

2022 The Ned Tech Forum.





The societal context for business is changing



Escalating social
activism & employee
pressure with fierce
competition for
top talent



for high quality
healthcare solutions
that promote
access at fair prices



Increasing investor pressure and an increase in ESG funds



Mounting sense of urgency resulting in regulatory pressure on emission e.g., EU fit for 55



Rising expectations for a powerful corporate purpose and peer pressure to set ambitious targets

100M

People pushed into extreme poverty due to health expenses

50%

Of people globally lack access to essential health services

ions CO₂e

Annual Healthcare industry emissions, 4% global total emissions

Healthcare seiust confront major ESG challenges...

20%

Average renewable energy use across healthcare industry

547B liters

PharmaCo water withdrawal, with ~27% recycled

Source: Healthcare without harm/Arup, Refinitiv ESG database (most recent data available, accessed 18 March 2022), Journal of Cleaner Production, World Bank and World Health Organization

Climate leaders gain competitive advantage

Easier hiring, retention

40 %

of talent seek sustainability

Higher revenues

+4-25 pp

CAGR of sales growth for 'green' products Save cash and carbon

~50 %

of emission reduction at net zero cost in key sectors Lower regulatory risks

+2-12 pp

EBIT margin after EU Carbon Border Tax for companies abating 55% of emissions Cheaper financing

-100 bp

wacc for top quartile environmental performers in Europe Higher valuation

>10%

valuation premium for top quartile environmental performers globally

The challenge: healthcare produces 2.4GT CO₂e p.a. (4% global total)



Source: Healthcare without harm/Arup (2019); Healthcare without harm/world bank (2017); UK National Health Service (2020); The lancet countdown (2020, 2018); Environmental research letters (2019); Health affairs (2020); BCG analysis

Emissions are categorized into three scopes



Scope 1 Direct emissions

Occur from sources that are owned or controlled by the company

Examples:

- Company owned chemical processes
- Company owned vehicles
- Company owned facilities



Scope 2 Indirect emissions

From generation of energy purchased by the company

Examples:

- Purchased electricity
- Purchased heat



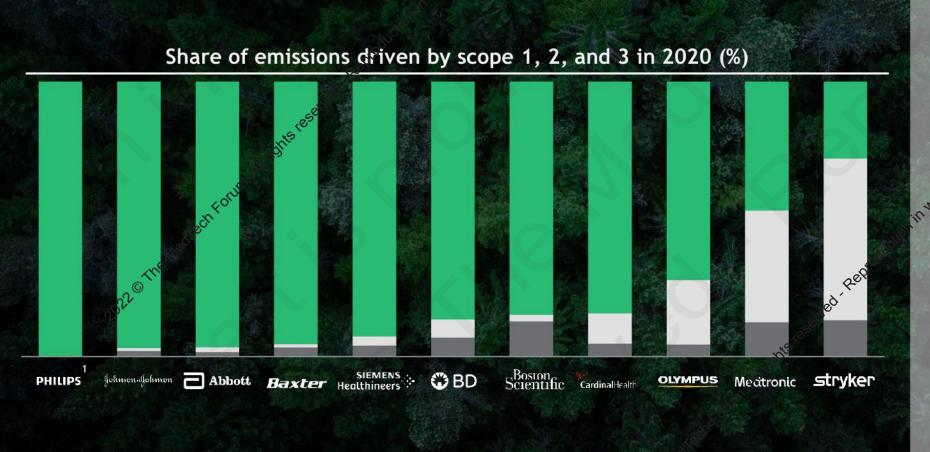
Scope 3 All other emissions

Resulting from activities of the company, but from sources not owned or controlled by the company

Examples:

- Production of purchased materials
- Transportation of purchased fuels/sold products/waste
- Employee business travel
- Product usage
- Product disposal/waste

Scope 3 accounts for 70-95% of emissions



Crucial to work with suppliers on common goals

goals goals

Collaboration will accelerate progress & reduce complexity

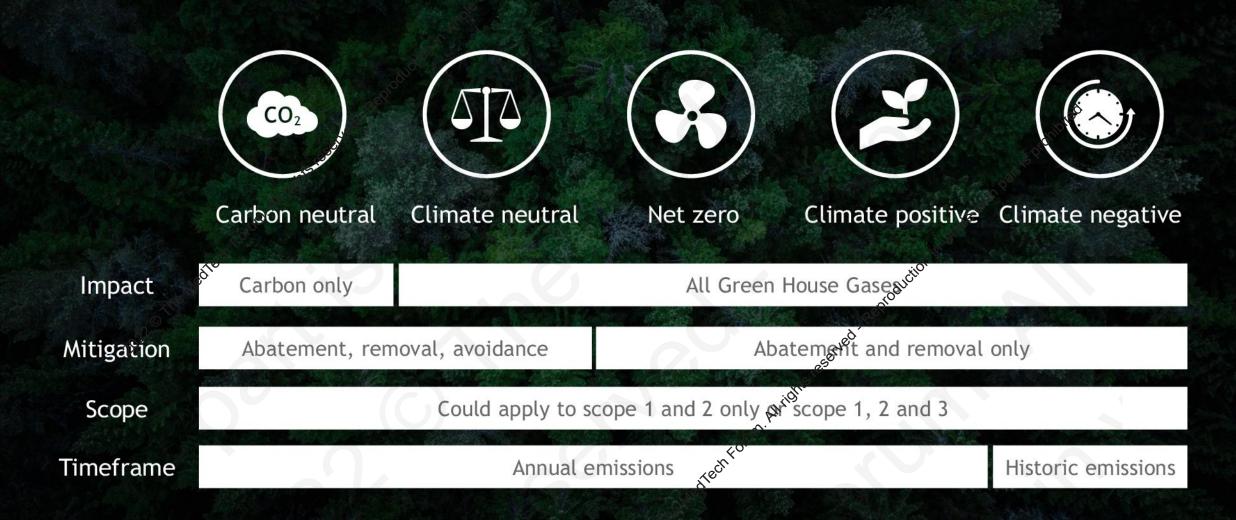
Note: 2020 data. Market-based scope 2 emissions data

