



***14th International Capacity-Building Seminar on Trade and Transport
Facilitation***

**TRADE FACILITATION AND DIGITAL TRANSFORMATION
OF MULTIMODAL INFORMATION EXCHANGE IN EASTERN
EUROPE AND SPECA, USING UNITED NATIONS
STANDARDS**

Hybrid capacity-building seminar, Baku, Azerbaijan, 22-23 May 2023

Implementing the eFTI Regulation: eFTI Architecture for eFTI Platforms and eFTI Gates

14th International Capacity-Building
Seminar on Trade and Transport
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UNECE

ULRIKA HURT

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Ms ULRIKA HURT



eFTI REGULATION

eFTI REGULATION AND WORK OF DIGITAL TRANSPORT AND LOGISTICS FORUM

eFTI REGULATION

- From 20th of August 2025 all European Union Member States competent authorities will be accepting the electronic freight transport information from the economic operators. (*note: application date to be slightly extended*)
- It will **not** become mandatory for the economic operators to operate on electronic documentation, but **will organise the scene for doing so. Yet.**
- The Regulation establishes **a legal framework** for the electronic communication of regulatory information between the economic operators concerned and competent authorities in relation to the transport of goods on the territory of the Union.
- **Lays down the conditions** based on which competent authorities are required to accept regulatory information when that information is made available electronically by the economic operators concerned.
- **Lays down rules on the provision of services** related to making regulatory information available electronically by the economic operators concerned to competent authorities.



[LINK](#)

eFTI Regulation & Requirements

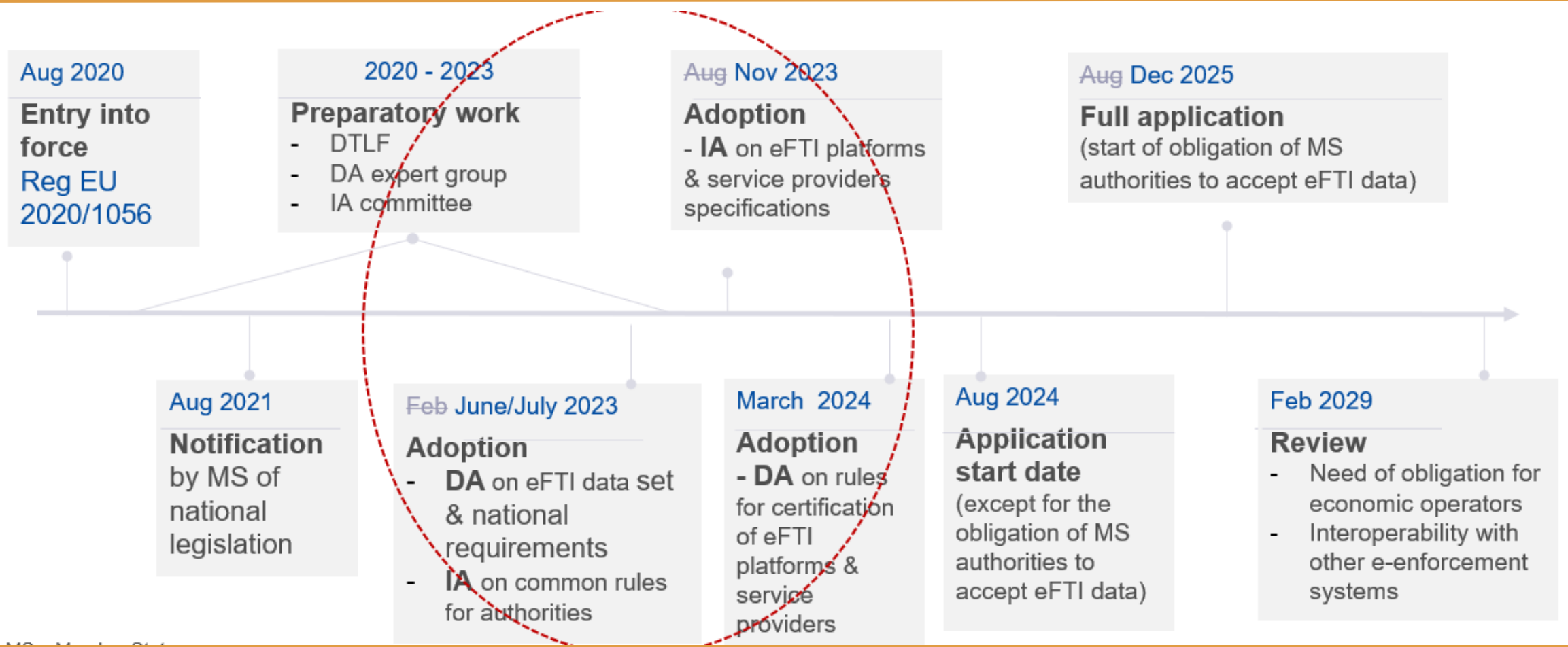
eFTI applies to **regulatory information requirements** on the transport of goods set out in the EU legal acts listed in points 1-5 below, and to regulatory information requirements laid down in delegated or implementing acts adopted by the European Commission in accordance with the legal acts listed under points 1-7 below (listed in Part A of Annex I)

