

# sustaining life for generations

Sustainability at Merck KGaA, Darmstadt, Germany

Investor Relations Darmstadt, October 2021



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## Scientific exploration and responsible entrepreneurship Caring, pioneering and outperforming

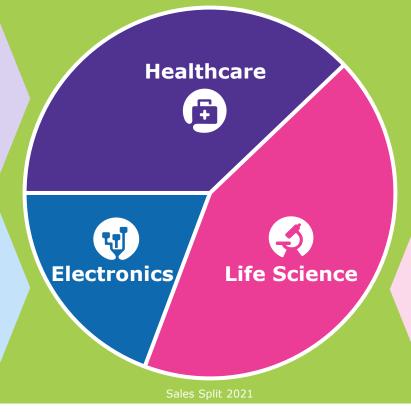


#### Healthcare

Patients are at the center of our work and with every advance, we are improving lives

#### **Electronics**

We want to be the partner of choice for those creating the innovations of tomorrow



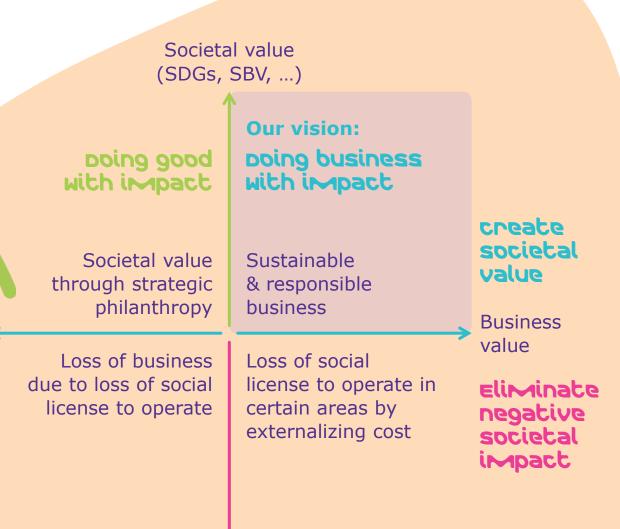
- Accelerating Science & technology leadership
- Innovation Power
- Pioneering Products
- Responsible Governance

#### **Life Science**

We want to solve science's toughest challenges and accelerate access to better health

# sustainability impact

Accelerating positive impact on environment and society



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### Enabling a sustainable future for an increasing number of people: Where we can make the biggest difference



SDGs: Sustainable Development Goals of the United Nations



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1

9

### Good health and well-being

With our products, we create a positive impact on the health and quality of life of people around the world.

# Decent work and economic growth

We see it as our responsibility to respect human rights both within our company and along our supply chain. That is why we are dedicated to upholding appropriate and fair labor and social standards.

# Industry, innovation and infrastructure

We use our expertise in science and technology to make our products, processes and infrastructure sustainable.



We use resources efficiently and reduce waste and emissions. We pay attention to this throughout the entire life cycle of our products.

### Partnerships for the goals



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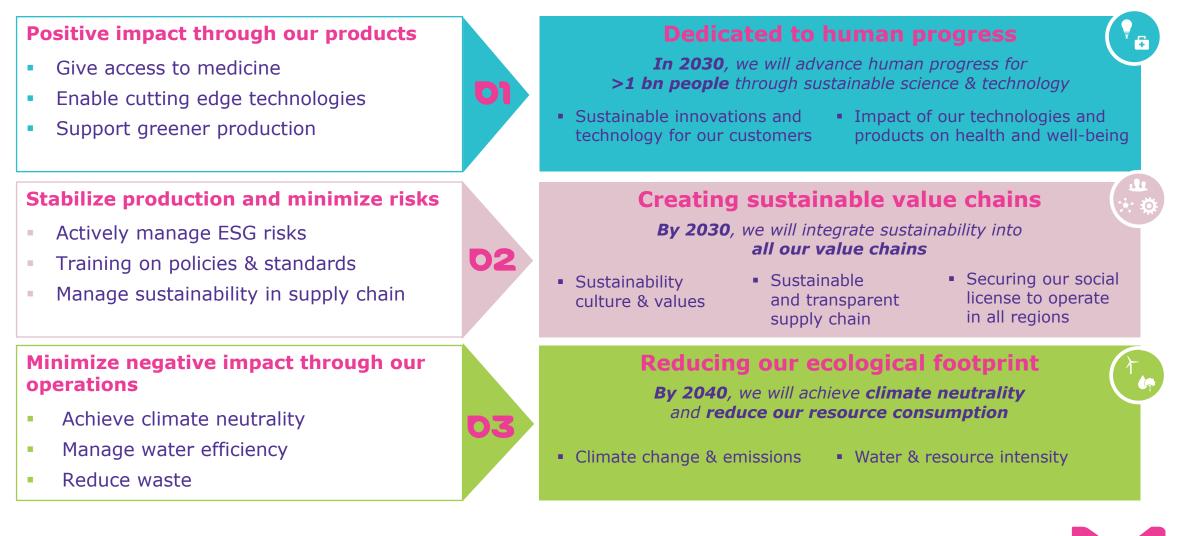
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We need strong partners in order to drive sustainable development within our company and beyond and to better meet societal challenges. We therefore collaborate with a wide array of organizations, companies, federations, and networks.

