Introduction

Dominique Willems

Director Public Affairs & Government Relations

Digital Container Shipping Association (DCSA)

www.dcsa.org

Rapporteur Paperless Transport / eFTI Regulation

Digital Transport & Logistics Forum (DTLF)

EU Commission – DG MOVE

www.dtlf.eu

DIGITAL TRANSPORT & LOGISTICS FORUM

dcsa

Founded in 2019 by 9 Shipping lines

Members currently represent 70% of global container transport

To enable system interoperability through open-source standards

Non-profit & Neutral

Standards include Track & Trace, e-Bill of Lading, IoT Container Connectivity, Port Call Optimisation and Cyber Security
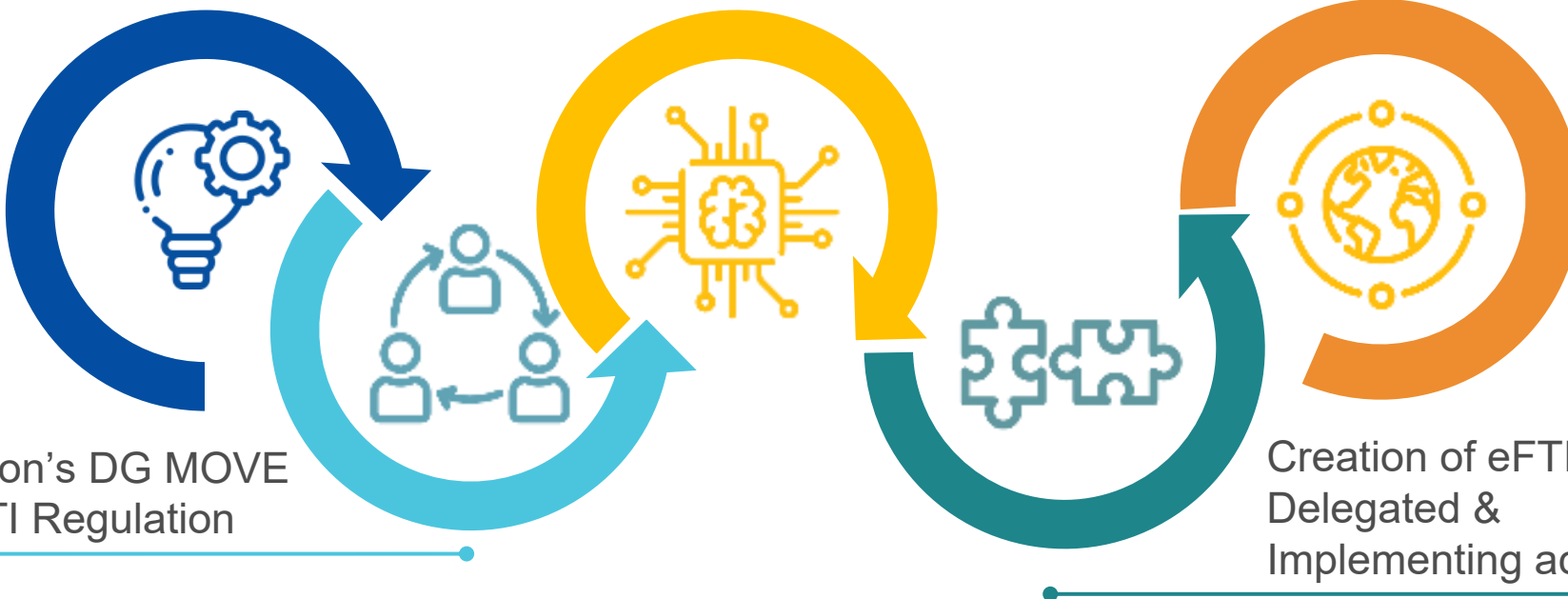
DTLF SG1 Mandate

