

Executive summary

In an era marked by unprecedented global challenges, the integration of environmental, social and governance (ESG) factors into business strategies emerges as a critical imperative. We explore the evolving landscape of ESG trends and highlight the pivotal role of technology solutions in addressing these challenges.

As companies navigate the complexities of ESG considerations, they face a multitude of emerging trends demanding attention and proactive responses. From climate change mitigation and social inclusivity to ethical governance and supply chain resilience, the spectrum of ESG issues presents risks and opportunities across industries.

However, amidst the challenges lies a transformative opportunity
under the convergence of ESG trends with technological innovation.

Technology solutions offer unparalleled capabilities to enhance

reas

ESG performance, from data management and analytics to transparency and reporting, risk management and compliance.

By harnessing the power of technology-enabled solutions, new

pathways to sustainable success can be unlocked. Advanced data analytics enable the derivation of actionable insights, identification of trends and informed decisions to improve ESG performance.

Real-time monitoring systems and predictive analytics empower businesses to mitigate risks, enable compliance, and safeguard reputation and financial performance. Technology also facilitates transparency and accountability, providing stakeholders with access

to real-time information on ESG initiatives and outcomes. Through online platforms, dashboards and reporting tools, companies can foster trust, enhance relationships and demonstrate leadership in

addressing ESG challenges.

In summary, we underscore the criticality of embracing technology in navigating the evolving landscape of ESG trends, unlocking new opportunities for sustainable growth, resilience and long-term success in an increasingly interconnected and socially conscious world.

Why now?

Understanding emerging ESG trends and related considerations has become vital for businesses. This is due to several interconnected reasons, including investor expectations, risk management, the regulatory environment and competitive advantage, as well as supply chain resilience, changing stakeholder expectations and long-term sustainability.



Increased standardisation

As ESG investing continues to gain traction, a push for more standardised reporting frameworks and metrics to assess ESG performance is likely, helping investors compare and evaluate companies more effectively.

Focus on social factors

With a growing recognition of the importance of social factors such as diversity and inclusion, employee welfare, and human rights, businesses will face increasing pressure to address these issues as part of their ESG strategies.



10 ESG trends shaping 2024's corporate dialogue

Driving effective sustainability

Technology and data analytics

The use of technology and data analytics to assess ESG factors will grow, including the use of AI and machine learning to analyse large datasets for ESG-related insights as well as the development of ESG fintech solutions.

Climate change adaptation and resilience



Stakeholder engagement

Companies are expected to engage more proactively with stakeholders, including investors, employees, customers and communities, understanding and incorporating ESG priorities into their strategies.



The increasing urgency of addressing climate change will drive greater focus on climate change adaptation and resilience strategies, including investments in renewable energy, sustainable infrastructure and measures to mitigate climate-related risks.



AI 🔀

Impact investing

impact alongside financial returns is expected to grow, including affordable housing, healthcare, education and

Supply chain transparency

Companies are under increasing pressure to ensure transparency and accountability throughout their supply chains, particularly concerning labour rights, of raw materials



Integration into investment strategies

ESG factors will become increasingly integrated into mainstream investment strategies, rather than being treated as niche, reflecting a growing recognition of the materiality of ESG issues to long-term fiscal performance

Continued evolution and innovation

As the landscape of ESG constantly evolves with new trends, technologies and approaches emerging over time, businesses will need to stay agile and adaptive to navigate these changes effectively.



Investor expectations have evolved significantly in recent years, and there is a growing emphasis on ESG factors in **investment decision making.** Institutional investors, including pension funds, asset managers and sovereign wealth funds, are increasingly integrating ESG criteria into their investment strategies. This shift is driven by recognition of the material impact of ESG issues on investment performance and risk management. Businesses demonstrating robust ESG performance are becoming attractive to investors seeking sustainable and responsible investment opportunities. These companies are seen as better positioned to navigate emerging environmental challenges such as climate change, as well as societal issues like diversity and inclusion. Strong governance practices also inspire confidence in the integrity and transparency of operations.

