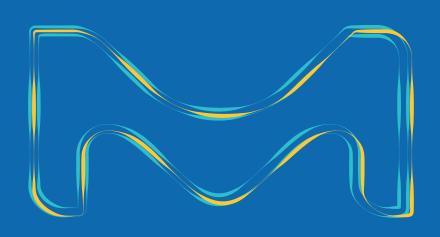
# our corporate reponsibility

**General Overview** 

2019





#### **Disclaimer**

Publication of Merck KGaA, Darmstadt, Germany. In the United States and Canada the group of companies affiliated with Merck KGaA, Darmstadt, Germany operates under individual business names (EMD Serono, Millipore Sigma, EMD Performance Materials). To reflect such fact and to avoid any misconceptions of the reader of the publication certain logos, terms and business descriptions of the publication have been substituted or additional descriptions have been added. This version of the publication, therefore, slightly deviates from the otherwise identical version of the publication provided outside the United States and Canada.



successful Business with a Conscience

# of everything we do.

We want to develop products that

### create sustainable value

for our customers, for our company and for society.

"Merck KGaA, Darmstadt,
Germany has been operating for
more than 350 years. Our long
history has taught us that
sustainable business success is
always the result of responsible
conduct."

Stefan Oschmann,
Chairman of the
Executive Board and CEO



#### View from the outside 1/2

#### External stakeholders valuate our engagement



Since 2008, Merck KGaA, Darmstadt, Germany shares have been included in the FTSE4Good Index.



Merck KGaA, Darmstadt, Germany was confirmed as a constituent of the **Ethibel Sustainability Index** (ESI) Excellence Europe in 2018.



In 2018, the Merck
KGaA, Darmstadt,
Germany share was
once again included in
STOXX Global ESG
Leaders Index, a
sustainability index that
assesses companies
based on key
environmental, social
and governance criteria.



Since 2015 Merck KGaA, Darmstadt, Germany has been a member of the **Euronext Vigeo** – **Eurozone 120.** 

The index includes companies that show high performance with respect to 38 sustainability drivers.



In 2018, Sustainalytics awarded us 79 out of 100 points, putting us among the leading pharmaceutical companies – with particularly high marks in corporate governance, community outreach, and environmental performance.



### View from the outside 2/2

#### **Proof points for our leading position**



In 2018, Oekom research AG gave Merck KGaA, Darmstadt, Germany a "B-" rating which means we have once more achieved **prime status.** 



Merck KGaA, Darmstadt, Germany received **Gold** status in 2019, among the **top 1% of companies.** 

EcoVadis annually examines 45,000 suppliers from 150 countries. The rating focuses on 21 criteria; topic areas: environment, social affairs, ethics, and sustainable procurement.



In the **2018 Access to Medicine Index** Merck
KGaA, Darmstadt,
Germany ranked **fourth place** again.

The ranking appreciates our efforts supporting low and middle income countries by providing expertise and lab supplies.



Participation in CDP (formerly Carbon Disclosure Project) since 2008.

**CDP Climate:** In 2018, we scored "C" (2017: B).

**CDP Water:** In 2018 we received a "B-" (2017: B).



Merck KGaA, Darmstadt, Germany ranks on fourth place among its peer companies and achieved a total of 54 out of 100 points ("robust") with respect to environmental, social and governance (ESG) topics.

In 2018 Vigeo Eiris, a sustainability rating and research agency, analyzed ~ 4,500 companies.



Fulfilling our

corporate responsibility strategy ...

We seek to create added value both for the Company as well as for the community...

... focusing our strength on those areas where we can achieve the highest impact.



We conduct our business in a responsible manner:

By doing so, we secure our **social license to operate** and enhance the competitiveness of our company.