DTLF I recommends
EU action on
Paperless Transport

DTLF II SG1 advises & assists in
Creation and Implementation of
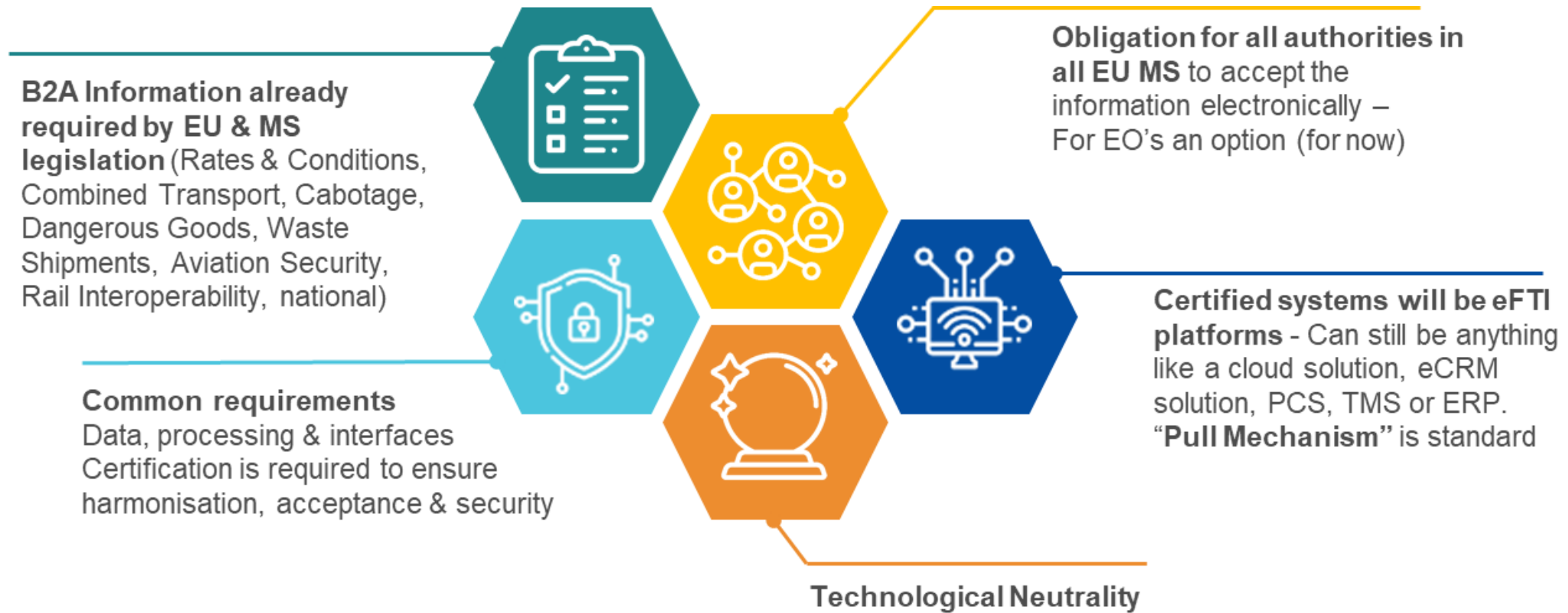eFTI sub legislation