1. EEC Council Regulation No 11 on inland navigation (see summary);
2. Council Directive 92/106/EEC on intermodal transport (see summary);
3. Regulation (EC) No 1072/2009 on international road haulage (see summary);
4. Regulation (EC) No 1013/2006 on waste shipments (see summary);
5. Directive 2008/68/EC on inland transport of dangerous goods (see summary);
6. Directive (EU) 2016/797 on the interoperability of the rail system (see summary);
7. Regulation (EC) No 300/2008 on civil aviation security (see summary).

The regulation also applies to similar information requirements in relevant national laws (listed in Part B of Annex I).

eFTI Regulation implementation

Indicative timeline (renewed Feb 2023)



eFTI ARCHITECTURE and COMPONENTS



eFTI Architecture Principles

Architectural Principles

P1 - Data is Shared at Source

P2 - Data Sovereignty

P3 - Decentralized Approach, Common Rules of Interaction

P4 - Trust, Non-Repudiation by Default

P5 - Security, Appropriate Authentication

P6 - Access and Rights

P7 - Once-Only

P8 - Open Specifications and Standards, Interoperability

P9 - Technology Independence

P10 - Easy Deployment, Integration and Transition

P11 - Support a Transition Period

General Architectural Principles

GP1 - Holistic Thinking

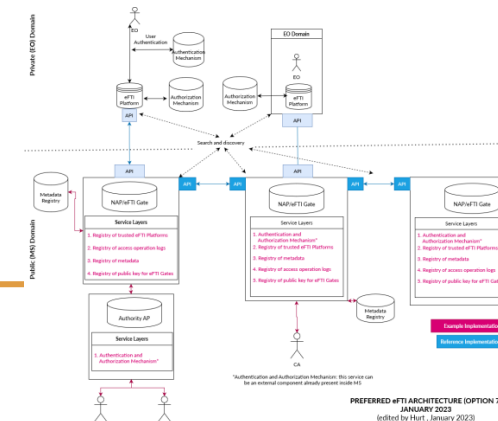
GP2 - KISS

GP3 - Scalability

GP4 - Modularity

GP5 - Maintenance and Development

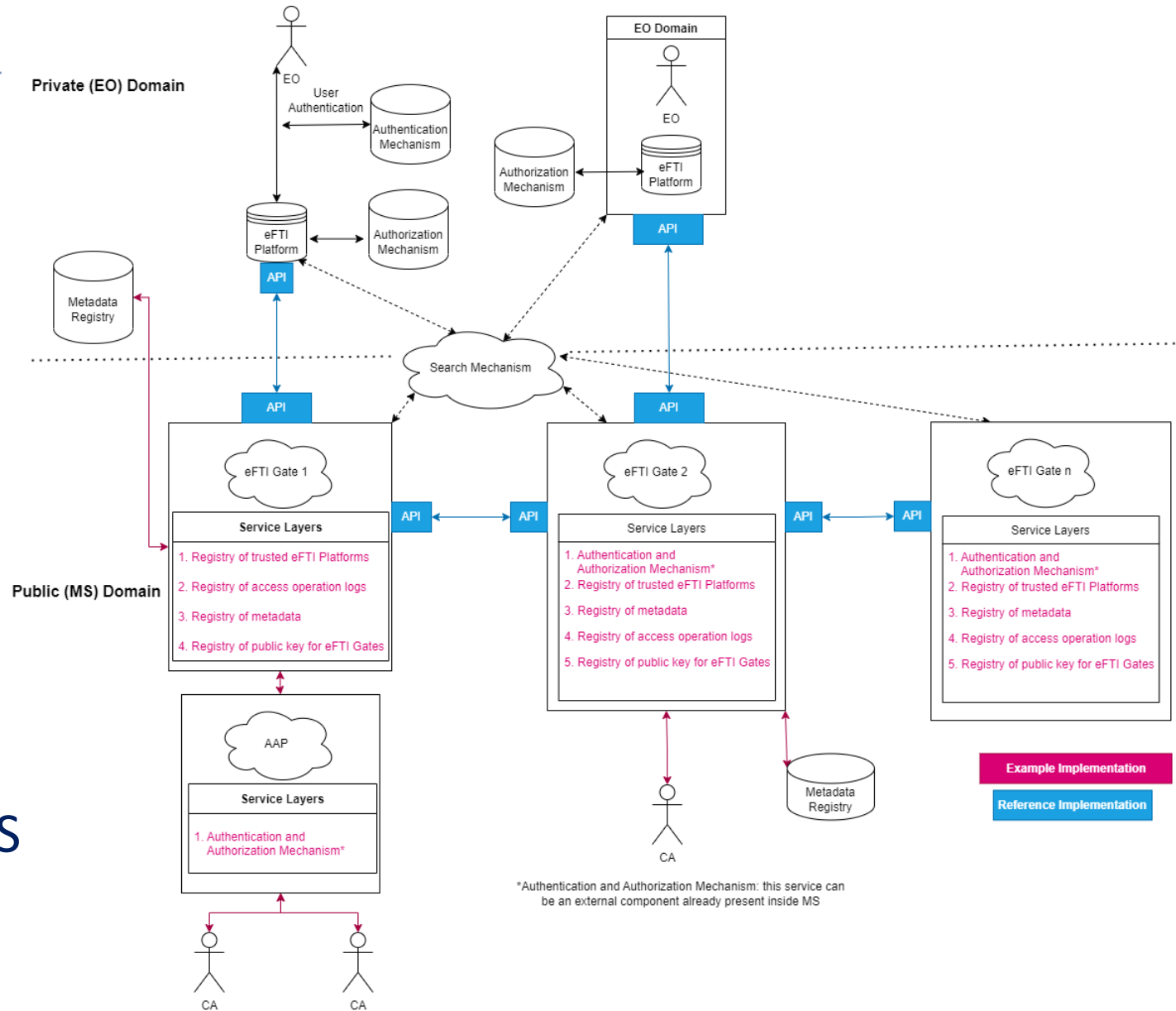
GP6 - Sustainability



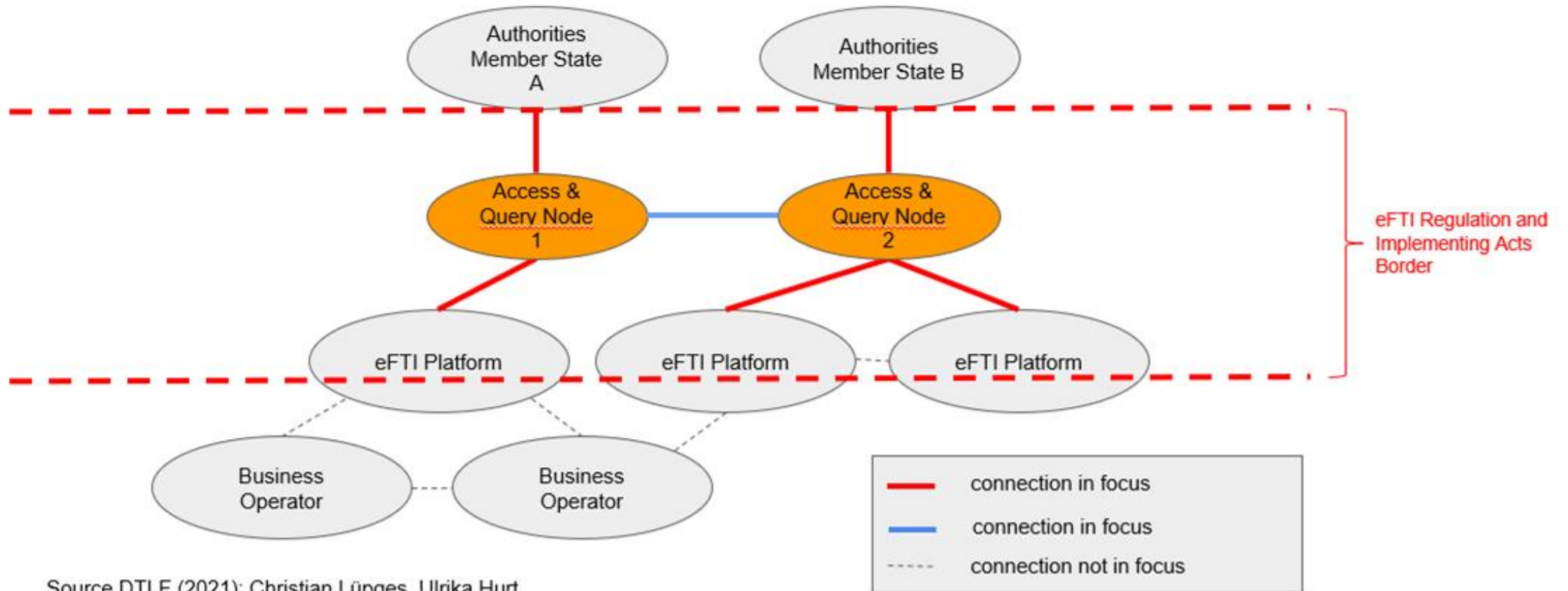
THE ARCHITECTURE HOLDS among all:

- eFTI PLATFORMS
- eFTI GATES
- AUTHORITY ACCESS POINTS

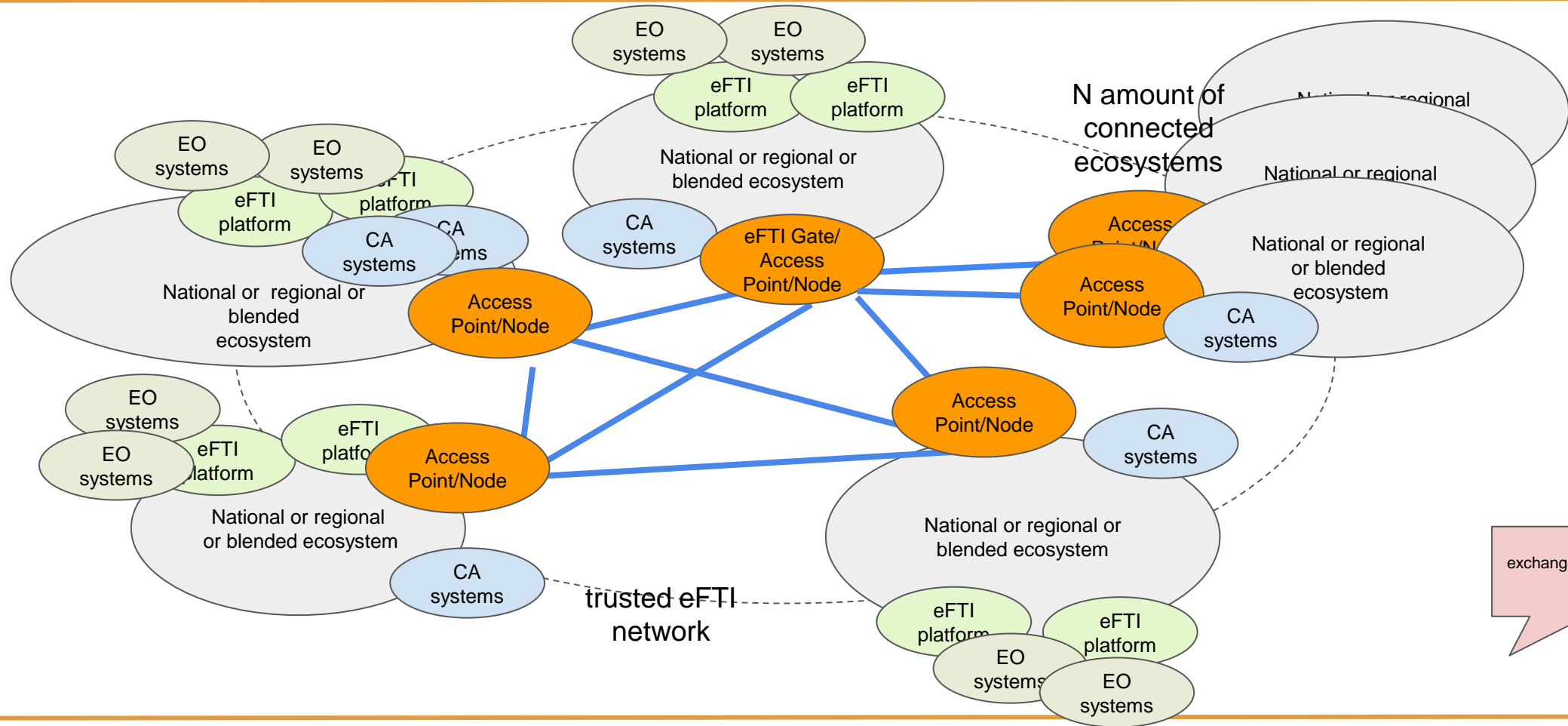
- Supported by:
- METADATA REGISTRIES
 - IAA solutions



