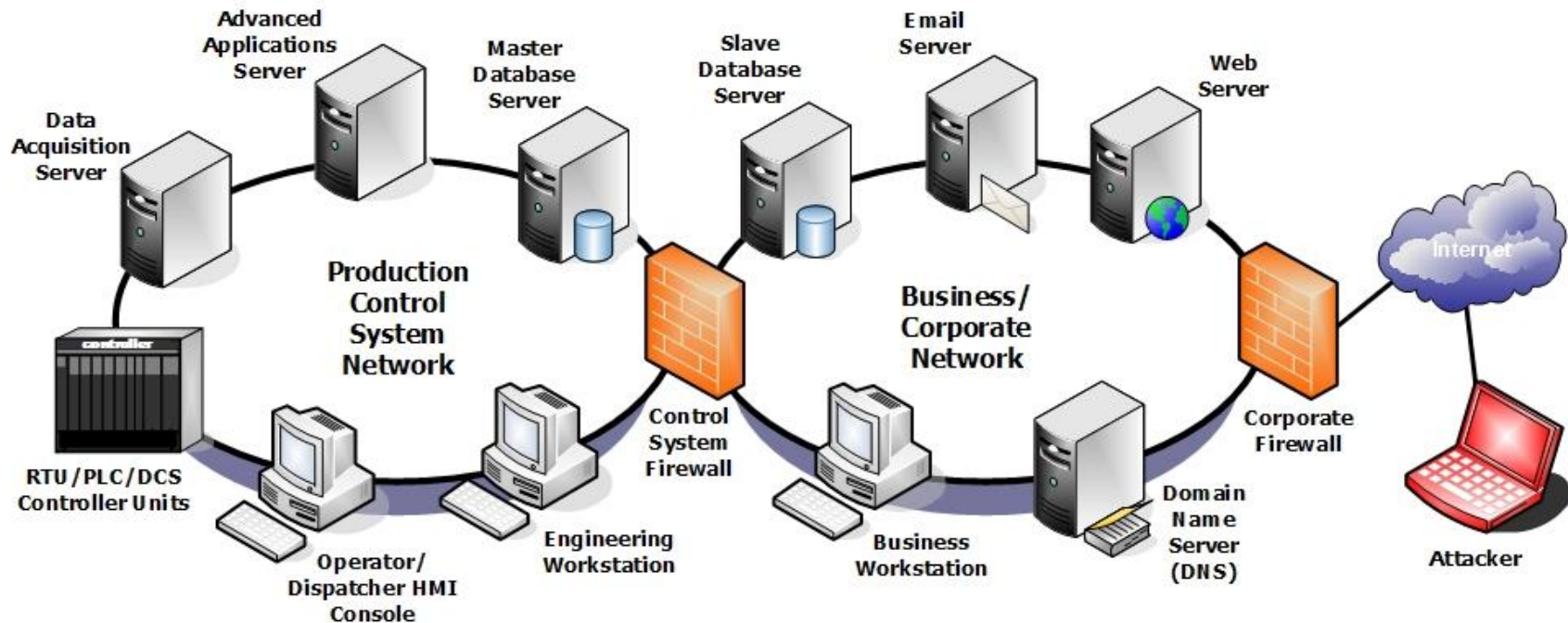
11.04.2016: Update of UCC Work Programme (OJ L 99 of 15.04)

2016 – 2020: publication and update of Guidance documents

2017 – 2020: adoption of specific UCC Implementing Acts for each customs system



Presentation of a short selection of Customs digitalisation projects



UCC REGISTERED EXPORTER SYSTEM (REX)

- *Concerns GSP Rules of Origin – reduced import duties for products from developing countries*
- *Replaces paper certificates with electronic system for registered exporters*
- *Currently under preparation and legal obligation to start January 2017*
- *Cooperation with CH, NO ongoing and with TR under discussion*

UCC Customs Decisions

- *Concerns nearly all customs Decisions and will lead to authorisations valid in several or all EU MS*
- *Currently under development, with Business processes designed and IT architecture agreed*
- *System to be operational in 2nd Semester 2017*
- *Novelty: EU wide or multi-MS authorisations instead of only national authorisations*

