BSR

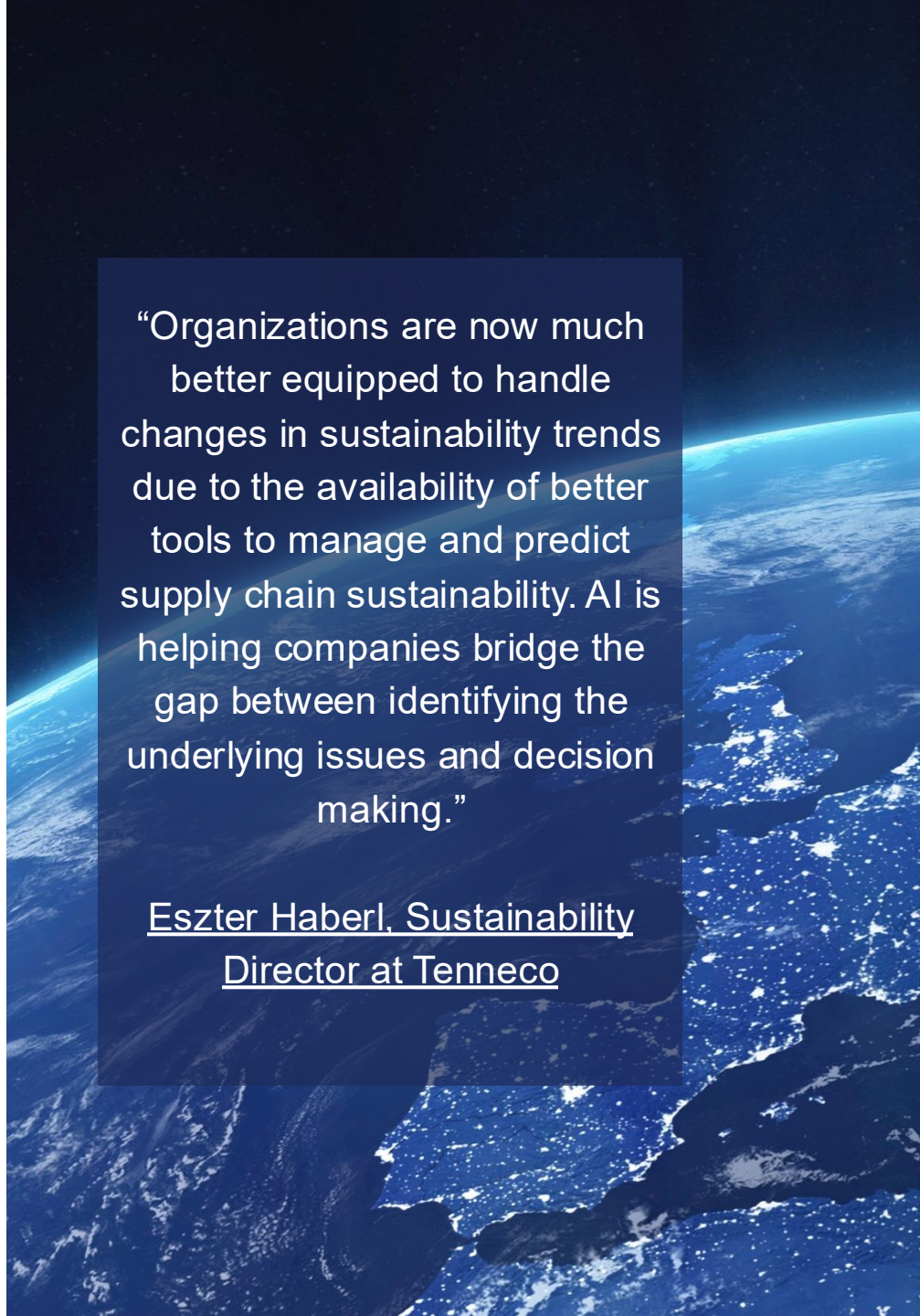
Supply Chain Risk Management Tools and Platforms

November 2025

Supply Chain Sustainability Tools are Widely Embraced and Driving Resilience

- Supply chains have only grown more complex due to turbulent and tense geopolitics and disruptions from increasing extreme weather events and labor disputes.
- In the 2020s, supply chain and sustainability leaders have embraced technology **to map their supply chains, identify opportunities to implement efficiencies, and assess risks:**
  - According to the 2024 Gartner Sustainable Procurement Pulse Survey, sustainable supply chain technology tools are **currently used by 70% of organizations, up from 54% according to the 2022 version of the same study.**

For companies who are prioritizing environmental and social impacts in their supply chain, the question is shifting from "should we use technology?" to **"how do we know what technology to use?"**



"Organizations are now much better equipped to handle changes in sustainability trends due to the availability of better tools to manage and predict supply chain sustainability. AI is helping companies bridge the gap between identifying the underlying issues and decision making."

