



November 2024

Resources Panorama

Overview of **data management** tools **for natural resources and materials recovery.**

Focused on CSRD environmental themes through **ESRS** E1 (focus on **physical risks**), E3 (**aquatic** and **marine** resources), E4 (**biodiversity** and **ecosystems**) and E5 (resource use and **circular economy**).

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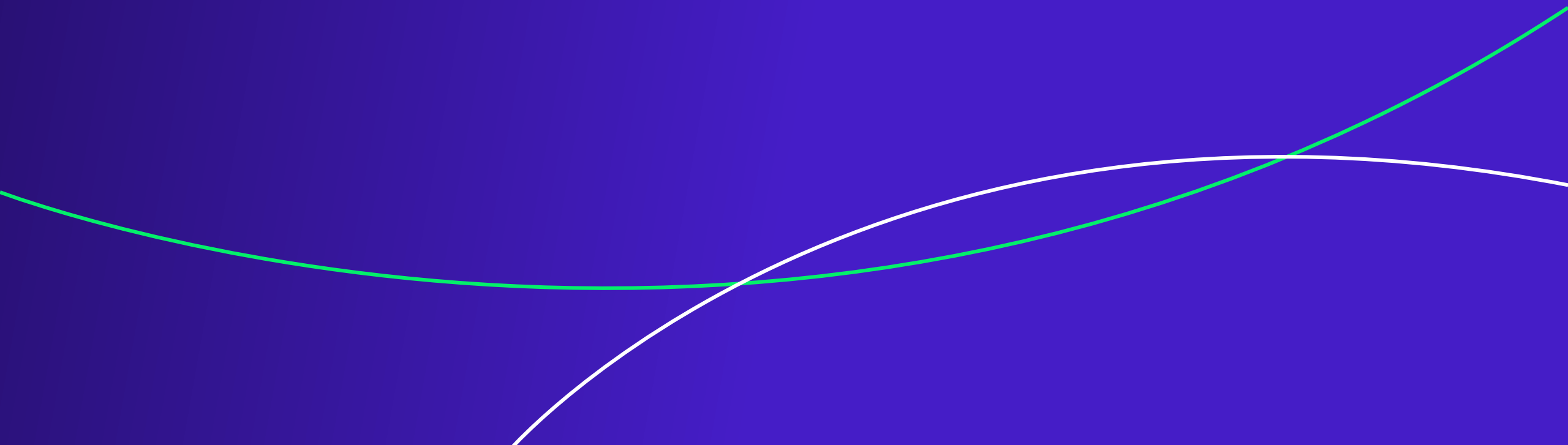
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01. Introduction





Foreword

In the face of growing regulatory requirements (e.g. CSRD*) and the proliferation of tools for measuring the impacts and risks associated with environmental issues, this overview is designed to help our customers **understand the ecosystem and navigate the range of tools available.**

Companies today face crucial challenges in assessing and managing their environmental impacts and risks. They have to respond to **growing regulatory pressures**, such as the **CSRD***, the **Green Taxonomy** or even **Pillar 3 ESG** and **Solvency 2** (for the banking and insurance sectors), as well as to the increasingly demanding expectations of **investors** and other stakeholders. These pressures can have major consequences on their activities: transforming the business model to respect **planetary limits** or improving traceability and control of the supply chain are just some of the challenges that all economic players must now face.

In response to these challenges, a number of **tools** are emerging to help companies **manage their sustainable performance** and draw up transition plans. First and foremost, there are **generalist ESG reporting tools** that address all themes. There are also a number of specialized **carbon reporting**

tools. These two types of tools **are not included in** the present radar, but are the subject of forthcoming Wavestone publications.

This radar therefore focuses exclusively on the themes of natural resources and material recovery, which represent a relatively **less mature** field of ESG analysis on the market. Numerous solutions are being developed to help companies gain better control of their environmental data, whether this relates to their own activities or to their value chain. These solutions adopt different positioning, methodologies, levels of accuracy and data coverage, as well as functionalities.

In the face of this proliferation, the present panorama aims to provide an **insight into the environmental data market** by offering a **structured analysis** of the various solutions available. It covers **BtoB tools** (applications, scorings, software, etc.) **used to assess risks and/or impacts** in the fields of **climate change (physical risks only, excluding carbon), biodiversity, water resources** and the **circular economy**. The scope is **international**.

Our methodology

On the basis of documentary research (using Wavestone's Research & Knowledge Center and additional research) and *through* exchanges with tool providers, we have listed around a hundred solutions, according to 4 analytical axes responding to the analysis framework and requirements of the CSRD:



THEMES (ESRS)

The topics covered are aligned with **4 of the 5** CSRD environmental **standards** (ESRS – European Sustainability Reporting Standards).



APPROACHES

The tools can either assess the company's **impact** on natural resources, or the **risks** associated with natural resources for companies, or both, or even focus specifically on product **traceability** from an environmental point of view.



SCOPES

These tools can be applied in a variety of ways. They can collect/provide data at the level of a **product**, a **site** (offices, factories, power plants) or a company's **value chain** (suppliers and origin of materials).



SECTORS

Each tool has been analyzed in terms of its ability to address **multi/ cross-sectoral** issues, or to deal with **problems specific to certain sectors** (e.g. financial or industrial).



The results

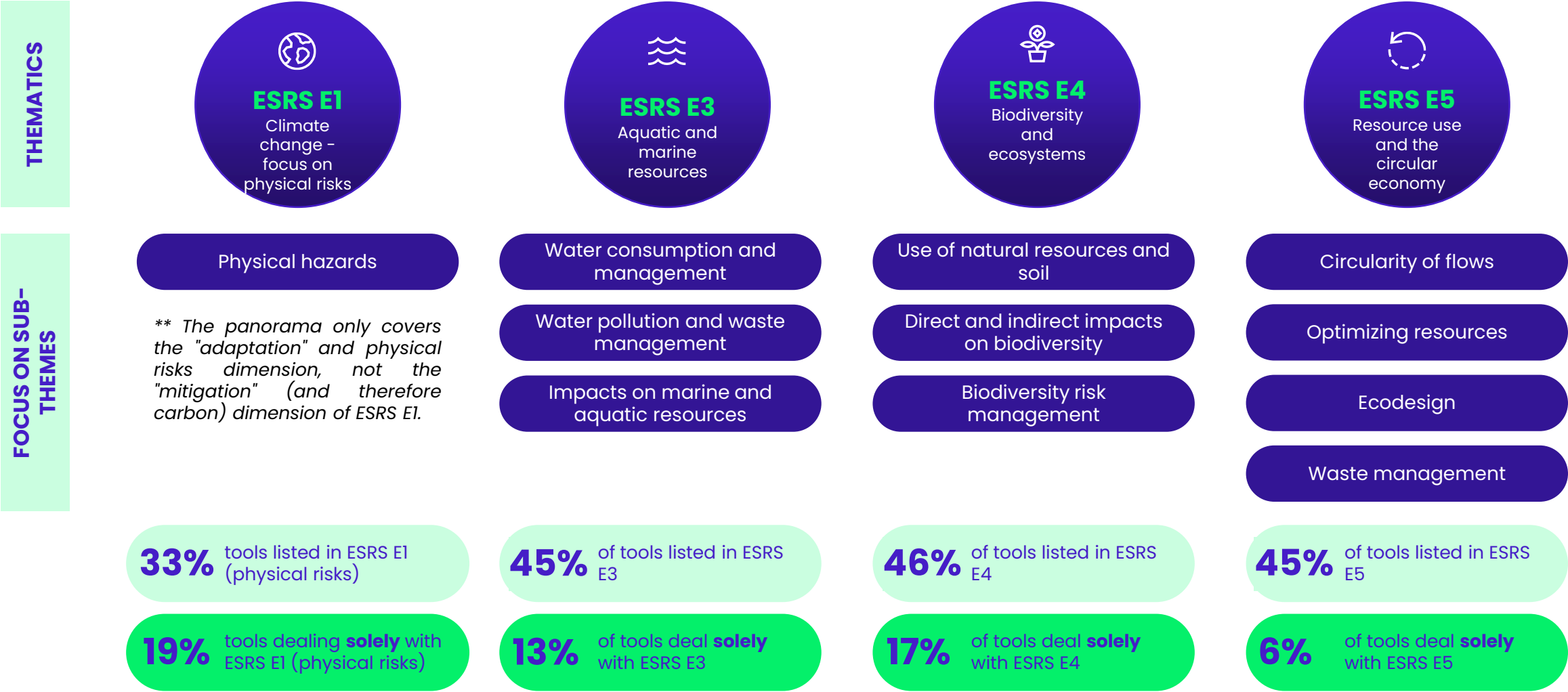
> **100**
Listed tools

> **17**
Detailed tool
sheets

THEMATICS analysis axis

The radar focuses on 4/5 CSRD environmental ESRS*.

