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Sustainability@
Automotive
7 ESG challenges
to cope with





Major ESG driver

A company's sustainability performance and transparency have a direct influence on cost structures, sales volumes and access to capital - making it a key element of corporate strategy.



New regulations

- The Paris Agreement sets the agenda: legally binding climate protection agreement of 197 states
- Climate targets will be further tightened by cross-industry regulations (e.g. EU Green Deal) and industry specific regulations (e.g. EU Fleet Regulation, ICE ban 2035, CBAM)
- The LkSG and CSDDD require companies to implement due diligence practices
- Extended reporting obligations with the introduction of the CSRD
- National Net Zero targets and increasing carbon market mechanism
- Growing ESG requirements in accounting standards such as IASB, DRSC, IDW, SEC



#1 Risk for companies

- Climate change is the number 1 global long-term risk – considering likelihood (extreme weather events) and impact (climate action failure)¹
- Companies fear weakened or reduced production capacity, increased capital and operational costs as well as resource scarcity²
- Unchanged climate change could cost the global economy \$178 trillion in net present value terms from 2021-2070³



Societal pressure

- Social movements and NGOs

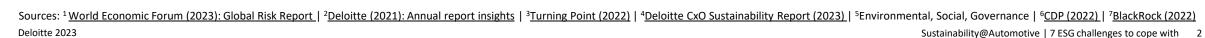
 (e.g. Fridays for Future, Extinction
 Rebellion, Amnesty, etc.)
- Sustainability is increasingly important for purchase decisions
- Employees and civil society are number three of the top stakeholder groups demanding a sustainability transformation⁴



ESG⁵ focus in investments decisions

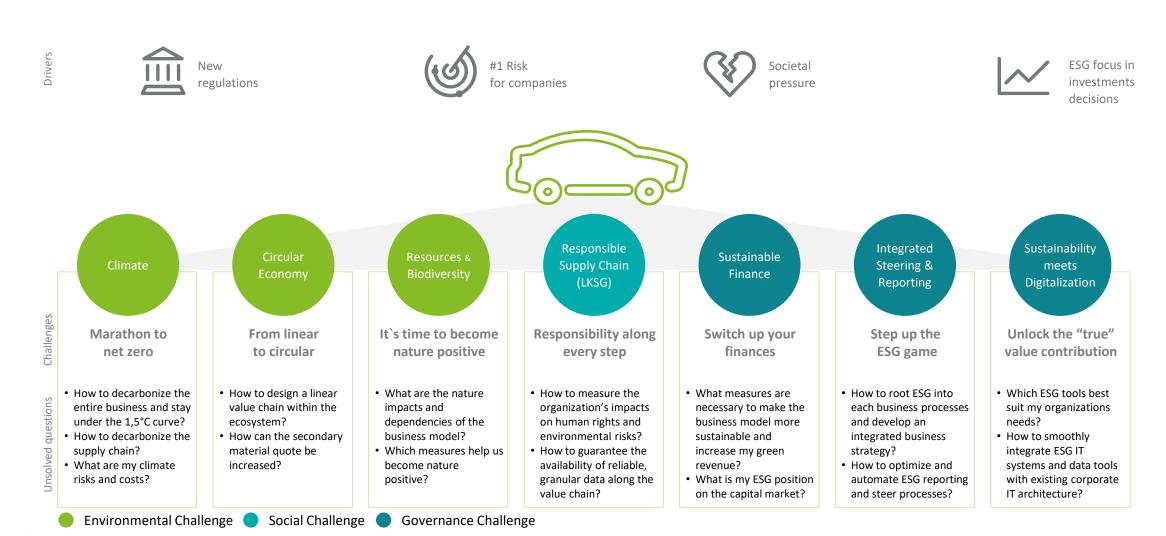
- EU Action Plan for Financing Sustainable Growth (incl. Taxonomy)
- Investors urge companies to set 1.5°C aligned science-based targets⁶
- How a company manages climate risk and prepares for long-term value creation majorly impacts BlackRock's capital allocation⁷
- Taskforce on Climate-related Financial Disclosures (TCFD) increases reporting demands





7 ESG challenges to cope with

External pressures like regulation, requirements of investors, society and the environment lead to a high relevance of sustainability in the automotive sector, creating 7 major ESG challenges.



1 | Marathon to net zero



Managing and reducing the carbon footprint in the entire value chain is vital to stay under the 1,5°C decarbonization curve and secure a license to operate in the decades to come.