UCC Guarantee management

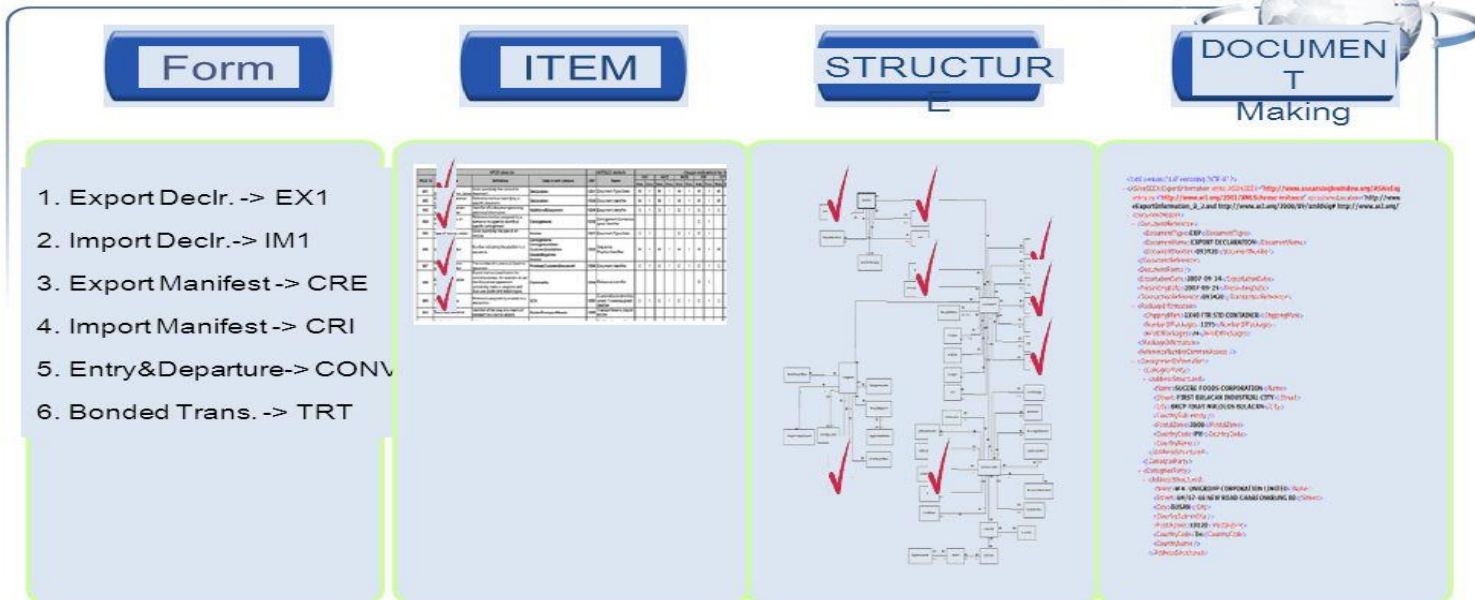
- *Concerns EU wide management of Customs guarantees*
- *Advantage extend validity of guarantees to several MS or even the whole EU if requested*
- *Currently a Project Group is discussing the Business Architecture*
- *System to manage guarantees to be ready by 2nd Semester 2020*
- *Monitoring of existing customs debt will be done 'on-line'*
- *Monitoring of potential customs debt, will be done by audits instead of on-line monitoring*

Safety and Security and Risk Management

- *Concerns strengthening of current ICS 1.0 system which manages Entry Summary Declarations and will include multiple filing and new data requirements*
- *A common repository of ENS and a shared trader interface will be created*
- *Risk Management will be strengthened*
- *Currently a staged approach is envisaged and subsequently business specifications will be prepared*
- *Start of operations scheduled for late 2020*
- *Main impact expected on maritime and air modes of transport*

WCO compatible EU Customs Data Model

WCO Data Model- information design



Major changes in EU Customs are happening !

