

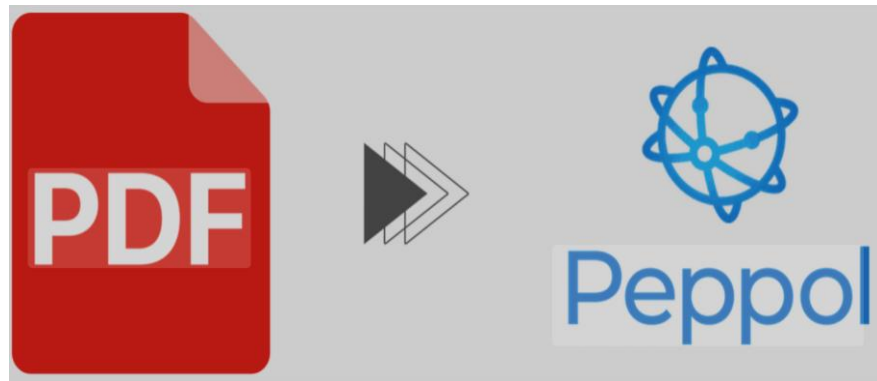
# How Peppol automates data exchange?



THTH webinar 20<sup>th</sup> of May 2025  
Tomi Dahlberg

# 1. Exchange of digital data is needed to drive economic growth, productivity increase and to solve our global challenges

- Reduce costs and data errors created by manual and manual-like data exchange
- Speed up and Improve the productivity of supply-chain processes from planning to reporting by re-using digital data
- Analyze data with algorithms and AI, manage with data
- Facilitate digital twins
- Respond to the challenges of regulative reporting



**Logistics and data processing add-on costs are 12 % on top of goods value in Finland. 50 % reduction to processing costs is achievable.**



# The estimated benefits of data exchange with Peppol are 2-3% increase in operating result and 10 % increase potential in productivity

- 5,5 mrd € + 4,4 mrd € annual costs savings potential by reducing low-productive work = 2-3 % operating result improvement
- 10 % increase potential in productivity by improving the reliability and clock-speed of deliveries and by better managing supply-chain process changes
- Legacy IT/IS generate more value fueled by automatic data exchange, and lower integration costs resulting from the use of open network and standardized messages with solid governance

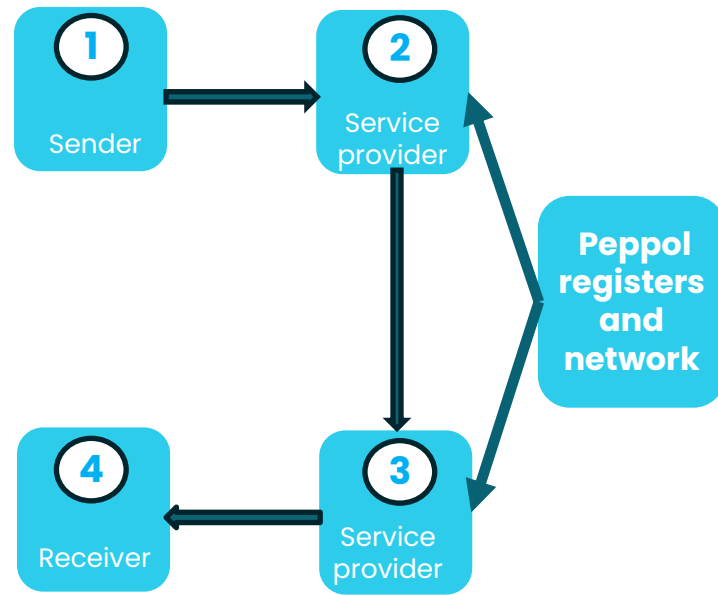


## Prior Developments Created A Solid Basis for the Next Step – OpenPeppol Network with Standard Messages

- **Limited further costs savings and productivity increases possible with further internal integration as compared to data exchange between enterprises – which is also the next step of internal automation with ERP, MAS, CRM,...**
- **Experiences from point-to-point Edifact messaging, integration platforms and proprietary purchase portals, eBusiness suits,... pave the way for Peppol – increase their value**

## 2. Peppol is an international network used by companies and public organisations to execute fast, efficient, borderless trade