eFTI Implementation

EU Commission's DG MOVE
Proposes eFTI Regulation
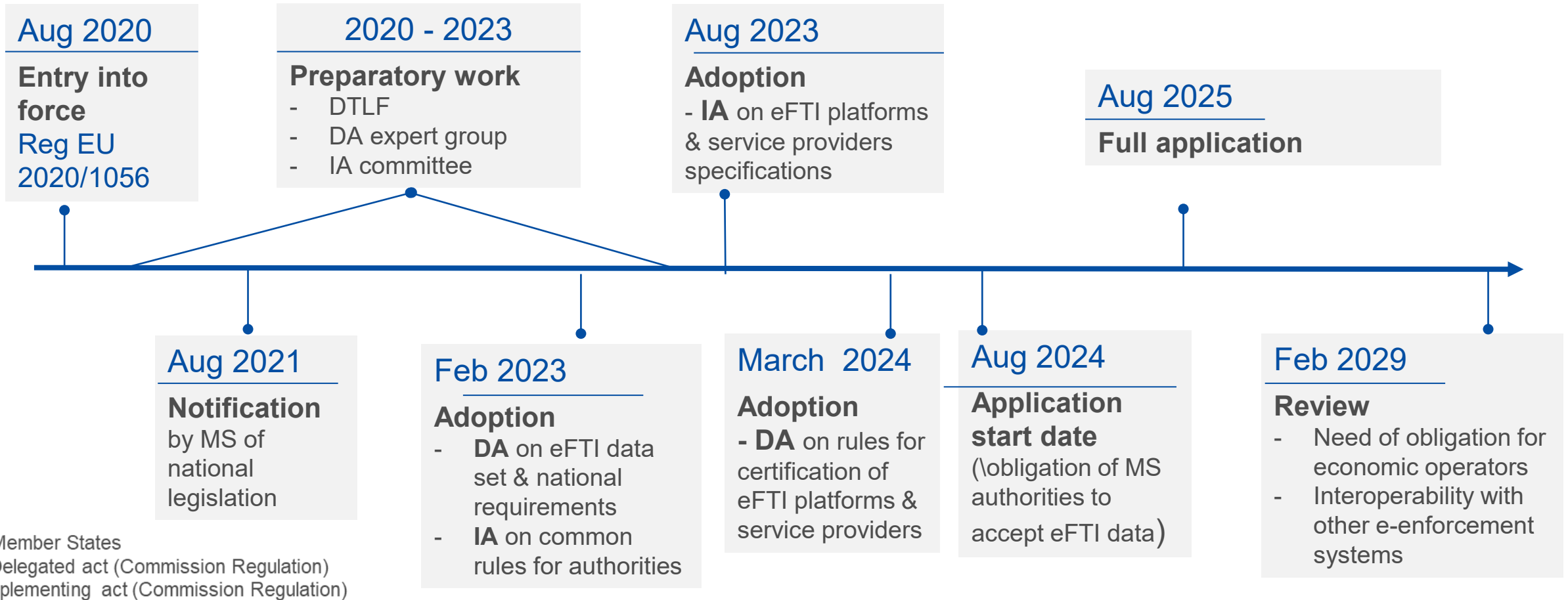
Creation of eFTI
Delegated &
Implementing acts

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SG1 bound by eFTI Principles, Scope, Requirements & Deadlines

B2A Information already required by EU & MS legislation (Rates & Conditions, Combined Transport, Cabotage, Dangerous Goods, Waste Shipments, Aviation Security, Rail Interoperability, national)

Obligation for all authorities in all EU MS to accept the information electronically – For EO's an option (for now)

Common requirements Data, processing & interfaces Certification is required to ensure harmonisation, acceptance & security

Certified systems will be eFTI platforms - Can still be anything like a cloud solution, eCRM solution, PCS, TMS or ERP. **"Pull Mechanism"** is standard

Technological Neutrality

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DIGITAL TRANSPORT & LOGISTICS FORUM

European Commission

eFTI Regulation – Implementation timeline

Aug 2020

Entry into force
Reg EU 2020/1056

2020 - 2023

Preparatory work
- DTLF
- DA expert group
- IA committee

Aug 2023

Adoption
- **IA** on eFTI platforms & service providers specifications

Aug 2025

Full application

Aug 2021

Notification
by MS of national legislation

Feb 2023

Adoption
- **DA** on eFTI data set & national requirements
- **IA** on common rules for authorities

March 2024

Adoption
- **DA** on rules for certification of eFTI platforms & service providers

Aug 2024

Application start date
(\obligation of MS authorities to accept eFTI data)

Feb 2029

Review
- Need of obligation for economic operators
- Interoperability with other e-enforcement systems

MS – Member States
DA – Delegated act (Commission Regulation)
IA – Implementing act (Commission Regulation)

