

Navigating Sustainability:

The Power of ESG Analytics

There are five key areas to keep an eye on:

- 01.** An increasing focus on ethics and integrity
- 02.** Prioritizing supply chain security, resilience and transparency
- 03.** Transitioning workforces
- 04.** First Nations inclusion and empowerment
- 05.** A dynamic political landscape with expanding regulatory changes



2023 and coming years are shaping where organizations continue to evolve their ESG and sustainability priorities. For some, it's business as usual; for others, it'll be a year of change and disruption. Regardless of where you're on your ESG journey.



Three Pillars of ESG

Environmental

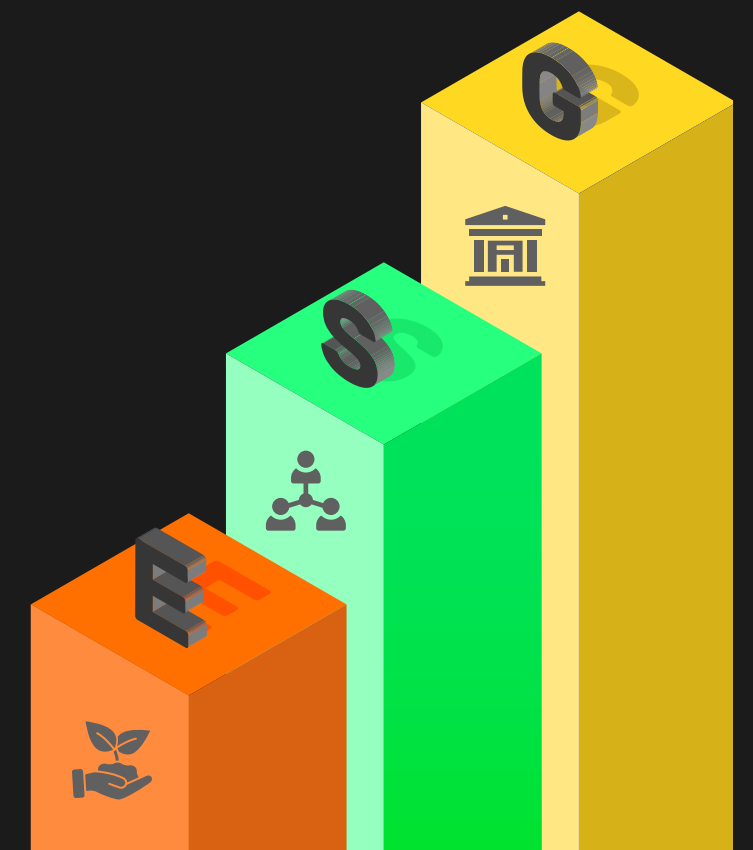
- Energy usage and efficiency
- Climate change strategy
- Waste reduction
- Biodiversity loss
- Greenhouse gas emission
- Carbon footprint reduction

Social

- Fair pay and living wages
- Equal employment opportunity
- Employee benefits
- Workplace health and safety
- Community engagement
- Responsible supply chain partnerships
- Adhering to labour laws