Selected drivers:

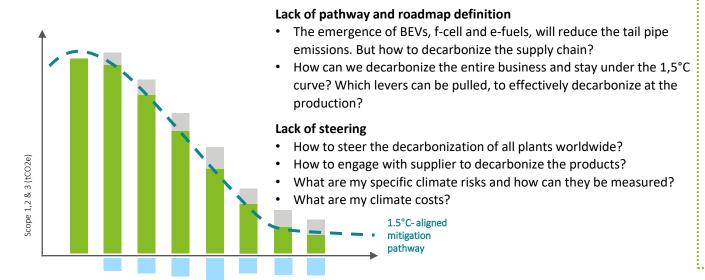
§ GER: climate neutral 2045 and 2030 -65% (1990)

§ EU: climate neutral 2050, CSRD (2024) & Taxonomy (2021) § EU: CO2 emission standards for fleet (2019)

Actions already taken by companies:

- ✓ **Scope 1 & 2:** Emissions calculated and reduction measures in place
- ✓ Science based climate targets: e.g. 2040 climate neutral, 2050 climate neutral
- ✓ Switch to BEV strategy (EU)

Open questions: How to reach Net Zero and stay within the 1,5°C path?



How to start your Decarbonization Journey

1

Understand

Understand your climate impact & dependencies

- Calculate the carbon footprint (Scope 1, 2 & 3)
- Assess the physical and transitional climate risks and opportunities

Decarbonize

Develop climate strategy and plan actions for change within the time frame

- Assess and prioritize avoidance, reduction, removal and compensation measures – abatement cost curve
- Develop net zero roadmap which is 1,5°C aligned
- Start the implementation

Integrate & Manage

Embed climate change in management approaches and reporting

- Set up a climate governance structure
- Introduce an internal carbon pricing
- Manage and steer the reduction progress



Green Light
Tech-driven
decarbonization
insights for
sustainable growth



The 2030
decarbonization
challenge
Path to the Future of
Energy: Chemicals (2020



The turning point
Time to actaccelerating to net
zero (2022)

2 | From linear to circular

Circular Economy

Closing the material loop illustrates significant potential in minimizing resource usage and is thus an essential step in reaching the net zero goals.

Selected drivers:

EU: Circular Economy Action Plan (2020)

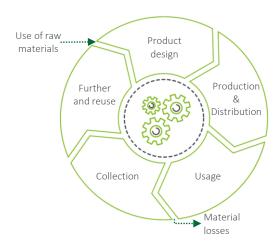
§ EU: CSRD (2024) - comprehensive ESG information limited assured

§ EU: Updated directive on batteries and accumulators (2024)

Actions already taken by companies:

- ✓ Circularity became a material topic for the company
- ✓ First set of waste, secondary material indicators defined

Open questions: How to move from linear to circular?



Lack of circular approaches

- How can the product be redesigned to ensure a reuse?
- How to implement sustainability in the product design and the business model?
- How can the secondary material quote be increased?
- How to design a linear value chain within the ecosystem?

Ensure technological integration

- How can the newly defined process be anchored and integrated in systems?
- Are there contradictory effects of CE activities on other sustainability projects?

How to start your Circular Economy Journey

1

Understand

Understand your circular economy impact & dependencies

- Read-out on CE potential & CE vision
- Assess risk and opportunities along the value chain in regards to CE

Design

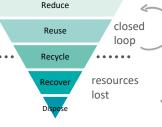
Develop Design a CE strategy along the entire value chain based on impact and dependency data

- Evaluate levers along a cost-benefit analysis
- Design a circular approach
- Define targets and requirements incl. roadmap and implementation plan

Implement

Embed CE in management approaches and reporting

- Establish a monitoring and reporting platform
- Define responsibilities
- Extent to all BU





Circular economy
Challenges and
opportunities for the
industrial location
Germany



Circular economy
Building systems to
reduce, reuse and recycle
resources



A circular econom to live within the safe limits of the

Resources & Biodiversity

Biodiversity loss poses a major operational risk for companies. It is time to not only consider people and planet, but also nature.

Selected drivers

§ EU CSRD (2024): some mandatory biodiversity disclosures for all companies **\$44** trillion of economic value at risk as a result of the dependence of business on nature and its services¹

COP 15, 2021 Global Biodiversity Framework Target 15: business disclosures on biodiversity

Actions already taken by companies:

- √ Waste, water and air management measures
- ✓ Land use measures
- ✓ Compensation projects, e.g. reforestation

Open questions: How to address biodiversity and become nature positive?

Lack of quantification

- Where along the value chain do our major biodiversity impacts occur?
- How are we dependent on biodiversity and ecosystem services?
- How do we map our operations' proximity to biodiversity hotspots?
- How should we set the boundary of our analysis?