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DTLF SG1 Organisation

Teams & Deliverables are linked to eFTI articles

1. Data

2. Functional

3. Technical

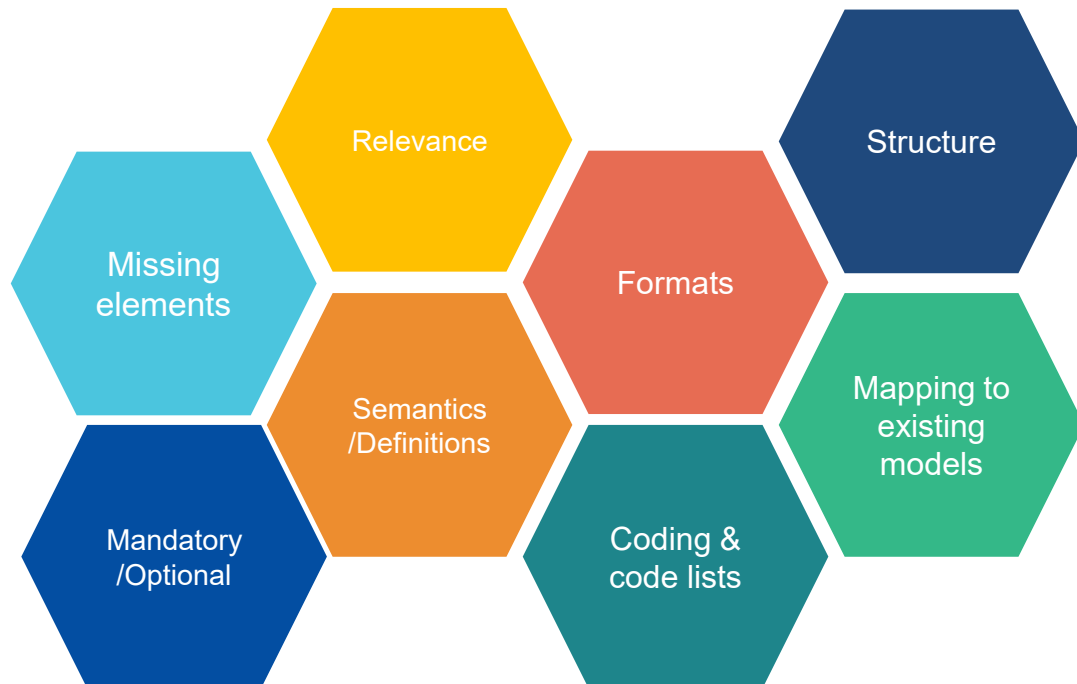4. Certification & Implementation
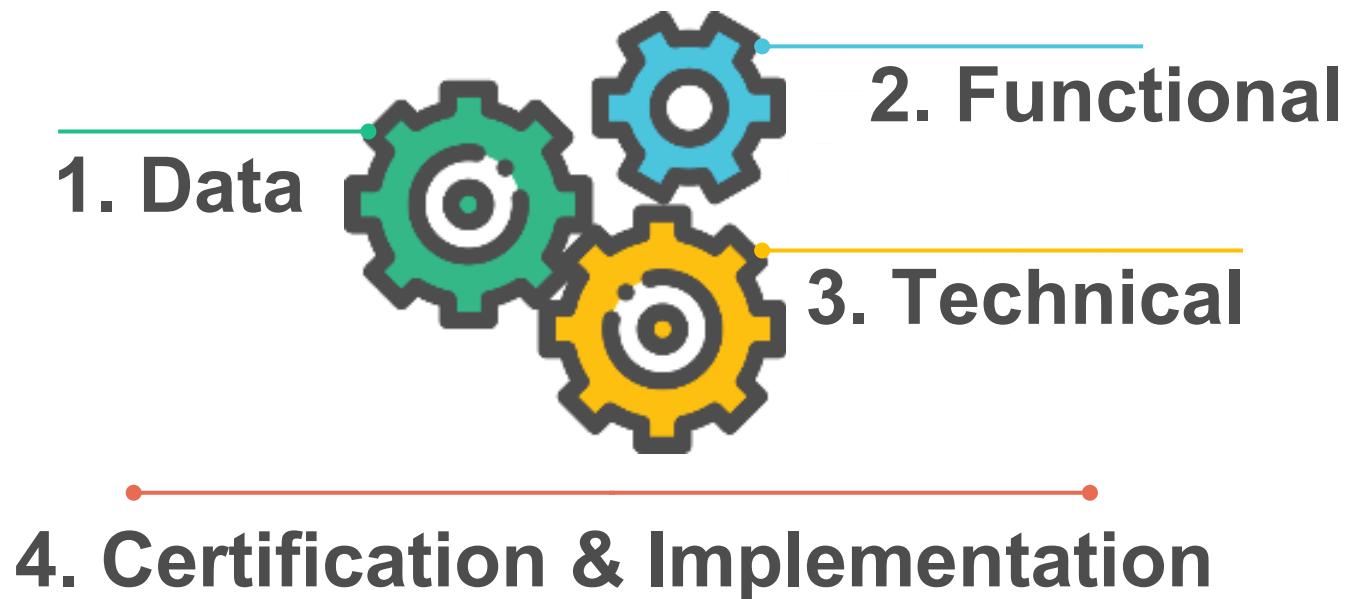
- ✓ +/- 100 experts (public, private, NGO's, academia)
- ✓ All modes of transport
- ✓ 6 Tasks – 4 Teams
- ✓ Online calls every 2 weeks in different settings
- ✓ Bilateral calls & participation in Webinars and online meetings of MS authorities and other stakeholders
- ✓ Incremental approach – results delivered in separate parts instead of all at once