Governance

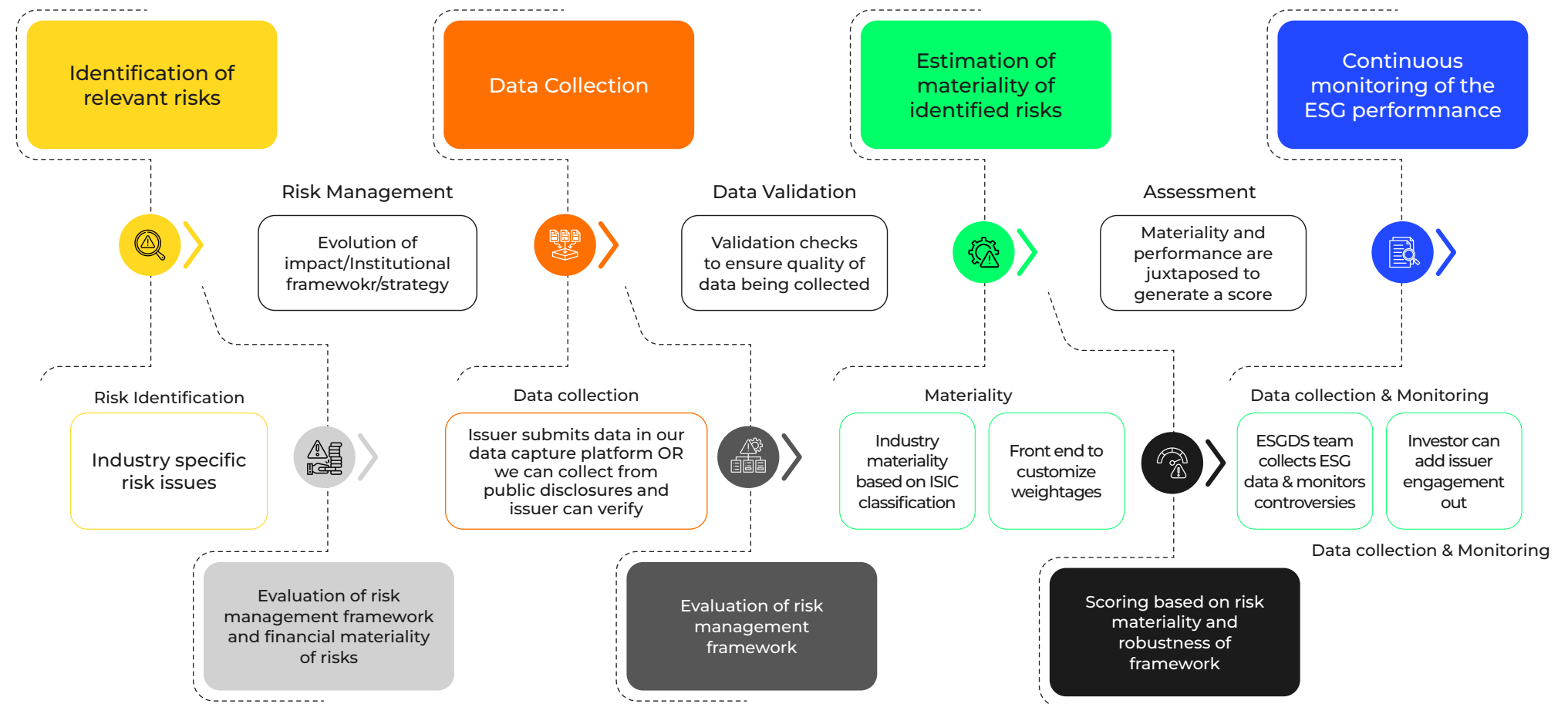
- Corporate governance
- Risk management
- Compliance
- Ethical business practices
- Avoiding conflicts of interest
- Accounting integrity and transparency



Key Complexities that Businesses come across

- Data Quality & Consistency Metrics
- Metrics Standardization
- Limited ESG Expertise
- Scope and Materiality
- Data Availability
- Data Management Challenges
- Interpretation Complexity
- Data Silos and Integration
- Cost and Resource Allocation

ESG Corporate Assessment Framework to follow



Boosting Environmental Sustainability Using Analytics

54% respondents claim their organizations are using data and insights to track performance against their sustainability goals

38% are utilizing data and insights to report on emission

Key Parameters to Look After



Source: <https://www.esgds.io/custom-esg-assessment-model-and-analytics>

What Should Organizations Do?

- Gather and assess data concerning environmental sustainability factors, encompassing energy and resource consumption, greenhouse gas emissions, and supply chain efficacy.
- Deploy investments in cloud technologies, automation, and predictive analytics to consolidate data from diverse business units and origins, simplifying reporting, detailed scrutiny, and strategic planning.
- Implement actionable insights derived from analysis to launch sustainability-focused initiatives, enhancing resource optimization.
- Allocate resources toward AI and ML solutions capable of performing real-time sustainability assessments on data spanning various temporal frames.

Best Practices - At a Glance



Environmental Sustainability Technologies to watch out for

“ Gartner forecasts that by 2025, three emerging environmental sustainability technologies will see widespread adoption in the mainstream. ”

Carbon footprint measurement technologies



Organizations will evaluate both direct and indirect emissions while enhancing transparency in reporting.

