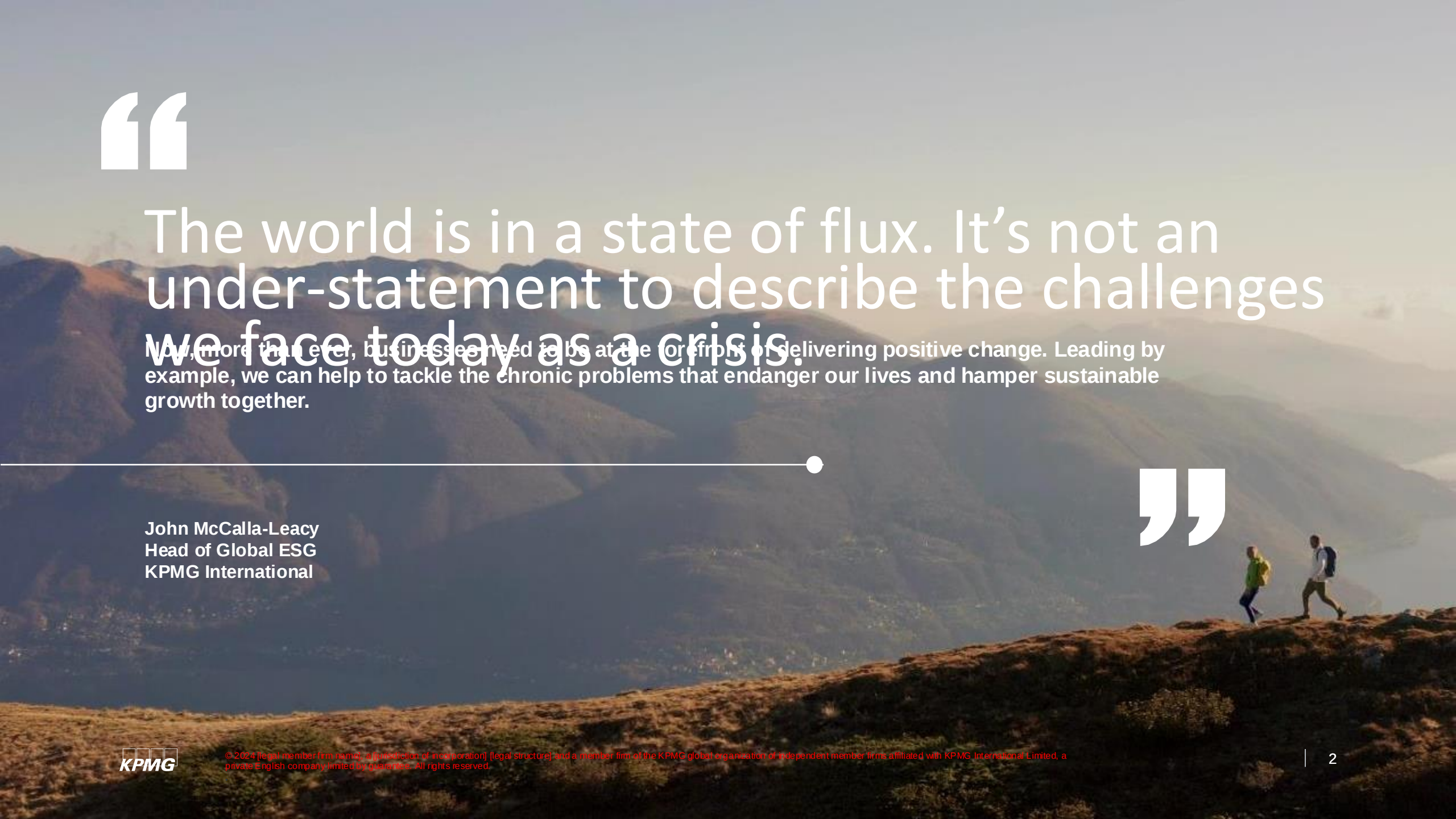


Advantages and challenges of applying AI to achieve sustainable corporations

20 & 21st June 2024, Porto,
Portugal.