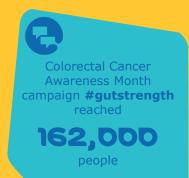
## Strategic sphere Global Health Improving care globally

We provide people with **access to adequate high-quality healthcare,** for example

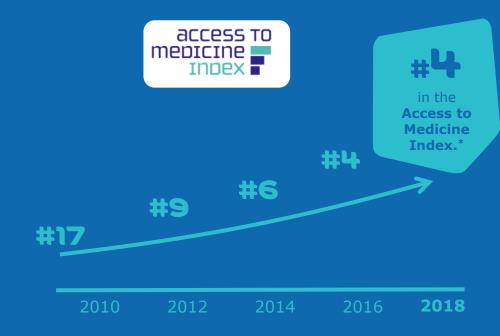
- We improved access to better therapies in diabetes, cancer, hypertension, and fertility in underserved regions through the Merck KGaA, Darmstadt, Germany Capacity Advancement Program
- We strengthened the Merck KGaA,
   Darmstadt, Germany Global Health
   Institute to accelerate R&D,
   incorporate access provisions and build capacity
- We conduct awareness campaigns

   e.g. for diabetes, thyroid disorders









<sup>\*</sup>The ATM Index assesses the degree to which companies have improved access to medicines in developing nations.



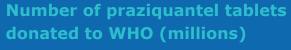
## Strategic sphere Global Health Our engagement in Africa

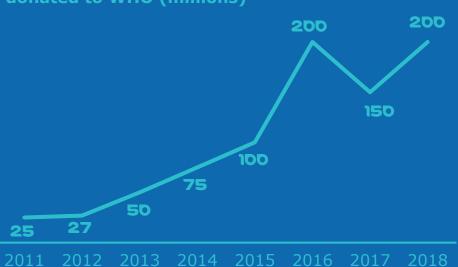
### 3 AND WELL-BEING

#### **Preventing and treating infectious diseases**

- We aim to eliminate the worm disease schistosomiasis.
  - Since 2007, we have donated over 900 million praziquantel tablets to WHO for distribution across 46 nations in Africa
  - We support the NALA Foundation with a Schistosomiasis Health Education Project targeting 850,000 people in Ethiopia
  - We are developing a pediatric formulation of praziquantel for children under the age of six (Phase III study will be implemented in 2019)
- We help delivering integrated and sustainable health solutions against malaria (treatments, diagnostics, prevention methods)
- New compound is being developed as a single-dose combination to treat and potentially prevent malaria in children (Phase I study underway since 2017)









#### Strategic sphere Sustainable Solutions

#### More sustainable products throughout their life-cycle



Continuously improving the sustainability performance of our products and helping our customers to reach their sustainability targets:

With the Design for Sustainability (DfS) program, we reduce environmental impacts of devices and instruments, also through customers' own use, when developing a new product.

#### For example:

- By the end of 2018, 27% of these DfS product development projects met three or more product sustainability criteria.
- EZ-Fit<sup>™</sup> Manifold laboratory filter now requires 47% less raw material than its predecessor.

Our in-house-developed webbased tool **DOZN™** enables us to assess green alternatives of various chemicals, creating transparency for our customers.

#### For example:

- Cyrene™: Bio-based solvent derived from waste cellulose is used as an alternative to the critical substance formic acid.
- · To date, we have used this matrix to assess and improve more than 40 products.

We develop display technologies that reduce energy consumption.

#### For example:

In 2018

Cyrene was

shortlisted for the

"innovation of the

year" at the Ethical

Corporation's

Responsible Business

Awards.

- We are developing high performance **OLED** materials for vacuum evaporation methods and printing processes. OLEDs increase the energy efficiency of displays.
- Our liquid crystal the new brand eyrise<sup>TM</sup> can lower the energy consumed by building climate control by up to 40%.





Niemever.

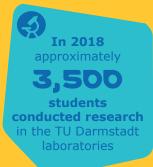


### Strategic sphere Broad Minds

#### **Foster creativity and curiosity**



By making education on all levels and culture accessible, we nurture characteristics that are essential to us as a high-tech company, namely creativity, enthusiasm for new discoveries and curiosity:



In **2018** more than

students

engaged by SPARK

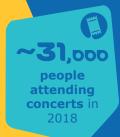
Global Volunteer

We inspire a love of science in the next generation of researchers with a special focus on science education.

- Junior laboratories with the Technical University (TU) of Darmstadt
- School booster program in Germany helped ~70 schools conducting experiment-based science
- Curiosity Cube tour within SPARK program travelled 30,000 kilometers in North America



**Deutsche Philharmonie** Merck KGaA, Darmstadt, **Germany** is our musical ambassador



Literature can stimulate imagination and give courage:

We further writers who drive cultural exchange





professors teaching on an voluntary basis. In addition we are sponsoring several university professorships.





## How do we secure our social license to operate? **Looking, listening and doing better**

conduct as central pillar of our company culture and integrated in our corporate governance.

