



***"Directing the Digital Supply Chain: Digital Ecosystems & Compliance"***

# **Welcome**

## **Directing the Digital Supply Chain: Digital Ecosystems & Compliance**

# Panel discussion

01

# Why is the supply chain changing?

02

# From ambition to reality

03

# The practical experience

04

# Directing the digital supply chain

05

# Compliance and future proofing

06

# Final round

# BE SMART, GET CONNECTED



## Data sharing in the manufacturing industry

09-2026

Nice to meet you

## Introduction



**John Blankendaal**

Bestuurder



**Adriaan van Kalkeren**

Program Director a.i.



**Lynn Moonen**

Community Manager

# Market standard for digital business in the manufacturing industry

## ► Agenda

- SCSN: Who, Why, What
- Status: Participants, growth, roadmap & releases



BE SMART, GET CONNECTED



## SCSN

- Who
- Why
- What

## SCSN – The organisation



### Smart Connected Supplier Network

- Developed from a field lab initiative into the independent non-profit organisation Smart Connected Supplier Network (SCSN) in 2018.
- SCSN as the trusted framework for the “Connected” Smart Industry?
- A long-term strategy for an agile, quick responding, and future-proof manufacturing industry.

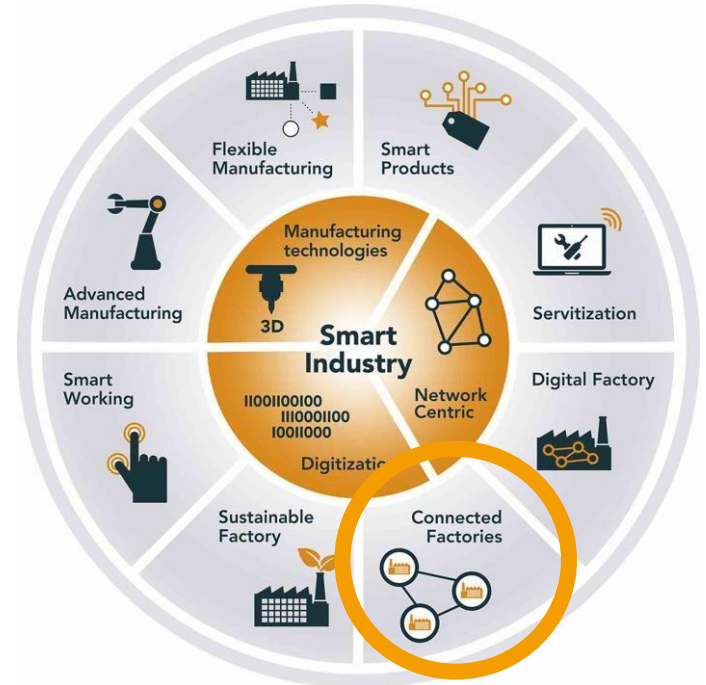
**Why: a solution to challenges** such as excessive manual work, risk of errors, inefficiencies, long lead times, and the lack of market standards, common definitions, and technical communication infrastructure.



# CONNECTED FACTORIES

## Data sharing in the manufacturing industry

- Safe and secure data sharing in the manufacturing supply chain is the main focus
- Connected Factories is one of the 8 Smart Industry transformations
- **Smart Connected Supplier Network** aims to achieve this.



## SCSN – Sense of urgency – The Why



### Agile, quick responding, and future-proof manufacturing industry

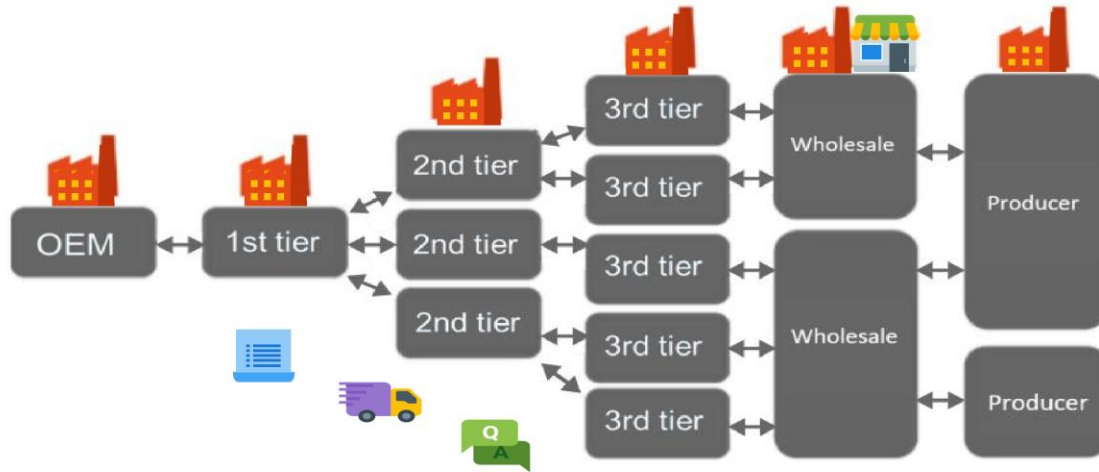
- Achieving growth ambitions by 2046 with 26% fewer employees while adapting to changing customer demands: 100% reliability, increased speed, and greater flexibility.
- Improving productivity in the manufacturing industry, which has remained largely stagnant since the '90, while addressing increasing administrative burdens caused by legislation and regulations.
- Responding more rapidly as a supply chain to disruptions and market changes.
- Fostering collaboration and transparency across the supply chain to ensure continuity amid shifting competition, politics, and legislation within and beyond Europe.
- Adapting to the changing needs of the current and future generation of B2B buyers and sellers, searching for collaborations and integrated solutions.

Our mission: Contributing to a future-proof manufacturing industry through supply chain integration, supply chain optimisation and trusted data sharing

# Fully connected supply chain



## The challenge as a chain – insight and responding to changes



### Large scale

Quotes, Orders  
Invoices  
Ready for shipment  
Dispatch Advice  
Products and pricing  
Certificates,  
measurement data  
Attachments (e.g. product  
designs)



### Rapidly growing

PCF  
Stock  
Forecast  
Production capacity  
Contracts  
Scheduled business  
E-invoicing (Peppol)



### Near future

Supply chain radar  
DPP & traceability  
Maintenance and  
outsourcing operations  
Model Based Definition  
Digital Twinning  
Asset Administration Shell  
...



Manually copy information  
in ERP systems and web  
portals



Administrative  
burden



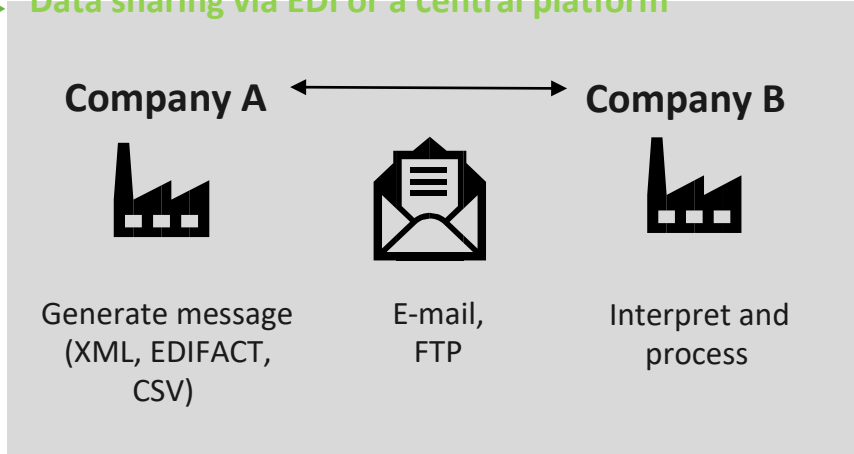
Prone to errors



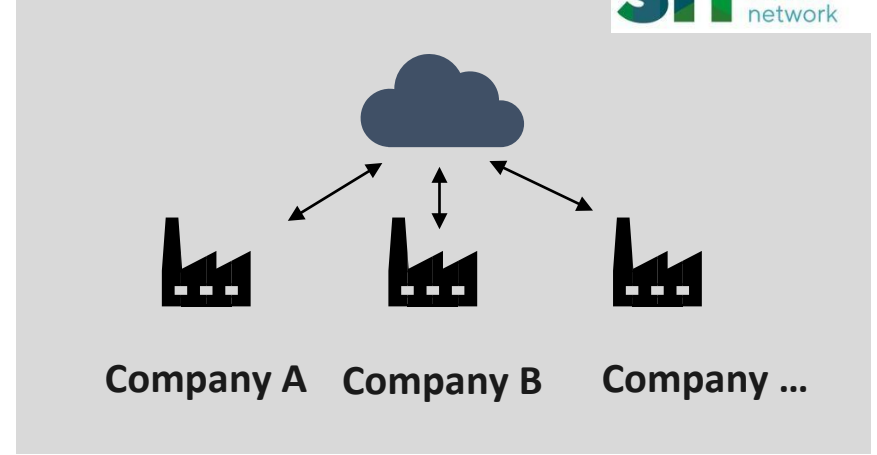
Sub-optimal  
supply chain

## Traditional approach

### Data sharing via EDI or a central platform



Each connection is custom-made and thus costly. Therefore, not scalable



Dependency on a single Service Provider who can have access to all data transactions.

## SCNN - How does it work - 4 corner model

Connect once, start communicating with the whole supply chain



### Service Providers:

- Digital access to the network, using IDS
- Independent 'address book' for routing communication
- Service providers with unique added value, companies to choose most valuable



### Connected companies:

- Structuring and optimizing internal processes
- Optimize master data
- Connect to SCSN using a service provider
- Digitizing and optimizing integral processes



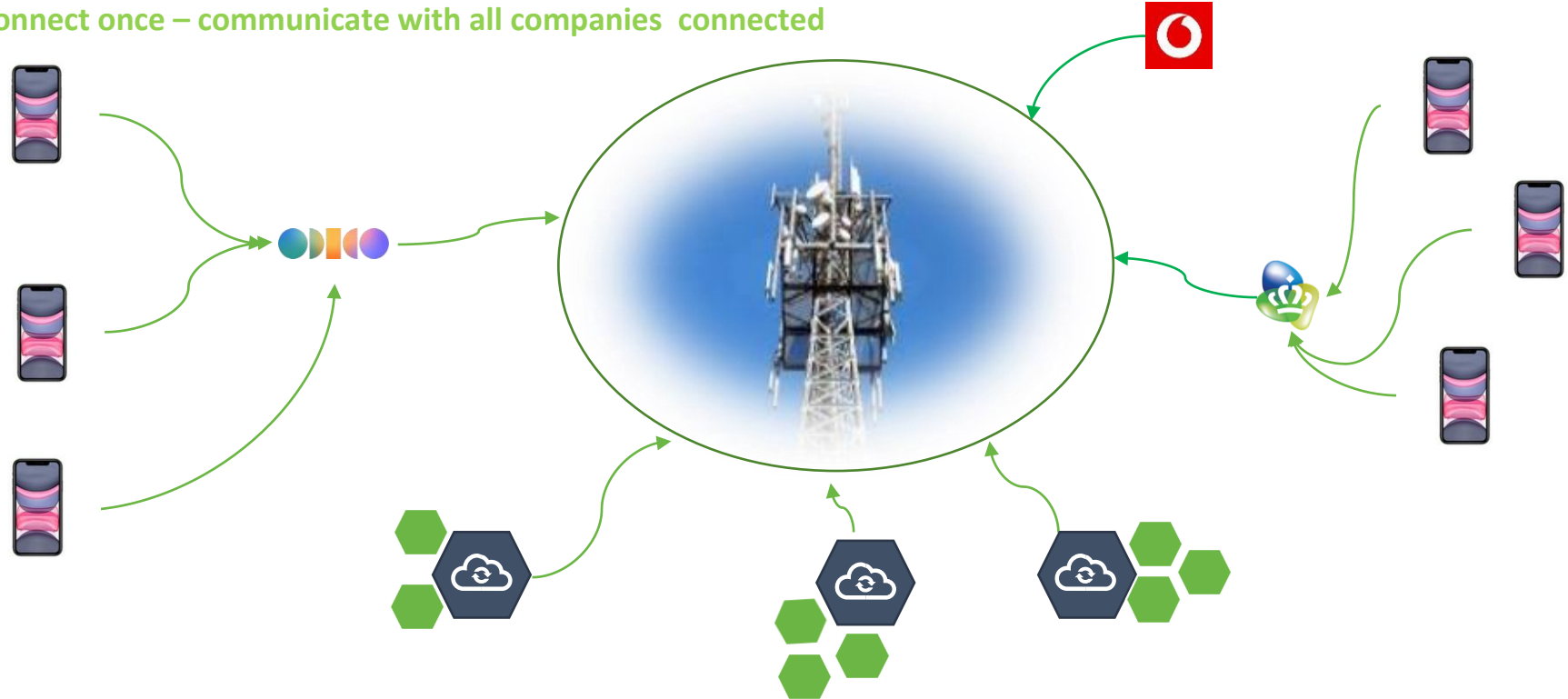
### ERP systems (or other data sources):

- A manufacturing company can choose their preferred ERP system.