1. Scope 1 and 2 emissions make up a very small % of Phillips overall emissions footprint

Source: CDP Climate Change questionnaire, Companies 2020 Sustainability Reports, Refinitiv ESG data, BCG analysis

Scope 3 Scope 2 Scope 1

Climate goals described in different ways



Wide variation in ambition; Pharma ahead of MedTech



ESG Champions

Absolute net-zero target for all scopes and/or science-based target



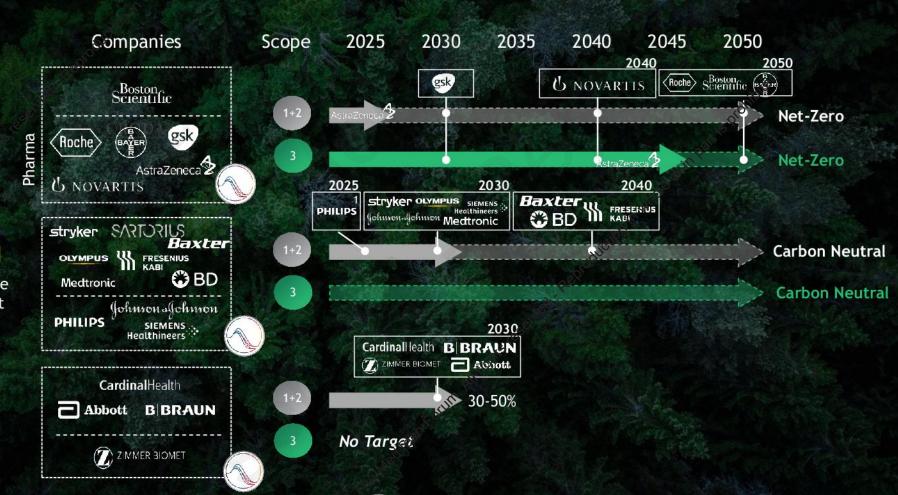
ESG Experienced

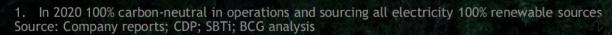
Reduction target for scope 1 and 2 emissions and Net Zero/Carbon Neutral target



ESG Compliant

Only Emission reduction targets for scope 1 and 2







Common barriers to change

Linkage to value creation of sustainability initiatives is feeble - accepted as costs

Challenging to link Procurement mandate and incentives with sustainability goals

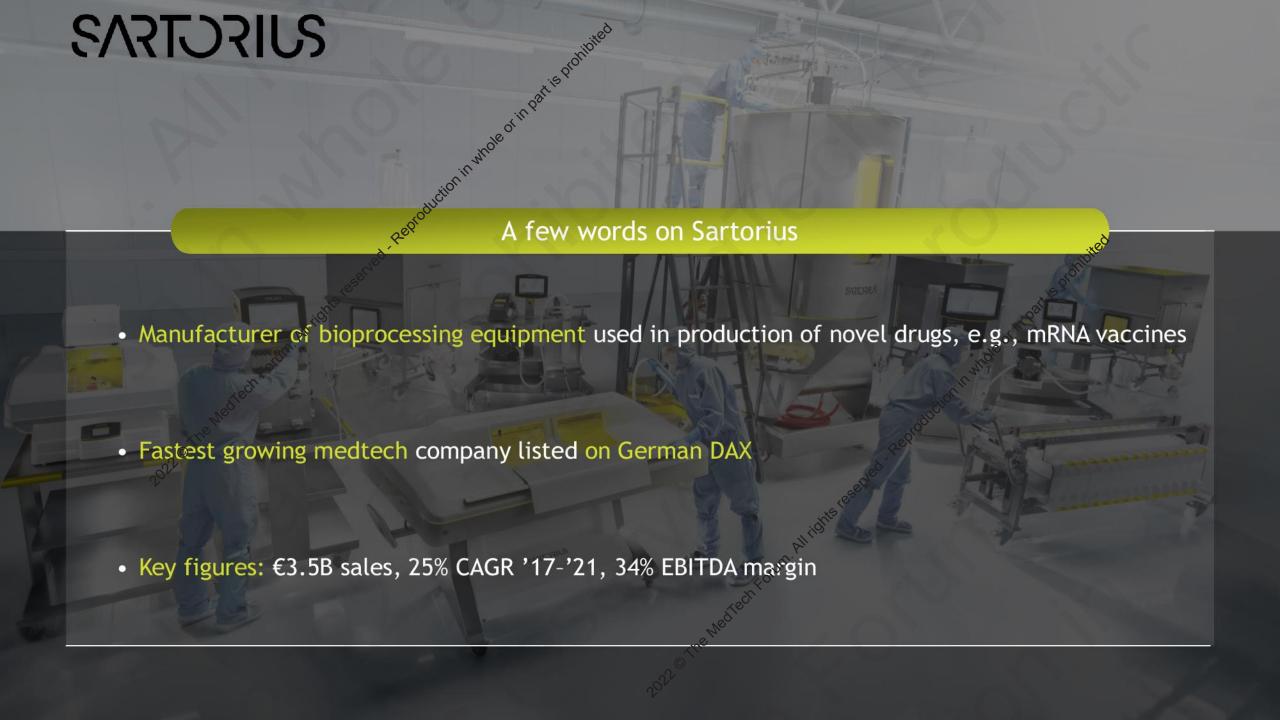
Sustainability initiatives driven in siloes often as an add-on to business initiatives