2

our products and technologies help to

solve global problems: When it comes to safety, environmental sustainability and ethical practices, we have extremely high expectations and standards.

We are dedicated to **environmental stewardship**, working to conserve resources such as energy, water and raw materials while reducing emissions and waste.

5

3

Secure **Supply Chains** are key to our success: We take a risk-based approach and are member of the Together for Sustainability initiative - pushing for better environmental, compliance and social standards at suppliers.

Across all our sites worldwide, we are deeply committed to **Supporting our communities.** 

5 4

people are crucial to our success: We seek to retain and develop them.

We are integrating human rights due

diligence into our processes.



## Our social license to operate: Governance Integrating responsible behavior into our governance

- Company **values**, along with the external regulations and our commitment to initiatives
- Group-wide **guidelines** such as the Corporate Environment, Health and Safety (EHS) Policy, the Human Rights Charter or the Genome Editing Principle
- Derived from the charters, principles and policies, our **internal standards** give specific guidance to those responsible for operational processes

Our employees are educated and trained on all guidelines that apply to them.



employees and contractors took part in 2018 in the anti-corruption training available in 15 languages.

In response to the European General Data

Protection Regulation (EU GDPR), we redesigned our regular



eLearning course,

rolling it out in 17 languages.



## Corporate Governance at Merck KGaA, Darmstadt, Germany Reaching a new level of transparency in board compensation and CG

### IMPROVEMENTS underway:

- Intense dialogue with national and international investors to discuss state of the art compensation systems
- Board compensation system is built on best practice and leading voluntary guidelines: Reported according to the German Corporate Governance Code
- Last voting of AGM on the compensation system (not mandatory for the Company as a KGaA) in 2018
- Since 2018 Merck KGaA, Darmstadt, Germany provides a more transparent and user friendly remuneration report
- Awarded in 2018 with the "Euroshareholder Award for the Most shareholder-friendly Directors' Pay System DAX30"
- Introduction of maximum age (75 years) and maximum length of membership (15 years) in the Supervisory Board in 2017
- Open for a dialogue between Supervisory Board and investors

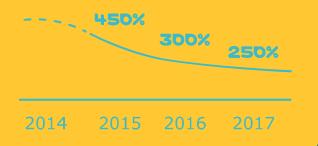








### **Total Cap for LTI Grant Amount** in total

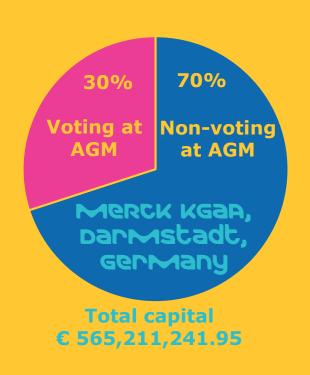


## Corporate Governance at Merck KGaA, Darmstadt, Germany The best of both worlds –family-owned and publicly listed

### **Share capital of limited liability shareholders**

€ 168,014,927.60 (129,242,252 shares)

- Around 30% of the total capital of Merck KGaA, Darmstadt, Germany is publicly traded
- Only the share capital of limited liability shareholders is entitled to vote at General Meetings
- The supervisory board is elected to promote the interest of the share holders



### **Equity interest of General Partner E. Merck KG, Darmstadt, Germany**

€ 397,196,314.35

- General partner, holds around 70% of the total capital of Merck KGaA, Darmstadt, Germany
- Limited role of the Supervisory Board of Merck KGaA, Darmstadt, Germany (however, no restrictions of its audit duties)
- Instead, some of the responsibilities that lie with the Supervisory Board of a German stock corporation are fulfilled at Merck KGaA, Darmstadt, Germany by the Board of Partners of E. Merck KG, Darmstadt, Germany



## Corporate Governance at Merck KGaA, Darmstadt, Germany **Profile of skills, expertise and diversity of Supervisory Board**

In their entirety, the Nominees for the election of the Supervisory Board in 2019 fulfill the profile of skills, expertise and diversity (see Merck KGaA, Darmstadt, Germany's Annual Report). Newly elected members complete a comprehensive on-boarding process.