- **Buyers and sellers securely exchange standardised machine-readable electronic business documents between their information systems**
- **Each company is connected to the Peppol network through a Peppol service provider – consider this a making a telephone call or an electronic invoice**
- **Based on eDelivery & AS/4 supported by the EU commission and UBL (aka ISO/IEC 19845) data model**





# These Peppol Post Order Messages Support Data Interoperability and Re-Use

Catalogue

Punch Out

Order Contract

Order

Order Response (confirmation, change)

Order change

Order cancellation

Despatch advice

Message Response

Advanced despatch advice

Weight statement

Transport execution request

Transport execution plan

Waybill (multimodal)

Transport status request and response

Transport receipt advice

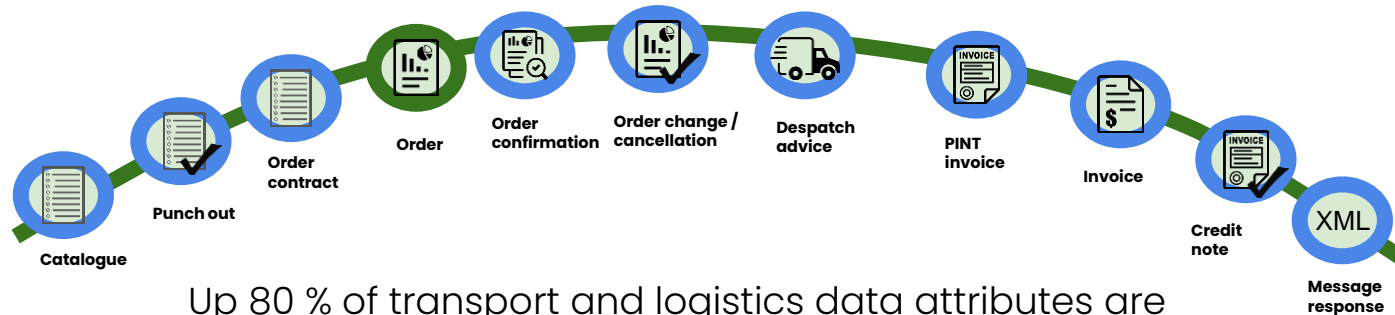
Invoice

International invoice (PINT)

Credit note

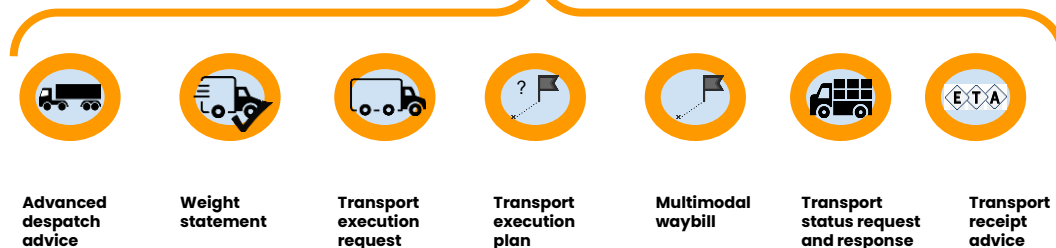
# Linking Peppol Procurement & Logistics Messages to the Re-Use of Them in Analyses and Reporting

Peppol Post-Award Messages



Up 80 % of transport and logistics data attributes are also order to pay data attributes

Peppol Logistics and transport Messages; a Sub-Domain of Post-Award messages



Re-use of (Peppol) data

Financial reporting (P/L)

