



European Shift Enabler Portal for Freight

Webinar on document management
and blockchain technologies
in an intermodal context

2024-02-20



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Agenda

09:30 – 9:35	Welcome	
09:35 – 09:45	Presentation of the ESEP4FREIGHT project	C. Sánchez (EURNEX)
09:45 – 10:00	The digital ecosystem of intermodal transport	E. Feyen (UIRR)
10:00 – 11:10	Presentation of ICT providers in digital document	
	<ul style="list-style-type: none">• d-fine - Marc Henniges and Lisa Löbling• Pionira – Stefan Gevaert – Chief Technical Officer• Docklab – Wout Frijters – Portfolio Owner• TransFollow – Moritz Rössler - International Sales and Integration Consultant	
11:10 – 11:25	Q&A session	
11:25 – 11:30	Conclusions	



ESEP4Freight project presentation

Celestino Sánchez
Project manager
EURNEX



EURNEX, the European rail Research Network of Excellence

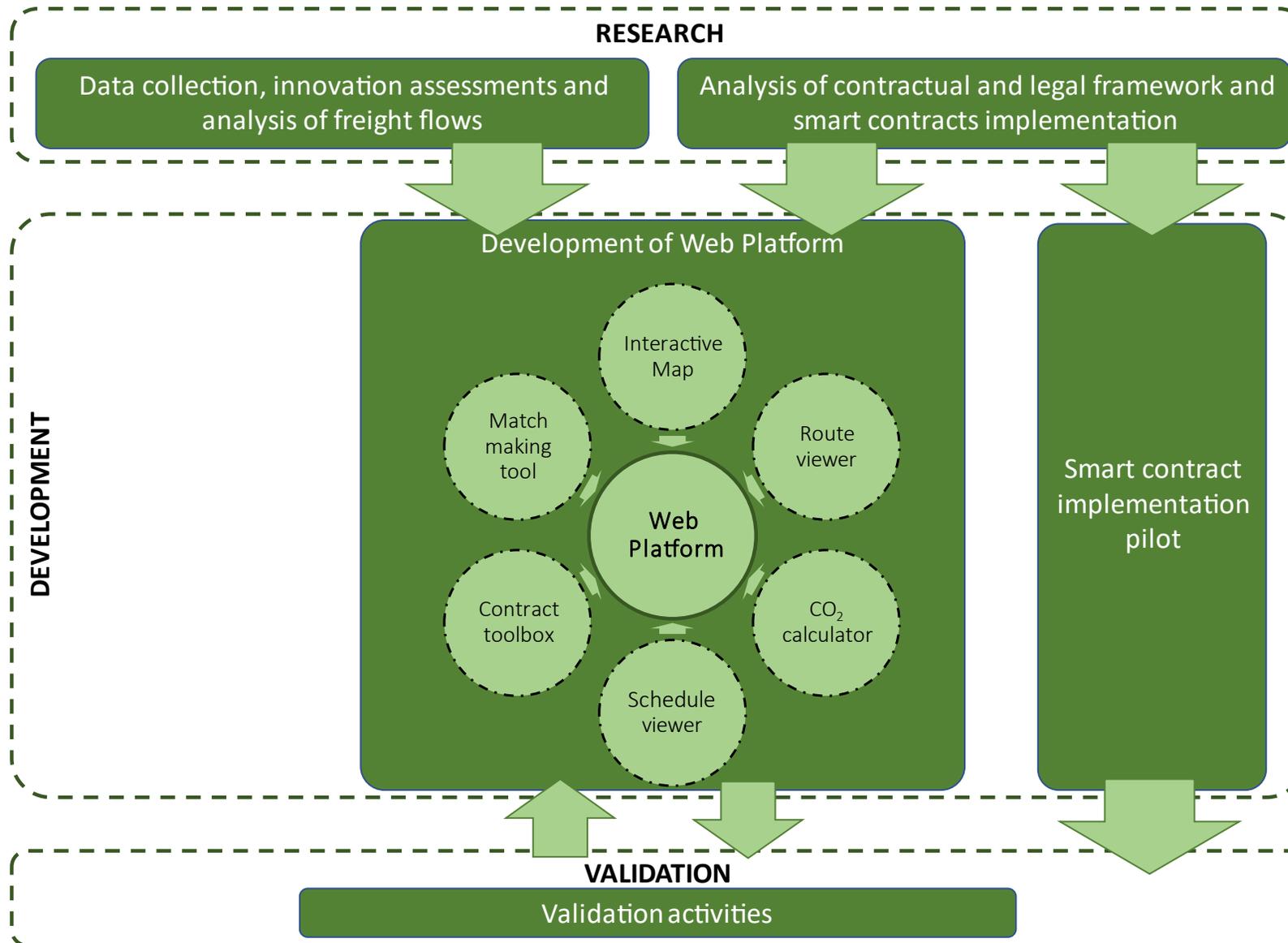
EURNEX



ESEP4Freight **main objectives**

- Bringing together a large number of actors of the European logistics system to identify their information needs
- Creating, integrating and validating a set of web-based information services integrated an open-access web platform
- Proposing recommendations to adapt the current contractual and legal framework in intermodal transport to the needs of the different actors





Static information with update possibilities



Smart contract implementation pilot

- Better understanding of the sector needs based on exploring **e-CMR** and **blockchain** implementation
- Development of specifications and proof-of-concept for an **informative** and a **contractual** layer for facilitating the use of smart contracts
 - An **informative layer** to be serve as specification for the smart contract integration
 - A **contractual layer** with a generalized set of clauses which could be tailored by the users depending on their needs (adding or removing items to the contract)



