

# LIFE SCIENCE AND HEALTHCARE DRIVING PROFITABLE GROWTH

Merck KGaA, Darmstadt, Germany Q3 2019 results

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# **Agenda**

- **Executive summary**
- **2** Financial overview
- **Guidance**



# **Highlights**



Healthcare – Mavenclad<sup>®</sup> ramp-up and core business drive strong organic growth

Life Science – All businesses and regions fuel double-digit growth; Process Solutions again the strongest driver

Performance Materials – LC back to negative underlying trajectory; market slowdown in Semiconductor Solutions and Surface Solutions



Q3 2019 organic sales growth of +5.7%; Q3 2019 organic EBITDA pre growth of +9.8%

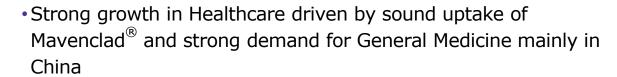
Versum acquisition successfully closed<sup>1</sup> – Group guidance impact: net sales: ~€270 m; EBITDA pre: €80 to 90 m

Full-year 2019 guidance upgraded incl. Versum:

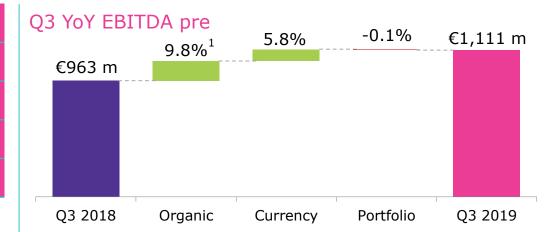
net sales: €15.7 to 16.3 bn; EBITDA pre: €4,230 to 4,430 m

# Life Science and Healthcare drive organic growth of top- and bottom-line, supported by FX tailwinds

Q3 2019 YoY net sales	Organic	Currency	Portfolio	Total
Healthcare	8.0%	2.0%	0.0%	10.0%
Life Science	10.0%	3.0%	-0.7%	12.3%
Performance Materials	-10.6%	3.7%	0.0%	-6.9%
Group	5.7%	2.7%	-0.3%	8.1%

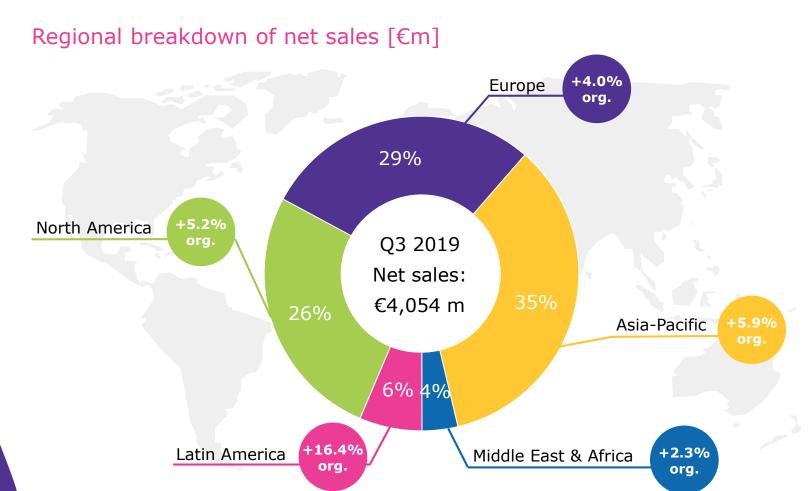


- Life Science posts double-digit growth fueled by all businesses and regions
- Performance Materials reflects decline in LC despite strong demand in OLED; soft market demand in Semiconductor and Surface Solutions



- •Increased organic EBITDA pre due to strong top-line growth, cost consciousness and GSK income in Healthcare; Life Science with sustained strong performance
- Positive FX impact on EBITDA pre due to US dollar and Japanese yen