Team 1 - Data

Results of Team work so far

In-depth discussions with core team per data element on

- Missing elements
- Relevance
- Formats
- Structure
- Semantics /Definitions
- Coding & code lists
- Mapping to existing models
- Mandatory /Optional

Currently working on

Publication of First Draft eFTI Data Requirements for initial review
- ✓ End of January
- ✓ First Draft eFTI Data Requirements documentation:

  1. Explanatory note & review instructions (must read before review)
  2. MS excel file (First Draft eFTI Data Requirements for Review)
  3. HTLM version of the first Draft of the eFTI Data Requirements (incl. class diagram)

Dangerous Goods alignment
- ✓ Expert group created
- ✓ Options paper created & discussed
- ✓ Mapping of eDGTI vs. eFTI-DR / CEFACT MMT RDM

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Functional Aspects

Key Elements of the Functional Aspects Workplan

**Deliverables**

Team 2 of SG1 will provide assistance & advice to the EC on:
- ✓ defining the common procedures and detailed rules, including common technical specifications, for competent authorities' access to eFTI platforms
- ✓ establishing the specifications for the requirements for the eFTI platforms
- ✓ establishing the rules regarding the requirements for eFTI services providers

Approach
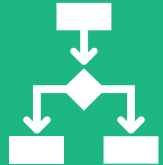
- o Multitude of differentiating factors, there is no catch-all business process model
- o It should still be possible to create a generic model or master flow based on multimodality with some diversification.
- o Therefore, identifying the sources that drive functional diversity is a key task
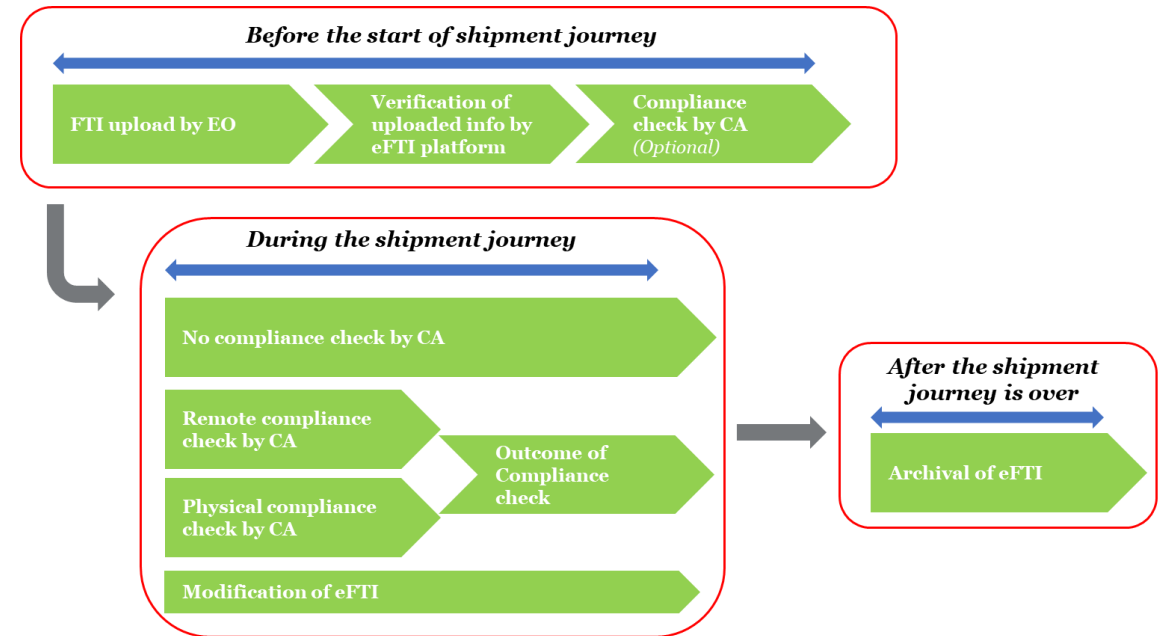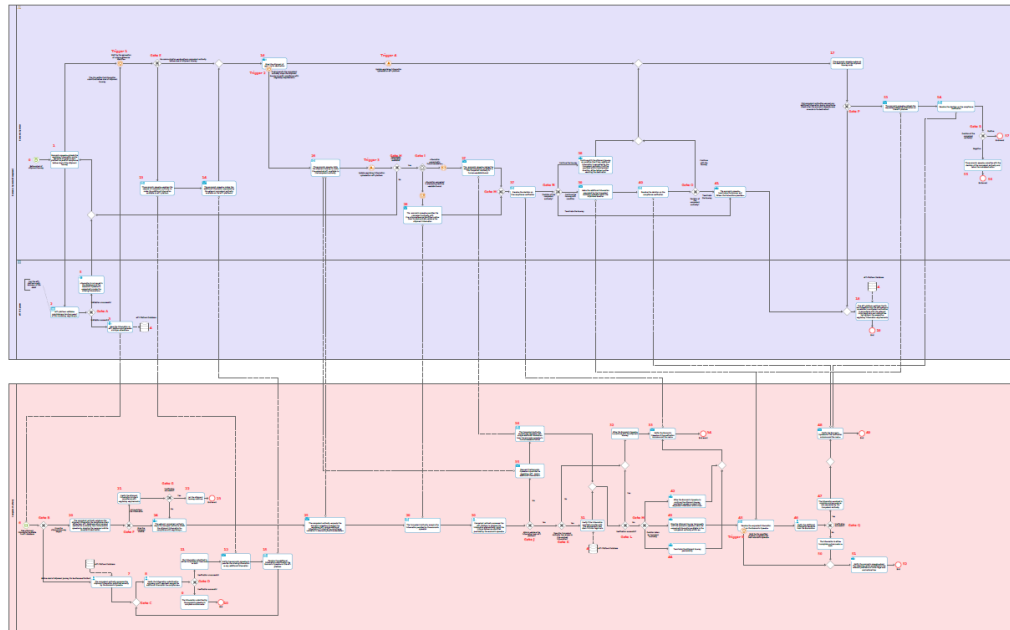
Methodology

EU Business Process Modelling (EU BPM)