The figures presented are specific to the study carried out and to the 100 tools listed on this radar. They do not reflect the current market as a whole.



*ESRS E2, which focuses on more specific tools and a smaller market, was not explored in this first edition.



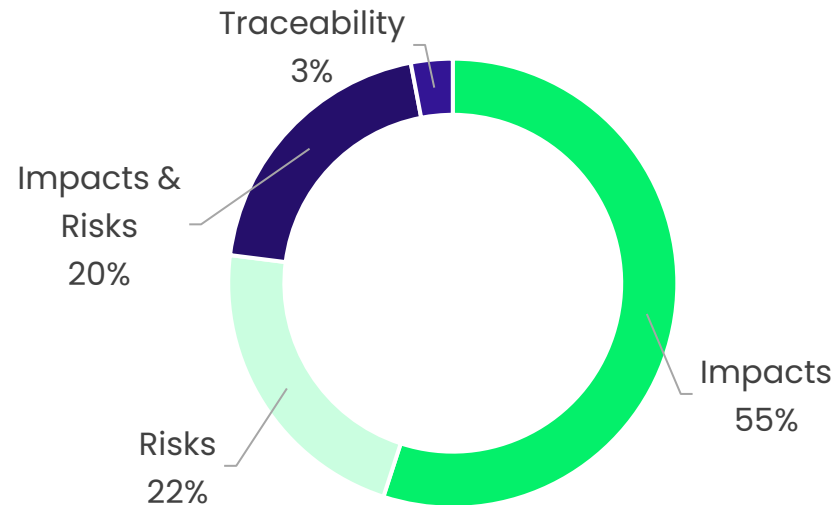
Analysis of APPROACHES and SCOPES

Breakdown of tools listed (among the 100 studied)

The figures presented are specific to the study carried out and to the 100 tools listed on this radar. They do not reflect the current market as a whole.

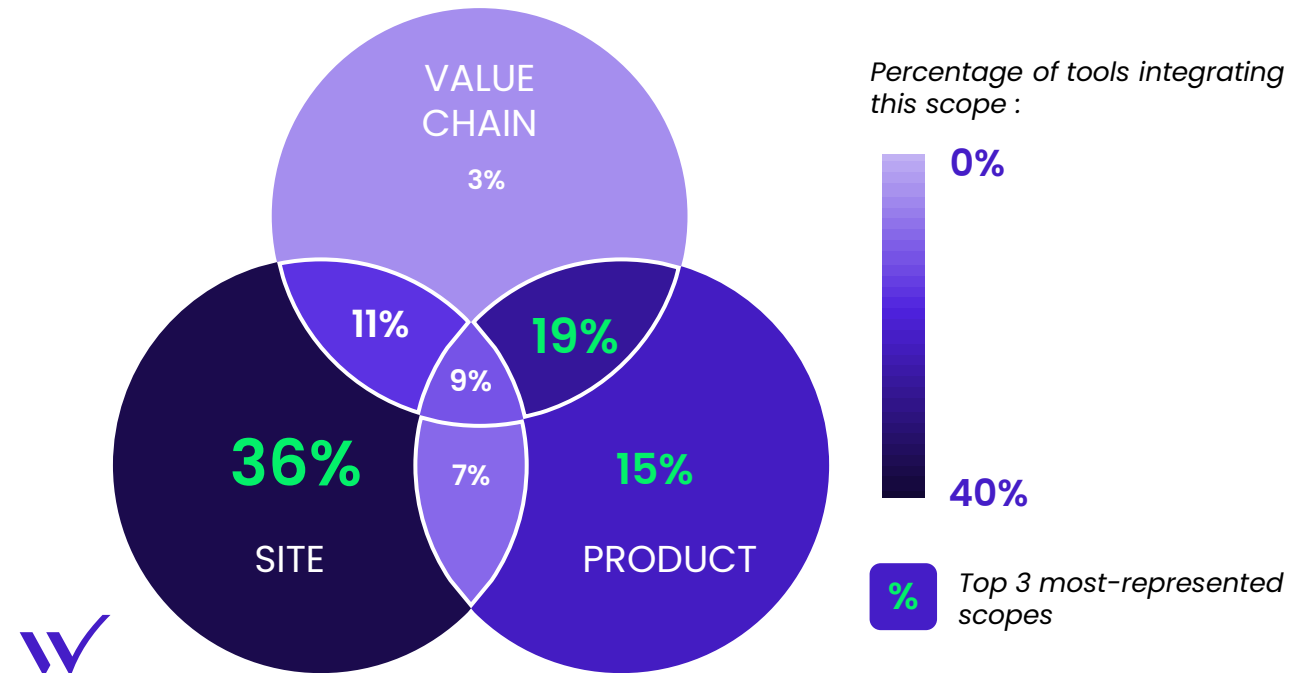
APPROACHES

The tools can either assess the company's **impact** on natural resources, or the **risks** associated with natural resources for companies, or **both**, or even focus specifically on product **traceability** from an environmental point of view.



SCOPES

Tools can collect / propose data at **product**, **site** (offices, factories, power plants) or **value chain** (suppliers and origin of materials) level.



SECTORS analysis axis

Breakdown of tools listed (among the 100 surveyed)

The figures presented are specific to the study carried out and to the 100 tools listed on this radar. They do not reflect the current market as a whole.

SECTORS

43%

of the tools listed are suitable for **all business sectors**



14%

of the tools listed cover **the banking, insurance and financial services sectors** in particular



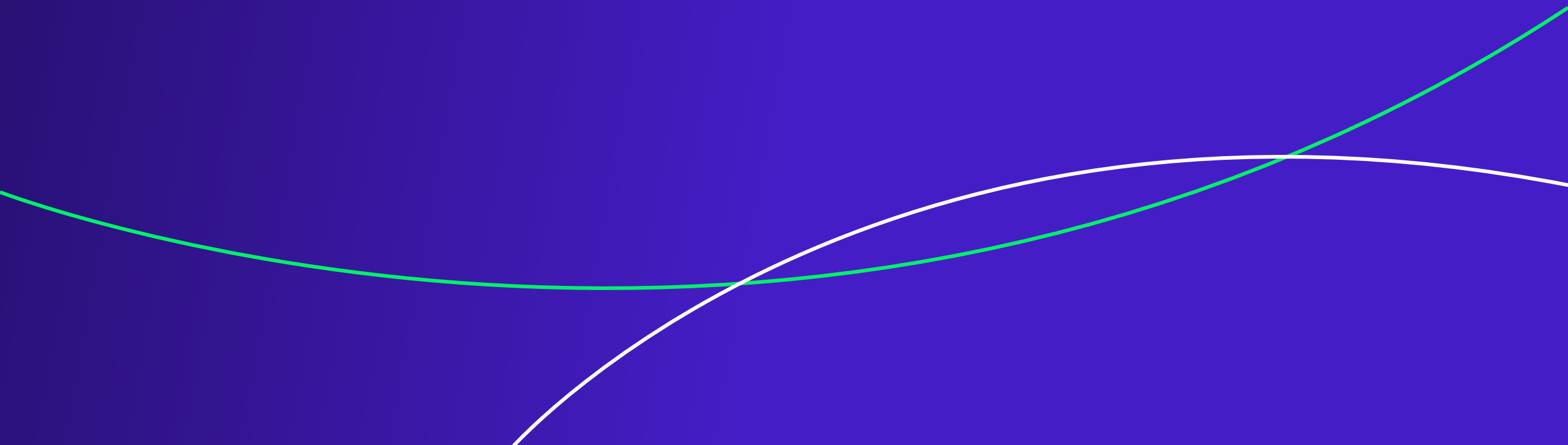
8%

of the tools listed cover **the industrial and production sectors** in particular



**Please note that this breakdown is based on available online documentation and may contain some biases.*

02. Presentation





The trends identified

Tool multiplication

Since 2015, there has been a sharp increase in the number of tools for measuring impacts and risks on natural resources. This increase is directly linked to a need to strengthen companies' sustainable performance management.