KPIs piling up creating tension between business priorities and ESG goals

Slow pace due to shifting standards, lack of known solutions, high complexity and Board not fully enlisted

ESG scores iterated with rating agencies vs. ESG story being anchored in Purpose and owned in public markets

Wishing in sustainability requires a systems lens to drive holistic change



Sustainability considered key CEO priority at Sartorius



Stakeholder demands



Customers



Investors



Regulators



Employees



Value creation opportunity



Differentiated positioning vs. peers



Valuation premium from capital market perspective



Employer of choice with sustainnability as one of four core values

ESG strategy defined with core focus on climate

Corporate Strategy

Corporate Sustainability - Group level targets

Holistic Steering and Reporting - frameworks, KPIs, policies

Combine, connect and link financial and non-financial views and metrics into one holistic reporting for steering as well as regulatory and rating requirements

Climate Action

CO₂ footprint, compliance, regulation, cobon trading Initiatives & Targets

Materials & Circularity

Eco-design of products and packaging, BoL & EoL Initiatives & Targets

Water & Effluents

Reach/ROCE, water consumption & discharge Initiatives & Targets

Responsibility of duction cond., human Aghts & diversity in workforce & supply chains Initiatives & Targets

Operating Divisions

Focus Areas

Governance

Governance, remuneration, anti corruption, compliance Initiatives & Targets

Operating Divisions

Functions & Initiatives

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Related Divisional Sustainability Tasks

Operating Divisions

Functions & Initiatives

Four steps to get from talk to action



1. Create baseline

Created emission baseline across scope 1, 2, and 3



2. Identify levers

Identify abatement levers, also taking into account levers controlled by suppliers and customers