By aligning with investor expectations and demonstrating a commitment to ESG principles, businesses can enhance their financial resilience and long-term stability in an increasingly competitive and socially conscious investment landscape.

Companies with strong ESG credentials are more likely to attract investment as well as to secure favourable financing terms, including lower borrowing costs and access to a broader pool of capital. By aligning with investor expectations and demonstrating a commitment to ESG principles, businesses can enhance their financial resilience and long-term stability in an increasingly competitive and socially conscious investment landscape.

ESG issues represent substantial risks for businesses across various dimensions. Environmental risks such as those associated with climate change, resource depletion and pollution pose significant threats to businesses in terms of regulatory compliance, operational disruptions and potential liability costs. Social risks encompass a wide range of factors, including labour practices, human rights violations, community relations and product safety concerns. Failures in these areas can lead to reputational damage, consumer backlash, legal challenges and supply chain disruptions. Governance risks such as corruption, unethical behaviour and weak oversight structures can undermine trust in leadership, erode shareholder value, and result in regulatory fines and legal penalties.

By understanding and effectively managing ESG risks, long-term value and reputation can be safeguarded. Implementing robust risk management strategies involves identifying and assessing ESG risks across the organisation, integrating them into decision-making processes and implementing appropriate mitigation measures. Proactive risk management not only helps companies avoid potential financial losses and reputational harm; it also enhances resilience and fosters stakeholder trust and confidence. Ultimately, addressing ESG risks can improve overall business performance, sustainability and competitiveness in an increasingly complex and interconnected global landscape.

In response to growing ESG challenges, governments worldwide are enacting increasingly stringent regulations pertaining to ESG issues. These regulations span a wide range of areas, including emissions standards to combat climate change, practices to protect workers' rights and safety, supply chain transparency to ensure ethical sourcing, and corporate governance requirements to enhance accountability and transparency. Proactive monitoring of

regulatory developments to enable compliance and mitigate risks is vital, as is staying ahead of regulatory changes to avoid potential penalties, fines and legal liabilities arising from noncompliance. Furthermore, compliance with ESG regulations is essential for maintaining a company's licence to operate in various jurisdictions and industries as regulatory scrutiny intensifies.

Adapting to evolving regulatory requirements also presents opportunities to demonstrate leadership and innovation in sustainability and corporate responsibility. By embracing and exceeding regulatory standards, companies can enhance their reputation, attract environmentally and socially conscious consumers and gain a competitive advantage. Navigating the complex regulatory landscape surrounding ESG issues requires businesses to allocate resources to stay informed, adapt operations and implement robust compliance measures. Proactively addressing regulatory requirements mitigates risks and fosters stakeholder trust, strengthening long-term viability and resilience.

Embracing ESG principles can confer significant competitive advantage. By prioritising sustainability, social responsibility and ethical governance, companies can appeal to increasingly discerning consumers who value environmental and social consciousness in their purchasing decisions. A growing segment of environmentally and socially conscious consumers actively seeks out products and services from companies that align with their values, giving businesses that prioritise ESG principles a distinct edge. Cultivating a positive ESG reputation can bolster brand loyalty and enhance customer trust and loyalty, as consumers are more likely to support companies with transparent and responsible practices. Positive brand perception can translate into increased market share and customer retention in the long term.



A strong ESG focus can also attract top talent, as employees increasingly seek employers that demonstrate a commitment to social responsibility and ethical leadership. Companies prioritising ESG considerations are better positioned to attract and retain skilled and motivated employees, enhancing competitiveness and productivity. Fostering an ESG-oriented culture can spur innovation. Companies prioritising sustainability and ethical governance are often more agile and innovative in responding to emerging environmental and social challenges, driving operational efficiencies and product differentiation. Overall, integrating ESG principles into business practices not only aligns with consumer preferences and regulatory expectations but also confers competitive advantages, including enhanced brand reputation, customer loyalty, talent acquisition and innovation capabilities.