Transforming tools to integrate new regulations

Faced with growing customer demand for compliance, some tools are adapting and aligning themselves with new environmental regulations such as the CSRD or ISO standards, to facilitate data reporting and commitments.

Specialized tools for dedicated sectors

Tools for measuring resource impacts and risks are increasingly choosing to specialize in a particular sector of activity (financial, industrial or agricultural sectors, for example) in order to target certain emerging needs in specific fields.

Adoption of new technologies in tools

The tools employ cross-methodologies and increasingly use Artificial Intelligence to aggregate data and perform complex calculations to obtain more accurate results.

Coexistence of public players, rating agencies, start-ups, IT publishers and large sector-based companies (energy, insurance, etc.) – everyone is getting involved, and we're anticipating mergers / leadership takeovers, leadership issues and even sovereignty issues.

by **WAVESTONE**



Focus on 17 tools

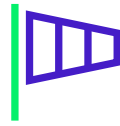
Following analysis of the 100 tools listed, 17 tools were selected for detailed fact sheets. This selection was based on the following criteria:



FEATURES



The selected tools are representative of different functionalities (one or more depending on the tool): data acquisition and retrieval, data production, data calculation, data analysis.



THEMATIC SCOPE



The tools were selected to be representative of the radar's various themes.



SECTOR COVERAGE



All sectors were covered, but particular attention was paid to the financial and industrial sectors.



VISIBILITY



The tools selected benefit from a certain amount of media coverage (press, trade shows, etc.) and have references with companies of similar size and in similar sectors to those of our customers.

This selection does not represent a recommendation on the part of Wavestone, but is intended to illustrate the different types of tools encountered, and to enable you to identify the **right combination of tools** to meet your needs (theme addressed, data precision, etc.). Particular attention is paid to describing the type of **methodology** used, the **certifications** obtained, the type of **data** used and the **granularity of** the results.



Matrix of the 17 selected tools, according to the 4 radar analysis axes

SCOPES

- ★ Product
- Website
- ∞ Value chain

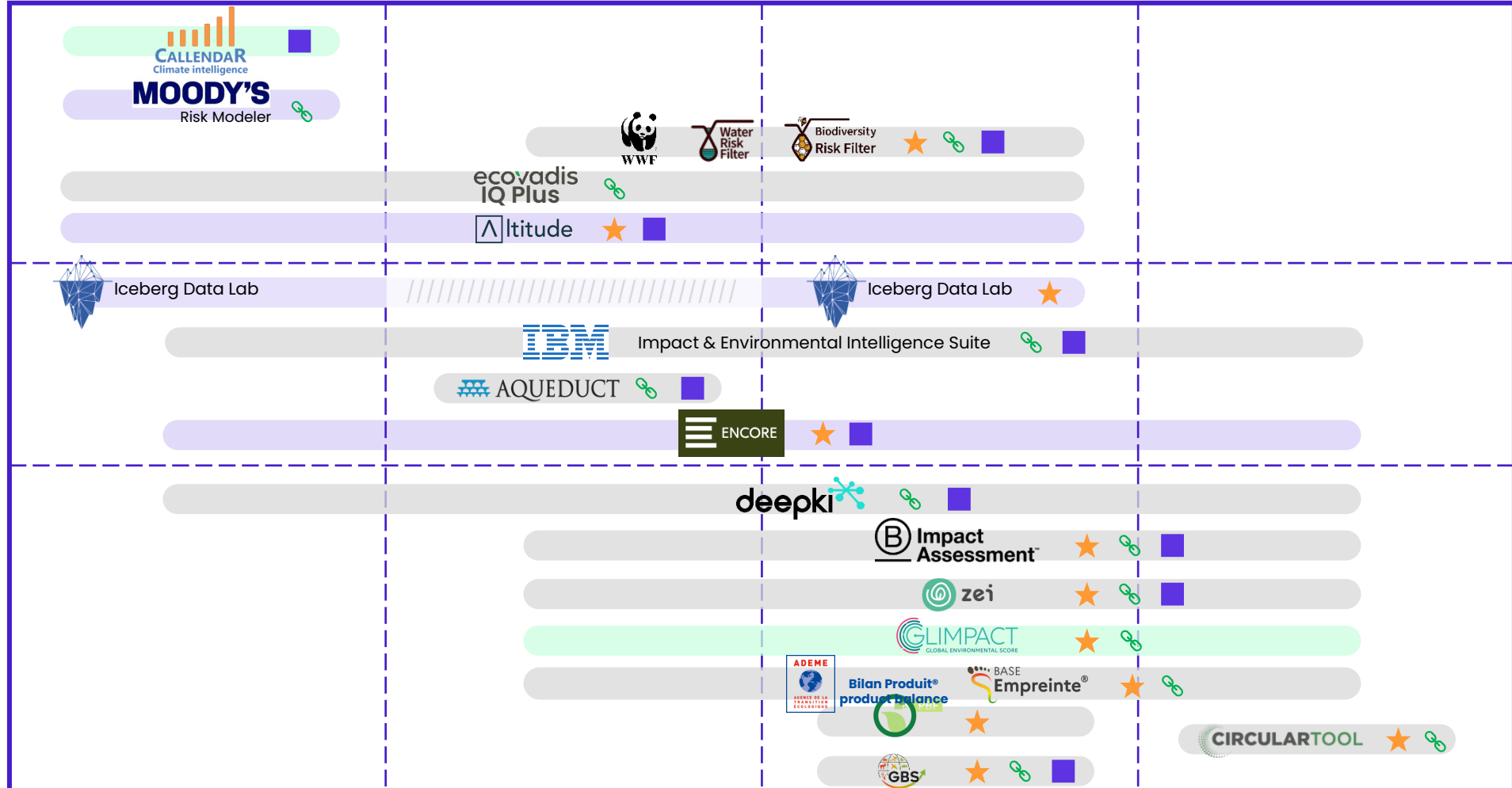
SECTORS

- All sectors
- Financial sector
- Industry

Risks

Impacts & Risks

Impacts



E1 - Climate change (physical risks only)

E3 - Aquatic and marine resources

E4 - Biodiversity and ecosystems

E5 - Use of resources and circular economy

ESRS

Approach
Themes

Two main recommendations for tool selection



Building bridges with the double materiality exercise

- The choice of a tool is closely linked to the results of a **double materiality** analysis (see **CSRD** approach).
- This analysis enables us to identify the main environmental issues that need to be addressed by the company, both from a **thematic point of view** (materiality of issues) and in terms of **scope** (are the impacts material to the company's own activities, and/or upstream/downstream of its value chain?)
- The results of the double materiality analysis should therefore be used to **prioritize the themes and topics to be addressed/investigated**.
- Dual materiality analysis can also reveal uncertainties and a lack of precise knowledge of said impacts / risks and opportunities, requiring the use of tools to **validate / invalidate hypotheses and assumptions**.



Tools to suit your needs

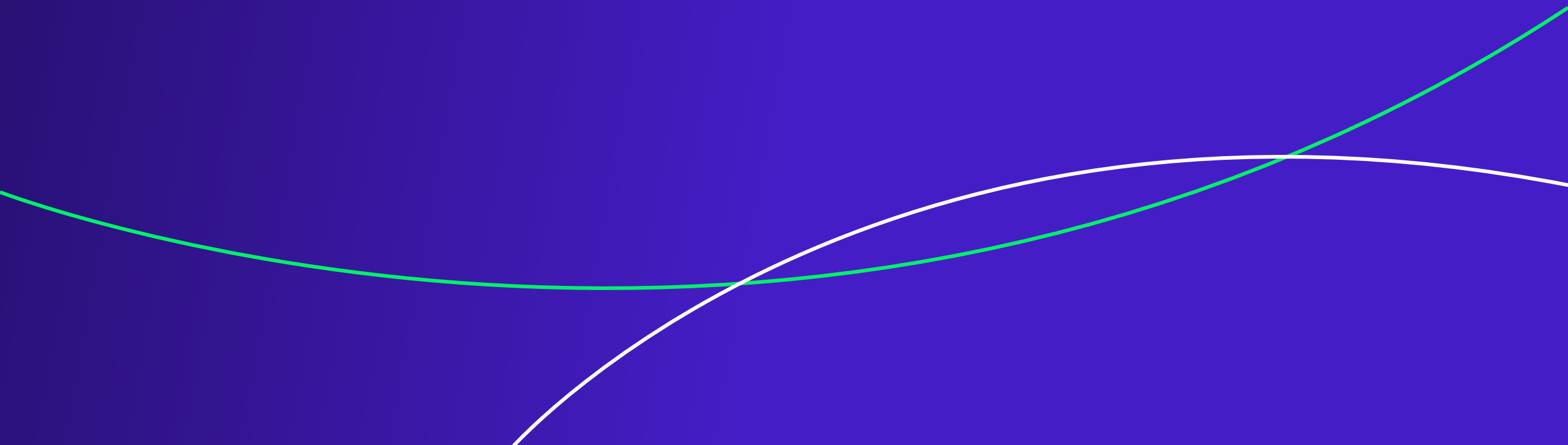
Our wide range of tools covers a broad spectrum of sustainable performance needs:

- **Evaluating companies:** extra-financial evaluation tools based on precise environmental criteria and positioned as decision-making aids for responsible investment.
- **Controlling specific impacts:** tools for analyzing and managing impacts relating to a defined environmental dimension (biodiversity, freshwater use, etc.).
- **Rethinking products and services to preserve resources:** eco-design tools for developing more sustainable products.