3. Define targets

Define ambitious but realistic targets for high growth company



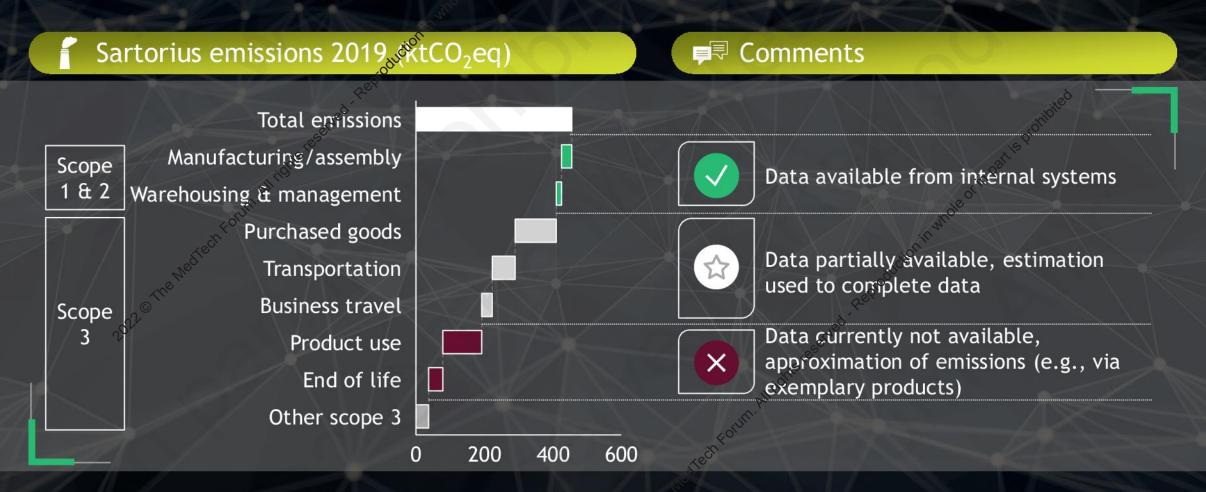
4. Operationalize

Translate targets and levers into initiatives with dedicated owners

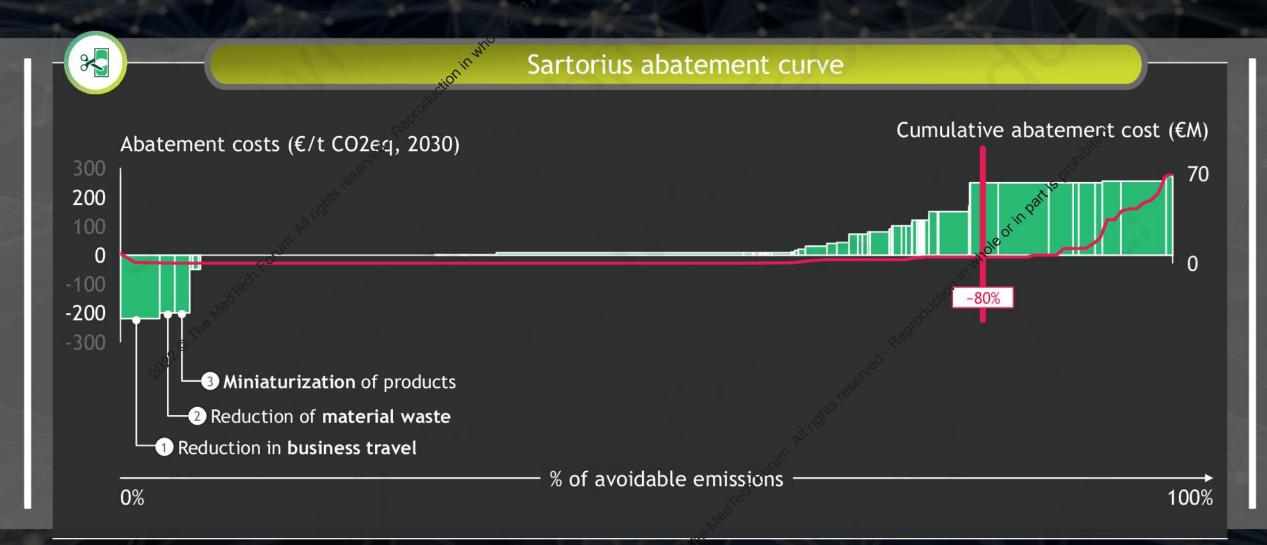
Set-up supporting organizational structure

Create strong data backbone

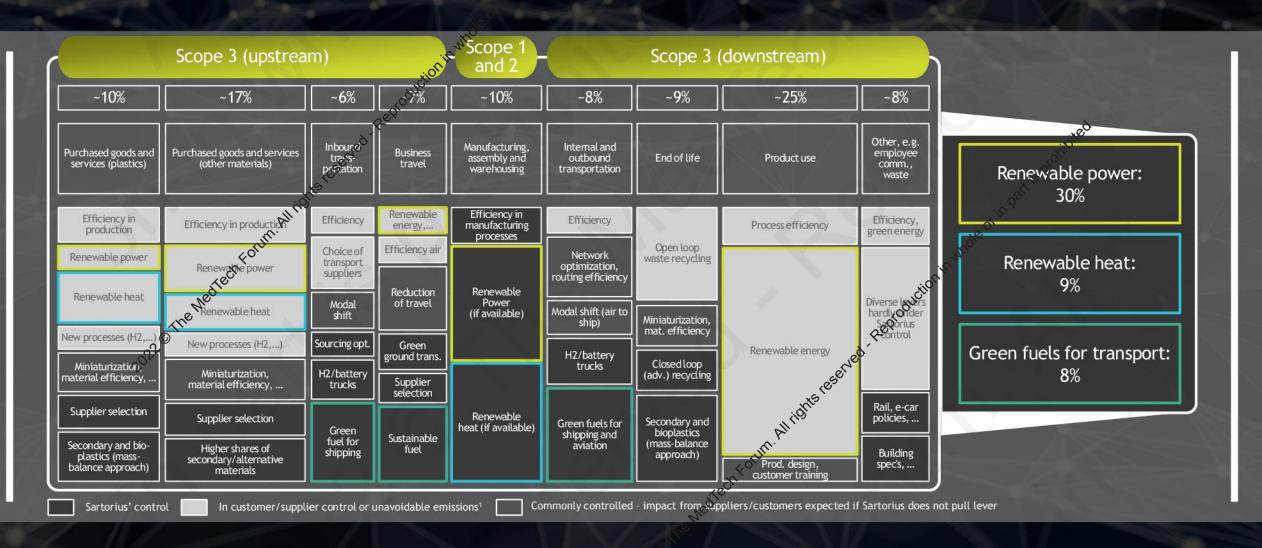
Create baseline | Data availability varies—estimation used to fill gaps



Identify Levers | ~80% of emissions can be avoided at zero cost



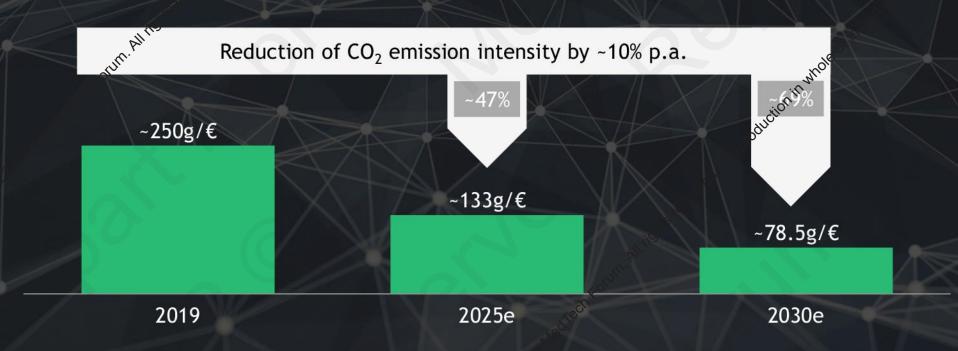
Identify levers | ~50% abatement can be achieved with 3 levers