## SCSN network - Comparison explanation

Connect once – communicate with all companies connected



## Manufacturing data space - at present

### Technical part, move quickly to how it works

The infrastructure is based on the **International Data Spaces Reference Architecture Model 3.0 (IDS-RAM3)** and adopts the **four-corner model**.

The **Foundation SCSN** facilitates generic functionality:

- **Address Book** based on the IDS Broker in order to publish and find the connected manufacturing companies.
- **Identity Manager** and **DAPS** in order to ensure trusted identities of all participants.

The **Service Providers** facilitate end-user connectivity:

- Each service provider has a **Hybrid IDS Connector** to interconnect the end-users.
- The service providers **integrate the connector** with the end-users' IT systems such as ERP systems.



## SCSN – 4 corner model - advantages

### Classic EDI connection versus SCSN connection

#### Traditional:

- Every connection with a customer or supplier is customized, complex, and error-prone.
- Lead time can range from months to years.
- High initial costs and requirements for an inhouse organization or IT partner.
- High costs per connection, maintenance, and innovation due to a lack of standards. Limitations for communication with affiliated companies within the company's own network

#### SCSN:

- Standard connectors to 35+ ERP systems, free choice of service provider.
- Connection time from hours to days  
Low initial and recurring costs, hasslefree support from the service provider, ERP vendor, and SCSN  
Once connected, communicate directly with all connected companies without additional investments in technology and messaging standards.
- Stay up-to-date on legislation and regulations, and innovations



## One common language



## Bill Of Materials



### TPD Package



## Invoicing



Core



Logistics



## Ordering



Forecast



### What if

Smart Connected Supplier Network uses an open online environment where developers can access the information models used to build the SCSN connection.

Many ERP vendors and service providers already offer out-of-the-box SCSN connectors. Easily connect within hours.

Also interoperable with various other sectors and networks: Strategy is to become one EU connected data space.

<https://smartconnected.semantic-treehouse.nl/#/Standards>

Order message

Element

XML Examples

Example 1

Address

Element

XML Examples

Change requests

### Address type: scsn:AddressType

**Definition**  
Structured information that allows the unambiguous determination of an object for purposes of identification and location (ISO 19160-1:2015)

**Path**  
Address

**XML mapping**  
cac:Address

**Data type**  
owl:class

Sub elements



## Status

- Providers en participants
- Growth '18 – August '26
- Roadmap and releases

## SCSN – largest operational data space organisation

### Support, knowledge sharing and innovation

- International active SCSN community with service providers, knowledge institutes, and companies across diverse sectors and industries, focused on continuous improvement and innovation.
- Close collaboration and agreements with other data spaces, networks and international standards, in which SCSN takes a frontrunner role.
- Innovation through subsidised innovation projects and a trusted partner network in which participants invest and innovate together to keep meeting customer needs.
- Clear governance from innovation through to operations, with transparent agreements and oversight of standards and the partner network.
- support body for service providers and companies that want to digitalise and make use of SCSN, supported by a range of knowledge and support organisations.

**SCSN – the digital bridge to do business in a safe way**

## Corporation NXTGEN, Data sovereignty, SCSN

Accelerating from idea to practice

NXTGEN, Sm4rtenance, CBPS



- Working Groups - From Idea to Concept
- Development to Design

Hackathons for acceleration

- Implementation, assurance, rollout
- Further development



Data sovereignty - SCSN



Who joins us in the trusted partner network?

## Active users and service providers

INTERNATIONAL DATA  
SPACES ASSOCIATION

scsn  
smart  
connected  
supplier  
network

## Manufacturing companies, service providers, knowledge institutes



13 (+5) Service providers and growing internationally



eci. Gatewise™  
Simplify EDI

ecosis  
a VERTEX company

SUPPLYDRIVE

W  
Webbing Solutions

tradecloud  
supply chain platform

INAD  
easy2trade



ctrl integrations  
Integraties. Zonder gedoe.

isah  
BUSINESS SOFTWARE

REXEL

TATA STEEL

Die EDI-  
Plattform  
myOpenFactory

QUOTATIONFACTORY  
QUOTATION SOFTWARE IN THE CLOUD



571 companies across multiple sectors and countries and growing MoM.

VANRAAKSTAAL

Hoffmann Group

kloeckner metals  
ODS Nederland

NTS GROUP

ARODO

ArcelorMittal

VDL

dumaco

KMWE  
Itaa

TATA STEEL

BECKHOFF

SUSS MicroTec



bax metaal

Itaa

SUPLACON  
plaatbewerking



de cromvoirtse  
snel metaal op maat

rexroth  
A Bosch Company

HANSALFLEX

FABORY

MCB<sup>iat</sup>

DEP  
KUNSTSTOFBEWERKING

ERIKS

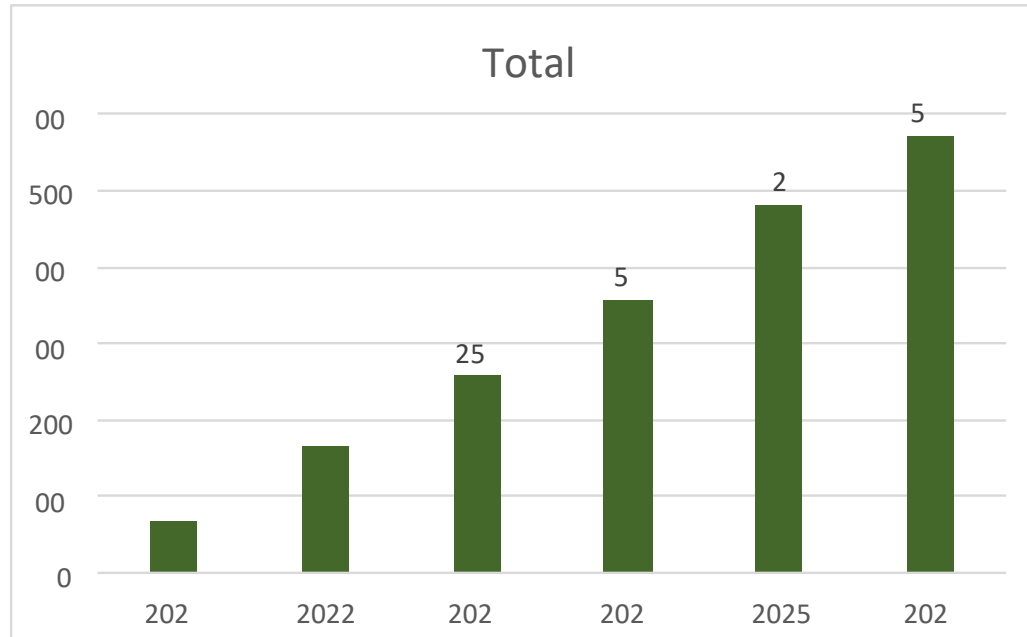
WURTH

VAN  
EGMOND  
GROEP  
A Buhler Company

RUBIX

## Growth of connections through July '26

### Active user chart



### Facts en figures

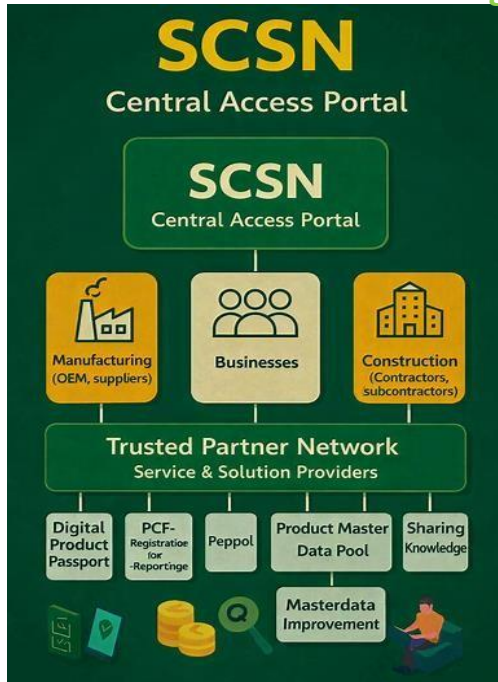
- 13 service providers
- 30% growth in '25
- 20% growth '25 - 09
- International growth around the globe
- Large OEMs and international (parent) companies – snowball effect – SCSN 1<sup>st</sup> strategy



Releases, roadmap, ambition

## SCSN ambition – Q2 '27

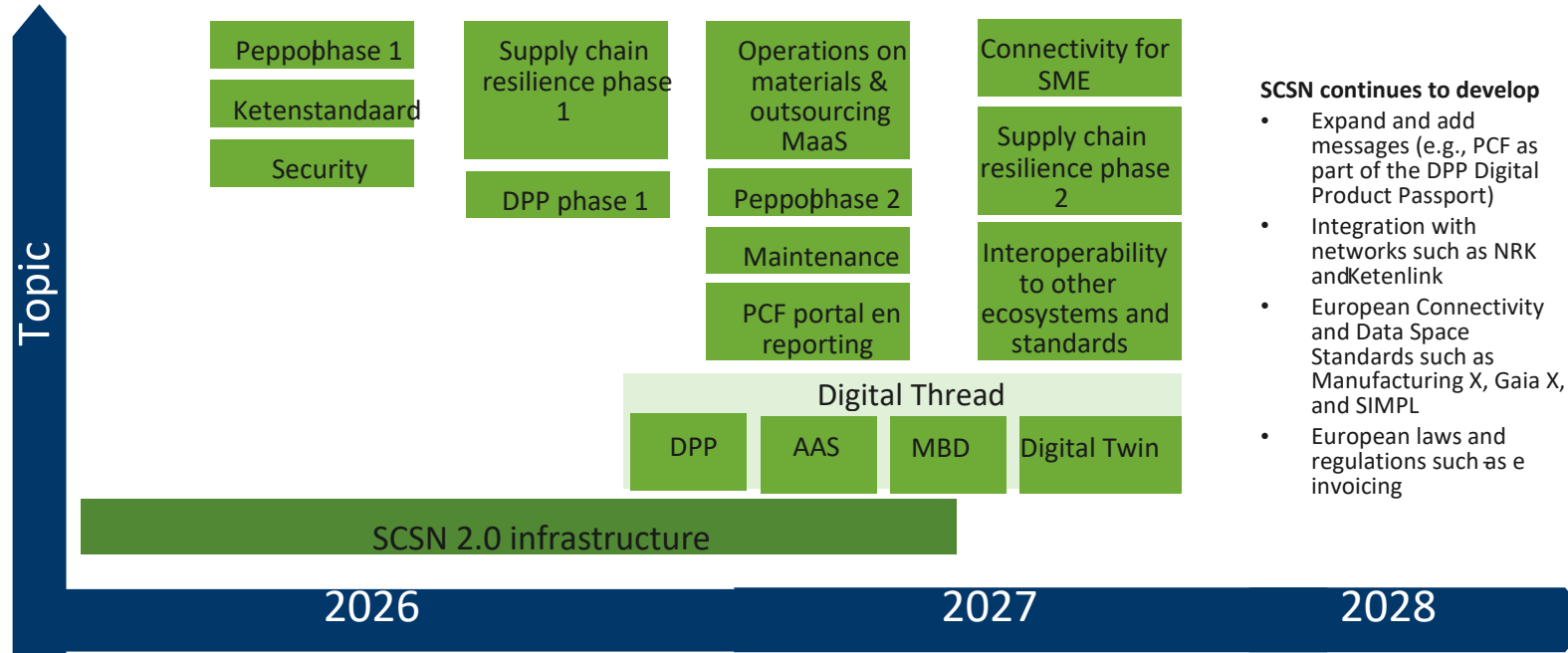
Offer solutions fitting market demand



- **CO<sub>2</sub> transparency across the supply chain:** Track, certify and report product carbon footprints
- **Digital Product Passport:** Product traceability from design and production to maintenance, reuse, remanufacturing and recycling
- **Manufacturing as a Service:** Digital collaboration from engineering to outsourced production
- **Digital participation without ERP:** Portals and apps enabling SMEs to join digital supply chains
- **Product data standardization:** Consistent master data based on GS1 and ETL standards
- **Trusted data sharing:** Companies remain in control of their own data
- **Interoperability with external networks:** Connections to Peppol, construction ecosystems, government platforms and European data spaces