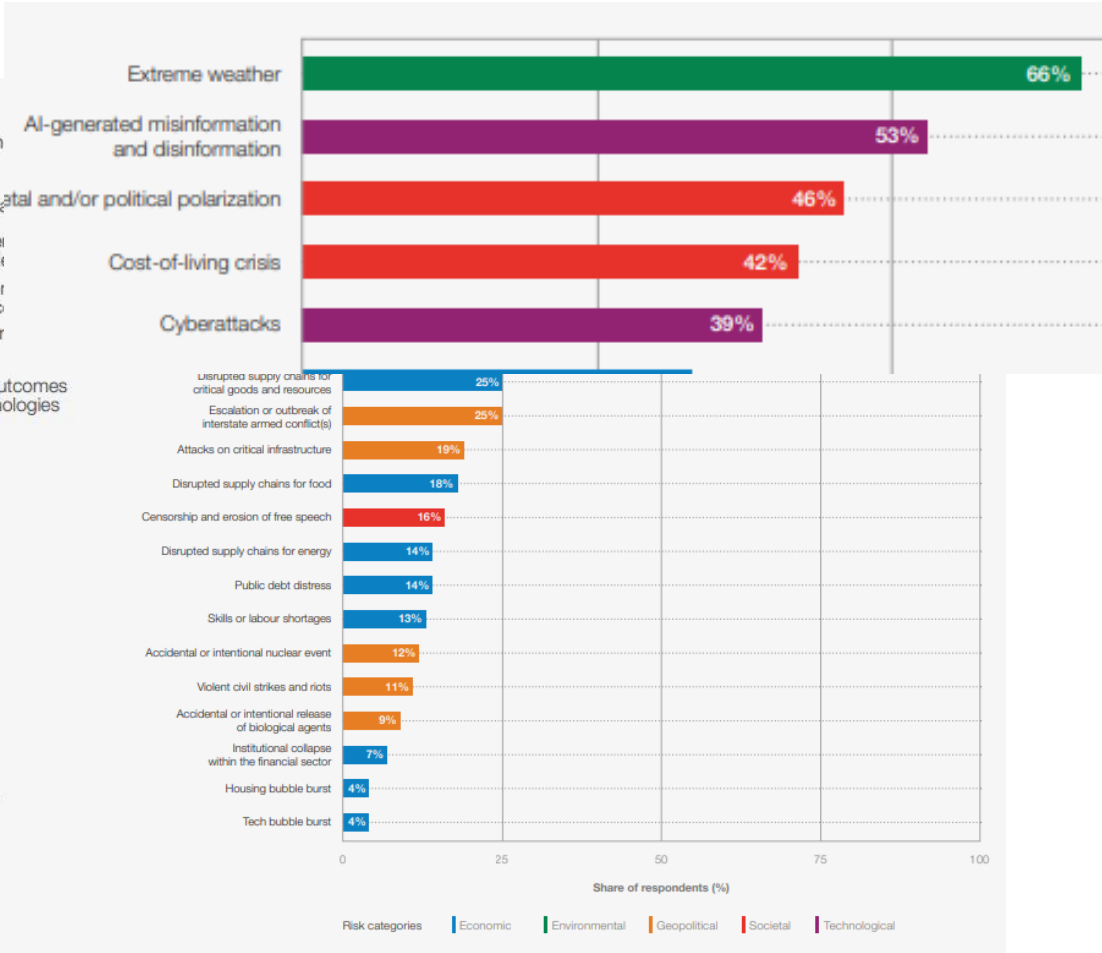
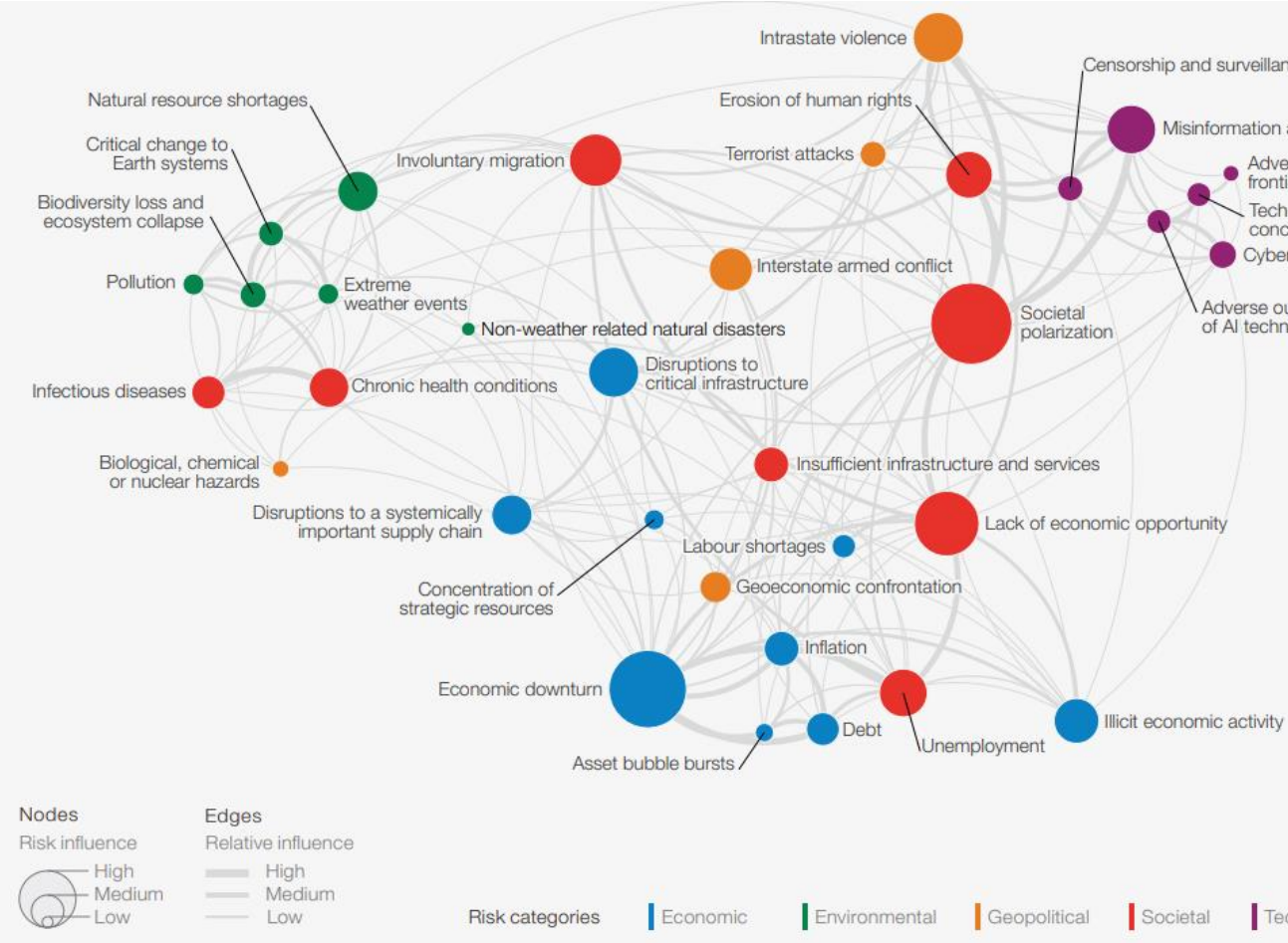
The world is in a state of flux. It's not an under-statement to describe the challenges we face today as a crisis.