Generic Business Process Model (Version 1.0)

The generic Business Process Model provides a high-level visual representation of the end-to-end freight transport process – how EO shall make the FTI available digitally, and how authorities shall retrieve and check the information and archive.

Note:
- FTI – Freight Transport Information | EO – Economic Operator | CA – Competent Authority | eFTIp – eFTI IT platform
- Generic means that for certain good-types lie DG and WS, a different variation of the process flow might be required.

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Technical Introduction & Objective

Establishment of the technical specifications (articles 8, 9 & 10 of the eFTI regulation) – IT infrastructure

- Article 8 of the eFTI Regulation states that the Commission shall establish, by means of implementing acts, common procedures and detailed rules, including common technical specifications, for competent authorities' access to eFTI platforms, including procedures for processing of regulatory information made available electronically by the economic operators concerned.

- Articles 9 and 10 of the eFTI Regulation empower the Commission to adopt implementing acts that will lay down detailed specifications regarding the requirements for the eFTI platforms and, respectively, for the eFTI service providers as set out in those respective articles.

- Adoption of DA & IA February 2023

Define a high level eFTI Technical Architecture

- Interoperability of different information system and solution taken into consideration

- Business-to-Administration orientated

- Consistent with eFTI data and functional specifications

Legal Analysis

Regulatory provisions

The legal texts are analysed and the relevant provisions are extracted.