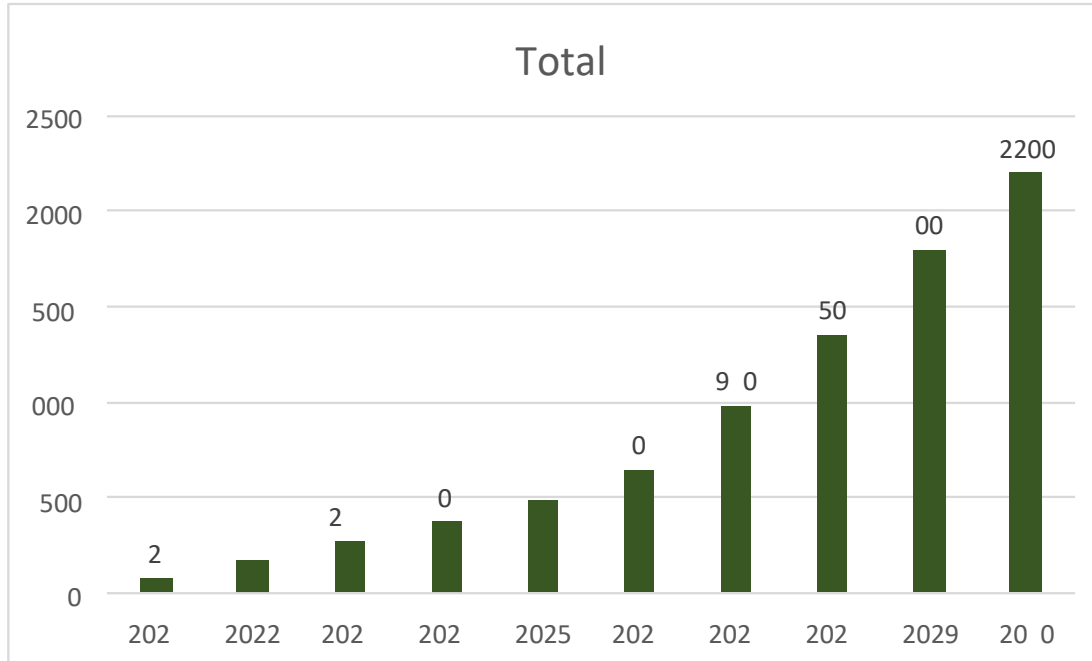
## Roadmap – What are the priorities

► Together we innovate to keep offering added value to



## SCSN future connections

### Expected growth of active users



### In practice

- A shift is occurring in the market: focus is moving towards end-to-end supply chain integration
- International growth is accelerating
- Multiple companies are connecting to the network every week.
- Industry associations are stepping up efforts to support adoption and onboard new participants.
- Several new service providers have recently joined and will become operational soon
- Discussions are ongoing with multiple potential service providers and networks to accelerate further growth.
- 2025 growth exceeded expectations (483 instead of 470)



BE SMART, GET CONNECTED

## SCSN Savings Calculator

### What does connecting your organisation deliver?

Hundreds of organisations exchange supply chain information digitally via SCSN. Curious what connecting your organisation could deliver?

- ✓ The time you spend annually on manual processing
- ✓ The costs associated with this
- ✓ The potential savings from digital supply chain collaboration

Non-committal, based on your own figures. Takes approximately 10 minutes.

[smart-connected.nl/en/about-scsn/scsncalculator](https://smart-connected.nl/en/about-scsn/scsncalculator)

### Calculate your savings

**Number of order lines per year**

e.g. 5,000

**Number of invoice lines per year**

e.g. 3,000

e.g. 1,000

**Number of material certificates per year**

**Calculate now →**

# What's next? BE SMART, GET CONNECTED

## By and for the manufacturing industry – stronger together

- Define your strategy, approach and priorities. Think big, start small.
- Consider engaging experts and making use of available subsidies.
- Get the basics in order (e.g. master data) and choose your preferred service provider.
- Start digital business operations and expand your digital network with your relations.
- Help determine what matters and build the future of manufacturing together



Automatisering  
& efficiëntie



Verhoogde  
nauwkeurigheid



Naadloze integratie



Kostenbesparing



Toekomstbestendig



Directly connected with all  
connected companies



KLIKOPMORGEN.nl  
EDIH Zuid-Nederland

Ondernemend  
Eindhoven



SME deal





# Your ecosio team today



SOLUTIONS ENGINEER

## Katya Kancheva

**Katya specialises in solution engineering for global customers across international e-invoicing regulations and EDI networks.**

[ecosio GmbH](#)



PARTNER MANAGER

## Veronika Althaus

**Veronika specialises in building partner ecosystems and guiding enterprise organisations through managed B2B integration and global e-invoicing compliance.**

[ecosio GmbH](#)

# Agenda

**ecosio & Vertex** 01

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**E-Invoicing worldmap** 02

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**Service approach ecosio** 03

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**ecosio monitor demo** 04

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**ERP connectivity** 05

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01

# ecosio & Vertex



**Founded 2013 in Vienna**  
based on the founder's  
PhD program



**Fully cloud-based, EDI**  
and e-invoicing network  
develop by us



**Top-tier industry experts**



**International team for**  
projects around the globe



**Part of Vertex since 2024**



**Powering e-invoicing**  
compliance globally



**Built to handle enterprise**  
demands and designed to  
evolve with your needs

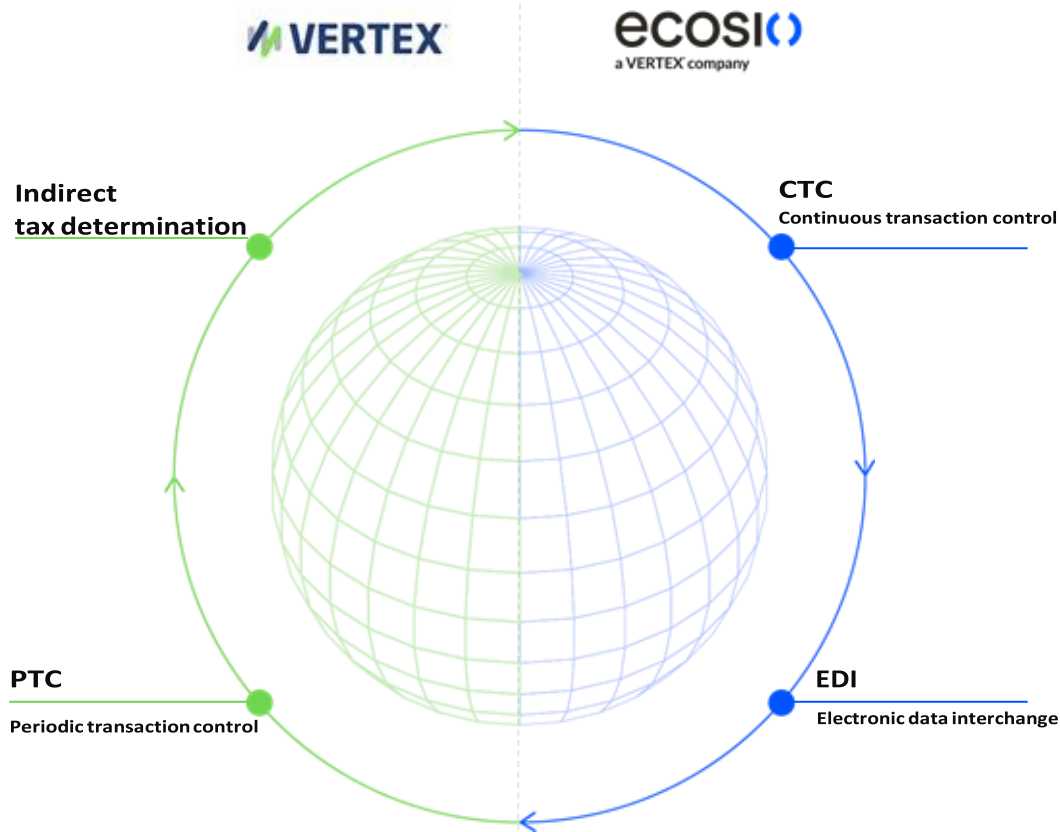


**+40% YOY MRR**

**ecosio was built for global growth**

# End-to-end global compliance

Maximise automation, reduce costs, and comply with international e-invoicing regulations with minimal effort.



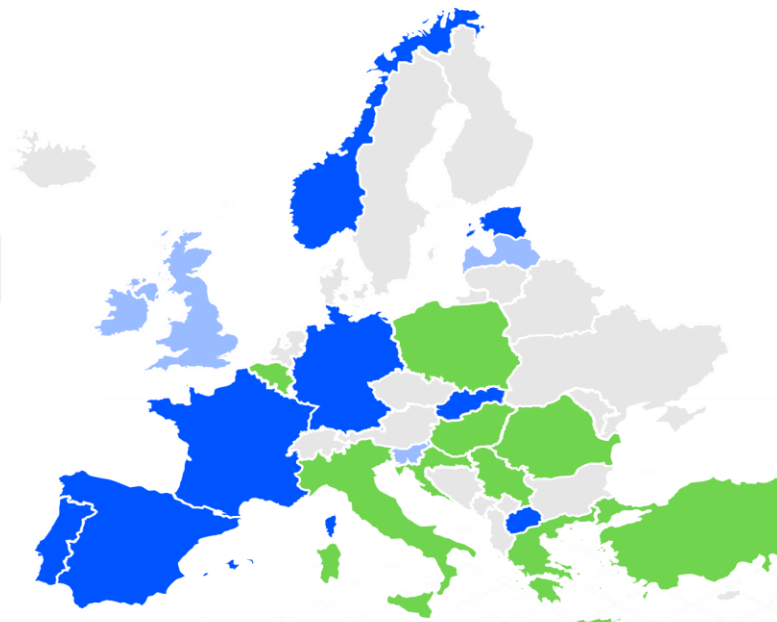
02

# E-Invoicing world map

# BUSINESS-TO-BUSINESS MANDATORY E-INVOICING AND VAT REPORTING ON THE RISE

## Europe

|                                                                                                             |                                                                                                      |                                                                                                              |                                                                                                       |                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <br>Belgium<br>2026 - 2028 | <br>Greece<br>2026  | <br>North Macedonia<br>2026 | <br>Serbia<br>2023   | <br>United Kingdom<br>2029 |
| <br>Croatia<br>2026        | <br>Hungary<br>2021 | <br>Norway<br>2027          | <br>Slovakia<br>2027 |                                                                                                             |
| <br>Estonia<br>2027        | <br>Ireland<br>2028 | <br>Poland<br>2026          | <br>Slovenia<br>2028 |                                                                                                             |
| <br>France<br>2026 - 2027  | <br>Italy<br>2019   | <br>Portugal<br>2027        | <br>Spain<br>2027    |                                                                                                             |
| <br>Germany<br>2027 - 2028 | <br>Latvia<br>2028  | <br>Romania<br>2024 - 2025  | <br>Türkiye<br>2014  |                                                                                                             |



B2B e-invoicing  
mandate

 Live  
 Live in 26/27

 Live after 2027  
 No Information

Note: although some countries may be discussing and proposing date, the information herein reflects officially confirmed mandate enforcement dates.