- ✓ *The new data requirements of the EU Customs systems under development are based upon and compatible with the **WCO data model***
- **Legal basis** for the EU Customs data model is in the UCC-DA and UCC-IA and their Annexes
- **Publication of the EU Customs Data Model** on Commission web site on 31.05.2016.
- http://ec.europa.eu/taxation_customs/business/union-customs-code/ucc-guidance-documents_en





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UCC Legal Requirements Data Model

GEFEG.FX - Professional+ - [Data model editor - UCC Pubs; 2.1]

File Edit View Reports Extras Window Help

Show all objects

Main/Data groups/Group 1/1/6 Goods item number

Data groups

- Group 1
 - 1/1 Declaration type
 - 1/2 Additional Declaration Type
 - 1/3 Transit Declaration Type
 - 1/4 Forms
 - 1/5 Loading lists
 - 1/6 Goods item number**
 - 1/7 Specific circumstances indicating
 - 1/8 Signature/Authentication
 - 1/9 Items
 - 1/10 Procedure
 - 1/11 Additional procedure
 - 1/13 MRN
 - 1/14 Goods item number in previous
- Group 2
- Group 3
 - 3/1 Exporter Address
 - 3/1 Name
 - 3/1 Street
 - 3/1 Country
 - 3/1 Postcode
 - 3/1 City
 - 3/2 Exporter ID
 - 3/3-1 Consignor Address (Master)
 - 3/3 Consignor ID (Master)

Composition Notes Enhanced Children

		A1	A2	A5	B1	B2	B4	B5	C1	C2	D1	D2	D3	E1	E2	F1a	F1b	F1c	F1d	F2a	F2b
B-DA DataReqTable Columns																					
B-DA DataReqTable Usage	1/6	AB	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A
B-DA DataReqTable Usage	1/6	XY	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
B-DA DataReqTable Usage	1/6	Foot note								[79]	[3]	[3]		[3]							

UCC DE Def

DE 1/6

Name Goods item number

Box No 32

Format n..5

Code list Y/N N

Header Cardinality

Item Cardinality 999x

Notes

Remarks

B-DA DataReqNotes Usage

DE 1/6

Title Data Requirements table columns A1-A5, B1-B5, C1, D1, D2,E1, E2 F1a to F1d, F2a to F2c, F3a, F4a, F4b, F4d, F5, G3 to G5, H1 to H7 and I1:

Text Number of the item in relation to the total number of items contained in the declaration, the summary declaration, notification or proof of Union status, where th

B-DA DataReqNotes Usage

DE 1/6

Title Data Requirements table column C2 and I2:

Text Item number assigned to the goods upon entry in the declarant's records.

B-DA DataReqNotes Usage

DE 1/6

Title Data Requirements table column F4c:

Text Item number assigned to the goods within the CN23 concerned.

Mapping of UCC Pubs DM to EU Customs DM Shipment View



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Show influenceable objects only

- 2/8 Identification of warehouse (O)
 - 2/8 Type (O - string)
 - 2/8 Identifier (O - string)
- Group 3
 - 3/1 Exporter Address (O)
 - 3/1 Name (O - string)
 - 3/1 Street (O - string)
 - 3/1 Country (O - string)
 - 3/1 Postcode (O - string)
 - 3/1 City (O - string)
 - 3/2 Exporter ID (O)
 - 3/3-1 Consignor Address (Master) (O)

- Exporter (O)
 - name (O)
 - identification (O)
 - role (N)
 - Address (O)
 - type (N)
 - cityName (O)
 - country (O)
 - countrySubDivision (N)
 - countrySubDivisionName (N)
 - line (O)
 - postcode (O)
 - Contact (N)