Tax Reporting ViDA included

Waste and eFTI reporting

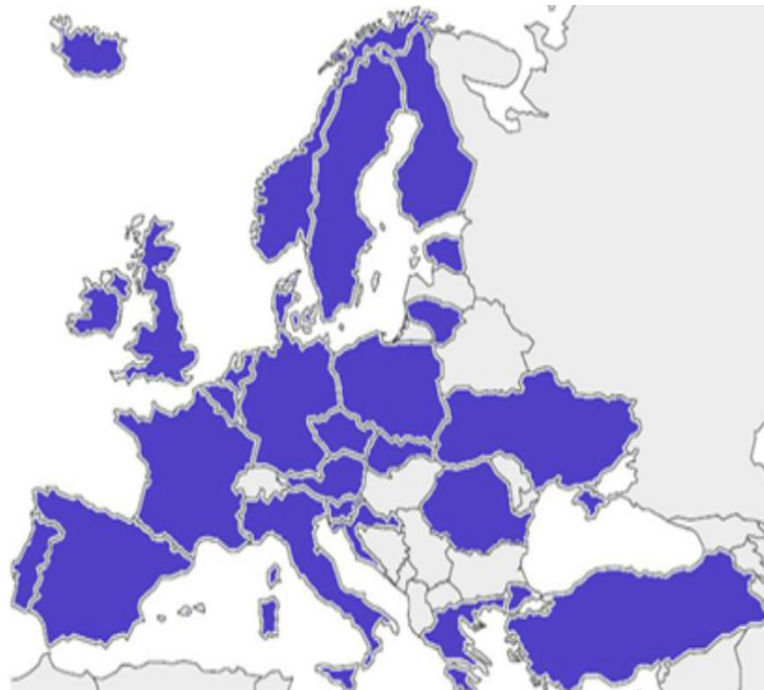
Sustainability reporting, CSRD, CO2,...

Product data, DPP, digital twins

Life-cycle assessment

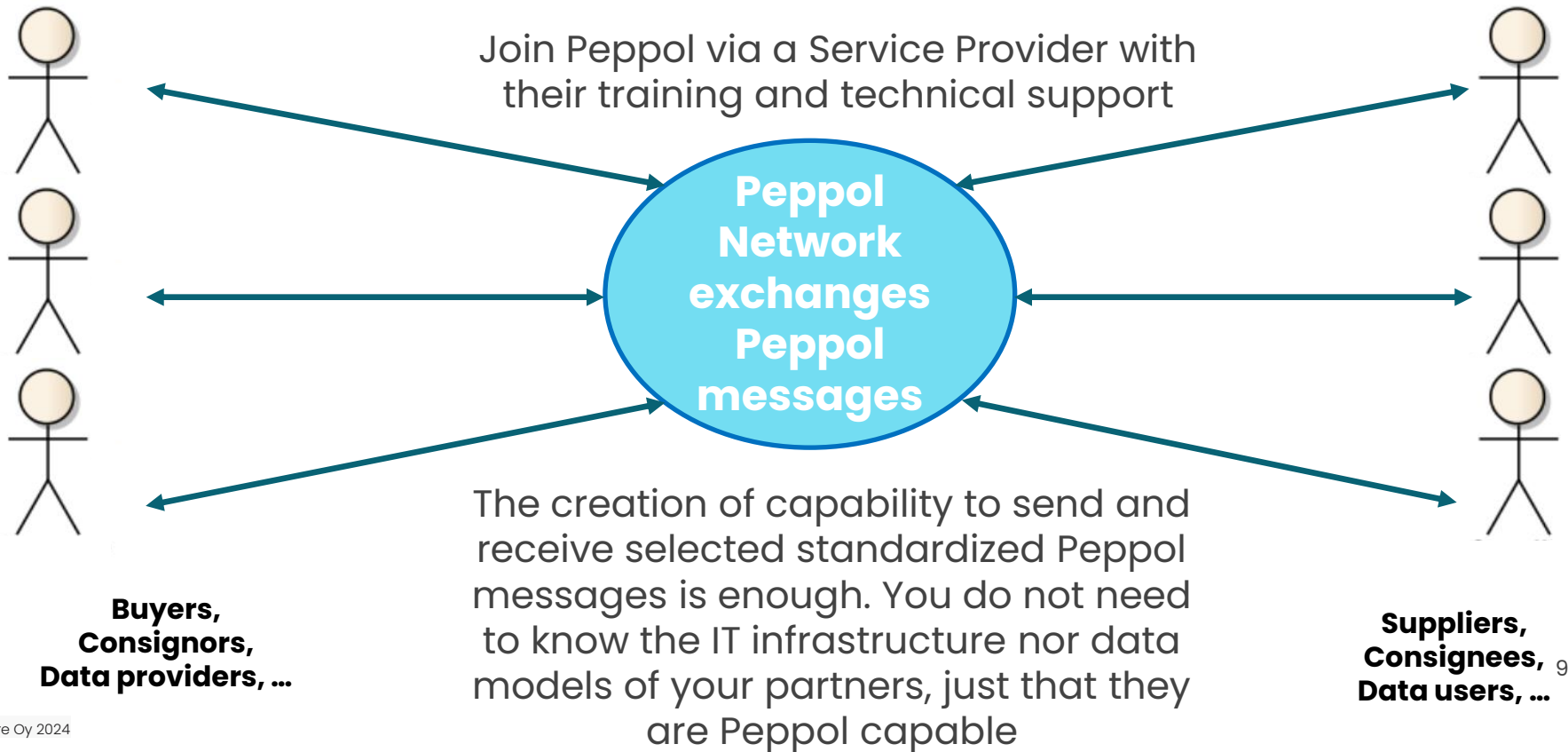
### 3. What Makes Peppol Unique In Addition to Data Interoperability and Re-Use?

