

# Challenges in customs processing



**Exporter** 

Countless regulations and documents to consider

- Great manual effort
- Lots of paper documents

 Slow or incomplete data exchange



- Lots of paper documents
- Risk of incomplete data sets

Risk of incorrect declaration



 Slow or incomplete data exchange



Great manual effort



No shared truth on process progress



**Customs** 

Customs world is always evolving

- Countless regulations and documents
- Responsibility for complex risk assessments

 Service portfolio must be maintained up-to-date



- Combined challenge of changing regulations and evolving technology
- Scarce resources

### Potential of blockchain-based solutions in customs



**Exporter** 

Less time & effort for preparation and clearance of exports

Simplified & consistent data exchange

 Automatic data provision and reduced effort



Simplified, automated collaboration

Less paper clutter





Simplified & consistent data exchange

## **Open Customs Blockchain**



Customs

- Reliable, truthful & up-to-date source of information
- Enables real-time & retrospective audits, controls, risk assessment





Open source software



Customs/IT Service Provider

# Open Customs Blockchain - Concept

### **Vision**

Development and creation of a Europeanmade, **open source** blockchain solution and transition into **a blockchain network** 

#### **Goals:**

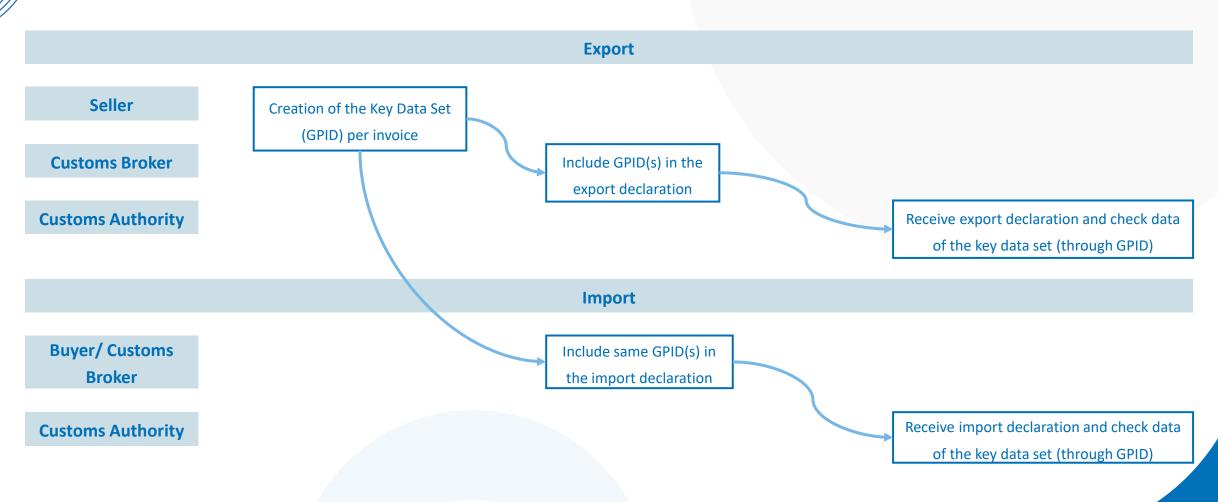
- Simplify data exchange in Supply Chains
- Increase transparency
- Speed up border processes, decrease transit times and physical inspections
- Increase the sustainability in international trade