eFTI LAYERED APPROACH

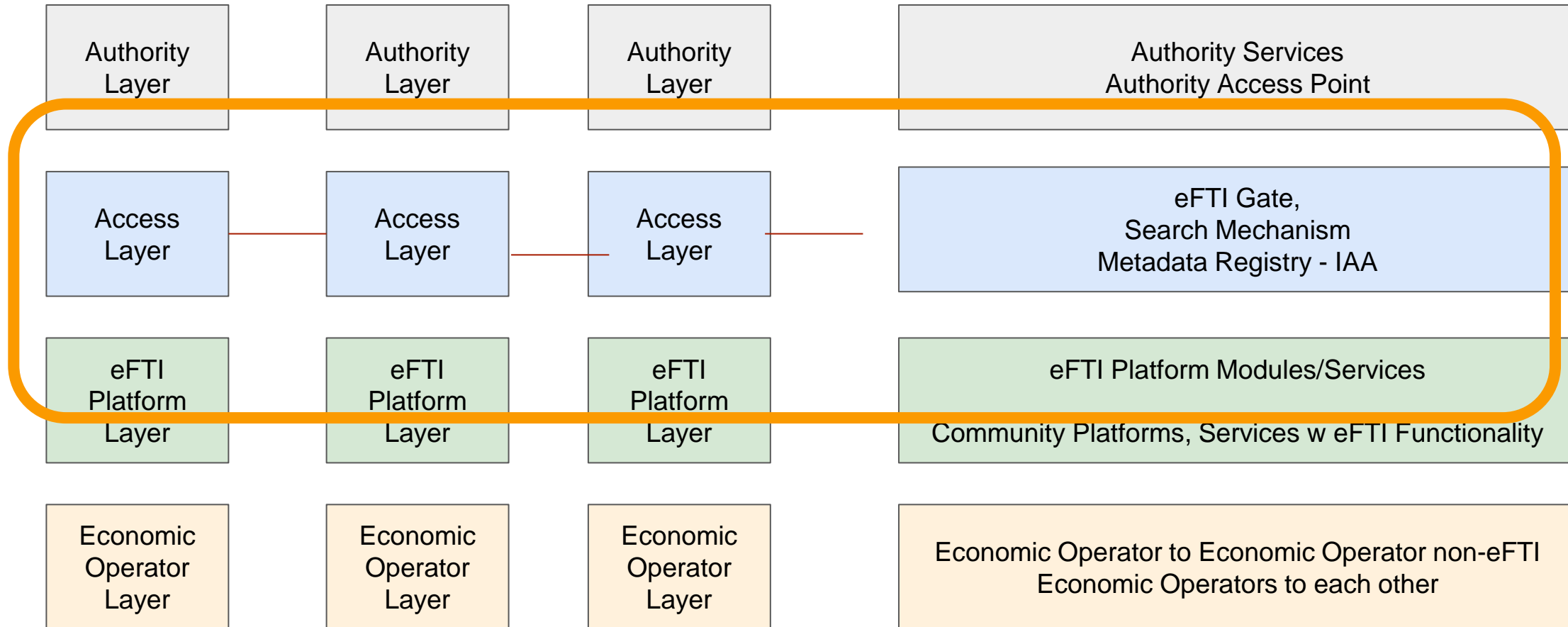


HYBRID MULTI-PLATFORMED ECOSYSTEM



LAYERED & REGULATED

Implementing Act (IA) on requirements for competent authorities

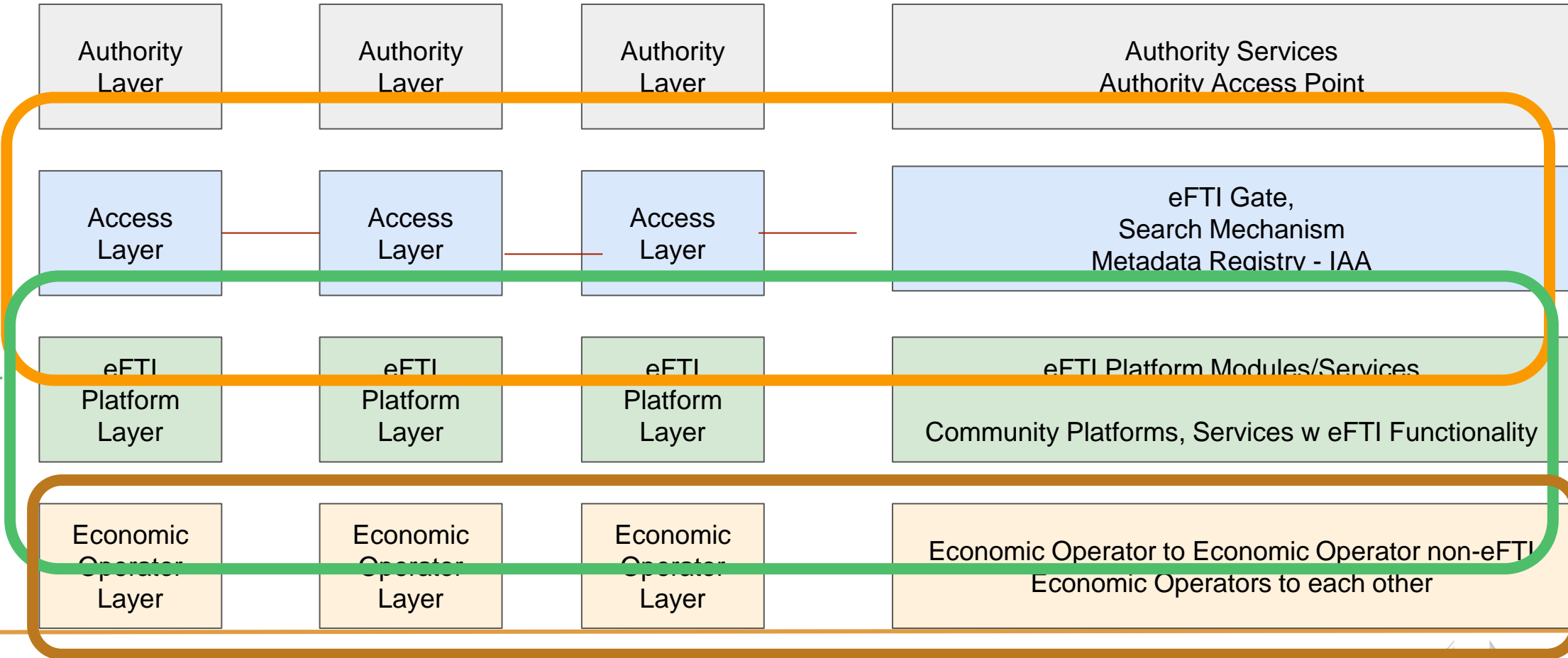


LAYERED & REGULATED

IA on requirements for competent authorities

IA on requirements for eFTI platforms & service providers

Coordinated, somewhat regulated by IA




RULES FOR eFTI Gates and eFTI Platforms



WORK IN PROGRESS

eFTI Technical Implementation Specifications

	Circle SpA Piazza Borgo Pila 40, A/46, 16129 Genoa, Italy www.circletouch.eu
	Digilooistika Keskus OÜ Teaduspargi 6/1, Tallinn, Estonia www.dlk.ee

Contract No.	MOVE/D1/SER/2022-331/S12.882058 (MOVE/2022/OP/0009)
Author(s)	Frank Janssens, Antonio Molinari, Matteo Tebaldi, Ulrika Hurt
Client	DG MOVE 
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Document Name	eFTI Technical Implementation Specifications

Revision History		