## BUSINESS-TO-BUSINESS

## MANDATORY E-INVOICING AND VAT REPORTING ON THE RISE

# Latin America

|                                                                                                        |                                                                                                                 |                                                                                                             |                                                                                                        |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <br>Argentina<br>2015 | <br>Colombia<br>2019           | <br>Guatemala<br>2021-2023 | <br>Uruguay<br>2019   |
| <br>Bolivia<br>2021   | <br>Costa Rica<br>2018         | <br>Mexico<br>2011         | <br>Venezuela<br>2025 |
| <br>Brazil<br>2008    | <br>Dominican Republic<br>2024 | <br>Paraguay<br>2024       |                                                                                                        |
| <br>Chile<br>2014     | <br>Ecuador<br>2014            | <br>Panama<br>2022         |                                                                                                        |
|                                                                                                        | <br>El Salvador<br>2023        | <br>Peru<br>2015           |                                                                                                        |



B2B e-invoicing  
mandate

 Live

 Live in 26/27

 Live after 2027

 No Information

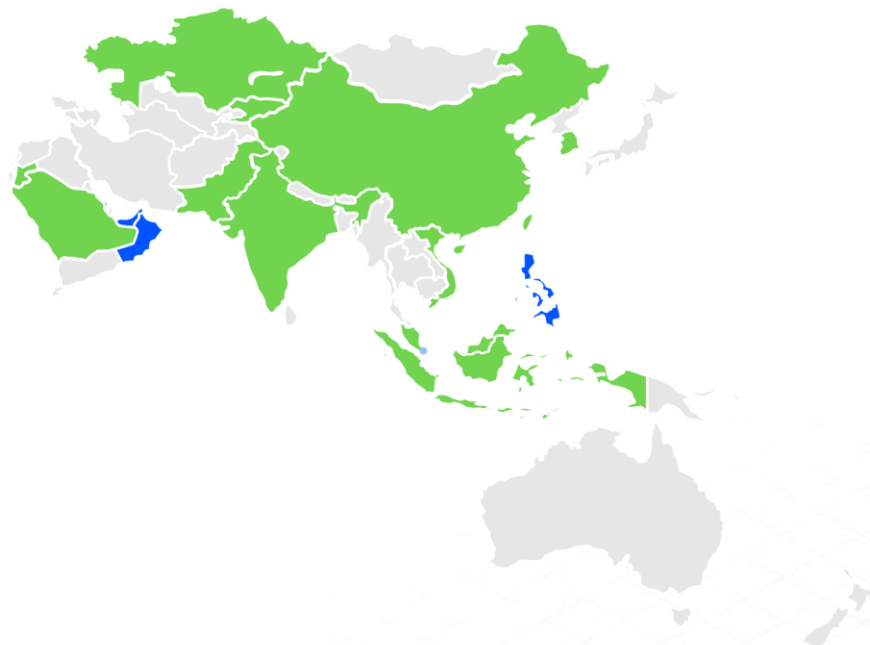
Note: although some countries may be discussing and proposing date, the information herein reflects officially confirmed mandate enforcement dates.

# BUSINESS-TO-BUSINESS MANDATORY E-INVOICING AND VAT REPORTING ON THE RISE

## Middle East, Asia and Oceania

|                                                                                                       |                                                                                                          |                                                                                                           |                                                                                                         |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <br>China<br>2024     | <br>Kazakhstan<br>2019  | <br>Saudi Arabia<br>2021 | <br>Uzbekistan<br>2020 |
| <br>India<br>2020     | <br>Kyrgyzstan<br>2020  | <br>Singapore<br>2025    | <br>Jordan<br>2025     |
| <br>Indonesia<br>2016 | <br>Malaysia<br>2024    | <br>South Korea<br>2011  | <br>Vietnam<br>2022    |
| <br>Israel<br>2024    | <br>Pakistan<br>2025    | <br>Taiwan<br>2021       | <br>Oman<br>2026       |
|                                                                                                       | <br>Philippines<br>2026 | <br>UAE<br>2026          |                                                                                                         |

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B2B e-invoicing  
mandate

 Live

 Live in 26/27

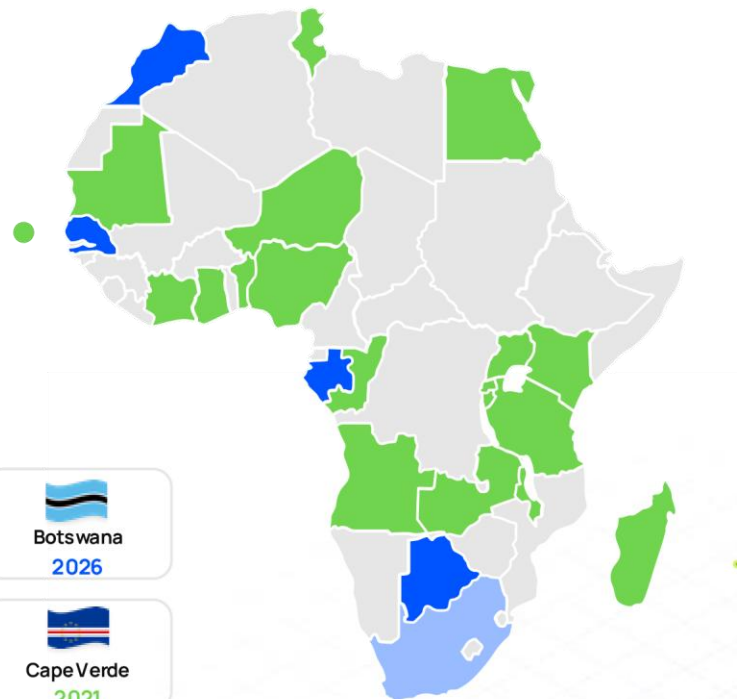
 Live after 2027

 No Information

# BUSINESS-TO-BUSINESS MANDATORY E-INVOICING AND VAT REPORTING ON THE RISE

## Africa

|                                                                                                            |                                                                                                         |                                                                                                                |                                                                                                       |                                                                                                            |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <br>Angola<br>2026        | <br>Kenya<br>2021      | <br>Nigeria<br>2025           | <br>Tanzania<br>2022 | <br>Morocco<br>2026      |
| <br>Benin<br>2020         | <br>Madagascar<br>2025 | <br>Niger<br>2021             | <br>Tunisia<br>2025  | <br>South Africa<br>2028 |
| <br>Burundi<br>2022       | <br>Malawi<br>2024     | <br>Republic of Congo<br>2024 | <br>Uganda<br>2022   | <br>Burkina Faso<br>2026 |
| <br>Côte D'Ivoire<br>2019 | <br>Mauritania<br>2023 | <br>Rwanda<br>2021            | <br>Zambia<br>2024   | <br>Gabon<br>2026        |
| <br>Egypt<br>2020         | <br>Mauritius<br>2023  | <br>Senegal<br>2026           | <br>Ghana<br>2022    | <br>Botswana<br>2026    |
|                                                                                                            |                                                                                                         |                                                                                                                | <br>Zambia<br>2024  | <br>Cape Verde<br>2021  |



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B2B e-invoicing  
mandate

 Live  
 Live in 26/27

 Live after 2027  
 No Information

03

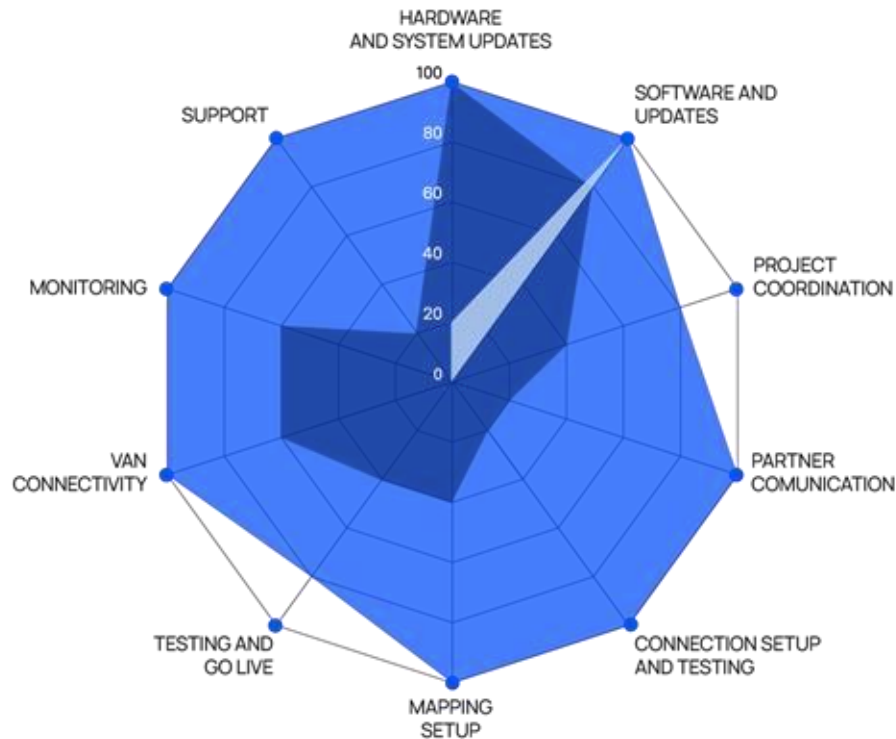
# Service approach ecosio

## Why ECOSIO

# How ecosio's approach compares

B2B integration solutions fall into one of three categories. These vary significantly when it comes to how much internal work they require to operate.

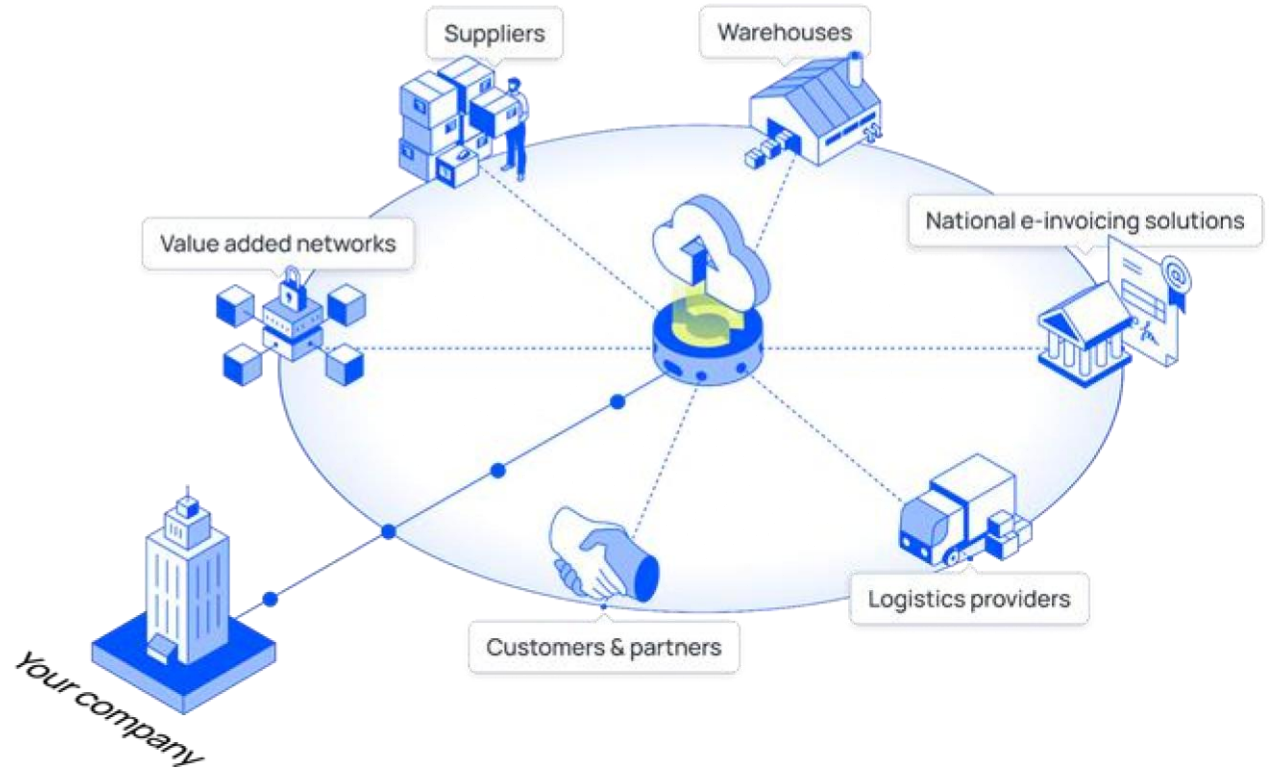
- Local EDI/e-invoicing solution
- Integration platform as a service solution (iPaaS)
- Fully managed EDI/e-invoicing



