



The Global Language of Business

Trade Facilitation – Driven by Global Data Standards

Cross border procedures in the Physical Internet

Jaco Voorspuij, Sr. manager Transport & Logistics, GS1
9 July 2019, International Physical Internet Conference

What will I talk about?



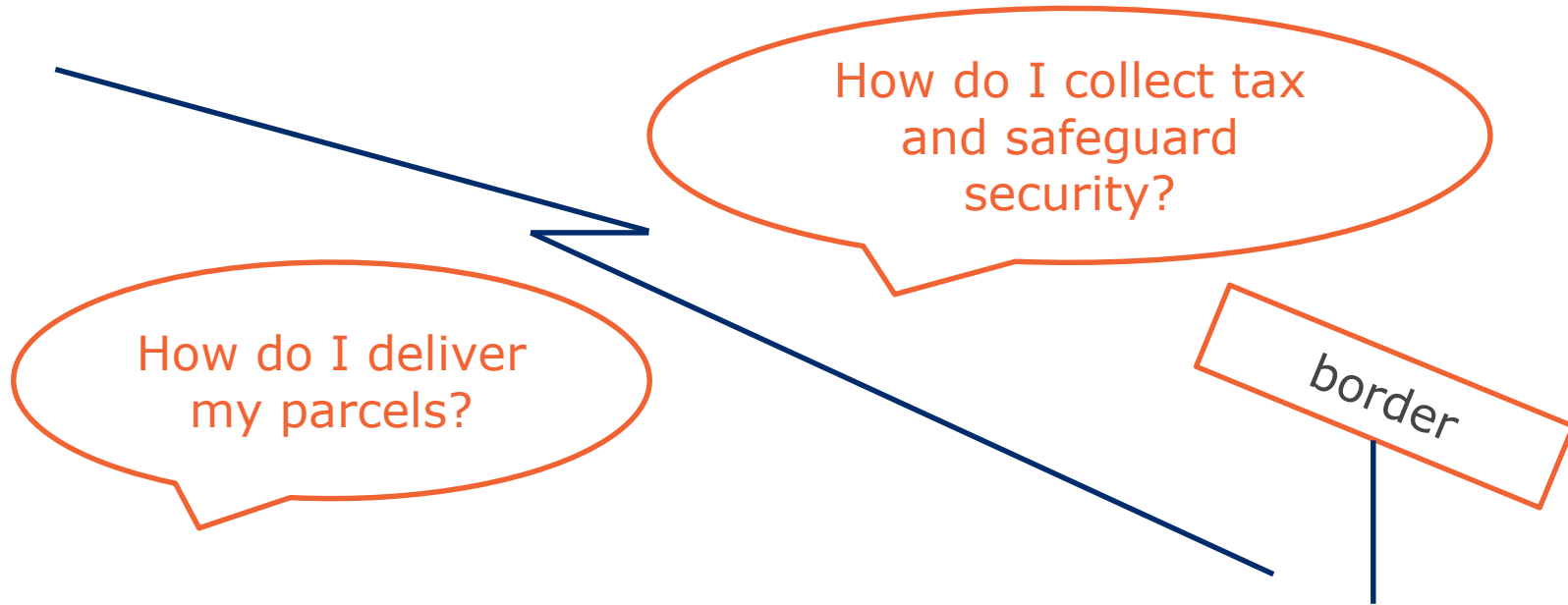
- Trade flows encounter ever increasing regulation for cross border flows
- These regulations come with a risk of delays at border crossing
- Physical Internet assumes reliable / predictable flow of Cargo and Data
- Global Data Standards are here to achieve this