Revision	Date	Description / Summary of changes
1.0	28/11/2022	First issue
2.0	12/01/2023	Incorporation of comments from DG MOVE
2.1	08/02/2023	Review and finalization for submission to MSs

Distribution - This Document should be distributed to	
Name	
DG MOVE	

Proposed technical solutions are worked out and further elaborated by the Commission, DTLF and consultant teams for the following among others:

- Components and explanatories of eFTI Architecture
- Requirements and instructions for eFTI Gates, Authority Access Points and eFTI Platforms
- Information exchange within the eFTI environment and between components
- Composition of the Unique Identifiers (UUID)
- Functioning of metadata in the eFTI environment
- Functioning of the search mechanism
- Possible use of eDelivery
- BPMN process flows
- Messages



Technical and Functional Requirements Categories: Design Decision Categories

1 - Functional Structure/Architectural Structure

2 - Data Distribution/sharing and Data Attributes

3 - Data Access/Delivery

4 - Interoperability, Compatibility, Integration

5 - Authentication and Identification of Users

6 - Access Control

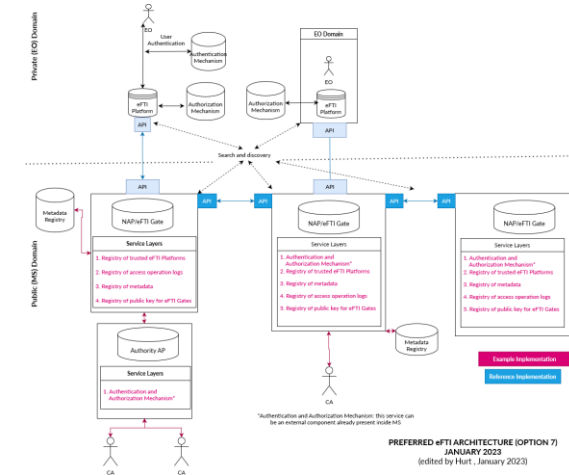
7 - Evidences and Logs

8 - Data Security, Cybersecurity

9 - Data Models, Semantics

10 - General IT aspects

11 - General Non-Functional Aspects



GUIDELINES FOR Gates and Platforms

REQUIREMENTS COMING UP IN GREAT DETAIL

- Rules based upon the fact that PLATFORMS ARE TO BE BUILT IN A TRUSTED WAY to lessen the burden of COLLECTING information to single (government) database for reporting.
- Gates arrange a data request. Platforms hold data and respond when a request is made.
- Rules and requirements for eFTI Platforms: functional and technical to endorse trust.
- Rules based upon the business-centricity.
- Platforms connect Economic Operators and their information systems.