Profile of skills, expertise and diversity



Profile	met
Important fields of the Group	<b>✓</b>
Main sales geographies	<b>✓</b>
Management experience	<b>✓</b>
Experience in business administration	<b>✓</b>
External supervisory & control boards	<b>✓</b>
Percentage of women	<b>✓</b>
Digital	<b>√</b>
ESG (Environment, Social, Governance)	<b>/</b>

The **Profile of Skills, Expertise and Diversity**for the Group's Supervisory
Board aims at:

- Min. 4 members with experience in main important fields of the Group (HC, LS, PM)
- Min. 3 members with experience in the main sales geographies of the Group (Europe, Americas, Asia-Pacific)
- Min. 3 members with management experience in medium- to large-sized companies
- Min. 4 members who have in-depth knowledge of business administration
- Min. 4 members which are also members in other external supervisory and control boards
- A percentage of women of min. 37,5%



### Corporate Governance at Merck KGaA, Darmstadt, Germany **Boards and Committees**

#### Shareholders of Merck KGaA, Darmstadt, Germany

- Shareholders hold ~30% of the total capital of Merck KGaA, Darmstadt, Germany
- This capital is divided into bearer shares and one name share without nominal value listed at the German Stock Exchange's Prime Standard, member of the DAX 30 (German Blue Chips). The bearer shares are entitled to vote at Merck KGaA, Darmstadt, Germany's Annual General Meeting with one vote per share.
- The Merck KGaA, Darmstadt, Germany Share is a name share

#### Supervisory Board

- Its Chairman leads the AGM, representing the interests of Merck KGaA, Darmstadt, Germany 's shareholders
- Approving the financial statements of Merck KGaA, Darmstadt, Germany
- Working together with Executive Board, receiving reporting on progress regarding business and financial development at Merck KGaA, Darmstadt, Germany, having 1 committee: Nomination Committee
- Containing 16 members: 8 employee representatives, 8 representatives incl. 2 family representatives and 6 elected and independent shareholder representatives

#### **Nomination Committee**

- Define criteria for the selection process and target profile of potential supervisory board members
- · Make proposals for new candidates

#### Personnel Committee

- Decisions regarding members of the Executive Board
- Executive Board employment contracts
- Compensation system

#### E. Merck KG, Darmstadt, Germany: Partners' Meeting & Family Board

- E. Merck KG, Darmstdt, Germany holds ~70% of the total capital of Merck KGaA, Darmstadt, Germany (99.9% Family)
- These 70% of the total capital are not entitled to vote at Merck KGaA, Darmstadt, Germany 's AGM
- Family Board represents the entrepreneurial interests of the family (elected by partners' meeting)

#### **Board of Partners**

- Elected by the Family Board and taking over some duties of a usual Supervisory Board:
- Appointment, dismissal and supervision of Executive Board members of Merck KGaA, Darmstadt, Germany
- Granting approval of extraordinary business transactions and approves the annual financial statements of E. Merck KG, Darmstadt, Germany.
- It contains 5 members of the Family Board and 4 external members of the business community, having 3 committees: Personnel, Finance, R&D Committee

#### Finance Committee

- Analyzing and discussing the annual financial statements
- Recommends an auditor for the annual financial statements

#### **R&D** Committee

 Reviewing and discussing the research activities of Healthcare, Life Science and Performance Materials

#### **Executive Board**

- The Executive Board is the management body and the face of E. Merck KG, Darmstadt, Germany
- Conducting the business of Merck KGaA, Darmstadt, Germany representing the company externally re. strategy, business development, financials
  - Implementing the resolutions passed by E. Merck KG, Darmstadt, Germany and Supervisory Board

### Corporate Governance at Merck KGaA, Darr Remuneration System

Last AGM approval on remuneration system:

2018

- Share plan based on virtual shares
- KPIs: 50% MRK share price vs. DAX, 25% EBTDA pre margin, 25% organic sales growth
- 3 year cycle with 250% max individual cap
- Ex-post disclosure of performance corridor
- KPI: 3-year average of Profit after tax
   (E. Merck, KGaA, Darmstadt, Germany) -> this
   measure also serves
   for dividend calculation
- Discretionary factor 0.7-1.3
- Profit sharing criteria catalogue
- Individual maximum amount
- Individual performance factor disclosed, in case of ≠1 disclosure of applied criteria
- Performance independent compensation
- Additional benefits like contributions to insurance, security expenses, car