The digital ecosystem of intermodal transport

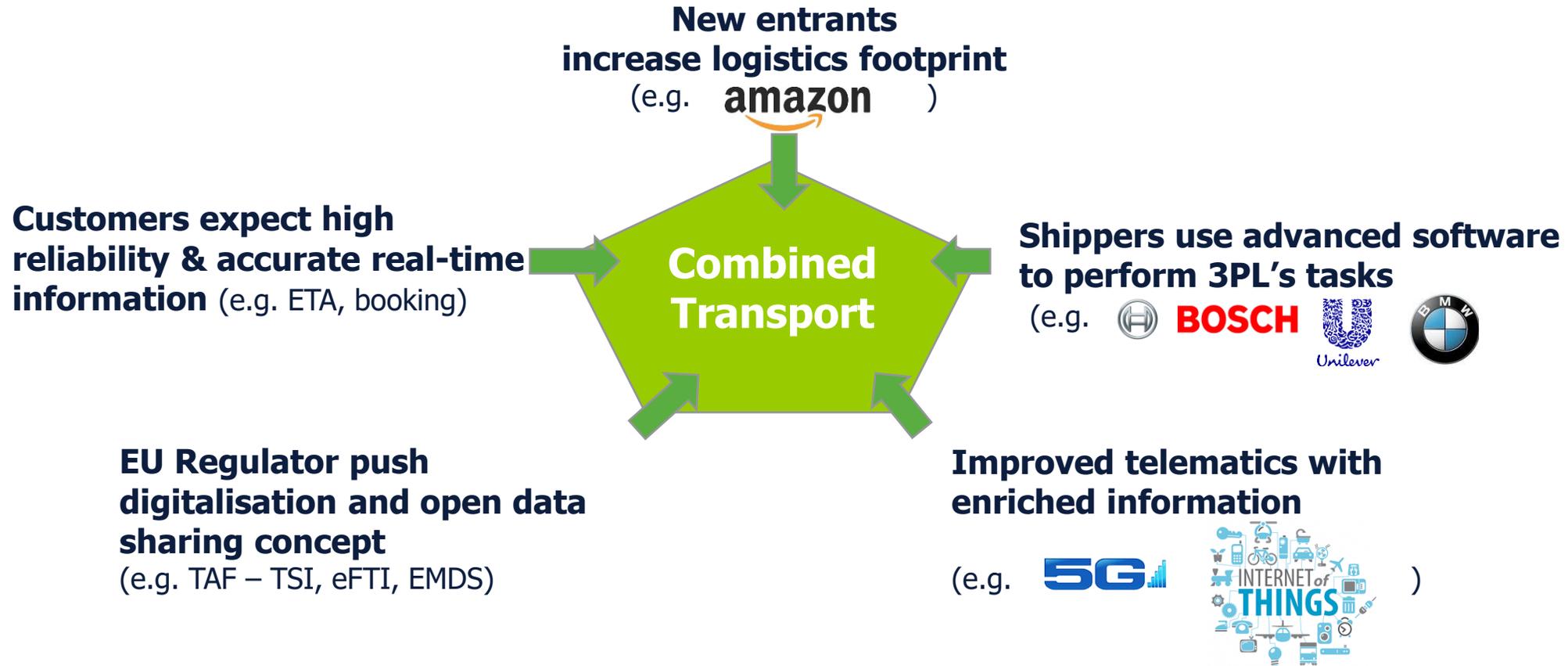
E. Feyen
Technical Director