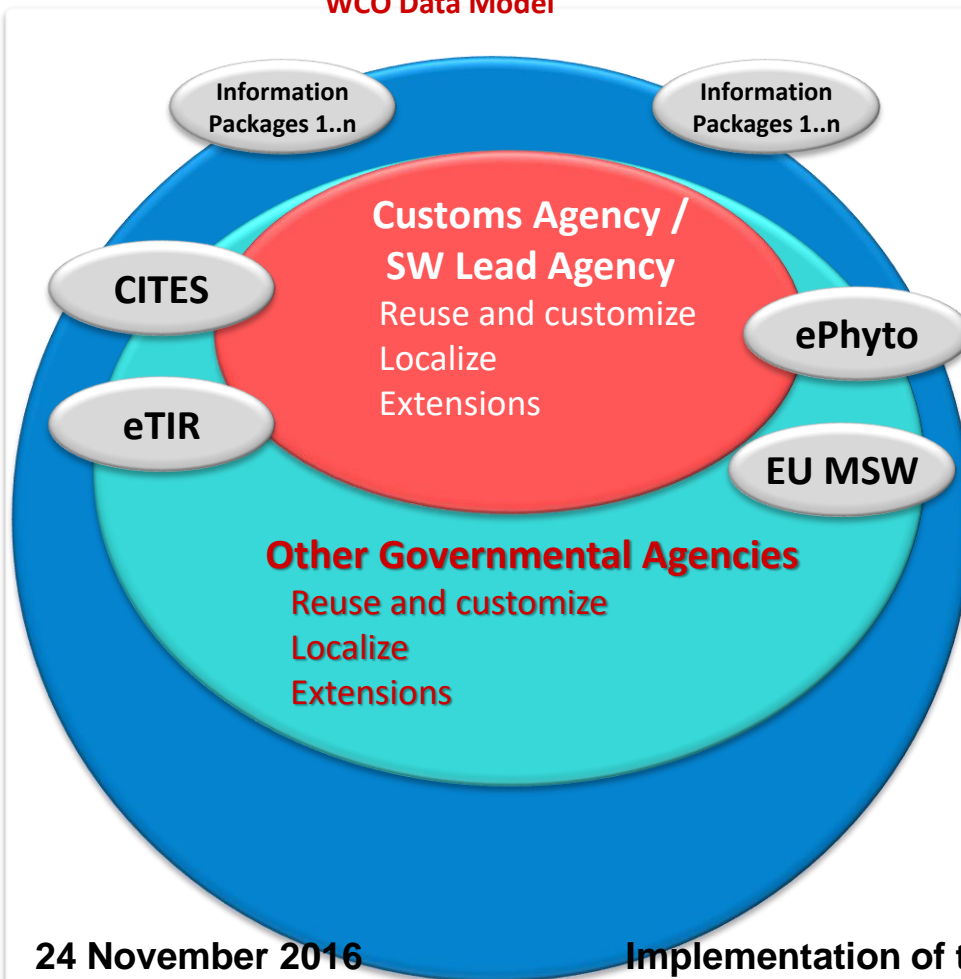
Attribute	Notes	External code lists	Codes	Enhanced	Children
UCC DE Map					
DE			3/1		
Name			Exporter country code		
Box No			2		
Format			a2		
Code list Y/N			N		
Header Cardinality					
Item Cardinality					
Notes			Country code:		

Attribute	Notes	Enhanced	Children
UnqualifiedDataType			
WCO Code Remarks			EDIFACT codes (3207) = ISO 3166-1 2-alpha code
WCO			
WCO ID			242
WCO NAME			Country, coded
WCO DESC			Identification of the name of the country or other ge
WCO Class Name			Address
WCO Format			a2
Core Data Type			Code