In our interconnected global economy, supply chain resilience is paramount, and ESG considerations play a crucial role in ensuring its robustness. Businesses are recognising that the practices of suppliers regarding environmental sustainability, working conditions and ethical standards can significantly affect their own reputation, brand image and financial performance. Environmental considerations within the supply chain include factors such as energy usage, waste management and carbon emissions. Poor environmental practices by suppliers can expose companies to reputational risks and regulatory scrutiny, especially in industries sensitive to environmental impacts.

Labour conditions, including issues such as fair wages, safe working conditions and human rights, are also critical ESG factors. Companies may face public backlash and legal repercussions if their suppliers engage in unethical labour practices such as child

labour or unsafe working conditions. Ethical standards encompass a broad range of factors, including business ethics, transparency and integrity. Companies must ensure suppliers adhere to ethical standards to avoid association with unethical behaviour that damages their reputation and brand value.

By understanding and addressing ESG risks within the supply chain, resilience can be enhanced, and disruptions mitigated. This involves conducting due diligence on supplies, implementing ESG criteria in supplier selection and evaluation processes, and fostering transparency and collaboration throughout the supply chain. Proactive management of ESG risks in the supply chain not only safeguards reputation and the bottom line; it also strengthens overall resilience in the face of evolving ESG challenges.



Meeting stakeholder expectations for responsible and sustainable practices in today's interconnected and socially conscious world has become imperative across industries.

Stakeholders encompass a diverse range of groups, including customers, employees, communities, investors and regulators, each with its own set of expectations and demands. Customers increasingly seek products and services from companies that demonstrate a commitment to environmental sustainability, ethical sourcing and social responsibility. They expect transparency about the environmental and social impacts of products and services, and efforts to minimise negative effects.

Employees are a critical stakeholder group with growing expectations of corporate responsibility, seeking employers that prioritise employee well-being, diversity and inclusion, and ethical business practices. Companies that foster positive work environments, uphold fair workplace practices and provide opportunities for professional development are more likely to attract and retain top talent. Communities where businesses operate also have expectations of corporate citizenship and social impact, expecting companies to contribute positively to local economies, support community development initiatives and engage in philanthropic activities.

In aligning with shareholder expectations and demonstrating responsible and sustainable practices, companies can build trust, enhance relationships and improve overall stakeholder engagement, contributing to long-term success and sustainability.

Regulators play a critical role in shaping stakeholder expectations through the enactment and enforcement of laws and regulations related to environmental protection, labour rights, consumer safety and corporate governance. Businesses are expected to comply with these regulations and demonstrate a commitment to responsible conduct. Meeting these diverse expectations is not only a moral imperative but also a strategic necessity. In aligning with shareholder expectations and demonstrating responsible and sustainable practices, companies can build trust, enhance relationships and improve overall stakeholder engagement, contributing to long-term success and sustainability.

The politicisation of ESG criteria has significantly impacted global dynamics, leading to a complex interplay of geographical challenges and political tensions. As ESG principles gain traction in investment decisions and corporate practices, governments and corporations alike are compelled to navigate a landscape where environmental sustainability, social responsibility and good governance intersect with political agendas. This intersection has resulted in diverse geographical challenges, ranging from regulatory disparities across jurisdictions to differing cultural perceptions of ESG priorities. The politicisation of ESG has fuelled geopolitical tensions, particularly between nations with conflicting interests



regarding environmental policies, human rights standards and corporate governance practices. These tensions often manifest in trade disputes, diplomatic strains and regulatory conflicts, further complicating efforts to achieve global consensus on ESG standards. The politicisation of ESG underscores the intricate relationship between sustainable development goals and geopolitical dynamics, highlighting the need for nuanced approaches to address these challenges locally and internationally.