#### Increasing criteria (bonus)

- + Successful M&A activities
- + Strategic development or reorganization
- + Achievements in important projects
- + Achievements in the area of individual responsibility
- + Contributions to stakeholder objectives like CSR, diversity

#### **Lowering criteria (malus)**

- Violations of internal rules, e.g. code of conduct or external rules on responsibility, unethical behavior or contradictory to our company values
- Failure in executing important projects
- Missing objectives in the area of individual responsibility

### Improved remuneration system since 2018

- Share ownership guideline
- Claw back rule
- Disclosure of total and single compensation caps
- Disclosure of LTIP corridor ex-post
- Using GCGC tables
- Including CSR and diversity in profit sharing catalogue
- Approved by AGM in 2018

At Merck KGaA, Darmstadt, Germany, unlike publicly listed German stock corporations, it is not the Supervisory Board, but the Personnel committee of the Board of Partners of E. Merck KG, KGaA, Darmstadt, Germany that decides on the amount and composition of compensation received by our Executive Board members.



### Corporate Governance at Merck KGaA, Darmstadt, Germany Anticipatory resolutions on capital measures



#### **Authorized Capital**

- valid until April 2022
- 56.521.124,19 €
- 33,6% of base capital
- Exclusion of subscription rights of 20% (cumulative with contingent capital described below)

Merck KGaA, Darmstadt,
Germany can issue
stock without
shareholder approval of
33.6% of shares
outstanding
(with a maximum of
20% exclusion of
subscription rights)

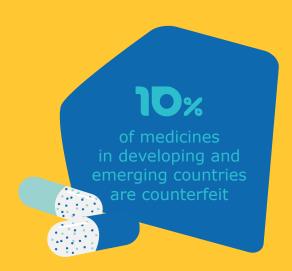


#### **Contingent Capital**

- valid until April 2023
- 16.801.491,20 €
- 10% of base capital
- Exclusion of subscription rights of 20% (cumulative with authorized capital described above)
- Authorization to issue warrant and/or convertible bonds, participation rights or participation bonds, or a combination of these instruments

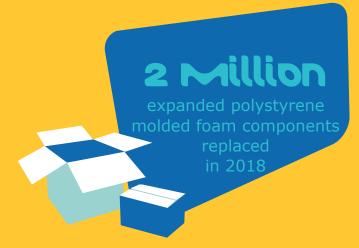


#### Our social license to operate: Products & technologies **Products with sustainable impact**



#### **Fighting counterfeit medicines**

- We secure our products against counterfeiting and are deeply committed to fighting product-related crime
- We apply a unique serial number to our pharmaceutical packaging
- With the GPHF Minilab®, a portable, compact laboratory, counterfeit medicines can be detected quickly, easily and inexpensively



#### **Committed to circular economy**

- >300,000 products in our Life Science portfolio need sustainable packaging
- We used approximately 669 metric tons of molded pulp packaging material in 2018
- End of 2018, we kicked-off our sustainable packaging plan with four goals:
  - Reduce amount of packaging
  - Achieve zero deforestation
  - Improve plastic sustainability
  - Maximize recycling



#### Thin & light with supreme contrast

- OLED materials increase energy efficiency of displays while providing brilliant colors and razor-sharp images
- OLED production: Some material always remains in the used containers and machinery. Our customers can collect this residual and send it back to us. We then prepare it so that it reaches its original quality again and can be reused.



## Our social license to operate: People (1/3) **Engagement is key**



## 61% of employees feel engaged at work

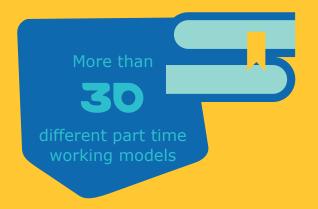
#### Realizing people's full potential

- Regular feedback on employee performance
- Leaders and subordinates work together to define individual objectives
- 70% of employees create development plan reflecting each employee's tasks and strategic priorities

#### **Employee engagement**

Annual Group-wide Employee Engagement Survey:

- platform for employees and management to share opinions and ideas
- benchmark against our competitors
- 2018 we included questions regarding employee health. The input is used to calculate our company's Healthiness Index from 2019 on.