Source: BCG benchmark model; Sartorius data

Define targets | Ambitious climate targets to reduce CO₂ emission intensity until 2030

CO₂ emission intensity in proportion to sales (kt CO₂ / €)

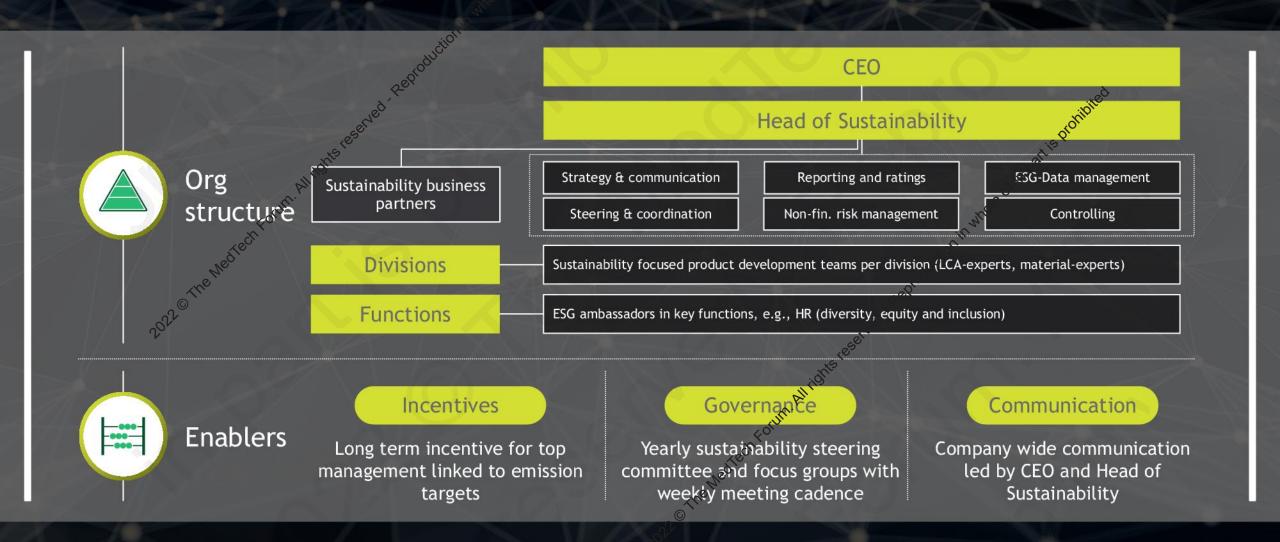


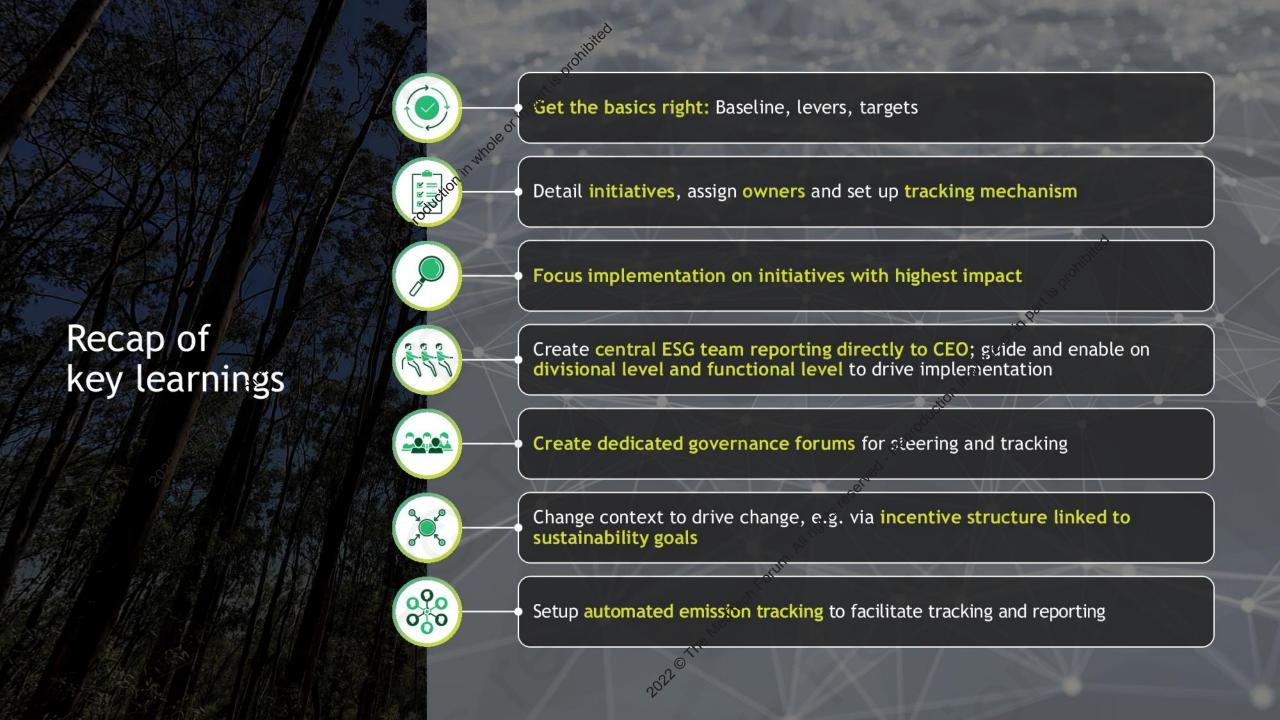
Source: Sartorius data

Operationalization | Key initiatives defined to deliver on ambition

Prioritization —	Key init atives	Descriptions					
Priority initiatives 123	Renewakte energy	Switch to renewable energy where possible of the same					
	Procurement	Supplier selection, evaluation & engagement					
	Logistics	Route optimization, supplier selection & engagement					
Additional initiatives	Product development	Eco-design and selection of materials					
	Business travel	Reduction and sustainable travel					
		nedfectr 1					

Operationalization | Sustainability embedded in organization







CO2 Al 5 features empower recurring decision-making

FOOTPRINT EXPLORER

Develop & report a granular baseline of today's emissions

DATA INGESTION