Eszter Haberl, Sustainability Director at Tenneco

Companies Are Implementing Technology to Manage Their Supply Chains

Supply chain platforms are designed to provide value in a variety of ways. Some of the most important benefits and use cases include:

Increased transparency and supply chain visibility

Improved risk management and supplier relations

Enhanced regulatory compliance

Alignment of ESG and financial data

Reduction of manual work through standardized data collection

Platforms Enable Supplier Engagement in Different Ways to Provide Value Chain Insights

Platforms handle different issues, levels of granularity, and supplier engagement methods that might fit your company differently depending on its needs.

Carbon emissions and human rights are the most widely covered issues

Most relevant issues covered:

- Calculation and modeling Scope 1, 2, and 3 emissions
- Human rights and working Conditions
- Environmental data: water, waste, energy
- Lifecycle assessments
- Product environmental footprint, digital product passports
- Extended producer responsibility

Different platforms provide varying degrees of detail for information

Platforms deliver insights that might include:

- Traceability maps: transactions, shipments, certifications
- Emission mapping by supplier and product
- Tier-N visibility: raw material to end product
- Visibility of owner, location, product

Platforms use different tools to engage suppliers

Common supplier engagement tools include:

- Supplier portal
- Supplier onboarding and trainings
- Multi-lingual support
- Supplier success teams

Supply Chain Risk Management Platforms Are Increasingly Leveraged

The scope of this research covers representative tools for **risk management** in the supply chain. Although not exhaustive, the research aims to provide an overview of some commonly used platforms.

Risk Management Platforms Can Perform Multiple Functions

The risk management platforms evaluated can be classified into categories depending on your company's objective. Most platforms can perform multiple functions.

Environmental Data and Performance

Calculate Scope 1, 2, and 3 **emissions data**. Some platforms may also calculate data regarding **waste, water, energy, and more**.

Regulatory Compliance

Strong focus on **compliance with international standards and regulations** such as CSRD and CSDDD.

Risk Intelligence

Provide thorough risk assessments on labor and human rights through tools that include **real-time monitoring** and **predictive analysis**.

Risk Management Platforms Can Address Specific Issues

Some of the platforms evaluated can also tackle specific supply chain issues or might help provide greater insight into our supply chain.

Granularity

Platforms that provide the most detail on the company's supply chain, down to product, location, or shipment level.

Assent Real depth. Sustainable growth.
EiQ by LRQA
Prewave
Sedex
trustrace

Circularity Support

Platforms that provide circularity support through tools such as LCA or PEF.

SAP
sphera
trustrace

Forced Labor Support

Platforms that provide the biggest focus on forced labor and human rights issues.

Assent Real depth. Sustainable growth.
ecovadis
EiQ by LRQA
Prewave
trustrace

Different Tools Enable Industry-Specific Analysis

While several tools work across various sectors and are considered “industry-agnostic”, others specialize in specific, more complex, sectors.

coupa | ecovadis | EiQ by LRQA | SAP | Sedex

Industry Agnostic

Assent — Real depth. Sustainable growth.

- Medical Devices
- Electronics
- Industrial Equipment
- Automotive
- Aerospace & Defense

Prewave

- Automotive
- Manufacturing
- Energy & Utilities

sphera

- Chemicals & Life Sciences
- Consumer Services & Technology
- Industrials & Manufacturing
- Oil & Gas
- Hazardous Materials
- Financial Services

trustrace

- Fashion
- Footwear
- Textile

Tools Draw Data from Various Sources

The most common data sources include:

Supplier-reported data/documentation

Third-party databases

Public information and media

In addition to the above, other sources include:

- **Spend data**
- **Third-party sustainability scores**
- **Certifications**
- **Own databases**
- **Emission factors**
- **Audits**
- **LCA databases**

Data Verification Differs Across Tools

The most common data verification methods include:

AI screening/monitoring

Documentation review

Use of third-party databases

In addition to the above, other methods include:

Assent — Real depth. Sustainable growth.