Cloud sustainability



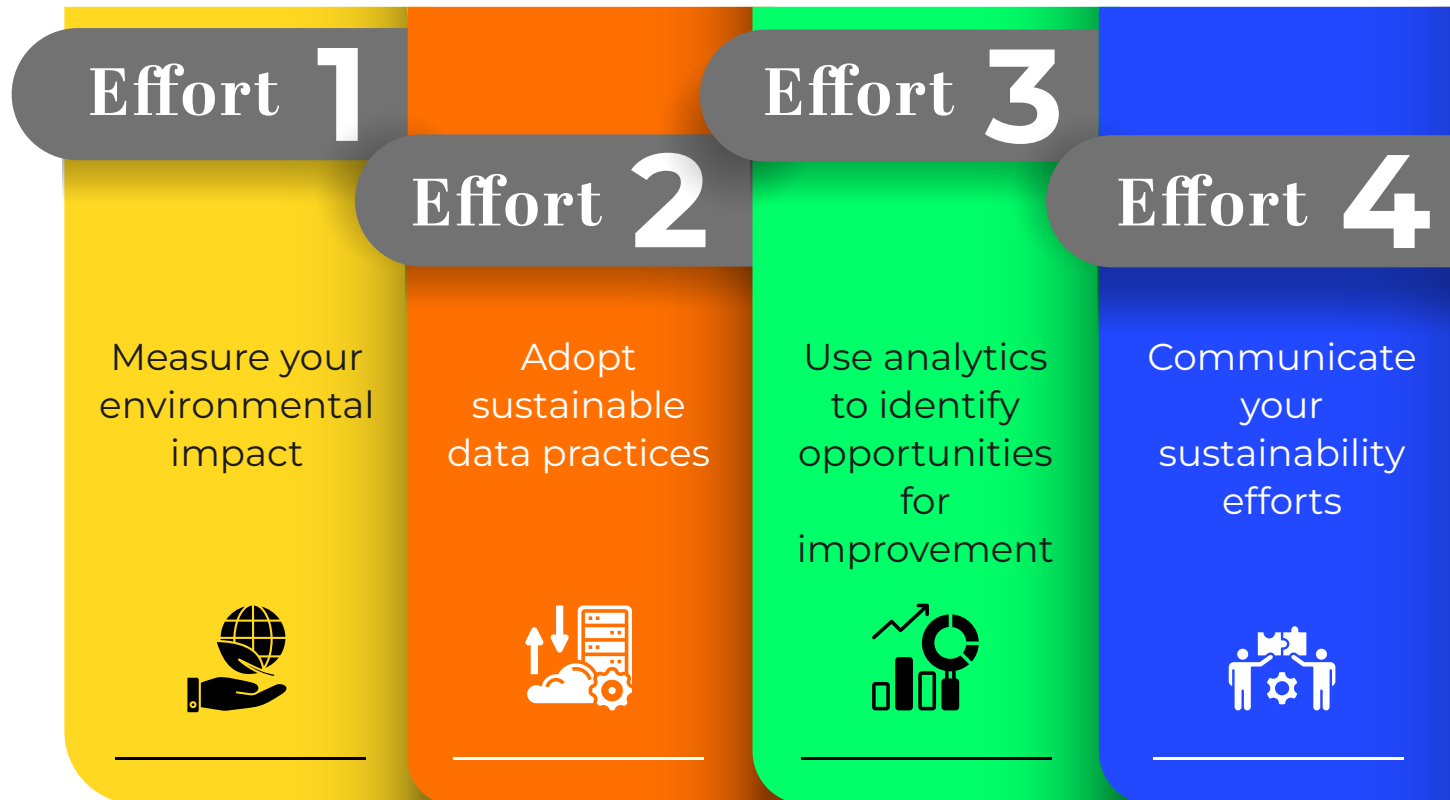
Maximizing the sustainable utilization and management of cloud services.

Advanced Grid Management Software



A system designed to monitor and control energy management systems & new operationalised real-time capabilities that use physical and ML models.

How can Polestar improve your organization's sustainability efforts?



Success Story

Revolutionizing ESG Analytics

How Automation helped a building materials manufacturer reduce scope 3 emissions?

Highlights

- Scope 3 emissions reduction ESG analytics across 4 regions
- Data lake on AWS
- Data Visualization on Qlik Sense
- Delivered in less than 4 months

Steps toward a Sustainable Future

1 Define industry-specific goals

Adopting an industry-specific approach is crucial. Enterprises must establish sustainability goals that are tailored to their business and industry, maximizing the potential for impactful outcomes.

2 Build a technologies framework

Leveraging advanced technologies such as AI and ML, enterprises can utilize data modeling and forecasting techniques to assess the relationship between their operations and sustainability objectives such as reducing energy consumption.

3 Combine human & machine intelligence

Human expertise remains indispensable, augmented intelligence plays a vital role by automating data processing tasks and unveiling valuable insights. This collaboration empowers teams to make well-informed, data-driven decisions.