#### Additional contribution to:



### Boundaries of human progress today will become reality tomorrow: Our sustainability goals





## Group's Sustainability Strategy Deep dive strategic focus areas

## Sustainability innovation and technology for our customers

- Sustainability as integral part of product design
- Enable **customers** to reduce sustainability footprint
- SBV as a tool to assess net sustainability **impact**

# Health and wellbeing impact of our technologies and products

- Health (Healthcare, Life Science) & wellbeing (Life Science, Electronics)-related impact of:
  - Our **products**
  - Our activities

#### **Climate change and emissions**

- Greenhouse gas emissions Scope 1, 2, 3
- Renewable energy
- Energy efficiency in operations



#### Sustainability culture & values

- Diversity & inclusion activities
- Sustainability **mindset**: Communication, trainings, incentive schemes
- Employee engagement

# Sustainable and transparent supply chain

- Supply chain management activities:
  - Sustainability **assessments**
  - Supplier data management

## Secured social license to operate across regions

- Safe & ethical research, ethical & compliant business conduct
- Plant & process safety, patient & product safety
- Stakeholder engagement & communication

#### Water and resource intensity

- Waste & water management and recycling
- **Circular** activities



### Group's Sustainability Goals 1|3 Dedicated to human progress

# Sustainable innovations and technology for our customers

We believe that we can harness science and technology to help tackle many global challenges.

### Impact of our technologies and products on health and well-being

At least half of the world's population still does not have adequate access to health. We strive to increase quality of life, healthy living and well-being.

Examples

mRNA technologies

Access to Medicine

Fighting malaria & schistosomiasis



## Group's Sustainability Goals 2|3 Creating sustainable value chains

### Sustainability culture and values

Sustainability has been part of our company culture for centuries and is reflected in our values.

# Sustainable and transparent supply chain

Our supplier management focuses on high-quality, delivery reliability, and competitive prices in addition to global compliance with fundamental environmental and social standards.

# Securing our social license to operate in all regions

We aim to mitigate the ethical, financial and societal risks of our business activities and in doing so, we advocate for and ensure our social license to operate.



People from 35% of leadership roles Group-wide nations are occupied work for us by women 1111 - 1111 () In 2020, we conducted 274 community outreach activities in **96** countries

### Group's Sustainability Goals 3|3 Reducing our ecological footprint

#### **Climate change and emissions**

We are doing our part to help mitigate climate change because we believe that climate protection and energy efficiency will pay off in the long run – for both the environment and our business.

### Water and resource intensity

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We strive to use our resources as efficiently as possible. We aim to conserve and recycle water and reduce waste.

### **Reduce the impact on the environmental footprint of our products by improved packaging**

We are working to find new ways of making our Life Science products and packaging more environmentally sustainable, while still getting them to our customers in a safe and timely manner.