HOW YOU BENEFIT

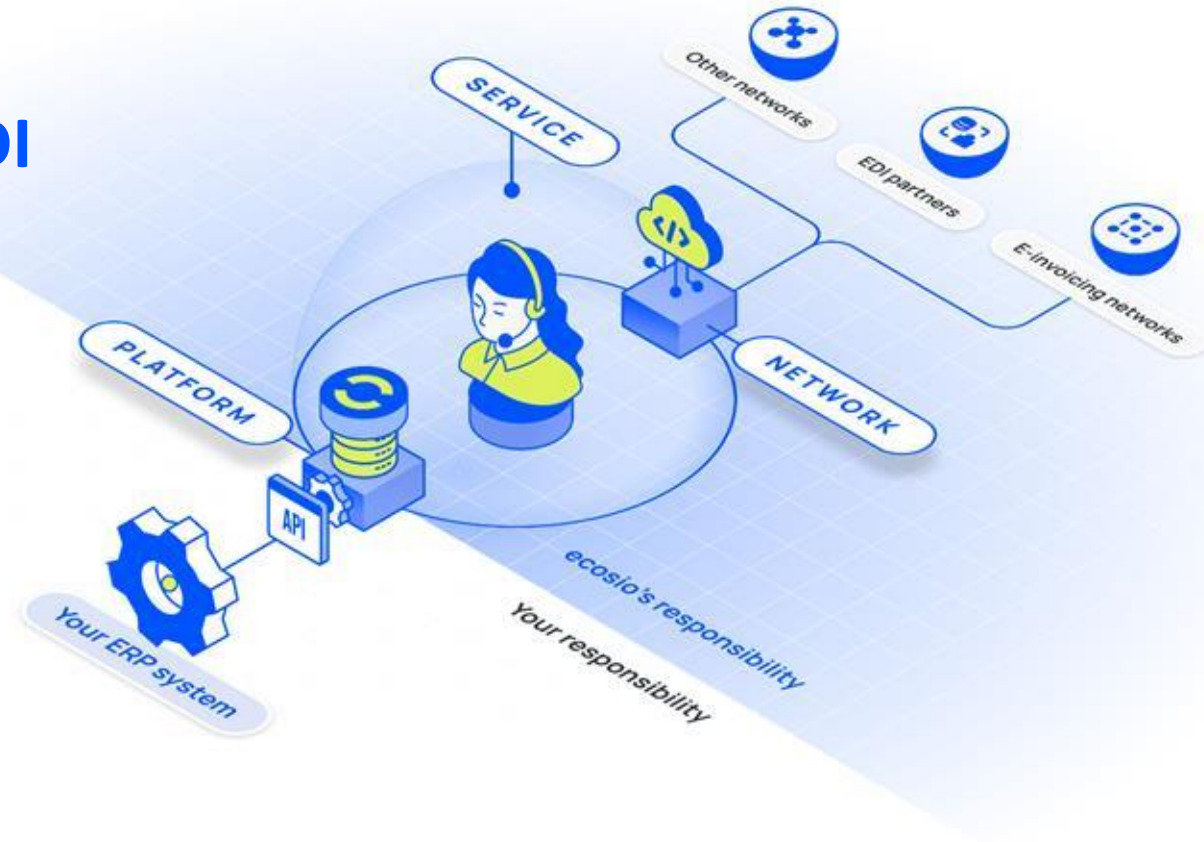
# One connection. Endless possibilities.

Streamline operations and gain full visibility across your entire supply chain



# Three essential components for EDI and e-invoicing success

A successful solution requires a powerful platform, extensive network, and reliable service.



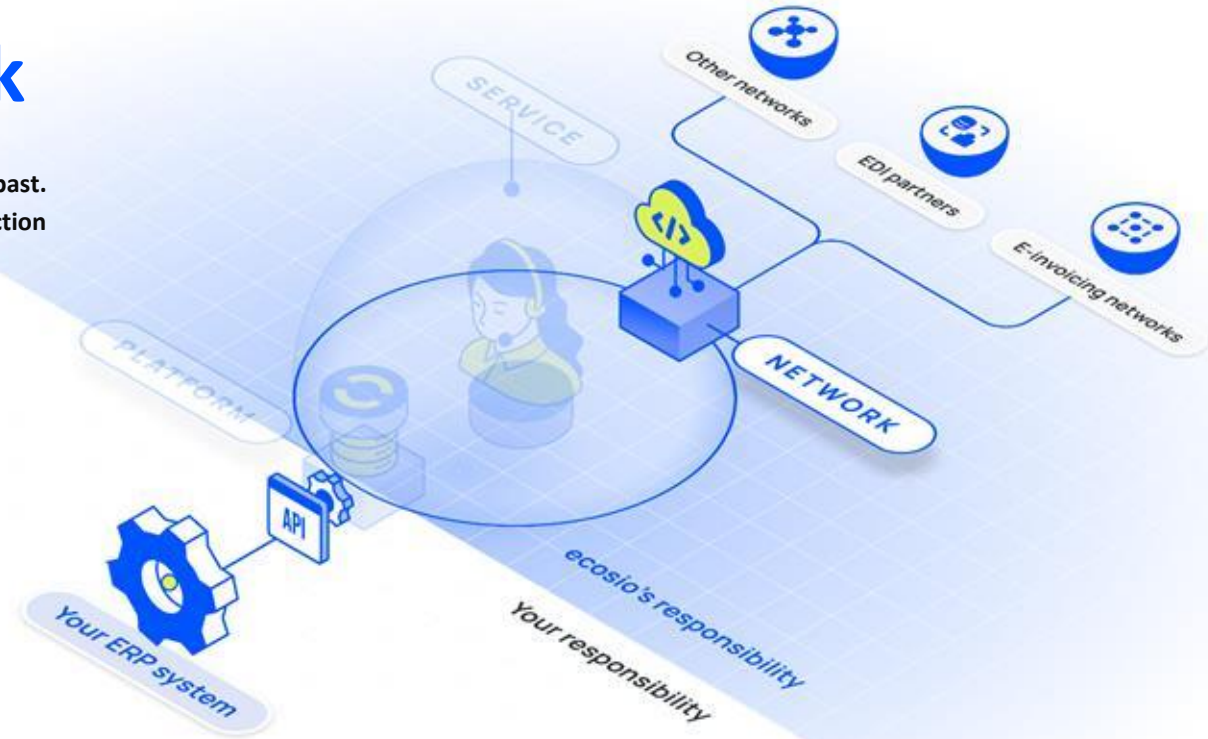
# 1 A powerful platform

Say goodbye to complex processes and multiple logins.  
Streamline EDI and e-invoicing processes thanks to  
direct ERP system integration.



## 2 A global network

Make fragmented partner landscapes a thing of the past.  
Manage your entire ecosystem with a single connection  
to ecosio's global network.



# A comprehensive service

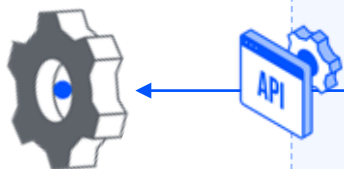
No more need for individuals to balance EDI and invoicing tasks with other commitments. Enable internal teams to focus on what they do best.



# Full visibility across all connections

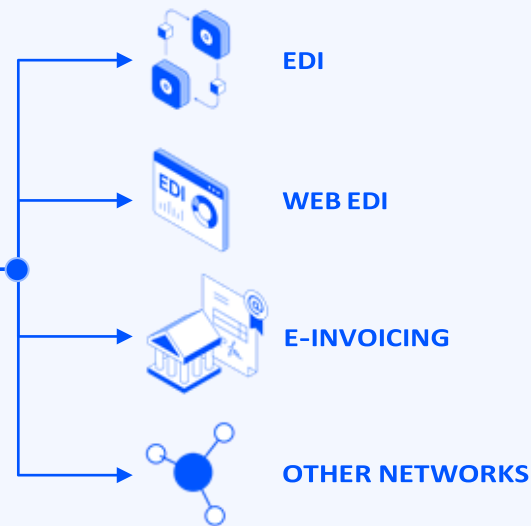
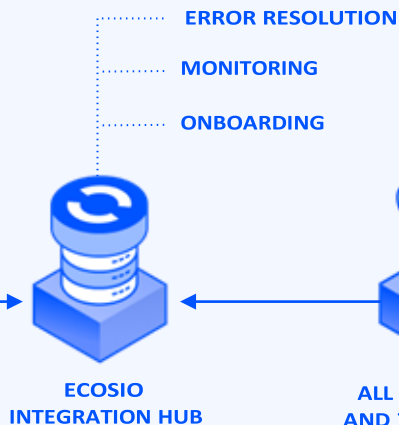
## YOUR RESPONSIBILITY

Your  
ERP System



DEEPER INTEGRATION

## ECOSIO'S RESPONSIBILITY



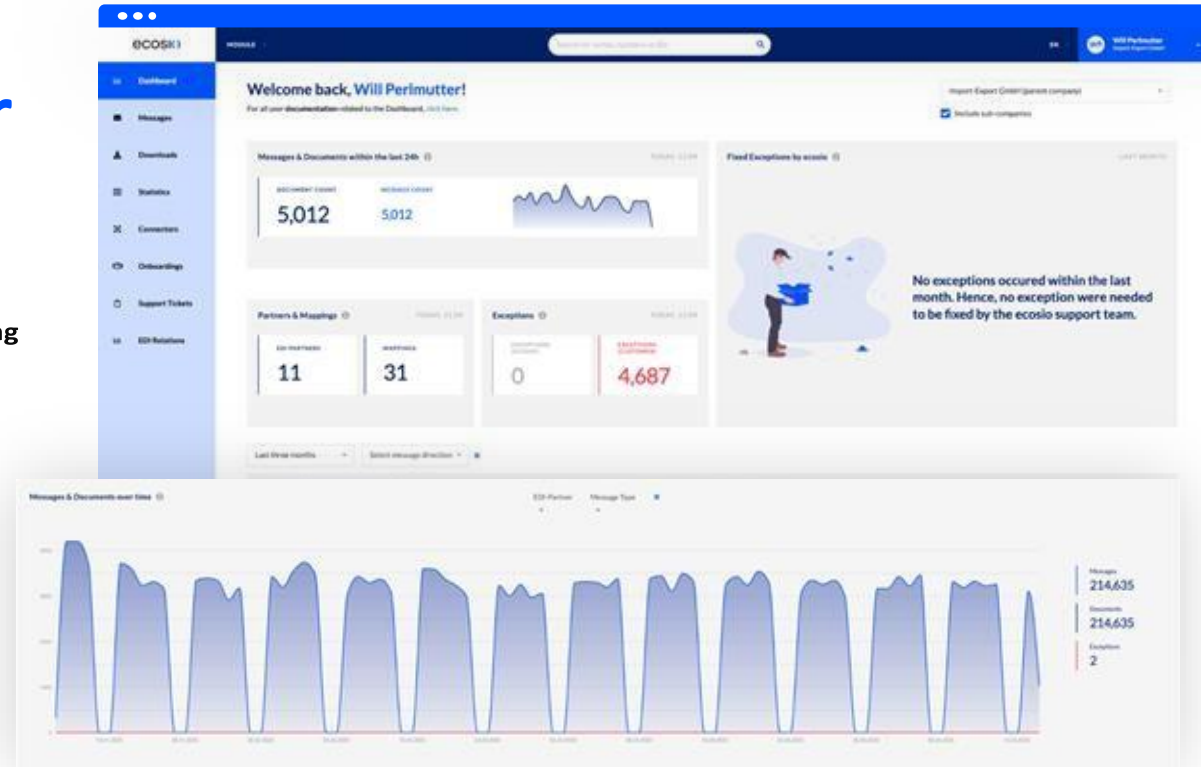
04

# ecosio monitor demo

the monitor

# Unparalleled data visibility for all teams

The Monitor ensures all teams have instant access to the information they need, eliminating costly bottlenecks



the monitor

# Find any message, instantly

Search, filter, and view all EDI and e-invoicing messages in one place

The screenshot displays the ECOSI Messages interface. On the left is a sidebar with navigation links: Dashboard, Messages, Downloads, Statistics, Connectors, Onboardings, Support Tickets, and EDI Relations. The main area is titled 'Messages' and includes a search bar with the placeholder 'Search for names, numbers or IDs'. Below the search bar are filters for 'Status', 'In-Out', 'Last Change', 'Sender', 'Receiver', 'Message Type', 'Message Reference', 'Document Number', 'Document Count', 'Action', and 'Details'. A table of messages is shown with columns for these fields. A search icon is visible in the bottom right corner of the interface.