Now, more than ever, businesses need to be at the forefront of delivering positive change. Leading by example, we can help to tackle the chronic problems that endanger our lives and hamper sustainable growth together.

John McCalla-Leacy
Head of Global ESG
KPMG International

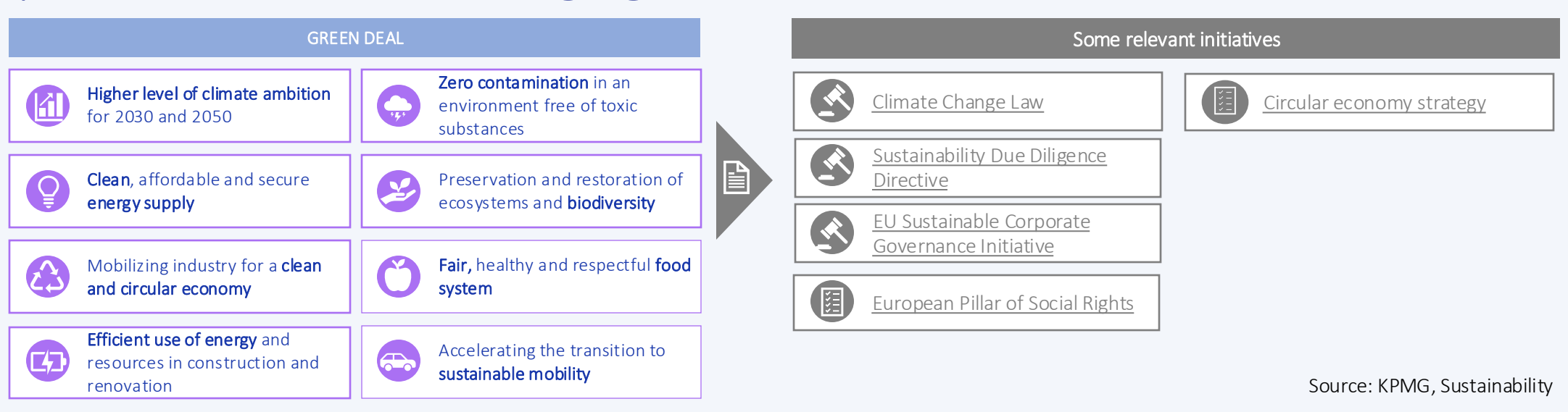


Continuous shocks and a duo of dangerous crises: climate and conflicts



Source: Global risks report 2024 (World Economic Forum)

The regulatory framework encourages the sustainable transformation of companies but is also challenging