AI declaration review

coupa

Supplier assessments

ecovadis

Analyst verification

EiQ by LRQA, Sedex

Audits

sphera

Plausibility checks

Analytics and Insights Come in Many Forms

The most common analytics and insights provided by supply chain tools include:

Dashboards

Scorecards

Other insights include:

Assent, trustrace

Automated monitoring

Assent, Sedex

Trend analysis

EiQ by LRQA, SAP, sphera

Real-time analysis

Prewave

Predictive analysis

SAP, sphera

Scenario modeling

sphera

Forecasting

sphera

Gap assessments

Tools Can Integrate with Internal Platforms and Systems

Supply chain risk platforms can most commonly integrate with:

Procurement Platforms

ERP Systems

Other integrations include:

Assent Real depth. Sustainable growth. trustrace

PLM software

SAP

Own ecosystem

Sedex

Reporting tools

Collaborations between tools include:

coupa ecovadis

coupa Sedex

Prewave SAP

SAP Sedex

Tools Enable Regulatory and Stakeholder Compliance

Platforms are mostly built for compliance or alignment with the following standards and frameworks:

- CSRD
- CSDDD
- GRI
- LkSG

Other common frameworks include:

Assent, Prewave, SAP	Assent, trustrace	Sedex, sphera	Prewave, SAP
EUDR	REACH	CDP	CBAM

Data from These Tools Help Integrate Sustainability into Procurement

Incorporating into decision-making

- **Include risk information in sourcing workflows** (e.g., category strategies, PO creation, and supplier onboarding) with flags triggering extra due diligence
- **Segment suppliers by risk** with calibrated buyer actions and supplier requirements (e.g., for a CAP)
- **Tie requirements to commercial opportunities** (e.g., mandatory minimum requirements to get a contract)
- **Factor financial risks into sourcing decisions**, including risk costs (e.g., potential disruption, non-compliance penalties) into total cost of ownership

Tools and systems

- **Supplier sustainability ratings and networks** (e.g., EcoVadis, Sedex)
- **Procurement system risk layers** (e.g., SAP Ariba Supplier Risk, Coupa)
- **Mapping and traceability efforts along value chain** (e.g., TrusTrace, Sourcemap)
- **Continuous and predictive risk monitoring** (e.g., Prewave, Interors, Everstream Analytics)
- **Disclosure and supplier engagement programs** (e.g., CDP Supply Chain)
- **Pre-competitive initiatives** for industries and commodities (e.g., Cascale, amfori BSCI, AIM-Progress, Responsible Business Alliance, RSPO, Bonsucro)
- **Responsible contracting tools** (e.g., RCP Toolkits) to share sustainability-related risks and responsibilities with suppliers

Consider Your Needs and Your Suppliers' Needs Before Choosing a Risk Management Tool

Before choosing a risk management supply chain tool, consider the following:

No universal tool

- No tool presents a universal solution for tracking sustainability and risk management topics and integrating them into procurement. It may be necessary to use a combination of tools to address different issues. Consider what your company's needs and priorities are when choosing a tool: What topics are of main concern? What level of detail is wanted?

Industry-specific needs

- While some platforms can be used across multiple industries (Coupa, SAP), others are specifically designed for certain type of industries (Prewave, TrusTrace).

Supplier-centric decision-making

- Supplier-centric decision-making is important when choosing risk management tools. Open communication is necessary to assess how broadly these tools are already being used, your suppliers' experience, and what feedback they might have. Other factors such as cost and supplier fatigue are also important to consider.

Supply Chain Sustainability Technology Ties into Dimensions of BSR's Value Chain Leadership Ladder

BSR reviewed commonly used supply chain sustainability tools, captured themes in functionality and application, and explored how they can strengthen value chain and/or supply chain sustainability.

Internal Dimensions Practices that are under a company's direct control				**External Dimensions** Approaches to enabling suppliers' sustainability and influencing industry and stakeholders to drive change			
Knowledge and Understanding	**Strategies and Processes**	**Commercial Terms and Buying Practices**	**Governance and Management**	**Partner Engagement**	**Worker and Community Engagement**	**Collaboration**	**Reporting**
• Most platforms reviewed focus on supply chain mapping and risk identification. • Dashboards that visualize overall risk and reach of supply chains is foundational for all platforms. • Users of some platforms receive alerts tied to specific risks.	• All platforms build on insights with actions through guidance, corrective action plans, and templates for communications with suppliers. • All tools seek to comply with current regulatory expectations.	• Most platforms provide risk assessments and corrective action plans, but do not directly address commercial terms or buying practices.	• All platforms gather key data on supplier performance that informs management. • The platforms' primary objectives were to create value through risk reduction with fewer also aiming for cost savings and improved compliance.	• Most tools provide suppliers with multi-lingual resources, capture self-assessments, and provide onboarding tools to facilitate disclosure. • Corrective action plans allow suppliers to make improvements.	• While most tools address social risks (e.g., forced or child labor, health and safety), only few seek worker feedback. These platforms are more broadly focused on risk.	• Few actively encourage or drive collaboration across customers, though buyers may find that suppliers are more responsive if their other buyers use the same platform for data collection.	• Most tools are aligned with major reporting standards and frameworks to comply with regulations.

Thank You

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