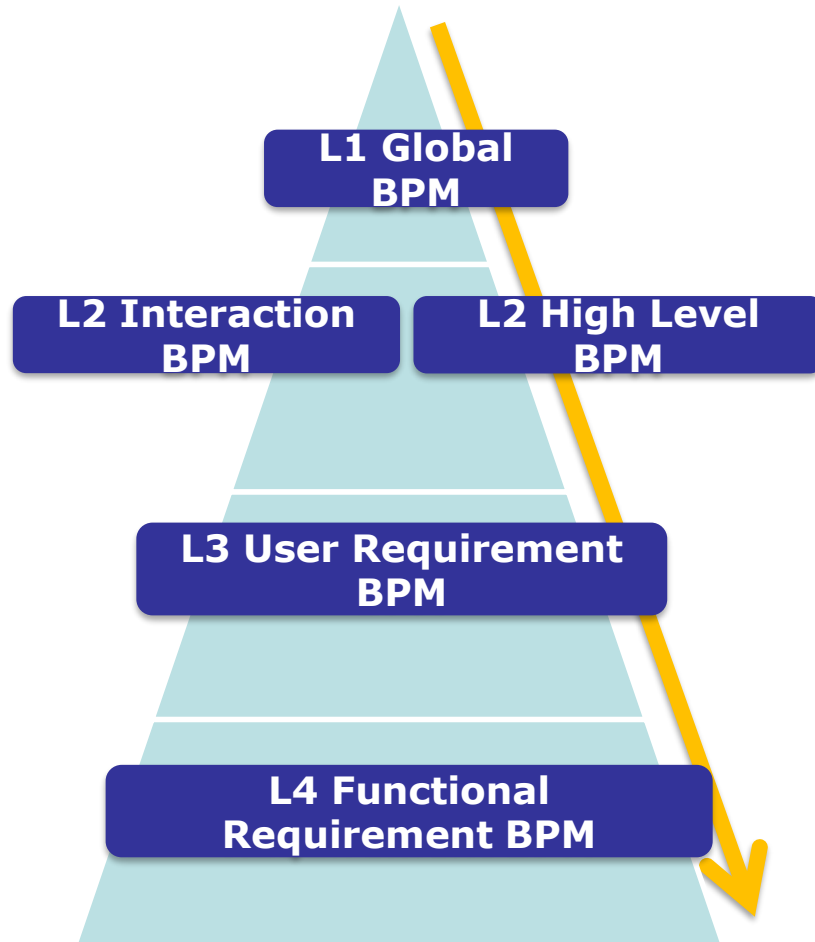
Seq		^ Source	Link	Target
7	✓	1/11 Additional procedure (O - string)	3	current (O)
8	✓	2/8 Type (O - string)	57	role (O)
9	✓	2/8 Identifier (O - string)	58	identification (O)
10	✓	3/1 Name (O - string)	5	name (O)
11	✓	3/1 Street (O - string)	115	line (O)
12	✓	3/1 Country (O - string)	6	country (O)
13	✓	3/1 Postcode (O - string)	7	postcode (O)

Wider use of the EU Customs Data Model

WCO Data Model



- **Reuse and customization** of the WCO Data Model
- **National localizations** of the WCO Data Model
- **Extensions** for additional requirements + DMRs to DMPT
- **Auto-generation of document structure publications** for both single documents and their supersets
- **Auto-generation of XML schema** following either WCO XML schema design rules or another concept