Incorporating ESG considerations into business practices is essential for long-term sustainability and viability. Environmental challenges such as climate change, resource scarcity and pollution pose significant risks to business operations, supply chains and reputations. By addressing these challenges and implementing sustainable practices, businesses can reduce their environmental footprint, minimise risk and capitalise on emerging opportunities in the sustainability economy. Fostering social inclusivity and promoting diversity and equity within the workplace and broader community are also critical for long-term sustainability. Companies that prioritise social responsibility and contribute positively to social development initiatives can enhance their reputations, attract diverse talent and build stronger relationships with their customers and communities.

Addressing ESG considerations is not only a moral imperative but also a strategic imperative for companies seeking long-term sustainability and success.

Maintaining strong governance practices, including ethical leadership, transparent decision making and effective risk management, is essential for business integrity and accountability. Companies with robust governance structures are better equipped to navigate complex regulatory environments, mitigate risks and foster trust among stakeholders. Addressing ESG considerations is not only a moral imperative but also a strategic imperative for companies seeking long-term sustainability and success. Integrating ESG principles into their core business strategies and operations enables businesses to build resilience, foster innovation and create long-term value for shareholders, employees, customers and society as a whole.

Partnering — the ESG compliance ecosystem

It is increasingly critical for major business partners to work together to address ESG challenges and drive innovation. Major business partners often have significant resources, expertise and influence within their respective industries. By collaborating with partners and pooling resources and capabilities, companies can address complex ESG challenges on a scale that may not be achievable when going it alone. Collective action can lead to greater impact and more meaningful progress in areas such as climate change mitigation, social equity and responsible governance.

Collaboration on ESG initiatives can create shared value for all partners involved. By aligning interests and working towards common goals, business partners can identify opportunities to create value across supply chains, enhance competitiveness and drive sustainable growth. This collaborative approach also fosters long-term relationships based on mutual trust and shared objectives. ESG challenges pose significant risks to businesses and their stakeholders. Working together enables major business

partners to identify, assess and mitigate risks throughout their supply chains. Collaboration enables sharing of knowledge, best practices and insights, leading to more robust risk management strategies and improved resilience to ESG-related threats.

Collaboration can also stimulate innovation and creativity by bringing together diverse perspectives, experiences and expertise. By sharing ideas, experimenting with new approaches and co-developing solutions, partners can drive innovation across industries and accelerate the pace of change. Collaborative innovation can also lead to the development of breakthrough technologies and business models.

Technology — the critical enabler

As the frequency, scale, complexity and granularity of ESG disclosure and reporting increase, a proactive approach is required to address the technology solutions that enable these disclosures. This is particularly critical with the imminent introduction of Scope 4 (Investing) disclosure requirements.

Businesses manage extensive volumes of data relating to their operations, clientele and financial transactions, necessitating robust aggregation and management systems. Leveraging advanced technology solutions like data analytics platforms and big data processing tools enables effective gathering, processing and oversight of ESG-related data from diverse origins. These sources encompass internal systems, external databases and third-party providers. By using these technological advancements, businesses can enhance their capacity to assimilate and analyse ESG data, enabling informed decisions aligned to sustainability goals and regulatory requirements. This comprehensive approach not only facilitates improved risk management and compliance

but also fosters transparency and accountability. It also empowers businesses to identify opportunities for sustainable investment and innovation, furthering their commitment to responsible financial practices.

ESG reporting mandates entail the meticulous collection, analysis and reporting of an extensive array of metrics spanning various ESG dimensions. This multifaceted task requires substantial time and resources. However, technology solutions such as artificial intelligence and machine learning offer a transformative approach to streamline and automate these processes. Through automation, these technologies can efficiently handle data collection, validation and reporting tasks, significantly enhancing operational efficiency and accuracy. Automating repetitive tasks minimises errors inherent in manual processes, increasing the reliability and consistency of reported data. Furthermore, the reduction in manual effort liberates valuable human resources, allowing people to focus on more creative and strategic initiatives and value-add activities. Overall, the adoption of AI and ML technologies in ESG reporting not only facilitates compliance with regulatory requirements but also fosters a culture of continuous improvement and innovation.