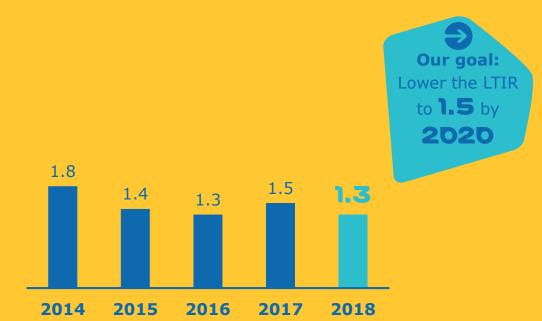


#### Better work-life balance

- New Group-wide guideline facilitates the use of flexible working time and location options in the twelve major countries
- Part-time employees (5% of total workforce) receive the same job benefits as fulltime workers
- Parental leave conditions beyond statutory requirements for 45% of workforce



### Our social license to operate: People (2/3) **Well on track for our goals**



#### **Health & Safety for our people**

The lost time injury rate (LTIR)\* is the indicator to assess the success of our safety efforts.



#### **Turnover rate**

Focus on a stable workforce that brings our strategy to life and moves the business forward.



<sup>\*</sup> LTIR = workplace accidents resulting in missed days of work per one million man-hours.

<sup>&</sup>lt;sup>1</sup> Employee turnover for 2014 was calculated: Total number of leavers of the past 12 months multiplied by 100 divided by the employee headcount as of December 31.

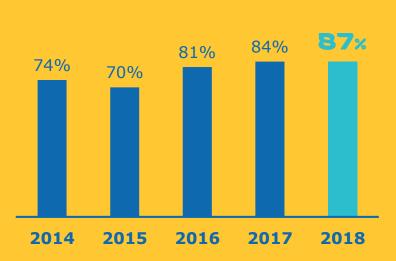
<sup>&</sup>lt;sup>2</sup> Employee headcount from 2015 on is calculated: Total number of leavers from the past 12 months divided by the average employee headcount multiplied by 100.

### Our social license to operate: People (3/3) **Well on track for our goals**



#### **Diversity**

Focus on women in leadership and increasing internationality. In 2018, we overachieved our target for 2021.



#### Rich leadership pipeline

We identify and advance suitable employees with leadership potential. In 2018 87% of our vacant leadership positions were filled internally.



### Our social license to operate: Supporting our communities Charitable activities together with our employees

#### 2018



Spending a total of around

€ 36

million on community involvement

- We mainly support social projects that align with our strategic focus areas, namely Global Health, Sustainable Solutions and Broad Minds and happen in the vicinity of our sites and in the countries where we operate.
- Focus on long-term initiatives: Our activities are intended to have a positive, long-lasting effect on the community.
- Our employees participate in corporate volunteering programs. In 2018, we introduced a new **Group-wide Corporate Volunteering Guideline**, which grants our people up to two days of paid leave per year to volunteer in initiatives that are supported by our company.





During our anniversary year we conducted more than **350 charitable activities** in 60 countries worldwide: Our employees were engaged in around 60% of the projects.



#### Our social license to operate: Environmental stewardship **Reducing our environmental footprint**

To mitigate

the impact resulting

from our operations

#### We meet a strict set of environmental regulations at all our sites

- Since 2009, our company has held a Group ISO 14001 certificate: All production sites with more than 50 employees must implement the requirements of the certificate. 81 sites worldwide are covered.
- In 2018, we passed 10 ISO 14001 audits, including facilities added to the Group certificate.

#### We foster increasing climate protection

· Despite more than doubling our sales between 2006 and 2018, we managed to reduce our greenhouse gas emissions by 11% relative to the 2006 baseline.









 We minimize the amount of pharmaceutical active ingredient residue in our wastewater by optimizing production and purification processes. All our pharmaceutical manufacturing facilities have wastewater treatment plants.

#### for 2020: Cut water use by 10% at our sites in water-stressed areas

#### We reduce waste and recycle as much as possible

 We ensure that raw materials are recycled and that unrecyclable waste is discarded in an environmentally sustainable manner in line with the strictest waste disposal standards.

Reduce the ecological impact of our waste

for 2025:

Goal =





\*\* Compared to 2016







#### ESG goals

#### We are working on ambitious goals



#### **Climate**

We endeavor to reduce direct and indirect emissions to mitigate our impact on the climate.











#### **Product safety**

Product safety is one of our top priorities: From safe handling of hazardous substances to ensuring patient safety.





#### Waste

We consider it fundamental to both prevent and recycle as much of our waste as possible.