L1 Global BPM

- Overview of Customs Business Domains covered by MCCIP

L2 Interaction BPM

- Visualizing of interactions between main Customs Business Domains

L2 High Level BPM

- Overview of main process steps and links to L3

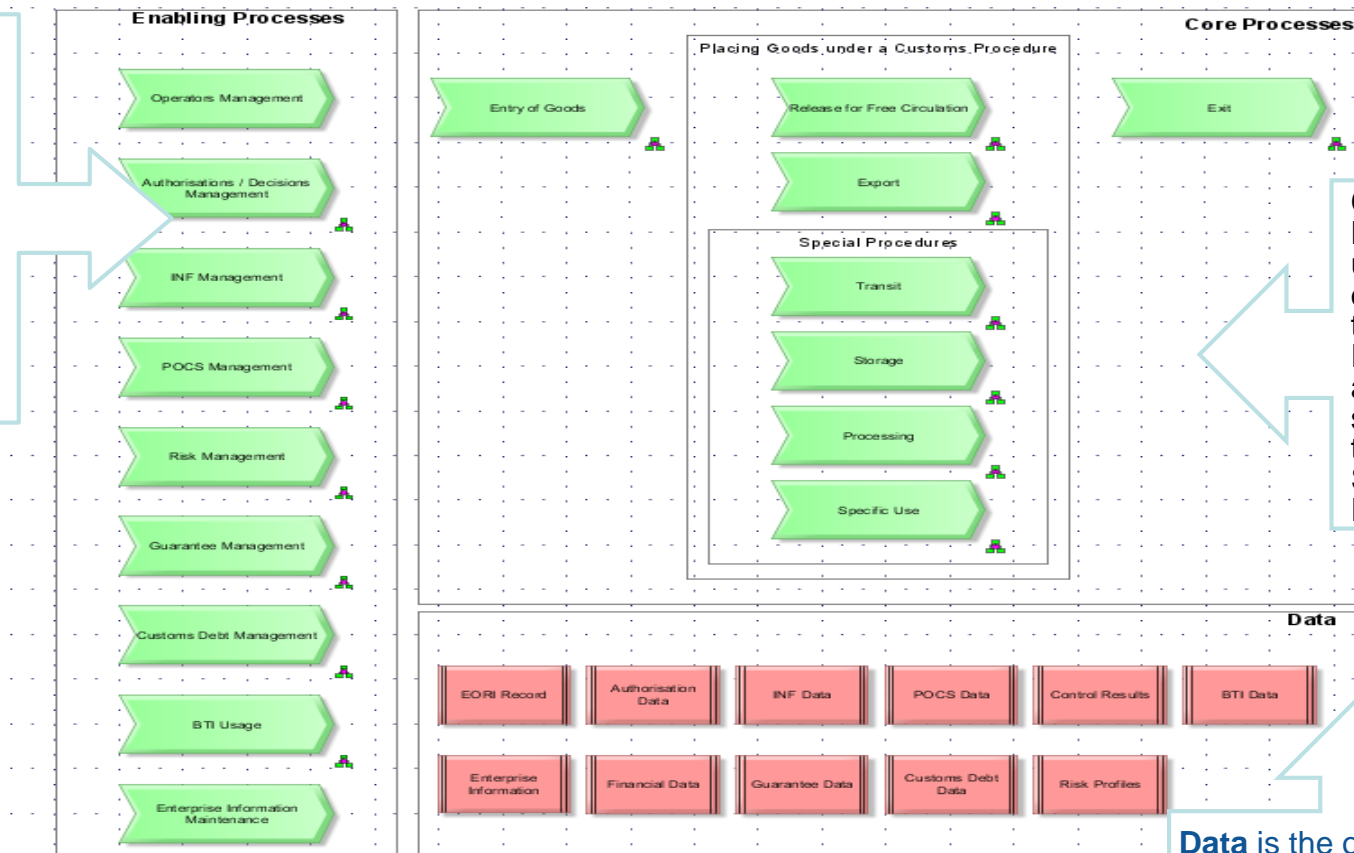
L3 User Requirement BPM

- Specify the legal and business steps to achieve a business objective

L4 Functional Requirement BPM (ex-functional specification)



L1-MCC-Global BPM



Enabling Processes

Facilitate the core processes by creating information that can be reused later by supporting processes

Core Processes use the Data output from the Enabling Processes and are supported by the Supporting Processes

Data is the output created by the Enabling Processes that will be used by the Core Processes