# Solid organic growth driven by all regions



## Regional organic development

- Solid APAC due to double-digit growth of Life Science, Glucophage<sup>®</sup> and Erbitux<sup>®</sup> offset by decline in PM amid strong OLED
- Europe solid growth reflects strong demand in Life Science; strong Mavenclad<sup>®</sup> and GM more than offset Rebif<sup>®</sup> and Erbitux<sup>®</sup> decline
- Solid North America driven by strong Life
   Science; GM, Fertility and Mavenclad<sup>®</sup> ramup outweighing double-digit decline of Rebif<sup>®</sup>
- Double-digit growth in LATAM due to strong performance of Healthcare core business and Life Science



# **Q3 2019: Overview**

## Key figures

[€m]	Q3 2018	Q3 2019	Δ
Net sales	3,749	4,054	8.1%
EBITDA pre Margin (in % of net sales)	963 <i>25.7%</i>	<b>1,111</b> 27.4%	15.4%
EPS pre	1.32	1.35	2.3%
Operating cash flow	731	931	27.3%
[€m]	Dec. 31, 2018	Sept. 30, 2019	Δ
Net financial debt	6,701	7,320	9.2%
Working capital	3,486	3,980	14.2%
Employees	51,749	54,042	4.4%

- Net sales growth driven by Healthcare and Life Science, offsetting Performance Materials decline
- •EBITDA pre & margin reflect GSK deferred income (~€30 m), cost consciousness in HC and strong operating leverage in LS
- Strong operating cash flow due to higher EBITDA and Bavencio<sup>®</sup> milestone payment
- Working capital reflects increased inventory levels and FX
- Higher net financial debt driven by IFRS 16 adoption, dividends and temporary investment of cash proceeds from CH divestment

# **Reported figures**

## Reported results

[€m]	Q3 2018	Q3 2019	Δ
EBIT	491	608	23.8%
Financial result	-56	-135	141.1%
Profit before tax	435	473	8.7%
Income tax	-112	-134	19.8%
Effective tax rate	25.7%	28.3%	
Net income <sup>1</sup>	340	343	0.8%
EPS (€)	0.78	0.79	1.3%

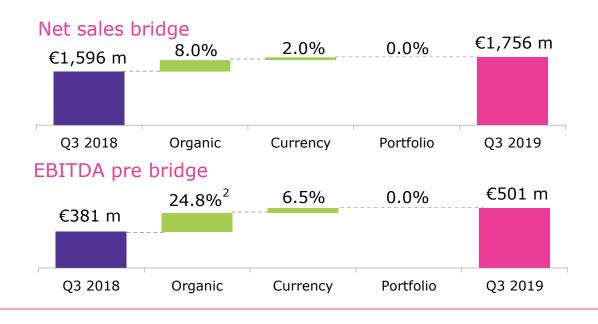
- Higher EBIT due to strong top-line contribution from LS and HC, cost consciousness, and GSK deferred income
- •Increase in financial result reflects higher LTIP<sup>2</sup> provisions, increased interest expense due to Versum financing and interest effect on long term provisions
- Effective tax rate reflects a higher tax reserve for tax audits

<sup>&</sup>lt;sup>1</sup>From continuing and discontinued operations; <sup>2</sup>LTIP = Long term incentive plan; Totals may not add up due to rounding

# Healthcare: Prominent contribution from Mavenclad<sup>®</sup> and Bavencio<sup>®</sup>; solid core business

#### Healthcare P&L

[€m]	Q3 2018 <sup>1</sup>	Q3 2019
Net Sales	1,596	1,756
Marketing and selling	-573	-561
Administration	-81	-82
Research and development	-409	-429
EBIT	191	325
EBITDA	372	504
EBITDA pre	381	501
Margin (in % of net sales)	23.9%	28.5%