### **Examples**

Green Virtual Power Purchasing Agreements

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4<sup>th</sup> cleaning step in Darmstadt waste water plant

<u>SMASH packaging</u> program TO3

climate

SOS

neutrality

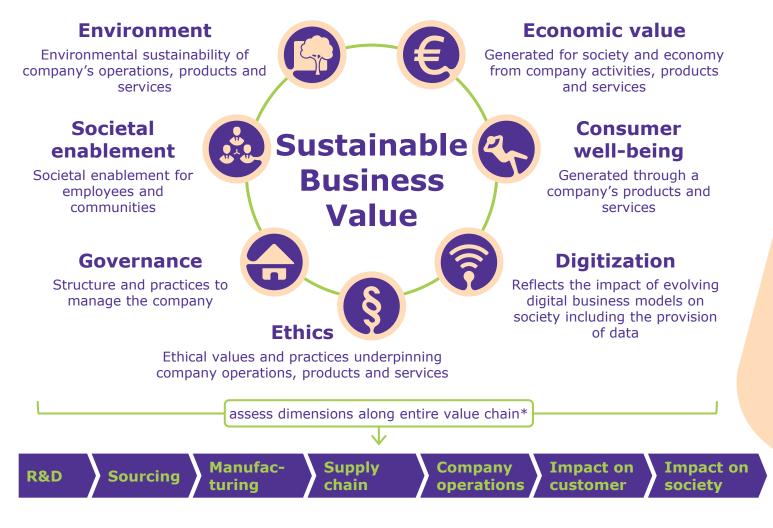
## Sustainability Milestones Clear set of tasks to enable our 2030 ESG goals

Tasks 🧾	Development In place	Results and next steps 💣
<b>Analysis of requirements:</b> Strategy, business, regulation, stakeholders		<b>Ongoing</b> due to developing field of ESG stakeholder expectations and regulation
Build effective <b>data platform</b> for <b>internal steering</b>		Feed in internal data, external data, industry benchmarks and <b>modelling projects in 2021</b>
Develop ESG <b>KPIs</b> for <b>reporting</b>		Developing & evaluating <b>ESG KPIs</b> for steering, milestones, decide on reporting <b>in 2021</b>
Develop <b>SBV tool<sup>1</sup></b> to measure <b>product sustainability value</b>		SBV tool <b>developed and tested</b> in up to 10 cases <b>by 2021</b>
Link ESG <sup>2</sup> to <b>board compensation</b> with 20% sustainability factor from 2022 on		Approved by AGM, qualitatively included, quantitative factor to be developed in 2021
Further incorporate ESG in R&D, Controlling, M&A and Supply Chain		<b>ESG-Framework M&amp;A/Capex in 2021</b> , progress in supply chain, controlling, R&D
Decide on <b>dedicated investments</b> and <b>initiatives</b> to achieve targets		Business strategies and priorities under development, <b>budgeting &amp; decisions in 2021</b>

<sup>1</sup>Sustainable Business Value: Dive in deeper and read the research article on the <u>SBV method</u>; <sup>2</sup>ESG: Environmental, Social, Governance



## Measuring Sustainability Impact of Business along the Value Chain 7 dimensions of Sustainability Business Value (SBV)



### First use cases across B2C & B2B calculated, e.g.

### **Liquid Crystal Windows**

Maintain the **benefits of natural light** while providing indoor privacy on demand as well as shading.

#### Schistosomiasis Elimination Program

Provide up to 250 million praziquantel tablets annually for **treatment of schistosomiasis** in 47 African countries.

#### **Solvents for Pharmaceuticals**

Enabling the **next generation of drugs** by serving applications in the pharmaceutical industry across R&D, production, and quality control.





# Merck KGaA, Darmstadt, Germany

Expanding KPIs to monitor and steer sustainability comprehensively

	Goal	Exemplary KPIs to be implemented in 2021
		# of people positively impacted by our technologies/products
	Progress	% of new patent families with positive sustainability impact
		Environment, Health and Safety: Incident Rate
	Sustainable Value Chain	% of employees trained on sustainability
		% of relevant suppliers that are covered by a sustainability assessment/audit
	<b>D3</b> Ecological Footprint	Greenhouse Gas Emissions Scope 1+2
		Greenhouse Gas Emissions Scope 3
		Waste Score & Water Intensity Score

### Our sustainability ambition is integrated in the Executive Board remuneration system

#### From 2021 onwards:

Explicit reflection of the new targets on **qualitative level** in the criteria **for the profit sharing modifier** (0.8-1.2)