Search for Names, Companies, Reference numbers,...

Sales

sender:"Sales  
Company"

connector:AS2

DEMO1723423

the monitor

# Message Details

Drilling down into your messages like never before

The screenshot displays the ECOSI Messages interface. On the left is a sidebar with navigation links: Dashboard, Messages, Downloads, Statistics, Connectors, Onboardings, Support Tickets, EDR Relations, News & Feedback, Settings, and Support. The main area is titled 'Messages' and includes a search bar and filters. Below this is a table of messages with columns for STATUS, IN-OUT, LAST CHANGE, SENDER, RECEIVER, MESSAGE TYPE, MESSAGE REFERENCE, DOCUMENT NUMBER, DOCUMENT COUNT, ACTION, and DETAILS. A message is selected, showing its details: Received, XML\_ORDRSP\_1p0\_ERPEL\_INDUSTRY\_MESSAGE, HUB, 4/17/2023 8:48 AM. The 'MESSAGE CONTENT' section shows the XML payload, which is a pretty-printed message. The XML structure includes headers for MessageReceivedAt, InterchangeHeader, Sender, Recipient, DateTime, and Document, followed by a MessageHeader section.

ECOSI

Messages

Search for messages by ID or keyword

Import Export Order (query message)

Include sub-components

Search for messages by ID or keyword

STATUS IN-OUT LAST CHANGE SENDER RECEIVER MESSAGE TYPE MESSAGE REFERENCE DOCUMENT NUMBER DOCUMENT COUNT ACTION DETAILS

Downloaded Messages Quick download

01 Received XML\_ORDRSP\_1p0\_ERPEL\_INDUSTRY\_MESSAGE HUB 4/17/2023 8:48 AM

MESSAGE CONTENT PRETTY-PRINTED MESSAGE

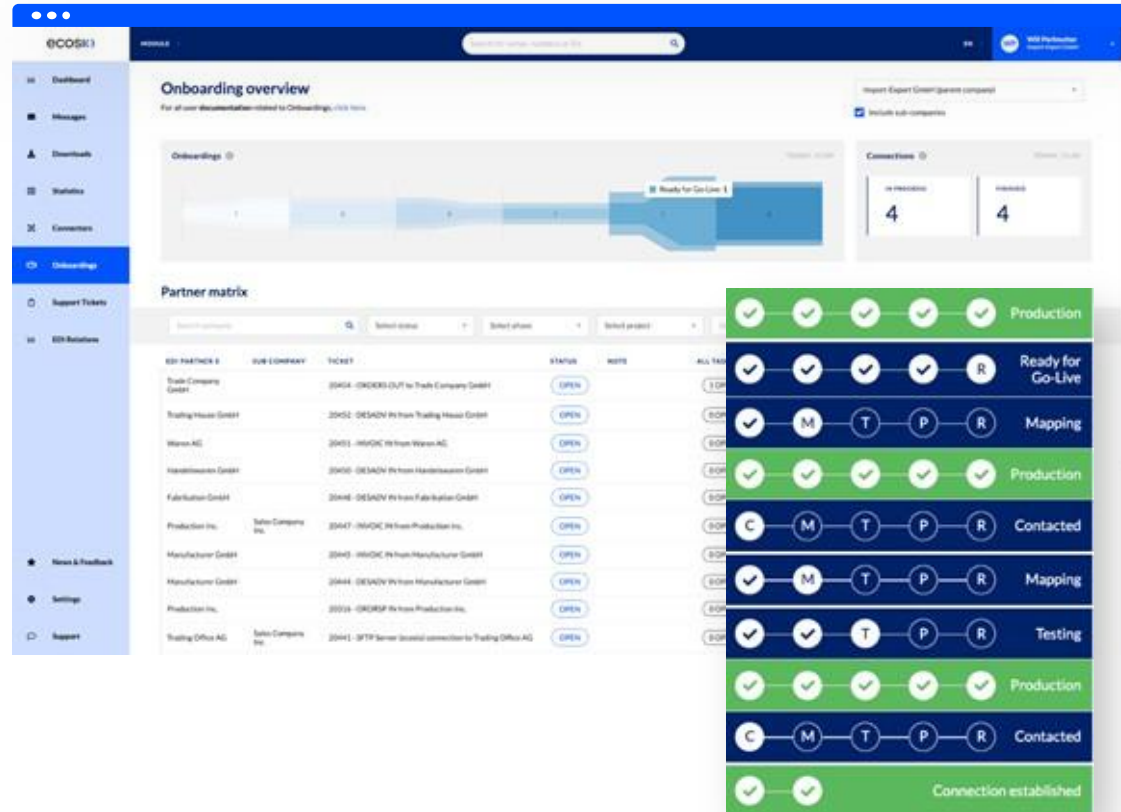
```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <ns1:ErpelIndustryMessage xmlns="http://achmas.ecosio.com/erpel-indu
3   <ErpelBusinessDocumentHeader>
4     <MessageReceivedAt>2023-04-17T09:25:01.711</MessageReceivedAt>
5     <InterchangeHeader>
6       <Sender>
7         <id>company-monitor-demo-237</id>
8       </Sender>
9       <Recipient>
10        <id>company-monitor-demo-456</id>
11      </Recipient>
12      <DateTime>
13        <date>2023-04-17</date>
14        <time>10:29:41</time>
15      </DateTime>
16    </InterchangeHeader>
17    </ErpelBusinessDocumentHeader>
18    <ns2:Document>
19      <ns2:Header>
20        <ns2:MessageHeader>
21          <ns2:MessageReferenceNumber>1</ns2:MessageReferenceNu
22          <ns2:MessageType>ORDRSP</ns2:MessageType>
23        </ns2:MessageHeader>
24        <ns2:BeginningOfMessage>
25          <ns2:DocumentNameEncoded>231</ns2:DocumentNameEncoded
```

DOWNLOAD MESSAGE

the monitor

# Clarity and control during onboarding

Track onboarding progress for every partner.  
Know what's done, what's next, and  
communicate quickly and easily with ecosio's experts.



the monitor

# Know exactly why it failed

No need to guess why something went wrong.  
The Monitor provides clear diagnostics so issues can be resolved quickly and easily.

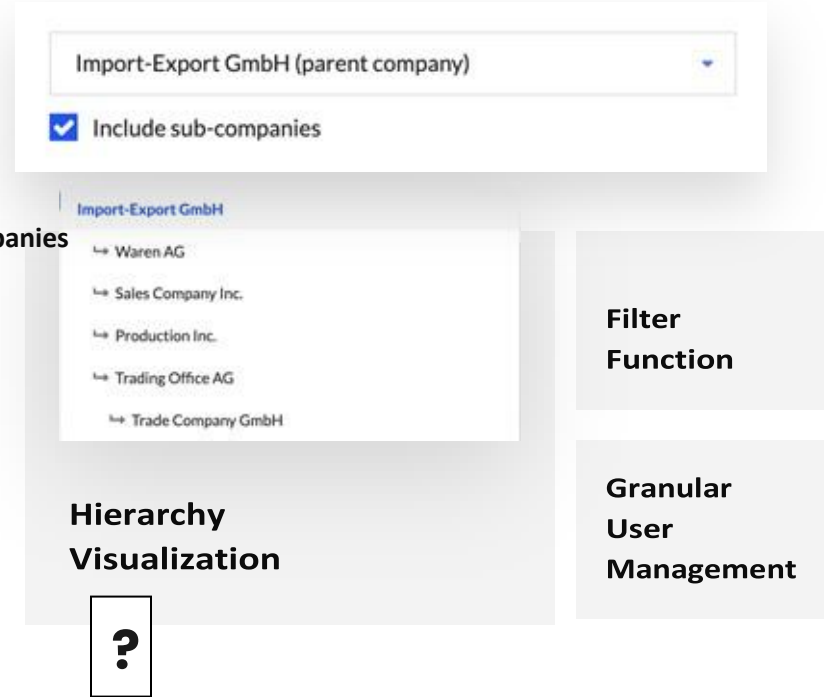
The screenshot displays the ECOSI Monitor web application. The top navigation bar includes the ECOSI logo, a search bar, and user information. The left sidebar contains a menu with options: Dashboard, Messages, Downloads, Statistics, Connectors, Onboardings, Support Tickets, and EDR Relations. The main content area is titled 'Messages' and shows a list of messages with columns for STATUS, IN-OUT, LAST CHANGE, SENDER, RECEIVER, MESSAGE TYPE, MESSAGE REFERENCE, DOCUMENT NUMBERS, DOCUMENT COUNT, ACTION, and DETAILS. A red banner at the top of the message list indicates an 'Exception (customer)'. Below the message list, a 'State details' section for 'Exception (customer)' provides information about the API USER ID, USER-AGENT, and the internal error (Error code: 300). A 'Further details' section explains that an internal technical error occurred during message processing. On the right side, a detailed view of the exception is shown, including the 'LAST UPDATED' timestamp, 'SENDER' (Import-Export GmbH), 'RECEIVER' (Germany XRechnung 3p via Peppol (UBL)), 'MESSAGE CLASSIFICATION' (INVOIC), 'MESSAGE TYPE' (XML\_UBL-EN16931-XRECHNUNG\_3p\_INV...), and 'ECOSI MESSAGE ID' (c28a06e0-1b73-11f0-9e91-e084d294eb5).

the monitor

# Manage SubCompanies

One big family with all the right EDI connections

- Parent companies can access, control and manage sub-companies
- Specify functionalities per company
- Visualized tree shown in a dropdown
- Team can be managed across multiple companies



HIERARCHY LEVELS

# UNLIMITED

the monitor

# Team Management

Invite your whole team to the private party

The screenshot displays the ECOSIO Team Management interface. The top navigation bar includes the ECOSIO logo, a 'MODULE' dropdown, and user information for 'Matthias Lambrecht'. The main content area is titled 'Company settings' and features tabs for 'Company', 'Team' (selected), 'Partner', 'Support', 'Advanced', and 'Security'. Below the tabs, there are filters for 'Search for mail or name...', 'Import-Export GmbH (parent company)', 'Permissions', 'Status', and 'HFA'. The interface is divided into two main sections: 'Invited users' and 'Team members'.