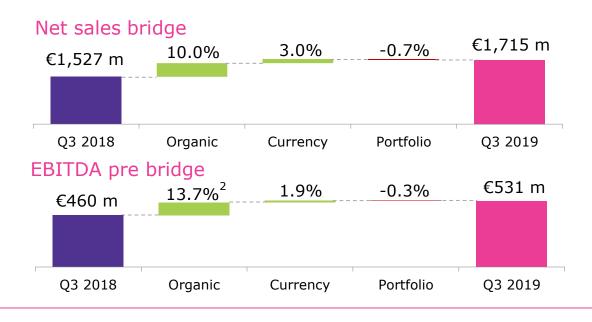


- Strong growth in Healthcare reflects solid core business and all franchises contributing, N&I franchise back to growth globally
- Mavenclad<sup>®</sup> with continued strong uptake globally (+45% vs. Q2)
- ullet Solid Erbitux $^{\hbox{\scriptsize $8$}}$  benefiting from China reimbursement; Bavencio $^{\hbox{\scriptsize $8$}}$  on track
- M&S decrease due to resource reallocation from core business to new product launches and stringent cost management
- Higher EBITDA pre driven by strong top-line performance, cost consciousness, GSK deferred income (~€30 m) and IFRS 16

# Life Science: All major businesses and regions fuel double-digit growth

#### Life Science P&L

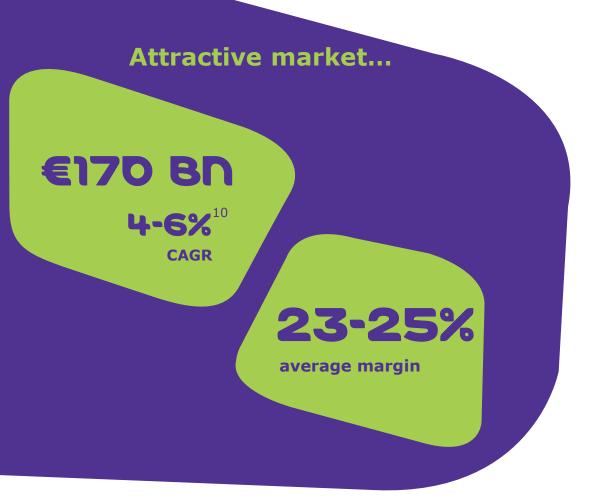
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[€m]	Q3 2018 <sup>1</sup>	Q3 2019
Net Sales	1,527	1,715
Marketing and selling	-443	-474
Administration	-85	-83
Research and development	-59	-67
EBIT	277	316
EBITDA	449	511
EBITDA pre	460	531
Margin (in % of net sales)	30.1%	31.0%



- Strong demand for Process Solutions drives double-digit growth, especially filtration and single-use, across all regions
- Solid organic growth of Applied Solutions mainly driven by advanced analytical and lab water
- Research Solutions with solid organic growth reflecting strong demand for lab separation and workflow tools, especially APAC and North America

- Strong volume growth and investments in eCommerce drive higher M&S
- EBITDA pre and margin increase driven by sustained strong top line, operating leverage and IFRS 16

# The Life Science tools market is attractive and dynamic



## ...with robust trends



- Increase in NIH Funding and Pharma R&D<sup>1,2</sup>
- Increase in **novel technologies**<sup>3</sup>
- Increase in research outsourcing<sup>4</sup>