In addition, from 2022 onwards: Quantitative sustainability factor (0.8-1.2) applicable in the **long-term incentive plan** for the executive board

Set of sustainability KPIs will build the underlying basis for the development of the sustainability factor



### **Reduce our environmental footprint: Emissions, Water and Waste**







 Aiming for climate neutrality (scope 1-3 emissions) by 2040

- Lower scope 1 and 2 GHG<sup>1</sup> emissions by 50% and to source 80% of purchased electricity from renewable sources until 2030 vs. 2020 baseline (2020: ~2,100 kt)
- Absolute reduction of 1,500
  kt<sup>2</sup> scope 3 CO<sub>2</sub> equivalents by 2030



Enhance water efficiency, reduce harmful emissions

- Enhancing water efficiency and improve the new Merck KGaA, Darmstadt, Germany water intensity score by 10% by 2025 vs. 2019 baseline
- Minimize negative environmental impacts, harmful emission residues should be lowered below a scientifically defined threshold by 2030

 Based on the Group's Waste Score, we have set ourselves the goal of reducing the environmental impact of our waste by 5% by 2025 compared to 2016

**Reduce waste impact** 

 By end of 2020, we achieved a reduction of 4.6%



## Diverse human capital Thinking, talking, and leading differently

Focus areas	Status quo 2020	Aspirations		
Gender	35% women in leadership globally	<b>Gender parity</b> * until 2030		
Culture &	<b>20%</b> of underrepresented ethnic colleagues in US leadership	Increase to <b>30%</b> until 2030		
Ethnicity	<b>16%</b> of nationals from Asia, Latin America, Middle East & Africa in leadership	Increase to <b>30%</b> until 2030		
Inclusion	Rollout of Inclusive Leadership Programs and participation of leaders across all business	Participation of <b>all</b> leaders by 2026		
* The gender concept considers room for non-binary people The <b>uniqueness</b> of our people brings our <b>curiosity</b> to life. It contributes to our success in science & technology.				

### External stakeholders assess our engagement



As of 2021, the Group received an MSCI ESG\* Rating of AAA.

\*Environment, Social, Governance



factors.

In March 2021, we received an ESG Risk Rating of 19.5 and were assessed by Sustainalytics to be at **low** 



Since 2008, we are part of FTSE4Good Index, measuring the performance of companies with strong risk of experiencing material ESG practices (top 15).



In 2020, we have once more achieved **prime status** by ISS Oekom.



In 2019, the Group share was again included in STOXX Global ESG Leaders Index,

a sustainability index based on key environmental, social and governance criteria.



The Group has been reconfirmed as a constituent of the **Ethibel** Sustainability Index (ESI) Excellence Europe since May 2020, based on VigeoEiris.



financial impacts from ESG

Merck KGaA, Darmstadt, Germany for the second time received platinum status in 2021, among the top 1% of companies. EcoVadis

annually examines ~75,000 suppliers from 160 countries.



FTSE4Good

CDP Climate: In 2020, we scored "B" (2019: C). CDP Water: In 2020, we received a "B" (2019: B).



In the 2021 Access to Medicine Index we ranked eighth place. We were recognized for our performance in R&D, where we ranked fifth.



## Generating positive impact by usage of our innovations Further hope to save the Northern White Rhino

# October 4th world animal day



- Northern White Rhino suffered for decades on illegal hunting of their horns leaving only two female Northern White Rhinos left
- Collaboration with conservationists and research groups of the BioRescue project, part of a multi-national partnership
- Funded by the German Federal Ministry of Education and Research (BMBF), supported by Leibniz Institute for Zoo & Wildlife Research, and local partners in Kenya
- With the donation of Geri<sup>®</sup>, we are giving access to worldleading fertility technologies as well as providing ongoing counsel and scientific expertise
- Fertilized eggs developed into viable embryos with the help of Geri<sup>®</sup> (innovative benchtop incubator with integrated continuous embryo monitoring capabilities)
- Next step of the project: prepare the surrogate mother for the embryo transfer



<u>Link to project video</u>
 ©Photos by Ami Vitale and Cesare Galli/Avantea

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