The choice must also take into account your company's **ESG data governance procedures**.



03. Tool sheets



Summary of the 17 selected tools



Sheets based on documentary research

Interview-based files



Altitude (Finance, Agriculture, Industry)

Software format | Author AXA Climate | Creation 2024 | ESRS themes E1, E3, E4 | Presence of a carbon/GES module
Risk approach | Scope Financial products, Site | Chargeable



Tool purpose: AXA Altitude is an ESG solution with versions adapted to different sectors (Finance, Agriculture, Industry). The Finance version provides risk assessment data for the due-diligence and holding phases, the Agriculture version supports sourcing and production strategies as well as resilience, and the Industry version assesses the risks associated with corporate sites.

Offer

- Indicators for measuring climate, water and biodiversity risks, adapted to each sector, site and product. Quantitative data
- Predictive scenarios.
- Strategic recommendations by type of risk.



Data

- Cross-referenced data (internal & external) :
- External data (historical climate data, projections from various models such as CMIP6 and ERA 5, etc.) to assess climate risks and simulate adaptation scenarios for agricultural crops.
- Internal customer data (data on local farm characteristics, soil typology, specific crops grown, etc.) to refine simulations and strategic recommendations tailored to each farm.



Methods

Modeling/Simulation.



Standards and regulations

Results comply with TCFD, SFDR, EU taxonomy and CSRD.



Target audience

Banking / Insurance / Financial Services, All company sizes, specific functions, international .

Users: Bonduelle Group, Accor Group, etc.



Ease of use

Quick-access tool with fast, easy-to-read results, directly on the platform by risk typology.



Reliability and precision

Tool developed by scientists in conjunction with AXA Climate.



Aqueduct

Software format | Author World Resources Institute (WRI) | Themes ESRS E3 | Absence of a carbon/GES module
Impacts & Risks Approach | Scope Site, Value Chain | Free of charge



Tool purpose: to assess water-related risks, including water scarcity, water quality and water management risks.

Offer

The tool maps current and future water-related risks according to location (colored gradation of risks). Users can select risks for analysis in terms of quantity or quality.



Data

- Non-customizable external data (fixed database, open data, trends, public data, etc.); adaptability of the tool according to the geographical area concerned.
- Aqueduct is developing a beta version so that users can import different addresses or specific contact details.



Methods

Modeling and simulation based on location and criteria of interest to the user.



Target audience

All sectors, all company sizes, international.
Users: Colgate Palmolive, CDP, Danone, Ecolab, Nestlé, P&G, Nissan Motor corporation.



Ease of use

Easy-to-use user interface, with gradation for easy visibility of risk areas.



Reliability and precision

Tool developed by the World Resources Institute, which integrates several databases with figures and maps.



B Impact Assessment (BIA)

Software format | Author **B Corporation** | Created 2007 | **ESRS themes E3, E4, E5 Waste management** | **No carbon/GES module** | **Impacts approach** | **Scope Product; Site; Value chain** | **Free** (paying option to go further)



Tool purpose: Evaluate social, societal and environmental performance according to international B Corp certification standards, in **5 impact areas: Governance, Employees, Community, Environment and Customers.**

Offer

The BIA is a tool for steering and measuring the impact of companies. It enables companies to assess their social, societal and environmental performance. BIA considers actions taken and results obtained, rather than future commitments. It aims to quantify the company's overall impact at a given point in time, thus facilitating comparisons with other companies of a similar size and in a similar business sector.

By delivering a score, the BIA enables us to compare ourselves with companies in the same sector and identify areas for improvement.



Data

Cross-referenced data (internal & external)

- Answers to questionnaires on comprehensive impact standards, actions taken and results achieved.



Methods

Evaluation of ESG criteria according to 5 main standards: governance, employees, community, environment and customers (online questionnaire).

Evaluation weighting.



Standards and regulations

This tool is used for B Corp.



Target audience

All company sizes, worldwide (varied accessibility thanks to free tool)

Users: B Corp certification customers (Patagonia, Danone, Chloé etc.)



Ease of use

Free online tool. Subscription based on annual sales for more in-depth analysis.



Reliability and precision

Open source and confidential tool.

Tool for B Corp certification.



Bilan Produit® (Product Balance Sheet)

Format **Software** | Author **ADEME** | Creation **2011** | Thematics **ESRS E3, E4, E5** | Presence of **Carbon module /GES** | Approach **Impacts** | Scope **Product, Value Chain** | **Free of charge**

Tool purpose: To assess the environmental footprint of products, to help companies adopt eco-design practices.



Offer

Enables you to carry out a simplified LCA-A and quickly assess the environmental footprint of a product, process or service to be eco-designed or in the process of being eco-designed.

The Bilan **Produit**® is based on ADEME's Empreinte database.

Detailed environmental indicators by theme: GWP (equivalence), eutrophication, air acidification, use of fossil and nuclear resources, minerals and metals, land use, particulates, radiation, ozone...



Data

- Cross-referenced data (internal & external).
- Type and volume of data required for the tool to work effectively / adaptability of the tool.
- Qualitative vs. quantitative data.
- The complexity of filling in the information required.



Methods

Lifecycle analysis.



Standards and regulations

ISO 14040; ISO 14044



Target audience

All business sectors (e.g. textiles, furniture, electronics, food, etc.), all sizes, national scope (France).



Ease of use

Intuitive interface, easy to access and easily classified.



Reliability and precision

Public but nationally recognized database.



Circular Tool

Format **Software** | Author **MATREC** | Creation **2022** | Themes **ESRS E5 Eco-conception** | **Absence of a carbon/GES module**
Impacts approach | **Product Scope**; **Value Chain** | **Chargeable**



Tool purpose: Circular Tool helps companies measure the circularity of their products and find new alternatives in the use of more environmentally-friendly materials.

Offer

Circular Tool analyzes a product's circularity in order to optimize its design and reduce its environmental footprint.

The tool offers circular performance scores for products such as :

- Performance indicators ;
- Comparisons with industry averages ;
- Material circularity score /100.



Data

- Non-customizable external data (fixed database, open data, trends, public data, etc.).
- Internal data to be supplied: materials used in design, product life cycle and resources consumed in production.



Methods

Circularity is measured through KPIs characterizing the environmental aspects of the materials used, and taking into account reusability, reparability and end-of-life possibilities.



Standards and regulations

Aligned with ESPR (Ecodesign for Sustainable Products Regulation) and ISO standards.



Reliability and precision

Tool validated by Bureau Veritas - Rigorous approach in line with certification standards.



Deepki

Format **SaaS software** | Author **Deepki** | Created **2014** | **ESRS themes E1, E3, E4, E5 Waste management** | Presence of a **carbon/GES module** | **Impacts approach** | **Scope Site; Value chain** | **Chargeable**



Tool purpose : Deepki has developed an ESG platform offering a comprehensive solution for real estate players. This is based on the use of their data to support them in their net zero transition. Deepki handles data collection and reporting, as well as defining ESG (Environmental, Social and Governance) strategies and implementing decarbonization trajectories.