Targets and measures

- What are appropriate targets for biodiversity protection and natural resource management?
- Which measures help us reduce or avoid ecosystem conversion, and even become nature positive?

How to start your Biodiversity Journey

1

Assess

Identify key biodiversity impacts and dependencies along your value chain

- Perform a materiality assessment and prioritize areas for action
- Measure relevant impacts and dependencies

Strategize

Consider impacts, dependencies, risks and opportunities to outline your path toward achieving nature-positivity

- Set science-based, time-bound targets for your biodiversity performance
- Evaluate risks and opportunities, and decide how to manage them
- Formulate measures to achieve your targets and develop a clear roadmap

Act

3

Implement your roadmap and realign your organization

- Avoid or reduce negative impacts, and restore damaged ecosystems
- Monitor progress on targets and make it transparent to external stakeholders through independently assured reporting
- Revise your business strategy and business model where needed, to fit your new biodiversity agenda



The chairperson's guide to valuing nature



capital
Unlock the true value of nature



<u>Methodology</u> mpact statement Focus Environment

4 | Responsibility along every step

Responsible Supply Chain

National and international regulations move due diligence into the spotlight and require companies to set up specific risk management measures along the value chain.

Selected drivers:

UN Guiding Principles on Business and Human Rights § EU: CSDDD (2024) - Corporate Sustainability Due Diligence

§ GER: LkSG (2023) - German Supply

Chain Act

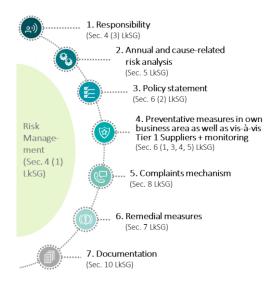
(2011)

Directive

Actions already taken by companies:

- ✓ UN Guiding Principles on Business and Human Rights, UK modern slavery act guidelines in place
- ✓ Code of Conduct regarding ESG topics
- √ Good transparency regarding Tier-1

Open questions: How to safeguard human rights and address environmental risks?



Risk identification and management

- How to measure the impact my organization has in terms of human rights and environmental risks?
- · How to implement impactful due diligence measures such as a complaint mechanism?

Lack of depth integration

- Which changes in governance structure can improve knowledge exchange and facilitate due diligence practctices?
- How to guarantee the availability of reliable, granular data?
- · Could a central, automated data management increase the efficiency of data collection?

How to start your Corporate Due Diligence Journey

Understand

Analyze how well your company is prepared for the LkSG or further regulatory developments (EU Corporate Due Diligence Directive)

- Set ambition and define position
- Understand your supplier impacts and dependencies
- Readiness assessment/gap analysis

Design

Prioritize relevant measures and develop tailor-made approaches to close the identified gaps

- Prioritize relevant measures to close gaps
- Develop concept
- Implement roadmap

Implement

Support your company in the implementation of relevant measures and integration into existing processes

- Support in integrating due diligence obligations into existing corporate units, systems and processes
- Embed sustainability in procurement processes and report progress



Supply Chain Act challenges in the implementation



Compliance risk analysis Increase global risk transparency through targeted prioritization of

compliance resources



Challenges and

5 | Switch up your finances

Sustainable Finance

Investors are increasingly incorporating ESG elements into their capital allocation decisions. ESG is an inevitable aspect in securing capital.

Selected drivers:

§ EU: Taxonomy (2024*) proportion of Green Revenue, CapEx, OpEx **§ EU: SFDR** - Sustainable Finance Disclosure Regulation

§ EU: CSRD (2024) - comprehensive ESG information and limited assurance

Actions already taken by companies:

- ✓ Report the proportion of Revenue, CapEx and OpEx that is Taxonomy-eligible
- ✓ First ESG narratives to establish a position on the financial market
- ✓ Sustainability linked-loan

Open questions: How to grant access to capital in the future?





Meeting regulatory requirements, e.g. EU Taxonomy

- To what extent is my company affected by the EU Taxonomy and which taxonomy-relevant data are expected from our customers?
- Which indicators are to be reported and how can data collection be ensured at business unit level?
- What measures are necessary to make the business model more sustainable and increase my green revenue?

Utilize ESG ratings and an integrated reporting to create transparency and a clear market position

- Which ESG rating does best cater the needs of the stakeholders and the organization?
- Which levers to pull to optimize my rating results?
- What is my ESG position on the capital market?