### Pilot project: Goods passport ID

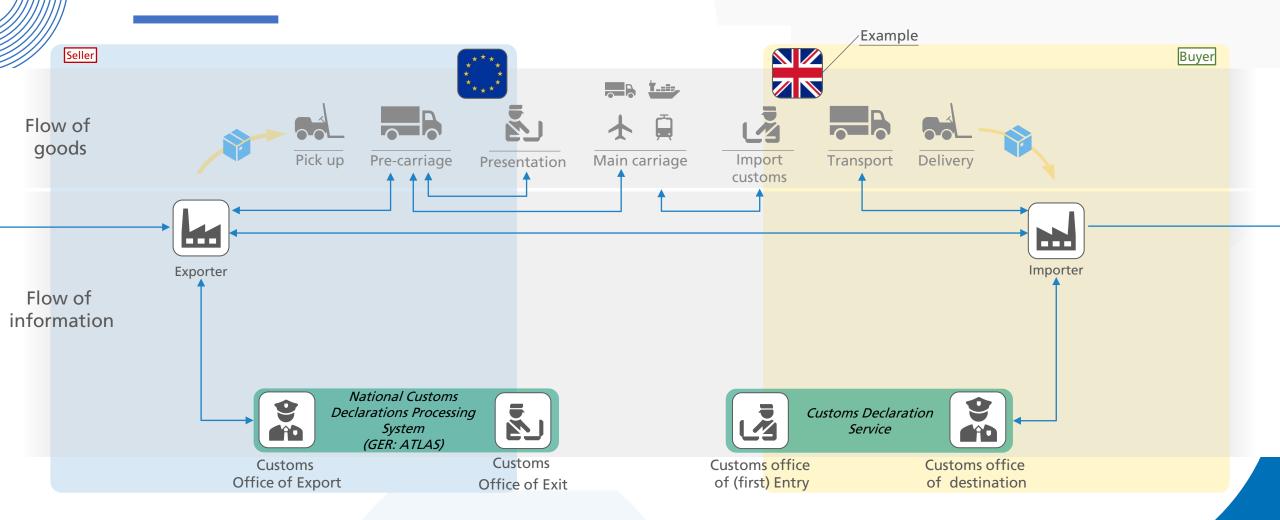
Focus on blockchain-validated key data set as a trustworthy base for all steps in the process

- Contains data that is used recurrently in most customs processes
  - Seller information
  - Buyer information
  - Invoice information
  - Goods information
- Based on the actual invoice
- Creation early in the customs process

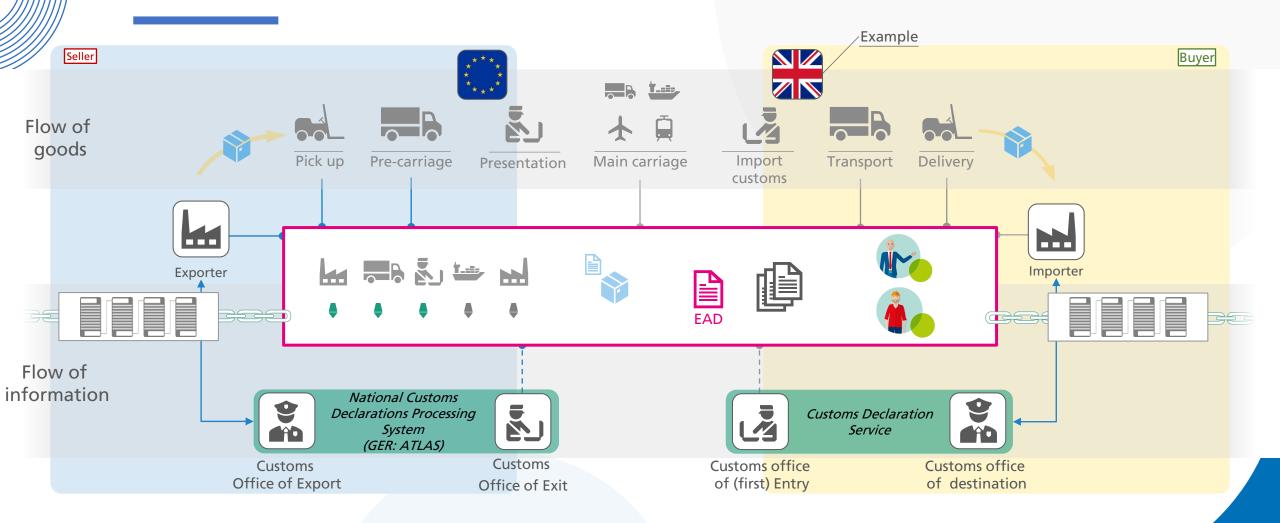
# Open Customs Blockchain – Process model Goods Passport ID (GPID)