What makes a provision relevant is that it relates to

- the exchange of regulatory information between the economic operator and the competent authority
- the use of regulatory information by the competent authorities (including exchange between authorities, and reporting)
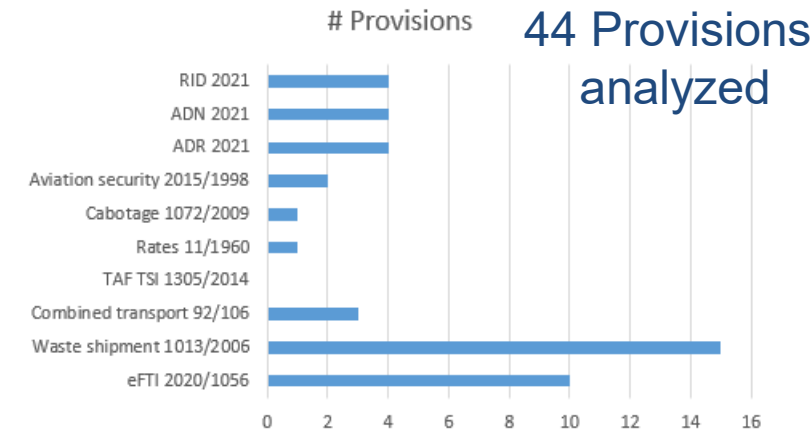
The status of each provision reflects the work progress:

- extracted: the provision is extracted from the associated regulation
- rejected: the provision is out of scope
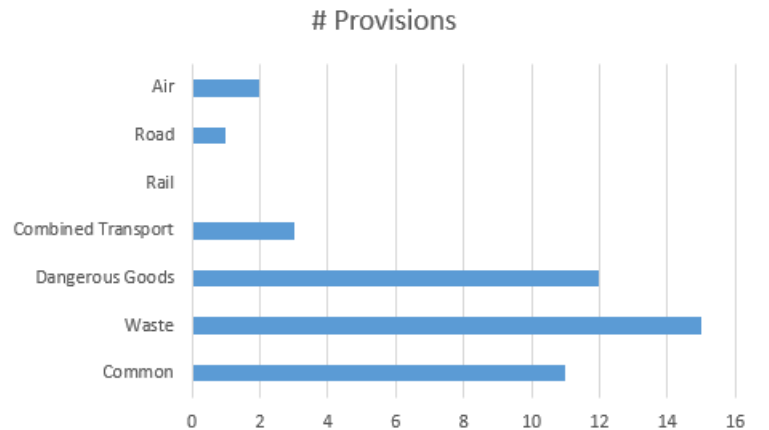- analysed: the provision is analysed and the related requirements are specified

Legal-Provisions-list

✓	Regulation	Article #		Provision
✓	Waste shipment 1013/2006	WSR Art. 16(c)	•••	The notifier shall retain a copy of the movement document. The movement document and copies of the notification document containing the written consents and the conditions of the competent authorities concerned shall accompany each transport.
	eFTI 2020/1056	eFTI Art. 4(2)	•••	Where the economic operators concerned make regulatory information available electronically to a competent authority, they shall do so on the basis of data processed on a certified eFTI platform and, if applicable, by a certified eFTI service provider. That regulatory information shall be made available by the economic operators concerned in machine-readable format and, at the request of the competent authority, in human-readable format.
	eFTI 2020/1056	eFTI Art. 4(3)	•••	Information in machine-readable format shall be made available via an authenticated and secure connection to the data source of an eFTI platform. The economic operators concerned shall communicate the unique electronic identifying link referred to in point (e) of Article 9(1) that enables the competent authority to uniquely identify the regulatory information related to the shipment.
	eFTI 2020/1056	eFTI Art. 4(4)	•••	Information in human-readable format requested by competent authorities shall be made available on the spot, on the screen of an electronic device owned by the economic operator concerned.
	eFTI 2020/1056	eFTI Art. 5(1)	•••	As from 30 months after the date of entry into force of the first of the delegated and implementing acts referred to in Articles 7 and 8, competent authorities shall accept regulatory information made available electronically by the economic operators concerned in accordance with Article 4, including where such regulatory information is requested by competent authorities as additional information.
	eFTI 2020/1056	eFTI Art. 5(2)	•••	Where the economic operator concerned has made, regulatory information required pursuant to Regulation (EC) No 1013/2006 available electronically in accordance with Article 4 of this Regulation, the competent authorities concerned shall also accept such regulatory information without the agreement referred to in Article 26(3) and (4) of Regulation (EC) No 1013/2006.