Offer

Deepki provides property owners, users and occupiers with a range of solutions:

- Data collection: harvesting data from energy suppliers, availability of data and energy bills, ESG rating of buildings;
- Insight: data analysis, evolution curves and mapping, as well as a tool for understanding the risk exposure of each building (data cross-referencing with public databases);
- ESG reporting and compliance: compliance with regulations and various annual real estate reports, and visibility on the timing of deliverables;
- Action: proposals for carbon trajectories and typical actions to be taken, depending on the buildings and their consumption levels, in order to define long-term impact reduction targets.



Data

- Deepki only targets the real estate sector;
- Deepki uses actual or estimated (if required) site and plant data, such as energy bills via suppliers to define impact, with different emissions factors depending on site locations, and a varying degree of automation depending on geography;
- Electricity/water data is added via invoices, while waste data can be entered manually and returned in a new format by the tool.



Methods

- ESG criteria evaluation; Benchmarking; Risk analysis.
- Use of Artificial Intelligence to aggregate data and perform calculations.



Standards and regulations

Compliance with SRI, GRESB, Bcorp, ISO 27001 and ISO 14064-1, and ISAE 3000 Type 1 standards



Target audience

All company sizes (in France and abroad). Deepki is a solution for both investors and occupants.

Users: Generali, El Corte Inglés, BNP Paribas...



Ease of use

Deepki is a SaaS solution, providing customers with rapid access to results once the data has been collected.

Adapt the tool for international use (languages, multi-measurements, multi-currencies, etc.).



Exploring Natural Capital Opportunities, Risks and Exposure (ENCORE)



Software format | Author Natural Capital Finance Alliance | Created 2014 | ESRS themes E1, E3, E4, E5 resource optimization and waste management | No carbon/GES module and waste management | Absence of a carbon/GES module | Impacts & Risks approach | Scope Financial products (portfolio) & Site | Free Subscription

Tool purpose: Guided/sectoral database that helps organizations measure their exposure to nature-related risks and take the first steps towards understanding their dependencies and impacts on nature.

Offer

Biodiversity **risk modeling** for financial institutions (species extinction reduction potential, portfolio biodiversity impact risk with a score, etc.).

Risk **mapping** to explore the dependent zones and impact zones of its activity.



Data

- Customer data input.
- Numerous databases available to cover the various risks.



Methods

Risk definition based on environmental impact and dependence on biodiversity.



Standards and regulations

TNFD; Kuming-Montreal Global Biodiversity Framework; IUCN Ecosystem Typology Framework



Target audience

Banking / Insurance / Financial services; Agriculture and agri-food

All company sizes, international



Reliability and precision

Funded by the UN Environment Programme and sponsored by MAVA, Fondation pour la Nature



Global Biodiversity Score® (GBS)

Software format | Author Caisse des dépôts Biodiversité | Creation 2020 | ESRS E4 themes | Absence of a carbon/GES module
Impacts approach | Scope Product; Site; Value chain | Free version available



Tool purpose: to assess the biodiversity footprint of companies and investments

Offer

GBS offers a score that enables companies and financial institutions to measure their biodiversity footprint.

It also makes it possible to assess impact in MSA.km2, a single unit of measurement that describes the integrity of ecosystems and the surface area impacted by the customer's economic activities.



Data

Cross-referenced data (internal & external) :

- The tool mobilizes databases such as EXIOBASE and models such as the Global Biodiversity Model (GLOBIO).
- Customers are required to provide economic data by industry and country, emissions and consumption data (water, GHGs, etc.), and to complete specific questionnaires.



Methods

- Calculate the contribution of economic activity to pressures on biodiversity.
- Analysis of the impact of these pressures on biodiversity (MSA.km2).



Target audience

All sectors, all sizes, worldwide

Users: Picard, Nestlé Waters France, Schneider Electric, Engie, Hermès, Decathlon, etc.



Standards and regulations

Compliance with CSRD, TNFD, SBTN.



Glimpact

Software format | Author Glimpact | Created 2017 | ESRS Themes E3, E4, E5 Resource Optimization and Ecodesign | Presence of a carbon/GES module | Impacts Approach | Product Scope; Value Chain | Paid



Tool purpose: Glimpact uses the method scientifically recognized by the European Union to assess the environmental footprint of companies, and supports them in reducing it.

Offer

Glimpact offers four types of applications on its platform:

- Product environmental footprint and life-cycle impact analysis (overall score in μPt per functional unit or entity), comparison with other similar products.
- Ecodesign and product improvement proposal module (scenarios).
- Traceability and data collection module (supplier questionnaires).
- Reporting module, with a dynamic, customizable dashboard to visualize product evolution and impact.



Data

Several options for collecting supplier data: directly in the platform, via questionnaires, the traceability module or via API.

Cross-referencing of sector repositories (PEFCR) with customer data and a secondary database consisting of the European Commission database (Life Cycle Data Network), supplemented by specific data from other databases (ecoinvent, agribalyse, agri-footprint, etc.) where necessary.



Methods

Glimpact follows the methodological framework of the PEF/OEF methods defined by the European Commission (taking into account the various components of the environmental crisis (16 environmental impact categories covered)).



Standards and regulations

Compliance of the tool with PEF & OEF methods, and compliance with the European CSRD and SPR framework.



Target audience

All company sizes, with a French, European and international framework

Users: Lacoste, Decathlon, Salomon, European Commission, Lafuma, Millet, etc.



Ease of use

The user can use the tool independently, accessing the platform where results are readily available and communicable, and accessing areas for improvement while playing with the criteria.



Reliability and precision

Glimpact follows the PEF/OEF method, the only reference methodological framework adopted by the EU in the ESPR eco-design regulation and the CSRD directive.



Iceberg Data Lab

Software format | Author Iceberg Data Lab | Creation 2019 | ESRS themes E1, E4 | Absence of a carbon/GES module
Impacts and Risks Approach | Scope Financial Product | Chargeable



**Iceberg
Data Lab**

Enabling Sustainable Goals

Tool purpose: Tool for calculating and measuring the environmental impact of financial institutions and their portfolios
Given the lack of ESG analysis in the financial sector, Iceberg Data Lab was founded to define climate and environmental impacts and risks.

Offer

Iceberg Data Lab offers various assessment and compliance solutions:

- Biodiversity: identifying the footprint on biodiversity, calculating the rate of dependence on the ecosystem, calculating the positive contribution and the nuisance avoided.
- Climate: calculation of carbon footprint, identification of physical and environmental risks.
- Regulations: compliance with current regulations (environmental, industrial standards, etc.).



Data

- Use of financial data provided by customers to analyze impacts, as well as geographical data.
- Cross-referencing of data with an internal database, built up through sector benchmarking and the development of emission factors for portfolios and environmental pressures (gas, water, etc.).



Methods

Creation of an Artificial Intelligence model to aggregate and analyze data provided by customers (top-down: using financial data to establish impact).



Standards and regulations

Compliance of the tool with CSRD, AI trained to follow CSRD recommendations (compliance thanks to an evaluation score from 0 to 100).

Willingness to evolve towards greater compliance.



Target audience

All sizes of company and international; mainly for companies in the banking sector.

Users: AXA Investment Managers, Groupama Asset Management, BNP Paribas Asset Management, Amundi Asset Management, GBL, etc.



Ease of use

Platform available to customers, where they can create their own widgets and portfolio, easily integrate their own data (Excel), and quickly access results and evaluations.

Possibility of plugging into internal programs for greater integration.



IBM Impact & Environmental Intelligence Suite

Software format | Author IBM | ESRS themes E1, E3, E4, E5 Circularity of flows, Resource optimization and Waste management | Presence of a carbon/GES module | Impacts & Risks approach | Scope Site; Value chain | Free trial and subscription on request



Tool purpose: IBM Impact & Environmental Intelligence Suite enables companies to anticipate climate risks and manage environmental impacts in real time, promoting greater resilience and reducing the carbon footprint of their operations.

Offer

- The tool uses artificial intelligence and geospatial data to map climatic and environmental risks to infrastructures.
- Automatic alerts on weather and climate conditions in real time, to anticipate disruptions.
- The tool assesses the specific risks of each site, taking into account potential climatic impacts (flooding, fire, etc.).
- Monitoring climate performance and carbon emissions at sites



Data

- Cross-referencing of customer data (site locations and usage) with external databases including geospatial, meteorological and industrial information.
- Combining proprietary and third-party data, such as IBM weather data and geospatial analytics, for in-depth insights and continuous monitoring



Methods

Artificial Intelligence and Predictive Modeling: Specific methodology using AI to analyze data in real time, detect climatic anomalies and predict impacts on operations.