## BORDER - EAD on Blockchain



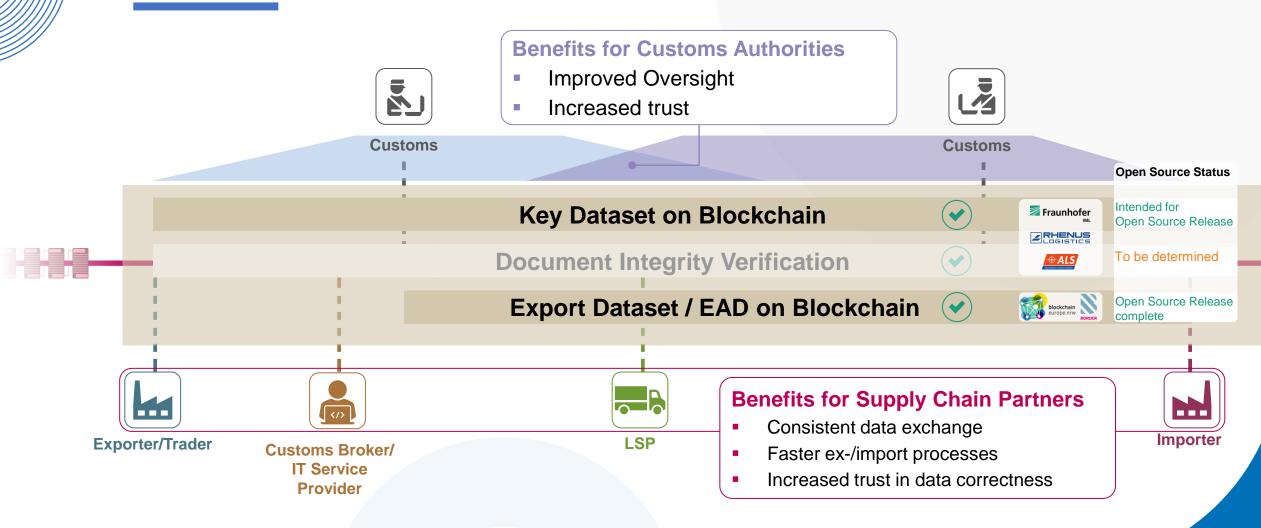
## BORDER - EAD on Blockchain





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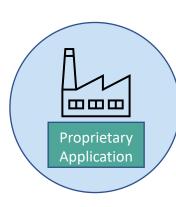


# Planned concept of the PoC-Blockchain Network OCB-Frontend **Open Customs Blockchain Application Proprietary Application** Blockchain Management **Proprietary Application** Full Node Full Node Full Node Blockchain Network Open Logistics Foundation · April 2023

## Ways to participate

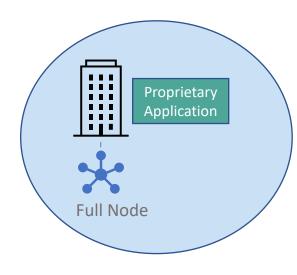


Economic Operator Participation in the use case only

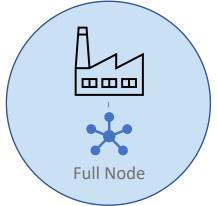


Economic Operator with own proprietary application Participation in the use case and connection to the blockchain





Economic Operator with proprietary solution and knot hosting
Participation in the use case and blockchain



Node Hosting Party
No further participation in
the customs use case



# Working Group Open Customs Blockchain



- Goal: Improved integration and interconnection of digital customs procedures and data exchange
- Open Customs Blockchain
  - BORDER Export Data on Blockchain based on EAD
  - GPID Simple dataset to speed up cross-border data exchange

### Working Group Lead



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Logos arranged in order of membership signing