Why May, Trump and Tusk look at Global Data Standards

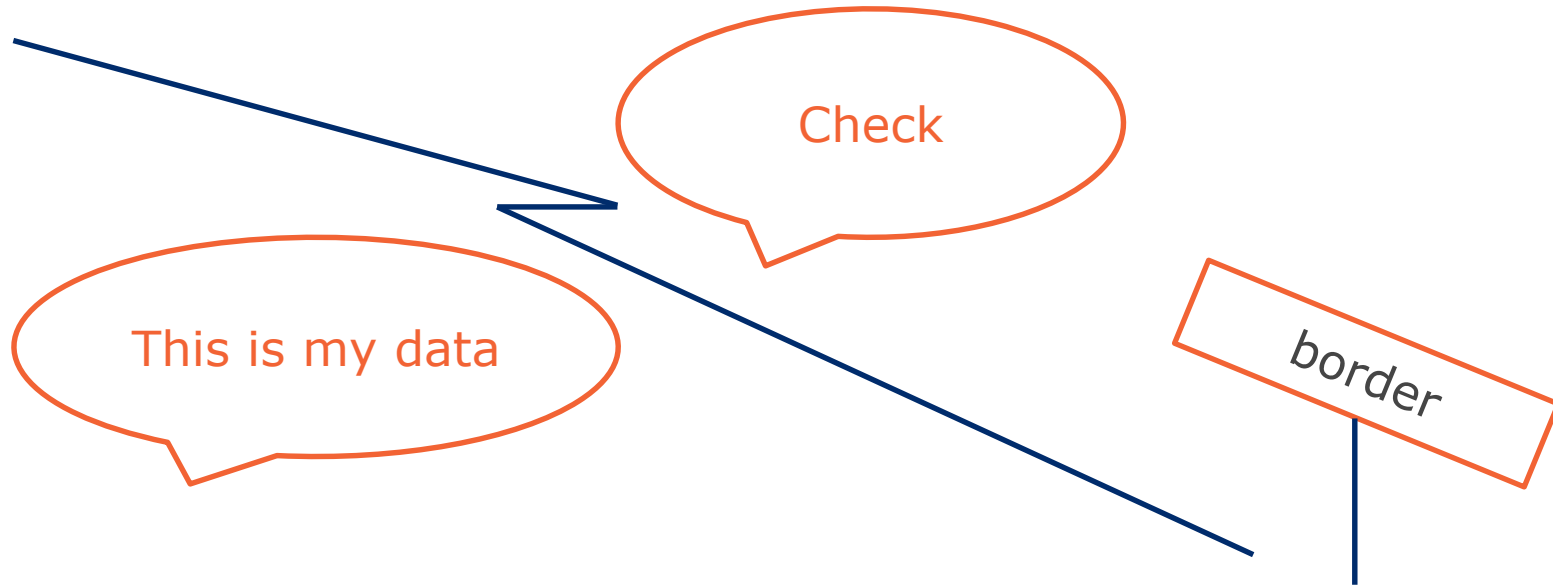


Solve new challenges in cross border logistics

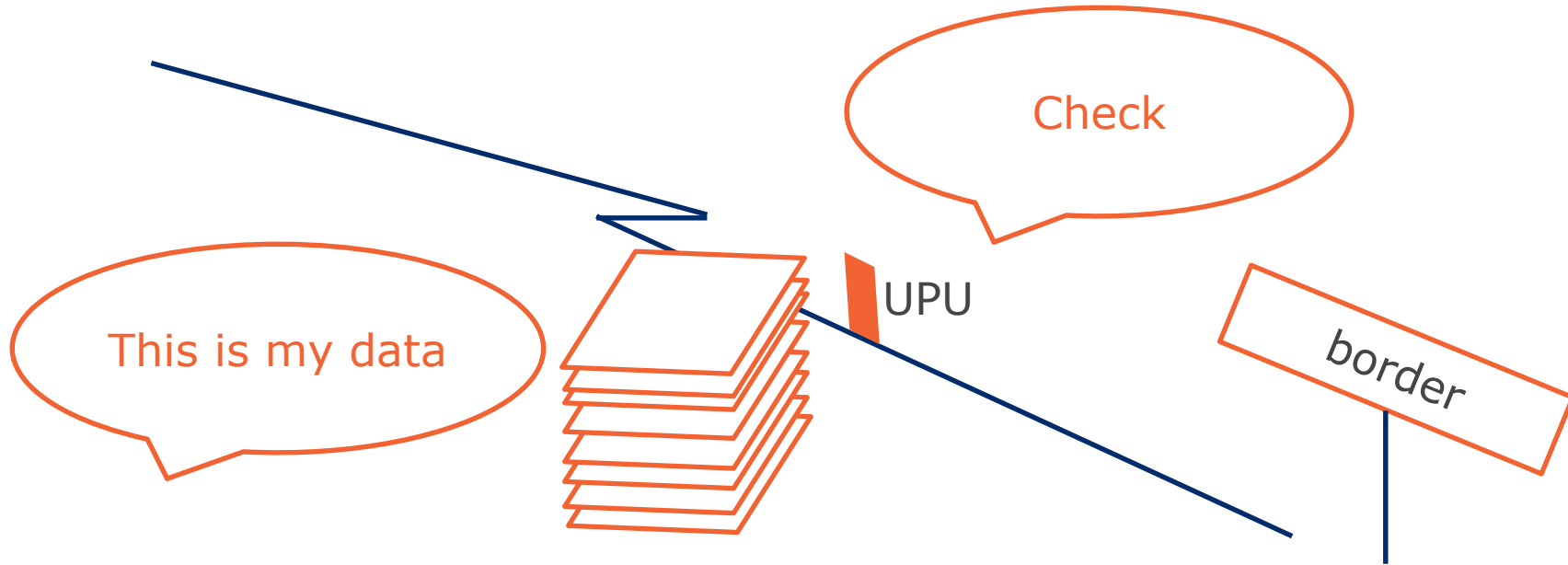
Global trade



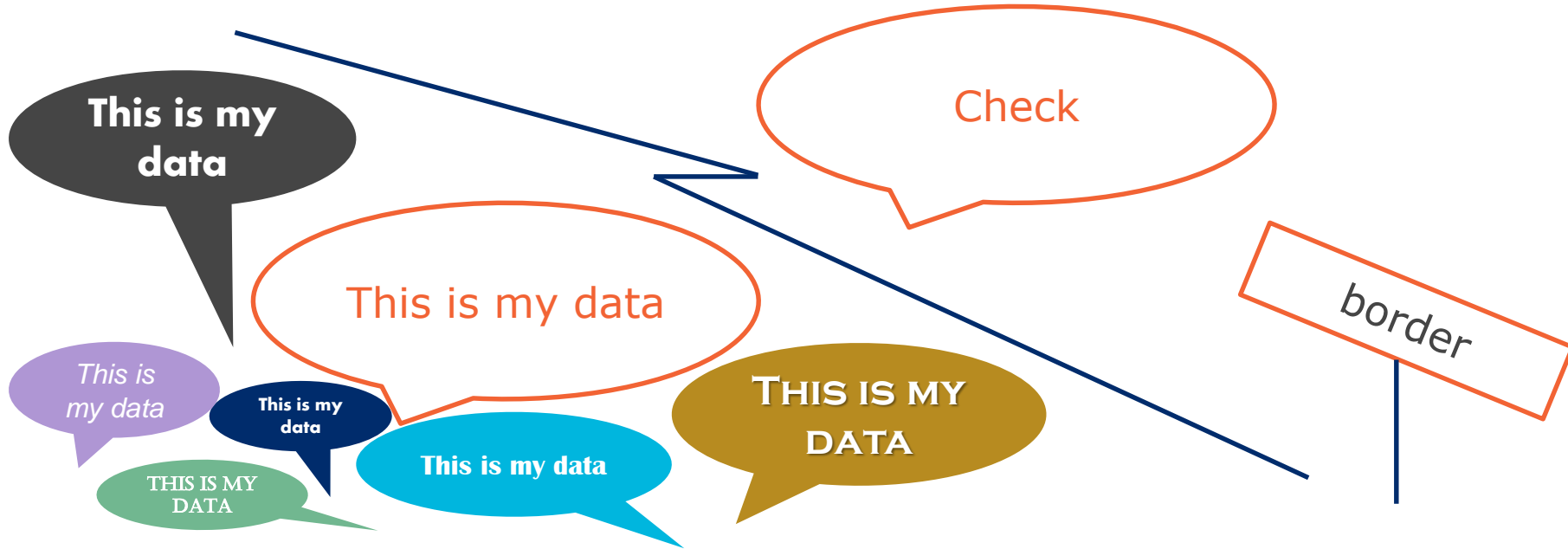
Global data standards



The UPU/WCO provides standards for some



We need Global Data Standards for **ALL**

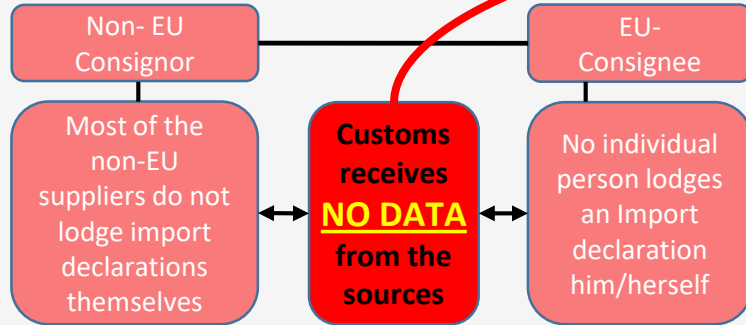


EU parcel standardisation – including cross-border VAT collection



Based on ONE unique item identifier, customs, transport and inland revenue aim at electronic advanced data to know what is in the shipment, its value and related lifecycle management

Status Quo



The results

NAME	PRICE
1. [illegible]	17.42
2. [illegible]	23.99
3. [illegible]	12.97
4. [illegible]	18.24
5. [illegible]	15.12
6. [illegible]	13.19
7. [illegible]	14.19
8. [illegible]	29.95
9. [illegible]	9.98
10. [illegible]	13.19
11. [illegible]	13.19
12. [illegible]	13.19
13. [illegible]	13.19
14. [illegible]	13.19
15. [illegible]	13.19
16. [illegible]	13.19
17. [illegible]	13.19
18. [illegible]	13.19
19. [illegible]	13.19
20. [illegible]	13.19
21. [illegible]	13.19
22. [illegible]	13.19
23. [illegible]	13.19
24. [illegible]	13.19
25. [illegible]	13.19
26. [illegible]	13.19
27. [illegible]	13.19