NEXT STEPS FOR THE EU NEIGHBOURHOOD & MIDDLE CORRIDOR

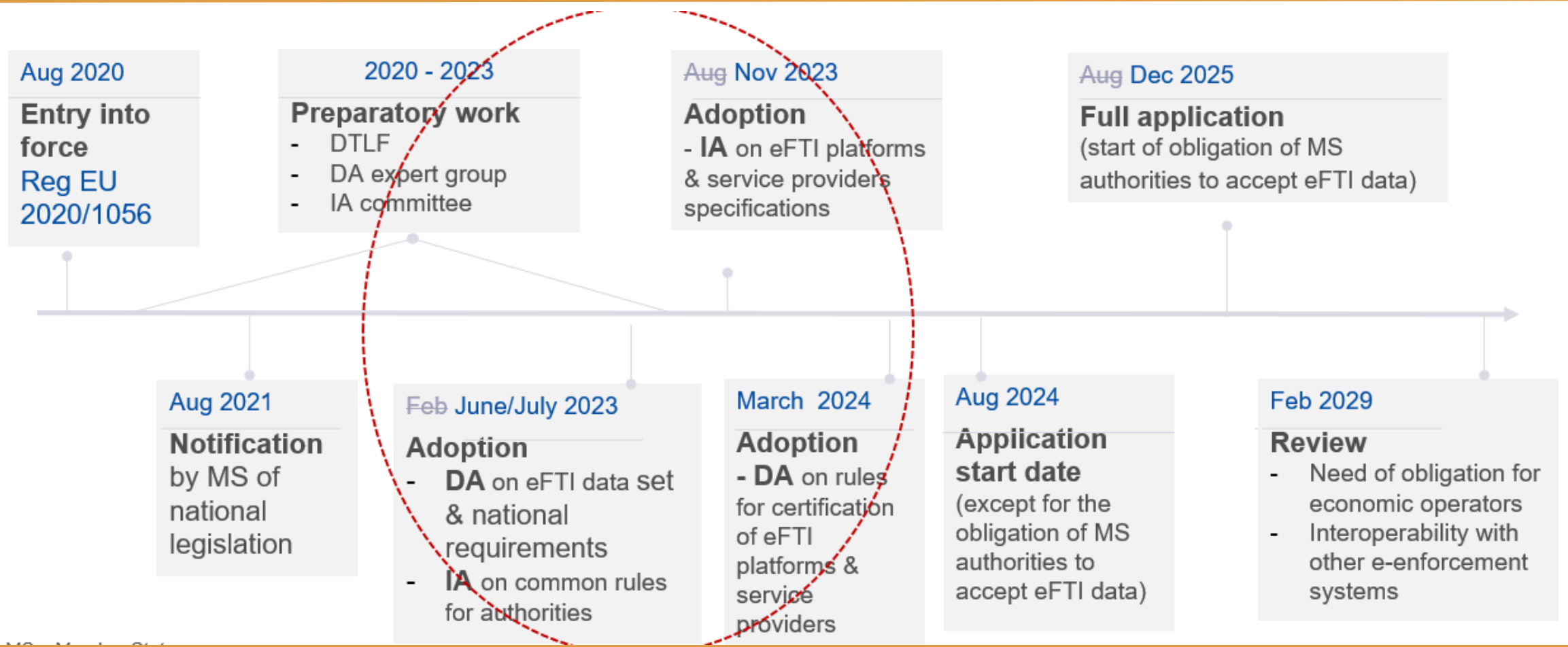
COORDINATED OBSERVATION, ALIGNMENT AND PILOTS

- UNDERSTANDING OF THE SCOPE AND SCALE OF eFTI - GLOBALLY
- ALIGNMENT AND MAPPING OF WHERE ARE THE CROSS-BORDER INTERSECTIONS
- ALIGNMENT AND ALTERNATIVES FOR CROSS-BORDER ARCHITECTURE

- ALIGNMENT OF GLOBAL STREAMS OF STANDARD ALIGNMENT

eFTI Regulation implementation

Indicative timeline (renewed Feb 2023)



THANK YOU



Ulrika Hurt,

ulrika.hurt@gmail.com,

ulrika@dlk.ee

+372 52 14 251

[LinkedIn](#), www.dlk.ee