Collect granular activity data and automatically match data with 120+ database of conversion factors



PRODUCT ECOSYSTEM

<u>Share</u> sustainability <u>data</u> to collaborate across the ecosystem; <u>calculate product emissions</u>



SIMULATOR

Simulate abatement initiatives' **potential impacts** on emissions & costs, down to product-level

ROADMAP DESIGNER

Select & sequence initiatives

Periodic refresh of select client & ecosystem data and dynamic EF database

NITIATIVE TRACKER

Monitor periodically roadmap progress



Appendix

22

EU "Fit For 55" incentivizes companies across entire value chain to reduce emissions

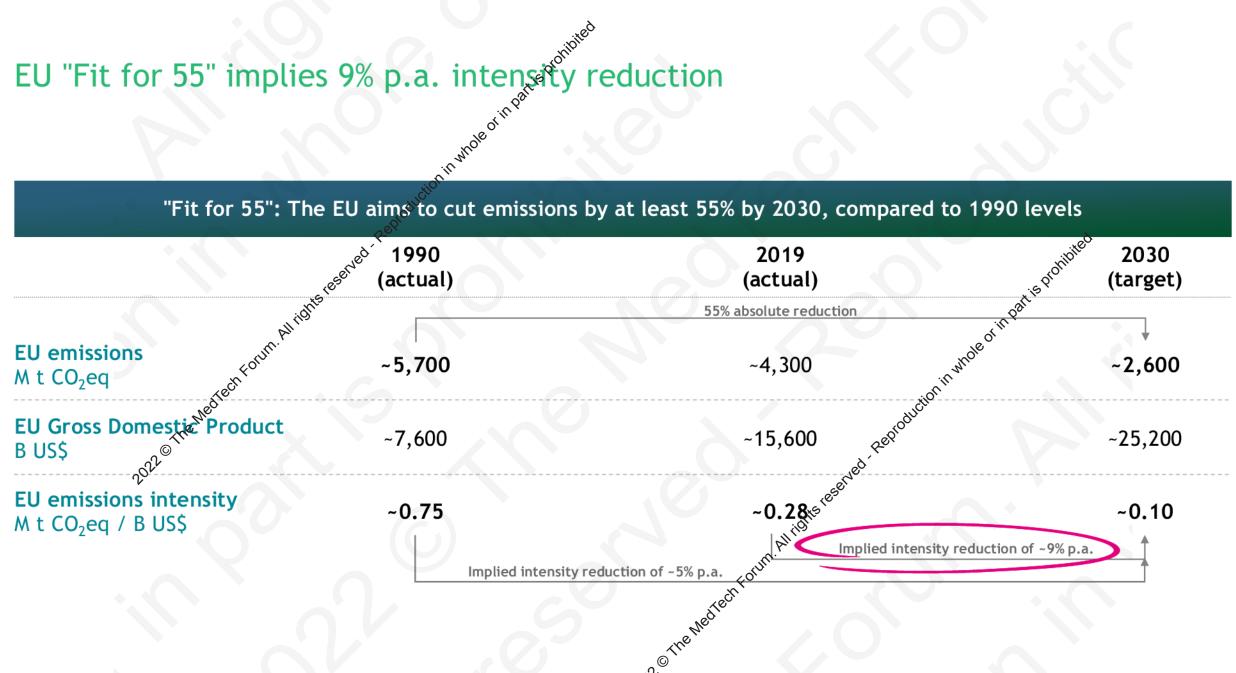
- EU Commission unveiled on July 14th 2021 detailed proposal to turn climate goals into concrete policy actions
- Plan is to put proper policies in place to reduce net emissions by 55% from 1990 levels by 2030 as laid out by the EU Green Deal &
- The proposed plan has to be approved by EU member states and the EU parliament—this could take 2-3 years until adoption &