UIRR



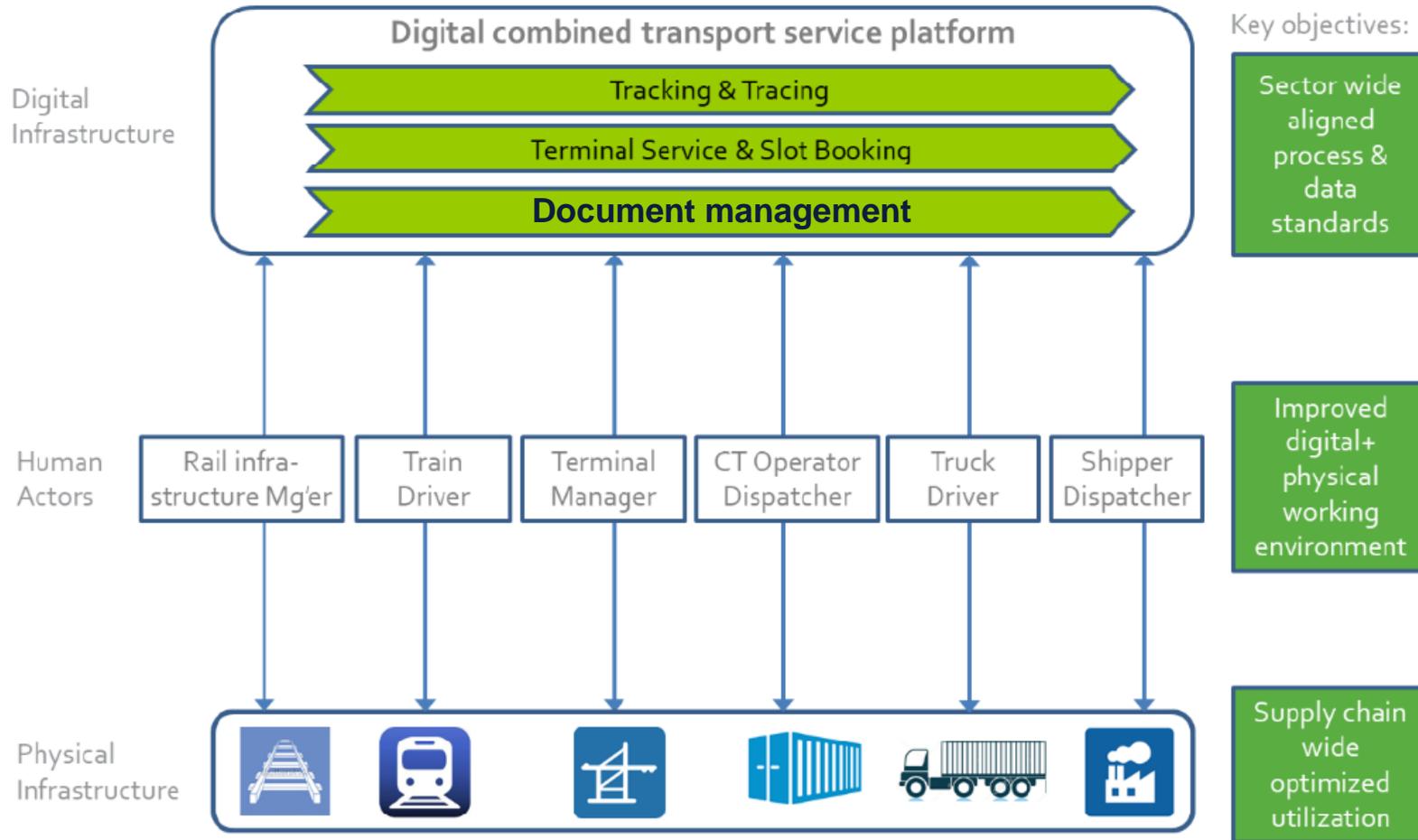
The galaxy of UIRR as the Industry Association for Combined Transport