44 Provisions analyzed

Provisions — Distribution by Regulation

- RID 2021
- ADN 2021
- ADR 2021
- Aviation security 2015/1998
- Cabotage 1072/2009
- Rates 11/1960
- TAF TSI 1305/2014
- Combined transport 92/106
- Waste shipment 1013/2006
- eFTI 2020/1056

Provisions — Distribution by Domain

- Air
- Road
- Rail
- Combined Transport
- Dangerous Goods
- Waste
- Common

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Architectural Principles

P1	Data sovereignty		P11	Generic principle of providing the data
P2	Data at source, Pull/Push		P12	Open specifications and standards
P3	Trust among participants, authentication and non-repudiation		P13	Level playing field
P4	Security, appropriate authentication		P14	Benefits outweigh investments for all types of participants
P5	Roles and responsibilities		P15	Support concurrent paper and digital processes
P6	Once-Only Principle		P16	Scalability
P7	Decentralized approach		P17	Modularity
P8	Enable interoperability and integration with existing solutions and standards		P18	KISS, Keep it Simple and Stupid (... and robust)
P9	Architecture implementation as platform specific model		P19	Holistic Thinking
P10	Technology independence, platform specific model			

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Building Blocks

Building blocks grouped:
- Architecture-related BB for federated, distributed ecosystems
- BB for data distribution – data at source and metadata sharing
- BB for data and service discovery
- BB for data access, delivery, exchange
- BB for identification, authentications of users and systems
- BB for authorisations, roles, permissions, mandates
- BB for evidence, logging and auditing
- BB for data security
- BB for data modelling, vocabularies, semantics

- review directly interconnected Architecture Principles
- output to the Reference Architecture and
- alternative options to be available

SG1 Coordination and Support : Who does what?

SG1 Coordination
European Commission: L. Potec (DG MOVE) & V. Varjas (DG MOVE)
SG1 Rapporteur: D. Willems (DCSA)

In your communication with the SG1 Coordination team **always** copy MOVE-DIGITAL-TRANSPORT@ec.europa.eu

Team-level			**Overall SG1-level**
Team Leaders	**Technical Support**	**Organisational Support** A. Hermans (alexanhermans@deloitte.com)	**DG MOVE Secretariat** **E. Panagopoulou** (Eirini.PANAGOPOULOU@ec.europa.eu)

Team Leaders

Team 1 – Data : D. Willems
Team 2 - Functional: E. Evtimov & N. Delmeire
Team 3 – Technical : E. Grandry (TG1); R. Hemeleers (TG2); U. Hurt & C. Lüpges (TG4)

Technical Support

Team 1: M. Dill (Michael.Dill@gefeg.com) & V. Verbeek (vv@portexpertise.com)
Team 2: S. Ijmulwar (sijmulwar@deloitte.com)
Team 3: R. Garcia Escallon (rgarciaescallon@deloitte.com)

For any **Team-related issues (technical and organisational)**, please reach out to the respective Team leader(s) and support team, with **A. Hermans** in copy

Organisational Support A. Hermans (alexanhermans@deloitte.com)

- Please reach out to **A. Hermans** regarding matters related to:
  - **Team membership**,
  - M**ailing lists**, **meeting invitations**,
  - **SharePoint access**

DG MOVE Secretariat E. Panagopoulou (Eirini.PANAGOPOULOU@ec.europa.eu)

- Please reach out to **E. Panagopoulou, with** MOVE-DIGITAL-TRANSPORT@ec.europa.eu in cc regarding:
  - **DTLF Membership**
  - **Mailing lists and invitations to SG1 and DTLF Plenary meetings**

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Thank you for your attention

MOVE-DIGITAL-TRANSPORT@ec.europa.eu