**Invited users**

| Avatar | Email                                | Status  | Company Name       | Permissions                                       |
|--------|--------------------------------------|---------|--------------------|---------------------------------------------------|
|        | philipp.lingl+demo@ecosio.com        | Expired | Import-Export GmbH | Company admin, Message operations, Partner Matrix |
|        | matthias.lambrecht+demo50@ecosio.com | Expired | Sales Company Inc. | Company admin                                     |

**Team members**

| Avatar | NAME                                                       | STATUS | COMPANY NAME       | PERMISSIONS                                       |
|--------|------------------------------------------------------------|--------|--------------------|---------------------------------------------------|
|        | Marlene Lindner<br>marlene.lindner+importexport@ecosio.com | Active | Import-Export GmbH | Company admin, Message operations, Partner Matrix |
|        | Matthias Lambrecht<br>matthias.lambrecht+demo@ecosio.com   | Active | Import-Export GmbH | Company admin, Message operations, Partner Matrix |
|        | Demo Monitor<br>success+demomonitor@mailtest.ecosio.com    | Active | Import-Export GmbH | Company admin, Message operations, Partner Matrix |
|        | Will Perlmutter<br>will.perlmutter+demo@ecosio.com         | Active | Import-Export GmbH | Company admin, Message operations, Partner Matrix |

PREVIOUS PAGE

**Side Navigation:**

- User settings
  - Profile and account
  - Password
  - Linked emails
  - Notifications
- Security
- Company settings
  - Company
  - Team
  - WebEDI settings
- Partner
- Support
- Advanced
- Security
- Settings
- Support

  
**Invite Colleagues**

  
**Manage & Control Teams**

  
**Security Measures**

the monitor

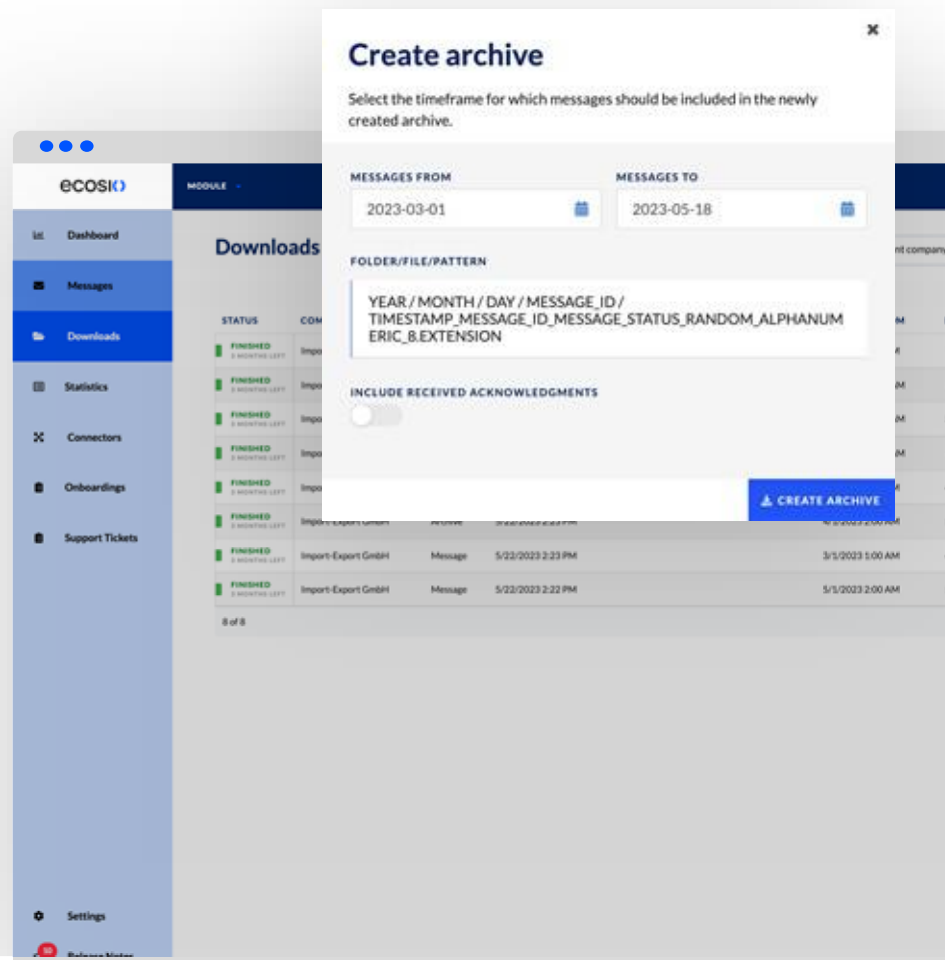
# Downloads & Archives

Download archives and store your EDI files for later

- Select important EDI messages within a 3-month window
- Configure your individual folder structure and file names for your archived content
- Download archives for your business needs

AVAILABILITY OF ARCHIVES

## 3 MONTHS

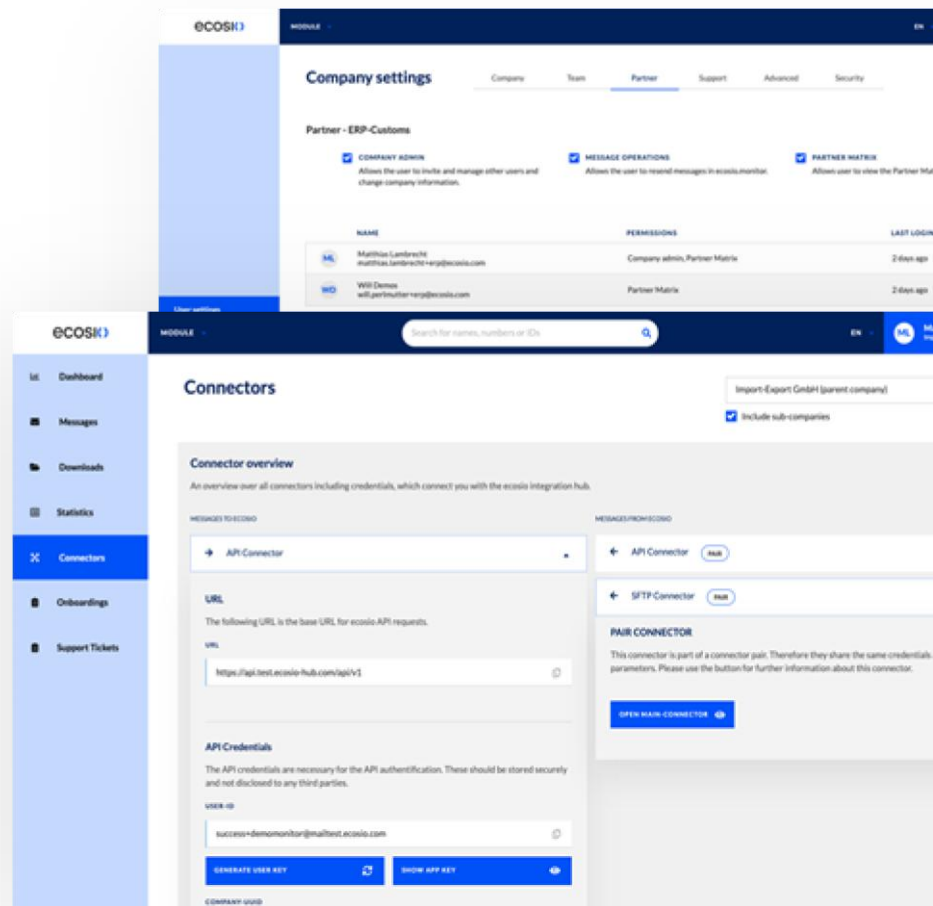


the monitor

# Connectors

Manage your company connectors from one place

- Access connection details such as user keys, for you and your ERP Partners
- Generate new credentials, and send them via secure channels
- Let time based security processes work for you

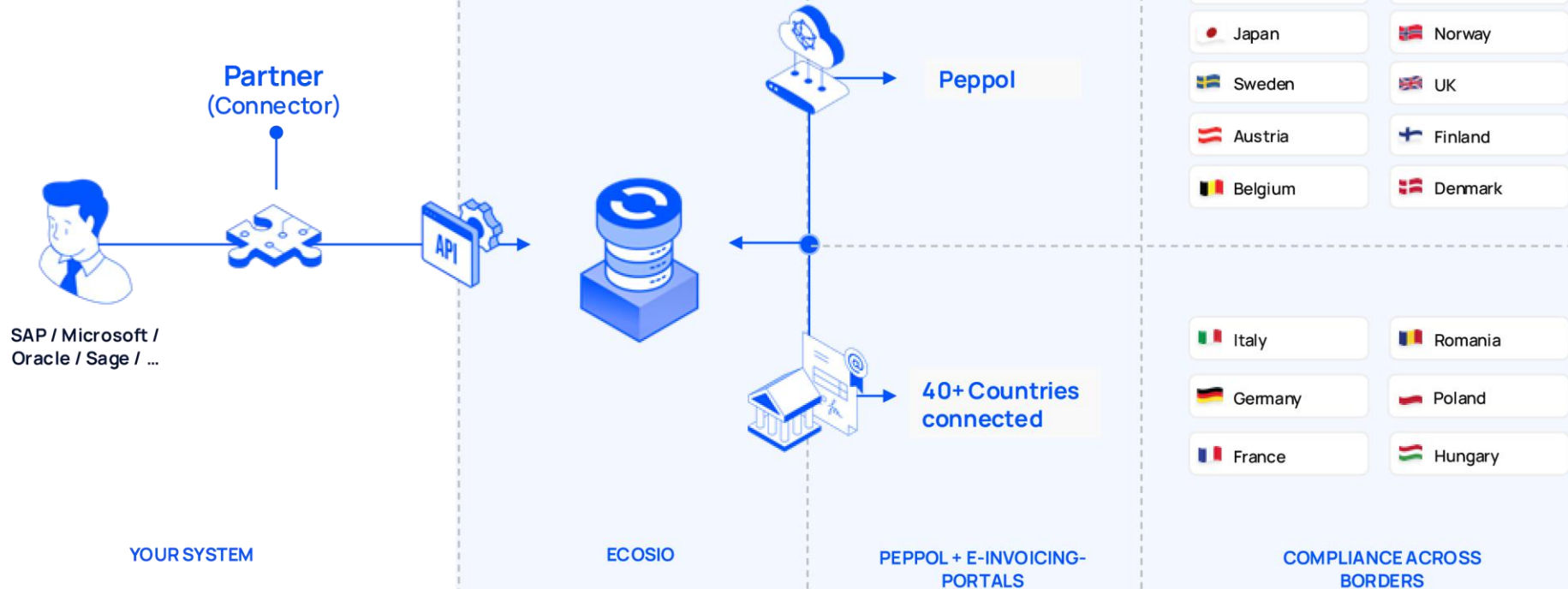


05

# ERP connectivity

# ERP connectors

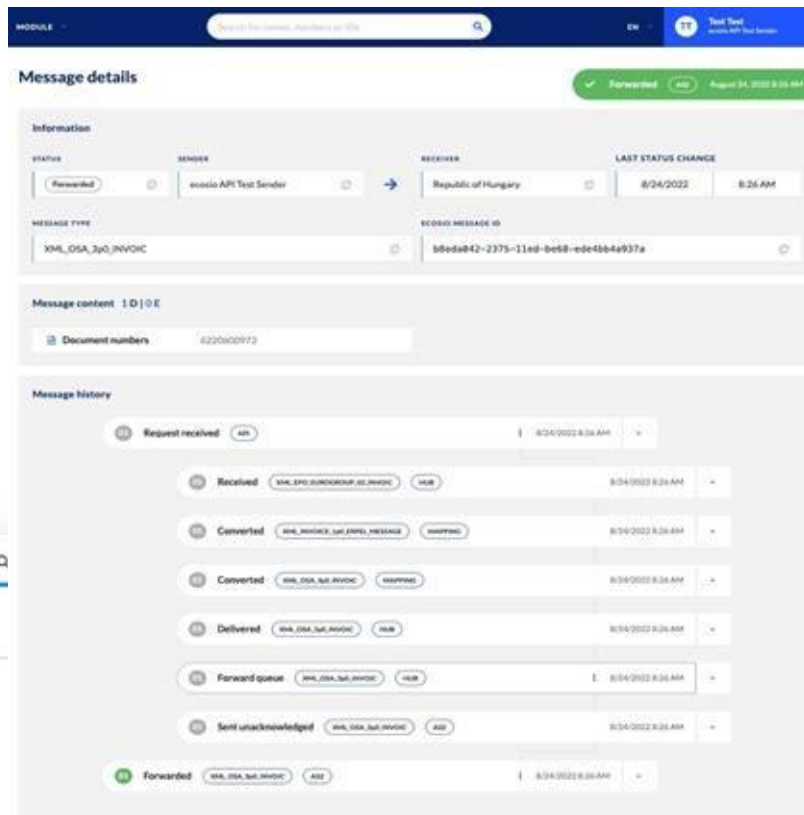
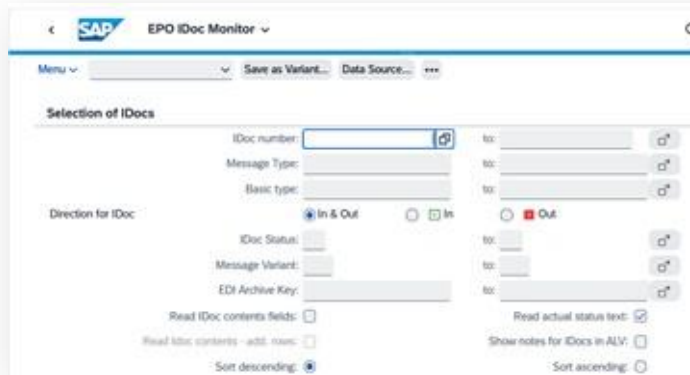
How you benefit from global e-invoicing compliance



# Monitoring in the ERP

Directly integratable into the ERP system

- Direct **access to detailed monitoring** information from the ERP GUI- no additional login required
- The **exact delivery status** of an invoice message is clearly visible



# XPL-AI *Enosym*

**Turning Strategy into Reality**

➤ **Seamless Implementation**

Directing the Digital Supply Chain: Digital Ecosystems & Compliance

## Introduction – **About the Presenter & XPLAI**

XPL-AI is an independent consultancy helping organizations run, transform, and secure business-critical operations through data, integration, Agentic AI, and operational excellence.