Declarations shall be lodged by representatives

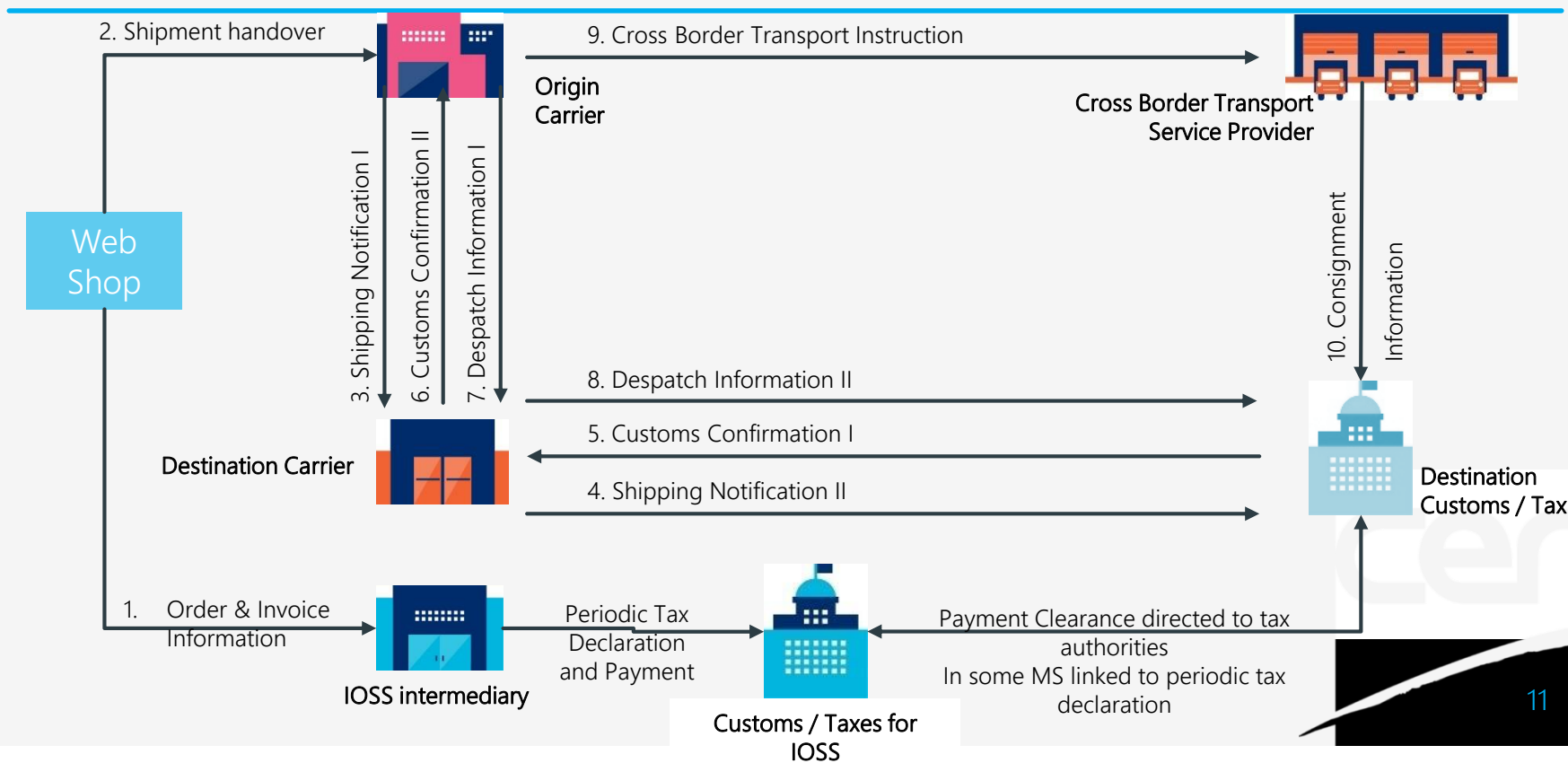
- Guarantee paid to Customs to cover taxes (incl. VAT)
- Taxes are paid in advance on the import declaration
- Consignee pays taxes to representative after the import



Created and attached by SHIPPER at origin



Label design according CEN/TS 17073



-
- ▶ ISO/IEC 15459-1:2014 specifies a unique string of characters for the identification of individual transport units.

The character string is intended to be represented in a bar code label or other AIDC media attached to the entity to meet management needs.

<https://www.iso.org/standard/54779.html>

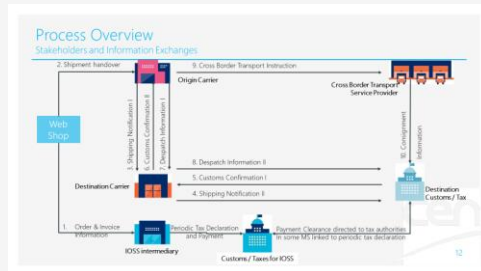
- ▶ ISO/IEC 15459-6:2014 specifies a unique string of characters for the identification of groupings of products, product packages, transport units and items.