In terms of ESG reporting, most businesses are subject to a multitude of frameworks and standards established by regulatory bodies, industry associations and international entities. These frameworks, such as those developed by the Global Reporting Initiative (GRI), the Task Force on Climate-related Financial Disclosures (TCFD) and the Sustainability Accounting Standards Board (SASB), outline specific metrics and guidelines for disclosing ESG data. To enable compliance and streamline reporting processes, businesses leverage data analytics solutions. These solutions play a pivotal role in standardising reporting

practices by aligning data collection methodologies with regulatory requirements and adhering to the guidelines stipulated by relevant frameworks. By employing data analytics, the efficient gathering, processing and reporting of ESG-related information is possible in a manner that meets the expectations of regulators and stakeholders while also enhancing transparency and accountability. This alignment aids businesses in not only fulfilling their regulatory obligations but also strengthening their reputations as responsible corporate citizens.

Stakeholders ranging from investors and regulators to customers and the public are placing greater emphasis on transparency and accountability in ESG disclosures.

This heightened demand necessitates innovative solutions to promote the integrity and reliability of reported data. Emerging technologies like blockchain show promise in addressing these challenges. Blockchain technology provides a transparent and immutable recordkeeping mechanism, ensuring data related to ESG performance and practices remains tamper proof and verifiable. By leveraging blockchain, businesses can furnish stakeholders with irrefutable evidence of their ESG commitments and accomplishments, fostering trust and credibility in their operations. The transparent nature of blockchain not only enhances the authenticity of reported information but also empowers stakeholders to independently verify the accuracy of ESG disclosures. The adoption of blockchain technology in ESG reporting reaffirms organisational dedication to transparency, accountability and sustainable practices.



As the demand for ESG reporting intensifies, companies will need technology solutions that can adapt and scale to meet their expanding reporting needs. Cloud-based platforms and scalable infrastructure offer an ideal solution by providing the flexibility and capacity to manage large volumes of data effectively. These platforms enable secure and efficient storage, processing and analysis of vast amounts of ESG-related data. With cloudbased solutions, companies can dynamically adjust their computing resources to accommodate fluctuating reporting requirements, so they can scale up or down as needed without incurring unnecessary costs or disruptions. Furthermore, cloud-based platforms offer the agility to swiftly adopt and integrate new reporting standards and regulations as they emerge, enabling businesses to stay compliant and competitive in an evolving landscape. Cloud-based technology empowers businesses to efficiently manage their ESG reporting obligations while maintaining scalability and adaptability to future requirements.

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ESG factors are gaining recognition as material risks for many businesses, and integrating ESG considerations into risk management frameworks is critical to mitigate these risks effectively. Technology solutions play a pivotal role in facilitating this integration by offering advanced analytics tools tailored to assess and manage ESG-related risks comprehensively. These tools enable evaluation of the potential impacts of ESG factors on their portfolios, operations and overall risk profiles. Technology

can enhance the ability to identify, monitor and measure ESG risks in real time, enabling proactive risk management strategies. Furthermore, technology solutions provide the necessary insights and data-driven decision-making capabilities to incorporate ESG considerations into lending practices, investment decisions and strategic planning processes. Technology is a vital enabler for the effective integration of ESG considerations into risk management frameworks, enhancing resilience and sustainability in the face of evolving market dynamics and stakeholder expectations.

In summary, technology solutions are critical for addressing the growing complexity and scale of ESG disclosure and reporting requirements. They facilitate data aggregation and management, automation and efficiency, as well as standardisation, compliance, transparency, accountability, scalability and integration with risk management processes. These solutions empower businesses to meet regulatory obligations, satisfy stakeholder expectations and drive sustainable business practices.



About the author



Dr. Alex Kokkonen is a senior researcher and advisor for DXC, working with customers to solve their most pressing business issues via research-led advisory interventions. With over 25 years of experience, Alex brings extensive international and multi-industry experience from working in a variety of multidisciplinary leadership positions and

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