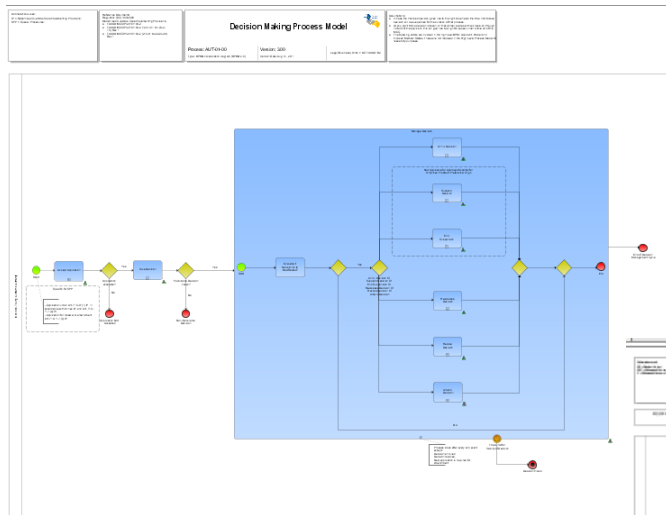
L3 BPM



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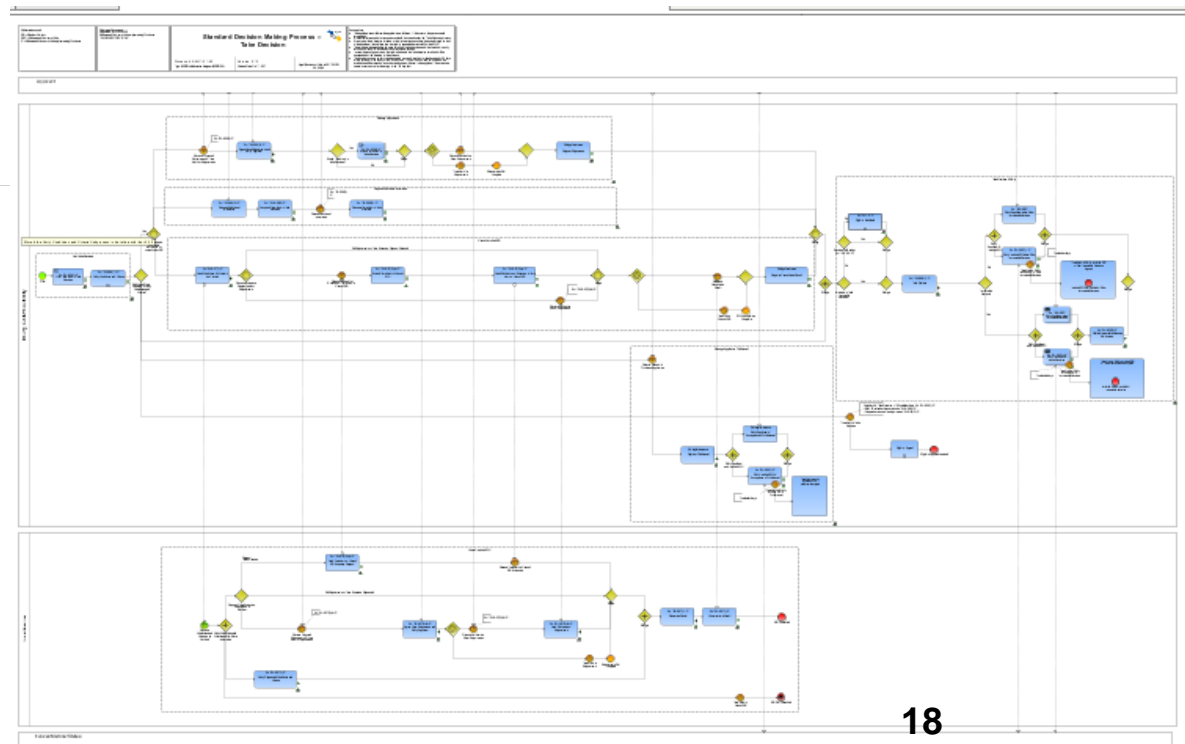
L2 High Level BPM

shows an overview
of the main steps
in the process:
provides links to
the L3 User
Requirement
Models