How to start your Sustainable Finance Journey

Understand

Understand your current stance and set ambitions

- $\bullet \quad \hbox{Evaluate capital market and the regulatory requirements for your business}\\$
- Status quo analysis of current compliance to regulations and of previous rating results
- Select most relevant rating based on external and internal fit
- Define level of ambition and derive gaps

Design

Conceptualize measures to close gaps and reach ambitions

- Derive measures to manage regulatory requirements and improve rating score
- Design an ESG narrative to clarify your position on the capital market

Implement

Turn identified measures into action

- Integrate the new practices into your business processes and governance structures
- Communicate ESG narrative and approved rating results to the capital market



Sustainable finance navigator



The CFO as the driver of sustainability



financing for corporates

^{*} Currently under development

6 | Step up the ESG game

Integrated Steering & Reporting

Sustainability impacts all business areas and therefore does not only need to be managed but also integrated into governance structure and strategy.

Selected drivers:

SDGs - Sustainable § EU: NFRD (2017) § EU: CSDDD (2024) **Development Goals** - ESG information

§ EU: Taxonomy (2021) - proportion of Green - Corporate Sustainability Due Diligence Directive Revenue, CapEx, OpEx

How to start your ESG Management Journey

Understand

Understand your status quo regarding regulatory reporting requirements and your ambition

- Conduct CSRD, GRI and EU Taxonomy gap analysis
- Set ESG ambition and define position
- Derive sustainability roadmap

Design

Design an ESG performance management system to steer your ESG actions effectively

- Define ESG KPI catalogue
- Outline ESG steering and operating model

Integrate, Automate & Communicate

Embed ESG within your steering processes

- ESG@GRC
- Embed ESG performance management into governance structure
- · Roll-out of ESG management
- Implement ESG tools







Look ahead, look inside and look

Actions already taken by companies:

- ✓ Set first ESG indicators
- ✓ Formulated primarily separate sustainability strategy and steering model
- ✓ Isolated quantitative targets
- √ Mainly separate sustainability reports

Open questions: How to create an integrated ESG management system?



Most relevant ESG matters

- Which ESG matters are material to my organization?
- What are my long-term goals? How can I make my goals measurable? Which steps do I need to take to achieve these?

Root ESG into each facet of your business

- How to distribute responsibilities with regards to ESG management within my organization?
- · How to integrate ESG into my corporate strategy and ensure that ESG topics are considered when making business decisions?
- How to efficiently collect ESG data and anchor ESG into my IT infrastructure?
- How to integrate sustainability into my annual report?

7 | Unlock the true value contribution

ESG

Sustainability meets Digitalization

By facilitating a more efficient collection and management of increasingly granular ESG data, digital solutions can accelerate the corporate transformation towards sustainability.

§ GDPR: data privacy regulation

Selected drivers:

and limited assurance

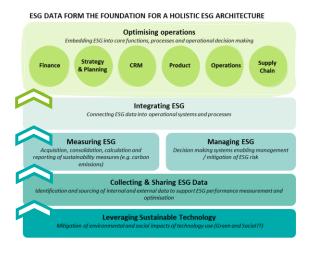
§ EU: CSRD (2024) comprehensive ESG information § EU: Taxonomy (2021)

- Green Revenue, CapEx, OpEx

Actions already taken by companies:

- ✓ Setting up first ESG data collection methods using .xls and mail
- ✓ Specialized ESG tools implemented for selected sustainability topics

Open questions: How to utilize the vast opportunities to achieve sustainability goals?



ESG tool Jungle

- Which ESG tools best suit my organizations needs?
- How can individual IT solutions be consolidated?
- How to ensure a seamless interface between manual and automated data collection and reporting processes?
- How to smoothly integrate ESG IT systems and data tools with existing corporate IT architecture?

Ensure that IT Infrastructure is sustainable

 To which extend are my IT systems and processes green and ethical?

How to start your ESG IT Journey

1

Understand

Turning data into information and knowledge

- Set ESG data objectives
- Conduct ESG digital maturity assessment

Design

Increase efficiency and effectiveness by improving and connecting processes

- Analyze ESG data requirements (assurance, quality, user stories)
- Select ESG tools
- Set up ESG target architecture
- Implement ESG tools

Establish

Inventing entirely new products, solutions, customer relationships, business models and ecosystems

- Implement ESG data enabled steering
- Green IT and social IT Corporate Digital Responsibility (CDR)
- NEW digital solutions for sustainability



Tech-enabled sustainability The digital path to sustainability and net zero



The CIO's call to action
Driving an environmentally
sustainable tech agenda to
accelerate organizational
change



GreenLight solution



ireenSpace olution

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