Target audience

All types of companies, in all sectors, internationally
Users: Shell, Aeromexico etc.



Reliability and precision

A tool recognized and adopted by many IBM customers for its accuracy in analyzing environmental data and its reliability in monitoring risks in real time.



IQ Plus

Software format | Author EcoVadis | Created 2007 | ESRS themes E1, E3, E4 | No carbon/GES module
Risk approach | Value chain scope | Chargeable

ecovadis

Tool purpose: CSR risk management solution designed to help meet compliance requirements and implement the company's Responsible Purchasing strategy

Offer

Profiles and maps of ethical, social and environmental risks throughout the supply chain, taking into account the risks inherent in the company's sector of activity, country and CSR data. (4 themes: environment, social & human rights, ethics, purchasing and 21 sub-themes).

And level of compliance with regulations.



Data

External data: global database on CSR performance and risks (over 250,000 assessments);

Risk data by sector and country ;

Internal data: documents retrieved without soliciting suppliers via data mining and AI verification (DocScan); ISO certifications, codes of conduct, human rights charters, etc. ;

Supplier information, expenses and criticality. (Additional Vitals module: simplified supplier questionnaire).



Methods

Risk analysis using a questionnaire similar to the Ecovadis questionnaire.



Standards and regulations

French duty of care law, German LkSG law, European due diligence directive, directive on the publication of sustainability information by companies, modern slavery laws.



Target audience

All sizes of company and all international sectors.
Target function: Responsible purchasing.

Users: Johnson&Johnson, Nestlé, LVMH, Henkel, L'Oréal, AirFranceKLM Group, ING, etc.



Ease of use

- Integration with other tools: EcoVadis Ratings
- Speed
- Risk assessment without soliciting suppliers



Reliability and precision

Reliable data from over 250,000 assessments.



MOODY'S Risk Modeler 2.0

Software format | Author **MOODY'S** | Created 1990 | Themes **ESRS E1** | No carbon/GES module
Risk approach | Value chain scope | Chargeable

MOODY'S

Tool purpose: This cloud-based software platform provides comprehensive risk modeling across regions and perils, helping companies to better understand and anticipate environmental and climate risks to their operations.

Offer

- Advanced modeling of natural disaster risks and site threats, enabling proactive risk management.
- Predictive scenarios based on climatic, health and geographical data to anticipate future impacts.
- Integration of physical risk indicators (climate, health, natural disasters) with detailed mapping for clear visualization



Data

- Customer data processing cross-referenced with an internal database via artificial intelligence and the cloud, facilitating location analysis.
- Data is shared and exchanged across the value chain, with fast and efficient processing thanks to the integration of the cloud into the tool.



Methods

Risk analysis based on IPCC data, with risk exposure and financial impact validated by Moody's partners from the insurance industry.



Standards and regulations

Based on the RDOS (Risk Data Open Standard) developed by Moody's and insurance companies, in conjunction with North American environmental standards.



Target audience

International insurance companies of all sizes.
Users: over 300 international customers



Ease of use

- The tool features Moody's pre-developed, cloud-integrated risk models and an intuitive user interface for easy navigation between data and scenarios.
- Modular solution, enabling users to adapt models to their specific needs (e.g. climate risk management, public health, etc.).



Product Biodiversity Footprint (PBF)

Format | Author **Quantis International** | Created **2015** | **ESRS E4** themes | **No carbon/GES module** | **Impacts approach** **Guided method** with database | **Product Scope** | **Free tool** with paying options



Tool purpose: The PBF tool aims to enable companies to calculate the biodiversity footprint of their products by assessing the impacts on biodiversity across the entire production chain. It provides detailed quantitative and qualitative indicators and impact maps.

Offer

- Biodiversity indicators, including quantitative indicators (such as the potential disappearance of species by product or by region) and qualitative indicators, including scores on the five pressures on biodiversity.
- Impact mapping to better visualize the footprint of products on biodiversity.
- The tool uses databases and modules to assess the impact of practices and materials at the local e



Data

- Cross-referencing of internal and external data, with adaptability according to business sector.
- The user can integrate local data specific to the product, practices or materials used.
- Use of biodiversity databases such as IUCN, Predicts, etc., to refine assessments



Methods

Calculation of environmental footprint based on a life-cycle approach (LCA), taking into account impacts on biodiversity at every stage of production



Standards and regulations

Compliance with ISO 14040; ISO 14044 standards



Target audience

Companies in all sectors, of all sizes, and all over the world

Users: Kering, Avril, L'Oréal



Ease of use

Integration with the LCA database, enabling quick and easy assessment of the biodiversity footprint via a seamless user interface



Reliability and precision

Tool developed with the support of the French Ministry of the Environment, Ecology and the Sea and ADEME, guaranteeing the accuracy and scientific validity of the results.



WWF Risk Filter Suite (biodiversity and water risk filters)

Software format | Author WWF | Creation 2023 | ESRS themes E3, E4 | No carbon/GES module

Risk approach | Scope Financial product; Site; Value chain | Free of charge



Tool purpose: The tool helps companies and investors to identify, assess and manage environmental risks related to biodiversity and water in their supply chains and operations. The aim is to promote more sustainable management of natural resources and minimize environmental impacts through mapping, analysis and predictive risk scenario tools.

Offer

- Two modules (Biodiversity Risk Filter and Water Risk Filter) to help map and analyze biodiversity and water risks.
- These tools are based on global data and enable sites to be located and classified according to their exposure to various risks.
- The tool provides physical and climatic risk scenarios enabling companies to anticipate and mitigate these risks in their supply chains and operations.



Data

Cross-referenced data includes:

- the geographical location of operating sites,
- industrial classification
- the economic importance of each site.

These data are integrated with WWF's external databases to provide a detailed risk analysis.



Methods

Risk analysis based on geographical locations and vulnerability criteria to help prioritize actions in the areas most at risk.



Standards and regulations

Alignment with standards: TNFD; TCFD; SBTN; GRI (Global reporting initiative); ISSB; Kuming-Montreal Global Biodiversity Framework, ESRS



Target audience

Companies in all sectors, of all sizes, and all over the world

Users: Tesco, H&M Group, Accor



Ease of use

Free, open-access online tool with interactive dashboard.



Zeï

Software format | Author Zeï (Greentech startup) | Created 2016 | ESRS themes E3, E4, E5 Waste management | No carbon/GES module | Impacts approach | Scope Product; Site; Value chain | Chargeable



Tool purpose: The tool harmonizes ESG indicators and benchmarks, providing a coherent, standardized overview of your performance. It allows you to compare your results with those of other companies in your sector, helping you to identify concrete avenues for environmental and social improvement.

Offer

- Zeï is a digital platform that helps companies measure and improve their ESG performance.
- The tool identifies the main CSR challenges linked to natural resource management, waste reduction and optimizing the use of raw materials.
- Track progress and simplify communication with automated reporting functions



Data

- The tool centralizes internal data (on natural resource management, waste management, etc.) and combines it with external data from databases to enable in-depth analysis.
- The data collected concerns specific indicators such as water consumption, waste management, use of energy resources and impact on biodiversity.



Methods

Adaptation of ESG indicators to company needs and comparison with the performance of other companies in the same sector via questionnaires and benchmarks.



Standards and regulations

CSRD; EU Taxonomy; SFRD
Ecovadis B2B, ISO 26000 label



Target audience

All types of companies, in all sectors, internationally.
Users: BPI France, Maif, Remy Cointreau, Chopard, Orpi, etc.