The character string is intended to be represented in a linear bar code symbol and two-dimensional symbol or other automatic identification and data capture (AIDC) media attached to the entity to meet management needs and/or regulatory needs (e.g. customs clearance).

<https://www.iso.org/standard/54786.html>

Sales Order		GSIN-123456		Seller ID	Buyer ID
Quantity ordered	Goods	Price	Tax Type / Tariff	Tax Amount	Total
1	GTIN-123	5.00	VAT-High	1.00	6.00
1	GTIN-321	6.00	VAT-Low	0.60	6.60
3	GTIN-213	10.00	VAT-High	2.00	36.00
1	GTIN 312	8.00	VAT-High	1.60	9.60
Delivery Option - XYZ		Transport & Shipping			15.00
		TOTAL ORDER CHARGE			73.20

Sales Order / Transport Grouping	GSIN-123456	Ship From	Deliver To
Transport Unit (ISO 15459-1)		Goods Item	
SSCC-1		GTIN-123	
SSCC-1		GTIN-321	
SSCC-2		GTIN-213	
SSCC-1		GTIN 312	



cen

Seller to IOSS / Declaration to Export Authorities

Sales Order		GSIN-123456		Seller ID	Buyer ID
Quantity ordered	Goods	Price	Tax Type / Tariff	Tax Amount	Total
1	GTIN-123	5.00	VAT-High	1.00	6.00
1	GTIN-321	6.00	VAT-Low	0.60	6.60
3	GTIN-213	10.00	VAT-High	2.00	36.00
1	GTIN 312	8.00	VAT-High	1.60	9.60
Delivery Option - XYZ		Transport & Shipping			15.00
		TOTAL ORDER CHARGE			73.20



Sales Order / Transport Grouping		GSIN-123456	Ship From	Deliver To
Transport Unit (ISO 15459-1)		Goods Item		
SSCC-1		GTIN-123		
	GTIN-321		SSCC-1	
	SSCC-2		GTIN-213	
	SSCC-1		GTIN 312	



IOSS number Webshop

Carrier Info to Destination

Sales Order / Transport Grouping	GSIN-123456	Ship From	Deliver To
Transport Unit (ISO 15459-1)		Goods Item	
SSCC-1		GTIN-123	
	GTIN-321	SSCC-1	
	SSCC-2		GTIN-213
	SSCC-1	GTIN 312	



Transport Grouping	GSIN-123456	Carrier Transport ID	CARRIER-0192387456
Transport Unit - SHIPPER		CARRIER Transport Unit	
SSCC-1		S10-5432	
SSCC-2		S10-1023	



IOSS number Webshop

cen

-
- ▶ All stakeholders may use Seller/Shipper assigned unambiguous Identification Keys based on open Global Data Standards
 - ▶ Clear links are established among all these numbers
 - ▶ Information on Goods Content for each Transport Unit may be accessed using the unambiguous ID Keys provided in the Electronic Advance Data Exchanges

Data-Element	ID-Key	Comment
2/3 Unique Item Identifier*	ISO 15459-1	SELLER assigned Transport Unit ID
2/4 <u>COMMERCIAL</u> reference number	ISO 15459-6	SELLER assigned Transaction ID
3/40 Additional Fiscal IDs	IOSS ID	Uniquely identifies SELLER

*There must be a unique identifier throughout all necessary declarations

Conclusion



- Physical Internet builds on top of Transport Units that are identified and routed individually
- Cross border processes thrive on individually identified Transport Units

**Physical Internet is
perfect solution for Cross Border Challenges.**

Questions & Discussions



In case you would like to know more

Agata Horzela, project lead Last mile delivery, GS1 in Europe
Jaco Voorspuij, sr. manager Transport & Logistics, Global Office

Agata.Horzela@gs1pl.org
jaco.voorspuij@gs1.org