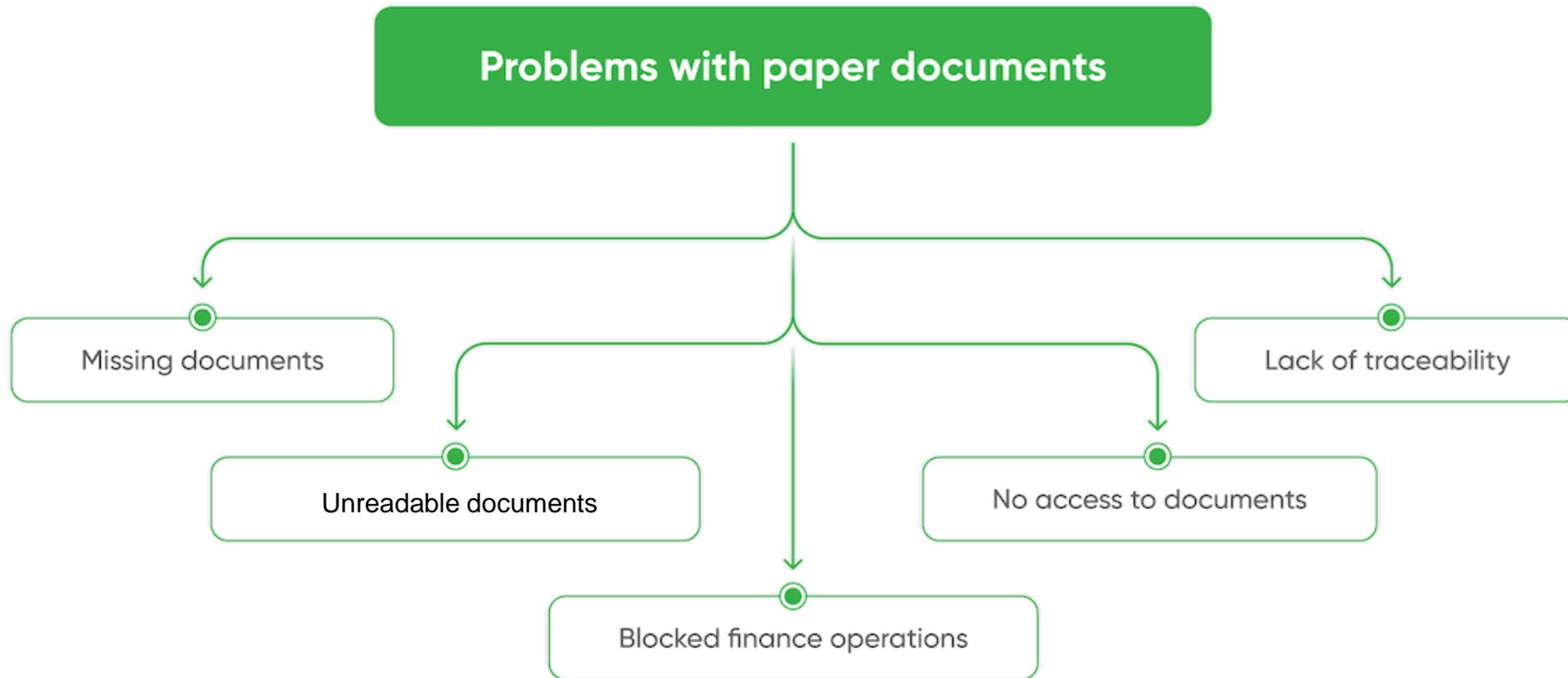
Combined Transport: the key drivers for its digital transformation