#### **Employees**

We aim to be an attractive employer, encouraging creativity and development under ideal working conditions.

**Access to Medicine** 







#### Water

For us, sustainable water management means not negatively impacting the aquatic ecosystems









#### We support a variety of initiatives that improve access to health particularly for people in low- and middle-income countries.







#### **Growth & Profit sharing**



and a conservative but reliable dividend.

#### **Risk management**







We are focusing on a diversified business model: Our 3 sectors have pioneering knowledge to develop products to improve life for patients, further the success of our customers and meet global challenges.

#### **Steering**









Our core values along with the external regulations lead to business-guiding charters and principles for our responsible governance, documented in our Corporate Responsibility strategy and report.

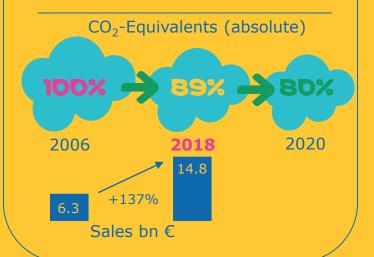


#### ESG goals

#### Emissions, water, waste reduced despite growing business

#### **Emission target:**

- Growth-independent reduction of Company's greenhouse gas emissions of 20% until 2020 vs. 2006
- Despite sales growth of 137% 2006 vs. 2018 we achieved a 11% reduction of CO2 equiv.
- We still confirm our goal for 2020 expecting positive impact from latest initiatives, e.g. process optimizations and change to renewable energy



#### **Water target:**



- At 24 sites with relevant water use in areas of high water stress we aim to cut water consumption by 10% until 2020 vs. 2014
- 2018, we lowered our water consumption by 11% resulting from sustainable water management and re-usage
- All pharmaceutical manufacturing facilities have wastewater treatment plants

Water consumption in water stress areas



#### **Waste target:**



- We reduce waste and recycle as much as possible we aim to reduce the environmental impact of our waste by 5% until 2025 compared to 2016
- Our Waste Score allows us to compare the amount of waste our sites are producing
- We ensure that raw materials are recycled and that unrecyclable waste is discarded

Merck KGaA, Darmstadt, Germany Waste Score



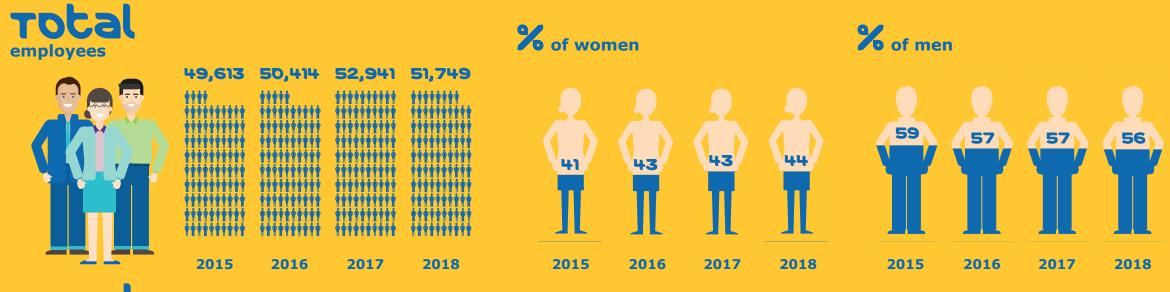


# selected figures



#### **Employees**

#### Number of employees by hierarchical level



#### NUMber of employees

	2015*	<b>2016</b> *	<b>2017</b> *	<b>2018</b> *
Senior management	146	181	197	193
Middle management	2,211	2,685	2,927	3,095
Low management	6,622	8,139	8,904	9,019
Other employees	40,634	39,409	40,913	39,442

2015	2016	2017	2018
21	25	30	36
611	805	917	1,025
2,636	3,361	3,714	3,795
17,348	17,375	18,197	17,888

2015	2016	2017	2018
125	156	167	157
1,600	1,880	2,010	2,070
3,986	4,778	5,190	5,224
23,286	22,034	22,716	21,554

<sup>\*</sup> From 2015 on, these figures include Sigma-Aldrich, however as of Dec. 31, 2017 the job grading system had not yet been implemented for employees of Sigma-Aldrich legal entities in Germany, or for employees of Allergopharma. These employees are included under "thereof other employees (Role 3 and below)".