Key policy proposals

- Raising carbon prices via existing and new Emission Trading Systems (ETS)
- Reforming energy taxation to reflect the environmental impact of fuels
- Introducing a carbon border tariff for CO2-intensive goods traded into the EU (e.g., stee) & cement)
- Removal of tax exemption of traditional aviation fuel

- Sartorius' suppliers faced with increasing pressure to reduce emissions – positive ூimpact on impact from suppliers
- Especially emissions from transport carried out by suppliers & customers are expected to decrease due to incentive to switch to sustainable aviation fuel





Transformation approach is underpinned by 12 key offers





- 10 ESG data measurement & disclosure
- Sustainability partnerships for collective action
- ESG people & organization



Our Offer | BCG offers support our clients on defining the target end state of your transformation journey

DEFINING AMBITION, STRATEGY, ROADMAP

ESG strategy

Define a holistic ESG strategy embedded in the core business, focus on creating competitive advantage

- Conduct materiality assessment to identify ESG topics that matter the most to client, set targets and the ambition, scout for a solution space and define an implementation roadmap based on key initiatives
- Assess current ESG performance based on external ratings and comparable peers, enable rapid ESG score improvement through collaboration with key ESG data and ranking players

02 Net zero strategy

Deep-dive into the client's net zero strategy (CO2 emissions), which is the first building block of the full net zero transformation

- A granular baselining supported by BCG proprietary tools will help in measuring carbon footprint and identifying strengths and gaps in the Net Zero strategy
- Set ambitious and robust targets, and define a high-level roadmap to fulfill the ambition with business model and supporting business cases

03 Environmental/Nature -positive strategy

Support clients holistically on their value chain's footprint and dependency on the Environment

- Apply a cutting-edge approach to identifying and prioritizing risk reduction and business opportunities, supported by innovative methodology in close collaboration with SETN
- Develop a tailored circular economy strategy, leveraging digital solutions such as CIRCelligence (by BCG) to analyze the complete value chain and overarching business dimensions

Equitable & inclusive business strategy

Provide a proven approach with a unique focus on leveraging Diversity, Equity & Inclusion as a source of value creation

- Consider both internally for employees, but also externally across customer segments by providing them equitable and inclusive access to products and services
- Cover every project phase from target setting to execution and governance



Our Offer | We help operationalize our clients journey by making the core sustainable & building new ventures

MAKING THE CORE SUSTAINABLE

05

Sustainable procurement & supply chain

Support clients drive ESG E2E in procurement & supply chain operations

- Heavily integrate Scope 1-2-3 emission norms by setting up the right governance structure, creating transparency, setting the right baseline and targets and by leveraging BCG's proprietary tools such as sustainable sourcing accelerator and CO2.AI
- Help companies fulfill their due diligence obligations in their supply chains with regards to respecting human rights & carbon emission policies

06

Sustainable manufacturing

Help clients with a holistic approach to sustainable manufacturing: starting from identification of emissions, to definition of specific measures (incl. conventional and tech levers), target picture and implemented solutions

- Consider financial implications including clear understanding of which abatement can be achieved, ideally at net zero cost
- We offer best-in-class sustainable manufacturing tools

UNLOCKING VALUE AND IMPACT

08

Sustainable portfolio innovation & growth

Help clients transform not only how they operate, but what they do as a business

- Assess environmental and social content of current portfolio, shift and / or expand it towards more sustainable products and services
- Develop new businesses centered around sustainable solutions
- Build capabilities to constantly innovate products and business models towards more Sustainable businesses

09

Green Ventures

We build, scale and invest into businesses and technologies that enable a 1.5°C world and transform industries in partnership with corporations, investors and entrepreneurs, thus accelerating the net zero transition

 We have differentiated commercial offers for corporates, VCs and startups





Our Offer | Capturing value and measuring impact is key to transform our clients' companies holistically

BUILDING (NEW) SUSTAINABLE BUSINESSES

7 Demand & value capture

Help clients capture business value from their Sustainability transformation: topline (market expansion, new customer segments), bottom line (operational cost efficiencies, lower cost of capital), mitigated risks, enhanced market valuations, but also intangible assets like stronger employee attraction and retention

- Size the value potential: for each business segment, identify priority value levers, assess feasibility, and size the potential prize, estimate cost of sustainability changes
- Capture the value pilot a sustainability and value tracking method to then measure, learn and refine before rolling out the solution
- Build and embed capabilities: establish agile value engine team and mechanisms, and build sustainability value capture expertise across marketing, pricing, product and investor relations

Our Offer | We help build the enablers that support our clients' E2E transformation journeys

ENABLING THE TRANSFORMATION

ESG data, measurement, &

One-stop-shop for analytics & data capabilities (including data sourcing strategy) to accelerate and enable an ambitious sustainability transformation, with the ability to

- Leverage BCG tailor-made data & analytics solutions to answer the short-term needs of our clients (such as ESG score optimization)
- Quickly build data and analytics capabilities (tech infrastructure, data governance, reporting platform) to track Sustainability commitments and steer operationalization at group and BU level

Sustainability partnerships for collective action

End to end offer to assess, set-up alliances, defining collaboration strategy, improving their efficiency, strengthening governance to accelerate delivery of sustainability targets

 Help corporates and existing sustainability partnerships navigate complex ecosystem and optimize their participation in multistakeholder initiatives to maximize impact