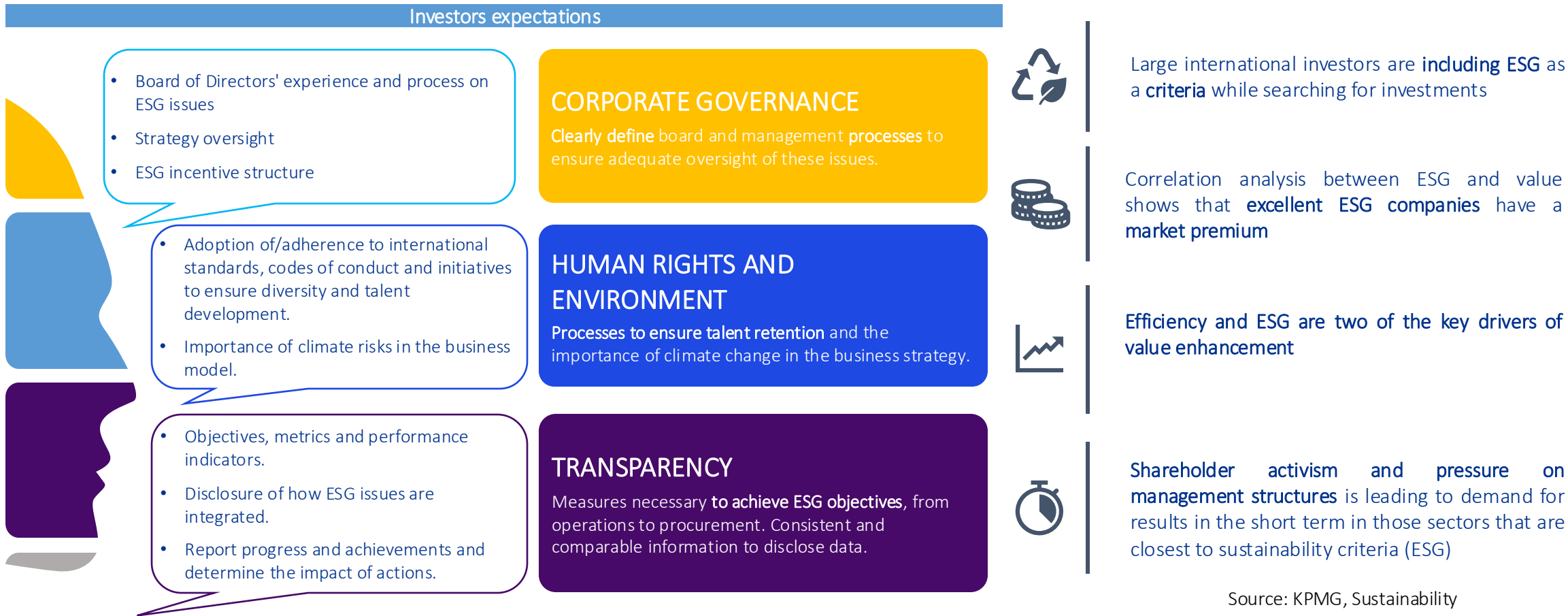


“ The Green Deal and the Action Plan share initiatives and complement each other, such as the EU Taxonomy.



Investors care about how companies identify and mitigate risks but also who captures opportunities.

Despite the dispersion in methodologies, investors and analysts are aligned in terms of the importance given to ESG issues. Governance and social issues are given greater importance, and they are less focused on environmental performance.



Source: KPMG, Sustainability

Companies face four major challenges in this sustainable transformation

More than **€1.1bn** worth of GDPR fines were issued from 28 January 2021 ⁽¹⁾



Transparency and good governance

A responsible, transparent and trustworthy company

““Report the information necessary to understand the impact of activities in environmental, social, human rights, anti-corruption and anti-bribery matters”.

– CSDR

The global cybersecurity workforce gap has increased by **26.2%** compared to 2021 and the percentage of women software developers is a meager **5.17%** ^(2, 3).



Talent attraction and retention

Improve talent attraction, so professionals want to work in sectors that will be crucial to face the challenges we are facing

“Having a quality job is a key source of income, purpose and fulfillment, and is fundamental for social inclusion and active participation in society”.

– European Pillar of Social Rights Action Plan

Total investment in Q3 2022 ended up down more than **40%** compared to the same quarter in 2021 ⁽⁴⁾



Sustainable finance

Aligning to the EU Taxonomy CSRD and the SFDR to remain attractive to investors

“To achieve the objectives set out in the European Green Pact, the Commission has committed to mobilizing at least one trillion euros in sustainable investments over the next decade.”

– European commission

Source: KPMG, Sustainability

The technology sector represents between **2%** and **3%** of global emissions, according to the UN ⁽⁵⁾



Zero emissions

Net Zero emissions in all industries in Europe by 2050

“Reduce greenhouse gas emissions of the Spanish economy as a whole by at least 23% compared to 1990 by 2030. To achieve a penetration of renewable energies in final energy consumption of at least 42% by the year 2030.

– European Climate Change Law.



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The European Federation
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Driving real ESG transformation requires authentic changes in the company culture



Source: KPMG, Sustainability

ESG digitalization, the key to decision-making support, but it's a partial view

The companies can use technology to achieve holistic management of its ESG objectives from an overall vision. Key to this is an understanding of strategy and business needs, along with knowledge of market solutions and technological capabilities.