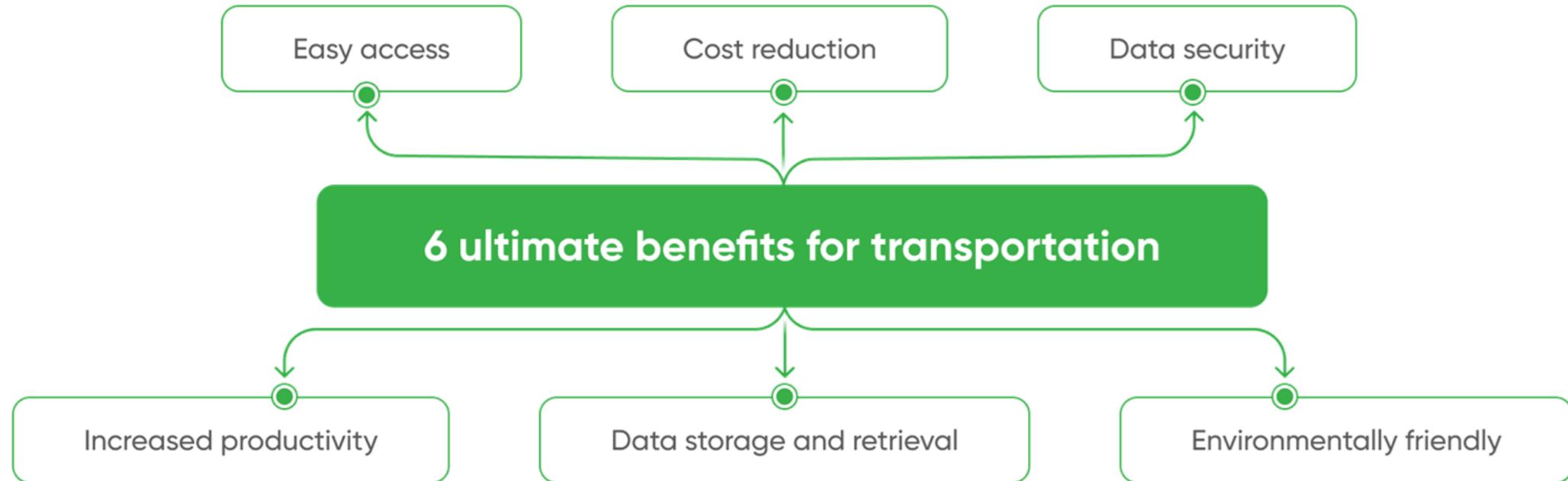
Combined Transport: an enhanced digital vision



Document Management: **problems with paper documents**



Digitalisation of documents: **benefits for the stakeholders**



Intermodal Transport Document: **challenges & solutions**

- 1. Lack of standardization:** Each transport mode such as road and rail may have its own set of documentation requirements and formats (CMR, CIM).
 - 2. Complex documentation process:** intermodal transport requires the inclusion of various details, such as the description of goods, their quantity, weight, and dimensions, as well as information about the shipper, consignee, and carrier.
 - 3. Information sharing & communication:** effective information sharing and communication between all parties in the intermodal transport is crucial for a smooth implementation.
 - 4. Technology integration:** the implementation of a true intermodal transport document requires the integration of technology systems across different transport modes.
1. Authorities should work towards establishing **common standards and formats** for intermodal transport documents (eFTI Regulation, EU Waste Regulation)
 2. Embracing digital solutions and automation can significantly simplify the documentation process. For example, using **electronic data interchange (EDI) systems, blockchain technology, or cloud-based platforms** can enhance data accuracy, reduce paperwork, and enable real-time information sharing.



Presentation of ICT providers in digital document





Stefan Gevaert
Chief Technical Officer



TransFollow®

Moritz Rössler
International Sales and Integration Consultant



Wout Frijters
Portfolio Owner



Marc Henniges and Lisa Löbling



Q&A session