L3 User Requirement BPM

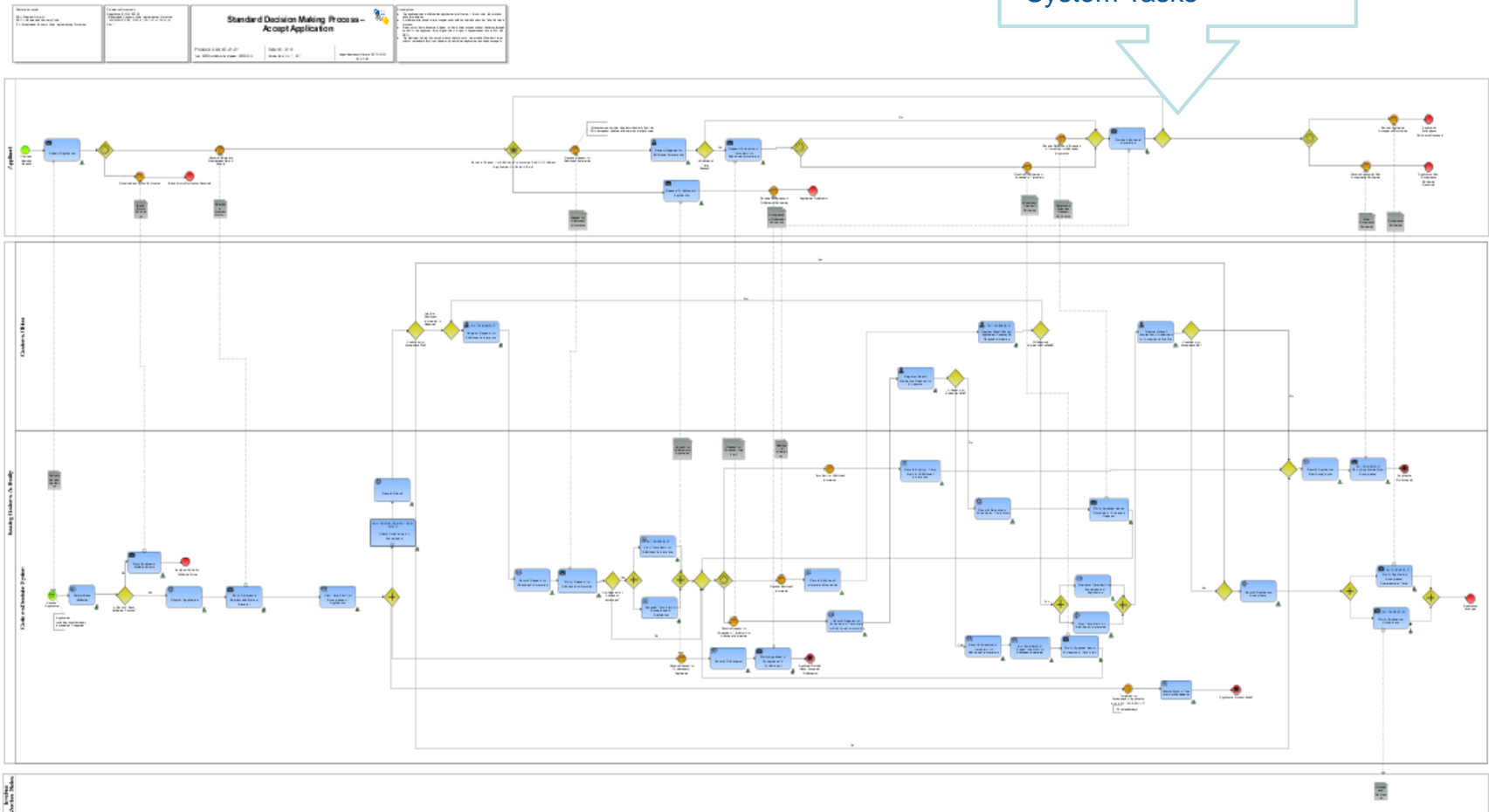
From here you
can access the
Level 4 Detailed
BPM models via
Groupings of
Tasks



L4 Functional Requirement BPM

System Point of View:
Includes additional system
steps and pool is split into

- User Tasks
- System Tasks



Conclusions

Top Down Hierarchy Process View

Provides different views dependent on level of detail that is relevant for the reader

- **Global View down to Detailed BPM View**

Different view dependent on the aspect of the models that the reader is interested in

https://ec.europa.eu/taxation_customs/business/union-customs-code_en

Wider digitalisation efforts

- ✓ *EU Customs Single Window initiative: digitalisation of certificates and documents based on non-Customs EU legislation but required at entry/import or export/exit of goods.*
- ✓ *Introduction of electronic transport documents used for customs purposes*
- ✓ *eManifest pilot project: establishment of an electronic EU harmonised ships manifest.*

Conclusion



- *Digitalisation of Customs is required for reaching the required level of efficiency and effectiveness:*
 - Facing volumes generated by globalisation of international trade (e.g. containerisation and eCommerce)
 - Facing new security and safety threats
 - Integration of customs business in the fully automated business processes of the private industry and the associated data exchange



The background of the slide is the flag of the European Union, featuring a blue field with twelve five-pointed gold stars arranged in a circle. The flag has a subtle wavy texture.

**THANK YOU VERY MUCH FOR
YOUR ATTENTION**

QUESTIONS ?

Frank JANSSENS

European Commission - TAXUD A/3

Telephone: + 32 2 295 48 39

e-mail: Frank.Janssens@ec.europa.eu

Web http://ec.europa.eu/taxation_customs/index_en.htm