- **Global network, support to international tax practices**
- **Validated standardized messages exchanged in an open network, with bi-annual updates of messages and technology**
- **Free-of-charge documentation: Business interoperability specifications, messages, code lists, example cases, schematron**
- **Governance model, managed change**





# Integration easier with lower costs: Integrate once to exchange messages with all





## **Peppol Supports the Exchange of Product Data (DPP, BIM,..) and ESG data**

- **Product / document identification with the related data carrier (e.g. QR-code) included in the data elements of a Peppol message or**
- **Product / ESG data is attached to a UBL-Peppol message (UBL 2.4->)**
- **Storing of Message Data (WEB 3.0) supports data re-use**

## **OpenPeppol, an international not-for-profit association**

Registered into Brussels, Statutes accepted by OpenPeppol Members

## **Member categories – each with a management committee and regular meetings open to all members of a user group**

### **Peppol authorities**

Rights and obligations defined in standard **Peppol Authority Agreement**

### **Certified Peppol service providers**

Rights and obligations defined in standard **Service Provider Agreement**

Admission procedure includes financial requirements and technical testing with acceptance

### **End Users**

# Peppol Governance model continues

## **General assembly, general secretary, management committee and operative office, projects**

General assembly – Typically annually, all members allowed to participate

General secretary – selected by the general assembly based on submitted applications

Management committee (4-10 people) – chairs of the user group and domain specific committees selected by the members of each user group or domain based on submitted applications

Operative office

Projects, e.g. The logistics incubation project in 2022-2023, Peppol international (PINT) in 2022-2024, Service level messaging project in 2024-2025

# Peppol Governance model still continues

## **User group and domain specific committees with change advisory boards (CAB)**

Peppol authority, Peppol service provider and end-user community committees

E-delivery, Pre-Award, Post-Award with Logistics sub-committee and CTC domain specific community committees

Membership in the e-Delivery committee mandatory to all OpenPeppol members

Responsible for the maintenance of the Peppol message specifications and the Peppol network specifications based on CAB accepted requests for changes and results and/or projects

Changes announced twice a year in May and in November

## Peppol Interoperability Framework

### Peppol Governance Framework

Peppol Authority Agreement

Service Provider Agreement

Policies for Use of the Peppol Network  
(Internal Regulations Part II)

Domain Specific Requirements

List of Applicable Specifications

Service Level Requirements

Operational Procedures for  
Use of the Peppol Network

Peppol Authority-specific Requirements

### Peppol Architectural Framework

Peppol message specifications

Peppol Business Interoperability  
Specifications (Peppol BIS)

PA-governed specifications

Peppol Network specifications

Packaging and Security

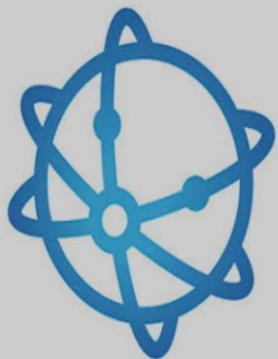
Messaging

Capability Lookup and Addressing



Peppol

The future is open



Peppol

Access Point

CERTIFIED PROVIDER

**It is time to take the  
next step**

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