#### **Employees**

#### **Number of employees by region**



#### North America

	<b>2015</b> *	2016	2017	2018
Tolal	9,794	10,037	10,520	10,978
Women	4,183	4,308	4,518	4,742
Women (%)	43	43	43	43



#### EUPOPE

	<b>2015</b> *	2016	2017	2018
Total	23,429	24,438	25,980	25,792
Women	10,316	10,884	11,627	11,464
Women (%)	44	45	45	44

#### Latin America

	<b>2015</b> *	2016	2017	2018
Total	4,352	4,140	4,050	3,340
Women	1,986	1,910	1,896	1,648
Women (%)	46	46	47	47

#### Middle East and Africa

	<b>2015</b> *	2016	2017	2018
Total	942	1,045	1,097	1,097
Women	425	483	519	519
Women (%)	45	46	47	47

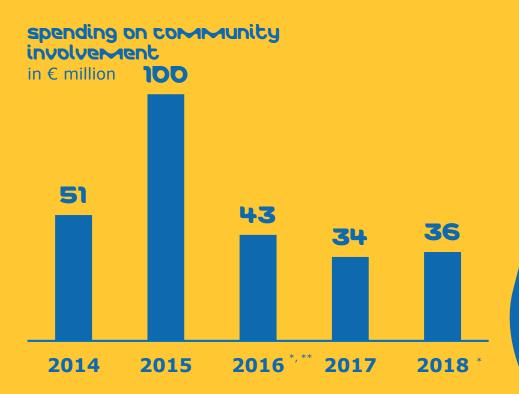
#### **Asia-pacific**

	2015	2016	2017	2018
Total	11,096	10,754	11,294	11,096
Women	3,706	3,981	4,298	4,348
Women (%)	33	37	38	41



<sup>\*</sup> Includes Sigma-Aldrich as of 2015; As of Dec. 31
External contractors are currently not logged in our employee data system, nor do we currently have any plans to integrate them.

## Society **Spending**



### rocus of our local community involvement in %

Based on number of projects

	2014	2015	2016*,**	2017	2018*
Global Health			35	38	34
Broad Minds	38		36		
Sustainable solutions: Environment	10		5		
Disaster relief		6			
Other	15				20

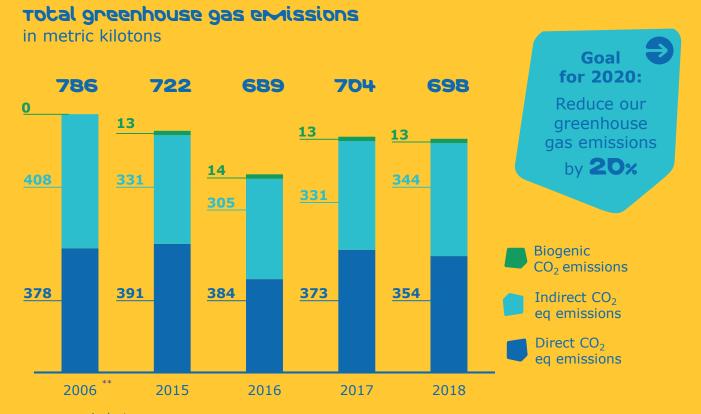


<sup>\*</sup> Includes Sigma-Aldrich as of 2016 and excludes the Merck KGaA, Darmstadt, Germany Foundation as of 2018

<sup>\*\*</sup> From 2016 on, we are separating spending on patient support programs such as our Erbitux® China Patients Assistance Program from our community involvement figures.

#### **Environment**

#### **Total Greenhouse Gas Emissions**



eq = equivalent

\*\* Baseline for our emission targets is 2006.



emissions that **we produce ourselves**, for instance by burning fossil fuels to generate power.

emissions from the consumption of purchased energy, such as electricity or district heating.

#### Pocus

**40 of our sites** account for **roughly 80%** of our greenhouse gas emissions



<sup>\*</sup> In line with the Greenhouse Gas Protocol, for all previous years (up to the 2006 baseline) the greenhouse gas emissions have been calculated based on the current corporate structure of the reporting year and retroactively adjusted for acquisitions (e.g. Sigma-Aldrich in 2015) or divestments of (parts of) companies, or for changes in emission factors (portfolio-adjusted).

#### **Environment**

#### **Moderate energy consumption and less waste**