### Consulting

- Strategy & Transformation
- Process Excellence
- Data Governance
- Operating Model Design

### Technology

- Process Intelligence
- Data Platforms
- Integration & Automation
- Modern Data Standards

### AI & Agents

- Copilot Solutions
- Agentic AI
- MCP-enabled Architectures
- Intelligent Workflow Automation

Presenter: Eugenius Otte | Founder XPLAI & Principal Consultant Enosym



[linkedin.com/in/eugenius20](https://www.linkedin.com/in/eugenius20)

## Supply Chain Reality - Complexity is increasing faster than visibility

Organizations have more data than ever before, yet many still lack end-to-end visibility.



## Why Data Standards Matter- The foundation of digital supply chains

Without common standards, every integration becomes a custom project.



**Standards create a common business language**

examples:

SCSN | PEPPOL | GS1 | EPCIS | EDI | Industry APIs

## The Hidden Challenge - **Technology is rarely the problem**

You can connect systems perfectly and still not trust the information they exchange.



### What we see in practice:

- Multiple sources of truth
- Inconsistent definitions
- Poor master data quality
- Fragmented ownership
- Legacy process variations
- Supplier adoption issues

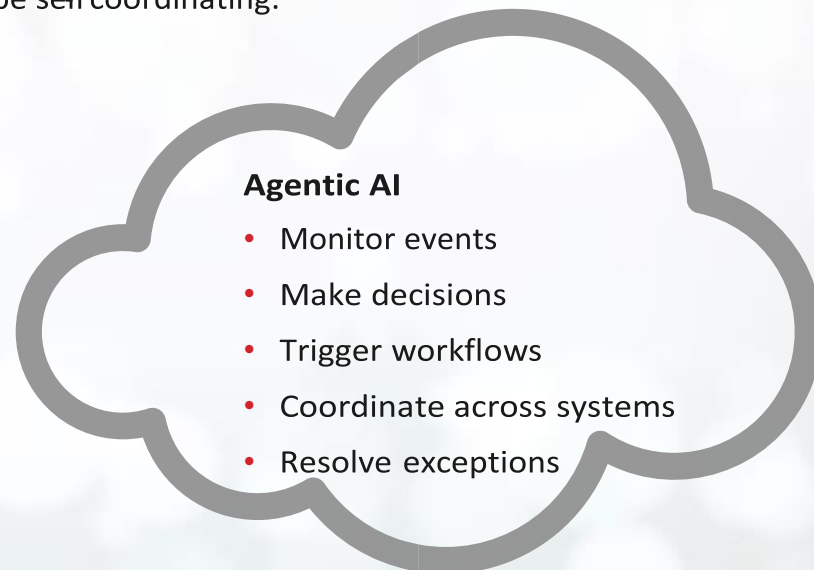
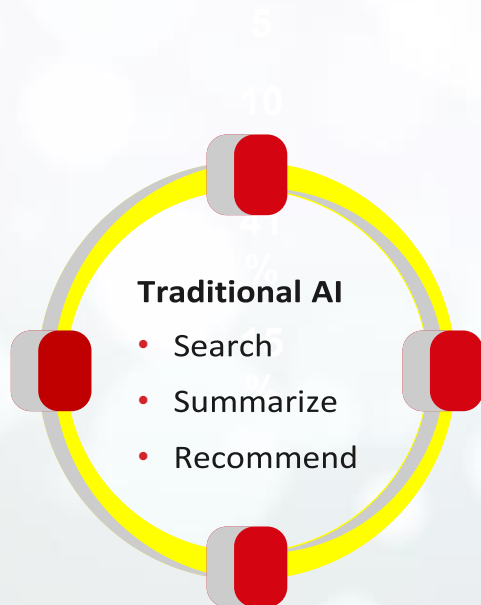
## The Journey from Connectivity to Autonomy- Supply Chain Digital Maturity

Most organizations focus on levels 1 and 2, the real value starts at levels 3, 4 and 5.

| Level   | Capability   | Question                         |
|---------|--------------|----------------------------------|
| Level 1 | Connected    | Can we exchange information?     |
| Level 2 | Standardized | Do we share a common meaning?    |
| Level 3 | Visible      | Can we see what is happening?    |
| Level 4 | Intelligent  | Can we predict what will happen? |
| Level 5 | Autonomous   | Can AI coordinate actions?       |

## Why Agentic AI Changes the Game- From answering questions to executing work

The future supply chain will not merely be visible, it will be self coordinating.



## Agentic AI Requires Trusted Data - **AI amplifies data quality**

Agentic AI is only as good as the data ecosystem it operates in.

### If data is fragmented

AI agents spend their time:

- Searching
- Reconciling
- Validating
- Escalating



### If data is standardized

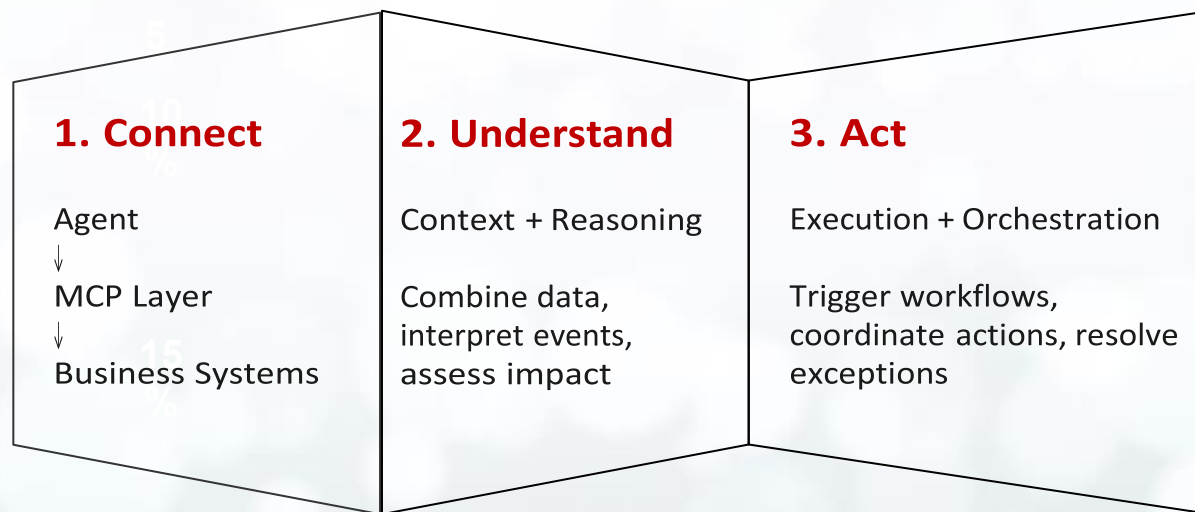
AI agents can:

- Detect issues
- Analyze impact
- Recommend actions
- Execute workflows



## MCP: The Missing Layer- **Connecting AI agents to enterprise systems**

Model Context Protocol (MCP) provides a standardized mechanism for AI agents to access business systems, tools and data sources.

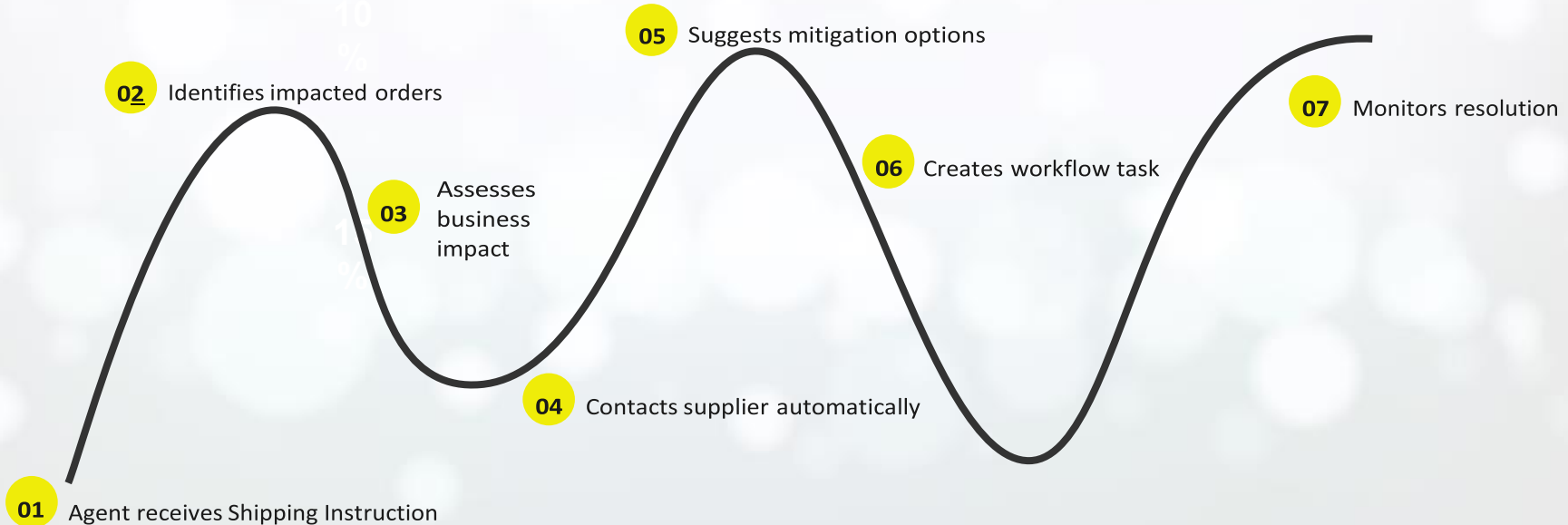


MCP enables one agent to interact with business systems (SAP, Dynamics 365, Salesforce, WMS, TMS, EDI Platform, Supplier Portals etc.) through a consistent interface.

## Future-State Supply Chain Example- **Exception Management**

Exception Management without Manual Coordination; Human role: Approve, govern and supervise, Agent role: Analyze, coordinate and execute.

**Scenario: Supplier shipment delay detected**  
**Agent workflow**



## Practical Roadmap- How to Turn Strategy into Reality

A phased approach to building the trusted data, governance and visibility foundations required for AI-powered supply chain operations.

### 1. Standardize foundational data

- Product identifiers
- Partner identifiers
- Transaction standards
- Data owners
- Data stewards
- Shared definitions

### 2. Strengthen data governance

### 3. Create end-to-end visibility

- Event monitoring
- Exception tracking
- Cross-enterprise dashboards

### 4. Introduce AI copilots

- Human-in-the-loop support
- Insight generation
- Decision assistance

### 5. Deploy AI agents

- Automated coordination
- Workflow orchestration
- Autonomous exception management

## Common Pitfalls – Lessons from transformation program

Common pitfalls that prevent organizations from realizing the full value of data, automation and AI investments.



TRANSFORMATION  
FAILURES ARE  
RARELY CAUSED BY  
TECHNOLOGY — THEY  
STEM FROM  
INSUFFICIENT  
OWNERSHIP, WEAK  
GOVERNANCE, POOR DATA  
QUALITY, AND LOW  
ADOPTION.

- ✗ Treating EDI/API/MCP projects as an IT project
- ✗ Automating poor processes
  
- ✗ Ignoring master data
- ✗ No ownership of data standards
- ✗ Focusing on connectivity instead of outcomes
- ✗ Implementing AI before establishing trusted data
- ✗ Lack of business ownership and executive sponsorship
- ✗ Poor change management and user adoption
- ✗ Building AI agents without clear governance and guardrails

## Key Takeaways - Standards → Visibility → Intelligence → Autonomy

The winners will not be the organizations with the most AI. They will be the organizations with the most trusted and standardized data enabling AI to act.

### 1. Standards create trust

Without common data, visibility remains fragmented.

### 2. Visibility creates intelligence

You cannot optimize what you cannot see.

### 3. Intelligence enables autonomy

Agentic AI depends on trusted, standardized information