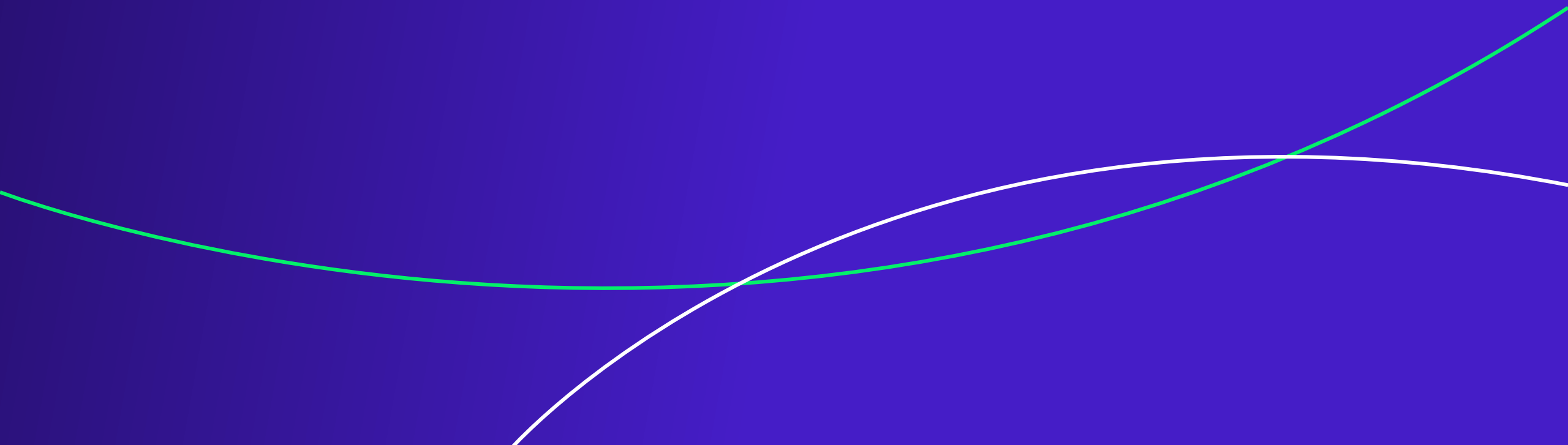


Ease of use






Data collection is automated thanks to AI, and ESG reports are generated automatically to comply with regulatory standards (CSRD).



04. List of tools














2 TO 4 ESRS concerned

IMPACTS	Tool name	ESRS	Scope	Sectors
	 Food Pilot	ESRS E1; ESRS E5	Product; Value Chain	Agriculture and Food
	 MSCI Impact Solutions (ESG Sustainable Impact Metrics)	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Financial product; Site	Banking / Insurance / Financial services
	 Deepki Ready	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Product; Site; Value chain	Real estate sector
	 act21 CSR software	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Site; Value Chain	All
	 GoodWill Digital	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Financial product; Site; Value chain	All
	 Axionable	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Website	All
	 Wiix (Water Impact Index)	ESRS E3; ESRS E5	Website	Environment / Water / Energy / Waste; Industry / Manufacturing; Public sector
	 Engie Impact	ESRS E3; ESRS E5	Website	All
	 Environmental Accounting Software Sphera	ESRS E3; ESRS E5	Product; Value chain	All
	 LCA Automation Software Sphera	ESRS E3; ESRS E4; ESRS E5	Product; Value chain	All
	 SimaPro	ESRS E3; ESRS E4; ESRS E5	Product; Value chain	All
	 OpenLCA	ESRS E3; ESRS E4; ESRS E5	Product; Value chain	All



2 TO 4 ESRS concerned

IMPACTS	Tool name	ESRS	Scope	Sectors
	 One Click LCA design, construction & manufacturing	ESRS E3; ESRS E4; ESRS E5	Product; Value chain	Construction / Residential / Materials; Infrastructure sector; Real estate sector
	 Holis	ESRS E3; ESRS E4; ESRS E5	Product; Value chain	All
	 B Impact Assessment	ESRS E3; ESRS E4; ESRS E5	Product; Site; Value chain	All
	 Green BIM (Building Information Modelling)	ESRS E3; ESRS E4; ESRS E5	Product	Construction / Residential / Materials; Infrastructure sector
	 CSR rating (Ecovadis)	ESRS E3; ESRS E4; ESRS E5	Site; Value chain	All
	 EcoStruxure™ Resource Advisor	ESRS E3; ESRS E4; ESRS E5	Site; Value chain	All
	 Responsible Care self-diagnosis	ESRS E3; ESRS E4; ESRS E5	Website	Chemicals sector
	 Farmleap	ESRS E3; ESRS E4; ESRS E5	Product; Value Chain	Agriculture and Food
	 ClearFashion	ESRS E3; ESRS E4; ESRS E5	Product	Fashion / Textiles
	 Zeï	ESRS E3; ESRS E4; ESRS E5	Product; Site; Value chain	All
	 Glimpact	ESRS E3; ESRS E4; ESRS E5	Product; Value Chain	Industry / Manufacturing; Fashion / Textiles; Commercial sector; Public sector



2 TO 4 ESRS concerned

	Tool name	ESRS	Scope	Sectors
IMPACTS & RISKS	 Iceberg Data Lab	ESRS E1; ESRS E4	Financial income	All
	 S&P Global Sustainable 1	ESRS E1; ESRS E3; ESRS E4	Site; Value Chain	All
	 Enablon	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Product; Site; Value chain	Industry/Production; Environment/Water/Energy/Waste; Business and Consumer Services
	 Sustainability Cloud Solutions (Microsoft)	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Product; Site; Value chain	All
	 ENCORE	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Financial product; Site	Banking/Insurance/Financial services; Agriculture and food processing
	 Infrastructure Asset Assessment	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Financial income	Infrastructure sector; Banking / Insurance / Financial services
	 MSCI ESG Ratings	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Financial income	Banking / Insurance / Financial Services
	 IBM Impact & Environmental Intelligence Suite	ESRS E1; ESRS E3; ESRS E4; ESRS E5	Site; Value Chain	All
	 FieldApp	ESRS E3; ESRS E4; ESRS E5	Website	Agriculture and Food
	 Finres	ESRS E1; ESRS E3	Site; Value Chain	Banking/Insurance/Financial services; Agriculture and agri-food; Public sector
RISKS	 WWF Risk Filter Suite (Biodiversity and Water Risk Filters)	ESRS E3; ESRS E4	Financial product; Site; Value chain	All
	 ESG Risk Rating (ERR)	ESRS E3, ESRS E4, ESRS E5 2, ESRS E5 4	Website	All



ESRS E1 – Climate change

IMPACTS & RISKS	Tool name				ESRS	Scope	Sectors
RISKS		Altitude Finance			ESRS E1	Financial income	Banking / Insurance / Financial Services
		Altitude Agriculture			ESRS E1	Website	Agriculture and Food
		Forest fire risk prevention service			ESRS E1	Site; Value Chain	All
		EFAR (Ensemble face aux risques)			ESRS E1	Financial product; Site; Value chain	All
		FLOAT (Flood Assessment Tool)			ESRS E1	Website	Banking / Insurance / Financial services; Public sector; Industry / Manufacturing; Commercial sector
		Wildfire HD Edition			ESRS E1	Website	Banking/Insurance/Financial services; Real estate; Infrastructure sector; Public sector
		NamR Climate Risk Simulator			ESRS E1	Financial income	Banking / Insurance / Financial services; Real estate
		Resallience Lab – Predictive analysis and modeling of climate risks			ESRS E1	Financial product; Site	Banking / Insurance / Financial Services; Public Sector; Industry / Manufacturing; Infrastructure Sector
		Climada			ESRS E1	Site; Value chain	Banking / Insurance / Financial services; Public sector
		Climate Risk Platform (ECLR)			ESRS E1	Website	All
		IQ Plus			ESRS E1	Value chain	All
		Climate Change Solution			ESRS E1	Product; Site; Value chain	All



ESRS E1 – Climate change

RISKS	Tool name	ESRS	Scope	Sectors
	 ClimaDiag Enterprise	ESRS E1	Site; Value chain	All
	 ClimaDiag Commune	ESRS E1	Website	Public Sector
	 Clim'Ability (Climability Diag, Climate Inspector)	ESRS E1	Website	Public Sector
	 ClimateVision Pro	ESRS E1	Website	Infrastructure sector; Transport/Logistics; Industry/Production; Public sector
	 Siradel	ESRS E1	Website	Industry / Manufacturing; Public sector
	 InfraClimat	ESRS E1	Website	Public sector; Infrastructure sector
	 MOODY'S Risk Modeler 2.0	ESRS E1	Value chain	Banking / Insurance / Financial Services
	 Earth Scan	ESRS E1	Financial product; Site	All