ESG Strategy

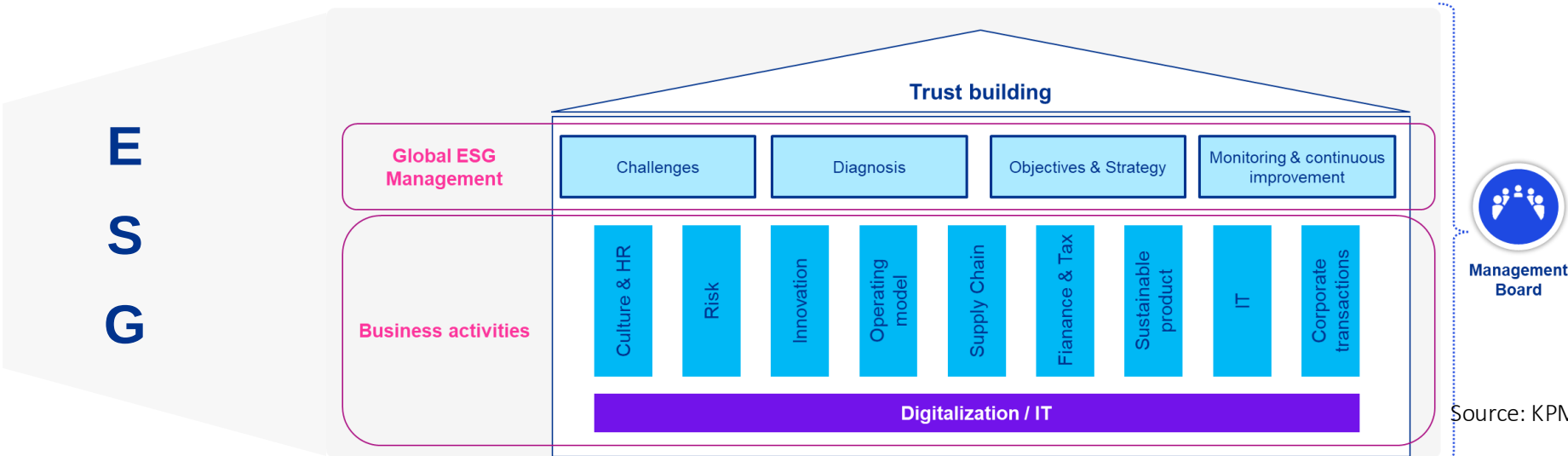
Helping companies to drive economic vitality and deliver long-term value through effective engagement with all stakeholders, building trust and competitive advantage.



Technology -AI

It is the way for companies to achieve this goal and cover their information needs helping them in their decision making and compliance with both regulatory and ESG objectives.

★ Holistic analysis of all ESG factors & the use of technology to manage companies' ESG processes:



Source: KPMG, Sustainability

How can AI help us in the sustainable transformation

The sustainability trilemma. A complex and interconnected problems

AI facilitates and fosters environmental governance, the formal and informal rules that govern human behavior in decision-making processes as well as the decisions themselves, dictates how society determines and acts on goals and priorities for managing natural resources.

The lack of data and the excess of data

AI reveals insights that are otherwise trapped in massive amounts of unstructured data that once required human management and analysis, such as data generated by videos, photos, written reports, business documents, social media posts, or e-mail messages.

Changing the mindset.
Cultural changes

We need to go beyond current thinking patterns to devise science-based solutions and policies requires a paradigm shift. Paradigms intermingle training, education, governmental policies, and cultural variables that guide and constrain behaviors. In the current human-solution paradigm, short-term, self-interested reasoning tends to dominate decisions about how to confront water, energy, and food supply challenges.

Source: Artificial intelligence for sustainability: Challenges, opportunities, and a research agenda
Rohit Nishant, Mike Kennedy, Jacqueline Corbett

Thank you

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