ESG people and organization

Anchor Sustainability across all dimensions of the organization: leadership, performance management, processes, governance and culture to successfully deliver on our clients' Sustainability agenda and make it authentic and real for our clients' people

- Define and implement the relevant organization set-up to, incentives & governance mechanisms
- Build ESG expertise at speed and at scale in the organization through a Build-Operate-Transfer (BOT) approach

Deep Dive ESG Data | Data SAP x BCG solution enables transparency and tracking building on complementary strengths

Automated footprint baseline To develop an accurate and granular baseline of today's emission footprint-with +30-50% emission accuracy compared to today1 Data & analytics engine import To get an automated live view on all data from operative systems (e.g., ERP) Simulation impact of abatement initiatives Decisions and actions BCG to navigate the Net Zero journey Forum All rights lesewed. across the full value chain technical solution Sorting and Steering Reporting & decision support Initiative tracking To monitor initiative outcomes and To prioritize initiatives/investments and track overall roadmap progress on to report accurate CO2 numbers 1. 30-50% adjustment vs. traditional methods, based on BCG experience to date on scope 3 for CPG Public APIs from PFM, SCT to support the integration between BCG and SAP solutions a recurring basis

Deep Dive ESG Data | SAP x BCG approach delivers best-in-class baselines and transparency on emissions CO2 AI Al as digital speed before the production of the same of the s



CO2 AI as digital speed boat for fast emissions impact



Worlds most comprehensive sustainability data base



Coolinuous AI-based learning and optimization



Automated mapping of Sartorius data



Enterprise and across Value Chains



Product footprints at scale for disclosure and internal product optimization with SAP PFM1



Steering and reporting across your sustainability ambitions with SAP SCT²





Deep integration into industry and supplier ecosystem



Supplier ecosystem solution in partnership with CDP



Methodology and data standardization with WBCSD Carbon Transparency Pathfinder Framework



Leading MedTech players generally perform well across ESG ratings

Benchmark approach & description:

Measures relative ESG performance across key issues based on several hundred quantitative and qualitative data points



Scores (0-100, 100=best)



Scores (0-10, 10=best)

Outside-in

Aggregating multiple public & private AI-based NLP algorithm to assess ESG sentiment ESG scores from >700 sources

Scores (0-100, 100=best)

across public data on material issues (SASB)

TRUVALUE LABS

Insight score (0-100, 100=best) Momentum (12mths trailing)

Rating scale		E	S	G	<u> </u>	Ε	S	G	Ε	Empl.	Comm.	G	insight	Momentum
J&J	A	11133	97	76	BBB	6.3	_5.4	2.4	75	66	61	55	37	
Philips	Acr	81	95	83	ВВ	10.0	4.7	<u></u>	72	<u>62</u>	59	57.8	55	
Olympus	A-	78	89	77	ВВ	10.0	3.2	7.1	75	56	57		59	
Baxter	A-	76 <u></u>	82	<u> </u>	Α	10.0	6.2	4.8	71	71	<u>64</u>	60	59	
Croda	A-	92	77	<u>69</u>	AAA	7.4	<u> </u>	6.7	69	<u>64</u>	_60g	57	75	
Boston Scientific	A-	61	90	78	BB	10.0	4.4	4.5	70	64	€ 88	56	56	
Novozymes	A -	83	79	67					69	<u>_62</u>	61	55	69	
Stryker	A -	61	78	84					56	_5&®	50	52	61	
Siemens Healthineers	A-	71	79	76					52	<u>₹51</u>	52	46	64	
BD	B+	77	87	52						<u>63</u>	59	58	44	
Abbott	B+	77	89	[44]					MD.	68	62	57	47	
Cardinal Health	В+	_57	<u>[65</u>]	86					65	<u>60</u>	55	57	26	
Medtronic	В	78	<u>89</u>	21				్టర్	72	<u>66</u>	62	57	53	
Livanova	(3-) 0		45]	77				THEME	_50	<u> 49</u>	47	50	38	

Note: Peers sorted according to Refinitiv score; MSCI ESG data for leading five peers Source: Refinitiv, MSCI ESG, CSRHub, TVL - all data extracted 2March22

Positive

Negative

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How to become an ESG Champion in MedTech

DEFINING AMBITION, STRATEGY, ROADMAP

Identifying ESG topics based on company and industry context, and developing end-to-end ESG strategies that are anchored in purpose, set specific targets (net-zero) and provide actionable roadmaps

MAKING THE CORE SUSTAINABLE

Transforming how businesses operate to deliver enhanced social and environmental impact and achieve greater resilience

UNLOCKING VALUE AND IMPACT

Capturing value through translating sustainable activity into enhanced business outcomes

BUILDING (NEW) SUSTAINABLE BUSINESSES

Embedding sustainability in what businesses do through portfolio shift, business model innovation or new business build

INTEGRATE ANALYTICS & DATA

Acceleration and enablement an ambitious sustainability transformation with analytics & data capabilities

SUSTAINABILITY PARTNERSHIPS

Assessing end-to-end offers to set-up alliances and define collaboration strategies

ESG PEOPLE AND ORGANIZATION

Ensuring authentic leadership on sustainability, while maximizing impact creation through the organization

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