ESRS E3 – Water and marine resources

	Tool name	ESRS	Scope	Sectors
IMPACTS	 Leakmited Solutions	ESRS E3	Website	Banking / Insurance / Financial services
	Mission 90+	ESRS E3	Website	Public Sector
	 BNPE	ESRS E3	Website	Public Sector; Environment / Water / Energy / Waste
	 Blue Edge	ESRS E3	Website	Industry / Manufacturing; Environment / Water / Energy / Waste; Commercial sector; Public sector
	 AquaCrop	ESRS E3	Product; Site	Public Sector; Agriculture and Agrifoods
	OCEAN reference system	ESRS E3	Website	All
	 AquaData	ESRS E3	Website	All
IMPACTS & RISKS	 OpenFlows WaterGEMS	ESRS E3	Website	Industry / Manufacturing; Environment / Water / Energy / Waste; Public sector
	 Aqueduct	ESRS E3	Site; Value chain	All
	PrevizO	ESRS E3	Website	Public Sector
	 WEF Nexus Tools 2.0	ESRS E3	Website	All
	 Smart Water Navigator	ESRS E3	Website	All
	 GEMI® Local Water Tool™ (LWT)	ESRS E3	Website	Industry/Production; Environment/Water/Energy/Waste; Transport/Logistics; Chemicals sector
RISKS	 SBTN State of Nature Water Layers - Arcgis	ESRS E3	Website	All



ESRS E4 – Biodiversity

IMPACTS	Tool name	ESRS	Scope	Sectors
	 <u>Global Biodiversity Score® (GBS)</u>	ESRS E4	Product; Site; Value chain	All
	<u>Biodiversity Score</u>	ESRS E4	Website	All
	<u>Biodiversity Footprint Calculator</u>	ESRS E4	Product; Value chain	All
	<u>PEP–BiocCIA</u>	ESRS E4	Website	Public Sector
	<u>IArbre</u>	ESRS E4	Website	Public Sector
	<u>BFFI (Biodiversity Footprint for Financial Institutions)</u>	ESRS E4	Financial income	Banking / Insurance / Financial Services
	 <u>Bioscope (simplified version of BFFI)</u>	ESRS E4	Financial income	Banking / Insurance / Financial Services
	 <u>Product Biodiversity Footprint (PBF)</u>	ESRS E4	Product	All
	 <u>Simplified PBF</u>	ESRS E4	Product	All
	 <u>Environmental Review Tool & Biodiversity Dashboards</u>	ESRS E4	Website	Public Sector
	 <u>BIM (Biodiversity impact metric)</u>	ESRS E4	Value chain	All
	 <u>Biodiversity Indicator and Reporting System (BIRS)</u>	ESRS E4	Website	Construction / Residential / Materials
	 <u>BIEC (Biodiversity Indicator for Extractive Companies)</u>	ESRS E4	Website	Environment / Water / Energy / Waste
	 <u>STAR Metric (Species Threat Abatement and Recovery Metric)</u>	ESRS E4	Financial product; Site	Banking / Insurance / Financial services; Public sector













ESRS E4 – Biodiversity

IMPACTS & RISKS	Tool name		ESRS	Scope	Sectors
		<u>B-INTACT (Biodiversity Integrated Assessment and Computation Tool)</u>	ESRS E4	Financial income	Agriculture and agri-food; Environment / Water / Energy / Waste; Public sector; Banking / Insurance / Financial services
		<u>Biodiversity Navigator</u>	ESRS E4	Financial product; Value chain	Banking / Insurance / Financial Services
		<u>BeeOimpact</u>	ESRS E4	Website	Agriculture and Agribusiness; Real Estate; Environment / Water / Energy / Waste; Public Sector; Industry / Production
		<u>Corporate Biodiversity Platform</u>	ESRS E4	Website	All



ESRS E5 – Resource use and circular economy

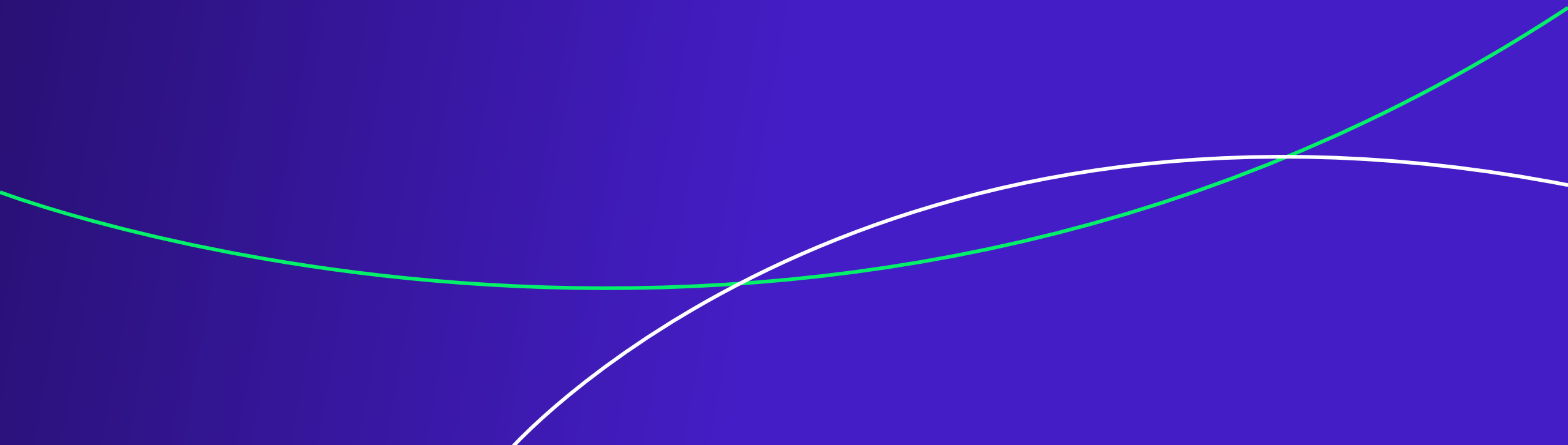
IMPACTS	Tool name	ESRS	Scope	Sectors
	 Circularity Assessment – UNI 11820	ESRS E5 1	Product; Value chain	All
	Circular assessment Tool	ESRS E5 1	Product	All
	 Up2Circ	ESRS E5 1	Product	Industry / Production; Commercial sector
	 Circular Tool	ESRS E5 3	Product; Value chain	All
	 Lixo	ESRS E5 4	Product; Value chain	Agriculture and Food
	 Circularity Assessment Tool	ESRS E5 1, ESRS E5 3	Product; Site	All
	 Ecoscale	ESRS E5 1, ESRS E5 3	Product	Construction / Residential / Materials
	Crystal Trace	ESRS E5 1, ESRS E5 3	Product; Value chain	All
	 SludgeAdvanced	ESRS E5 1, ESRS E5 4	Site; Value chain	Retail; Healthcare; Hotels / Restaurants / Tourism
	 Take a waste	ESRS E5 1, ESRS E5 4	Website	Agriculture and agri-food; Industry / Manufacturing; Public sector
	 SAP PLM	ESRS E5 1, ESRS E5 2, ESRS E5 3, ESRS E5 4	Product; Value chain	Industry / Manufacturing; Commercial sector; Transport / Logistics
	Ecobalyse	ESRS E5 2, ESRS E5 3	Product; Value chain	Fashion / Textile; Agriculture and agri-food
	 Product balance	ESRS E5 2, ESRS E5 3, ESRS E5 4	Product; Value chain	All

ESRS E5 – Resource use and circular economy

TRACABILITY	Tool name		ESRS	Scope	Sectors
	trace for good.	Trace For Good	ESRS E5 1	Product; Value chain	All
	CONNECTING € FOOD	Food Confidence Platform	ESRS E5 1	Site; Value chain	Public Sector; Environment / Water / Energy / Waste
		Bibak	ESRS E5 1	Product; Value chain	Hotels / Restaurants / Tourism; Industry / Manufacturing; Public sector



05. Conclusion



Tools meant to evolve

The tools presented are essential for navigating an ever-changing regulatory and economic environment, while contributing to a sustainable future. However, this radar represents a **snapshot of an ecosystem set to evolve rapidly**, due to the supranational/national regulatory and geopolitical context and the development of technologies and AI in particular.

Two main scenarios can be envisaged:

- Natural resource analysis tools could be **integrated** into more general solutions designed to provide a single, unifying and facilitating solution in response to regulatory requirements and companies' voluntary commitments on ESG issues. We can anticipate **closer ties between players**
- Tools will evolve **in a specialized** way in response to specific regulations (deforestation, water management, traceability) and precise market needs (e.g. development of eco-design).

In both cases, **the attention paid to the methodology used, the certifications and the degree of reliability and precision of the data proposed** appear to be essential for the rigor and relevance of the answers provided by companies to the challenges of transition.