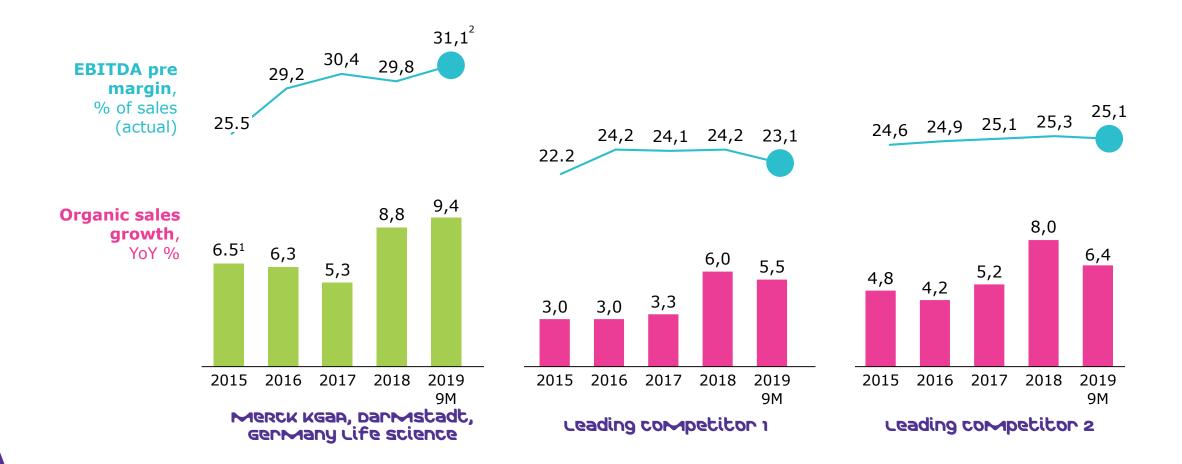
- Increase in biologics pipeline<sup>5</sup>
- More novel modalities (>30% CAGR)
- Greater production outsourcing<sup>6</sup>



- Higher Drug standards (e.g. in China)<sup>7</sup>
- Tighter F&B regulations (e.g. US FSMA8)
- More novel assays/diagnostics

<sup>1</sup>CAGR 2015-2019; <sup>2</sup>PhRMA members, CAGR 2013-2017; <sup>3</sup>CAGR 2014-2018 VC investment into platform technologies; <sup>4</sup>CAGR 2015-2022. Discovery outsourcing market; <sup>5</sup>CAGR through 2020; <sup>6</sup>CAGR 2016-2020; <sup>7</sup>International Council for Harmonization of Technical Requirements for Pharmaceuticals for Human Use; <sup>8</sup>Food Safety Modernization Act implementation through 2024; <sup>9</sup>Total market CAGR; <sup>10</sup>Company estimate based on industry forecast over 5 year horizon; Acronyms: NIH = National Institutes of Health, US FSMA = FDA Food Safety Modernization Act

# We continue to set the benchmark for industry performance



# Life Science: Ongoing strong demand driving Q3 performance of Process, Applied and Research Solutions



**Research Solutions** 

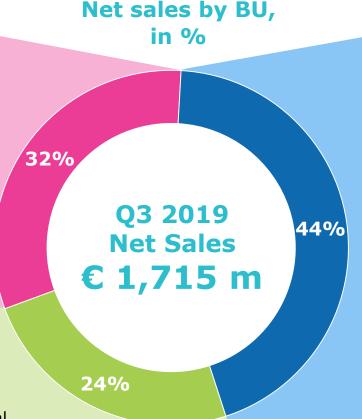
+5.2 % org.

- Lab Separation and Workflow Tools driving growth, especially with filtration based products in protein research
- eCommerce growing at 2x the rate of offline
- Synthia: Retrosynthesis tool in Lab and Specialty Chemicals



Applied Solutions

+6.8 % org.



- Double-digit growth for Advanced Analytical, and high single-digit growth for Lab Water Solutions
- High single-digit growth in APAC and Emerging markets, with doubledigit growth in China
- Acquisition of BSSN Software to accelerate customers' digital transformation in the lab



- BioProcessing growth driven by Single-Use, CDMO, and Process Solutions Services
- All regions growing in the double-digits, with Asia and Americas in the high-teens and Europe/MEA in the low-teens
- Acquisition of ProcessPad technology to advance our BioContinuum platform
- >20 New product launches in 2019 so far

# **Acting to capitalize on three life science trends**



2 DIGITAL UNIVERSE



## Single Use / End to End

Opened Wuxi site in 2018, and expanded Danvers facility

#### Viral Vectors

Expanded Carlsbad viral vector manufacturing site in 2016

## Antibody Drug Conjugates (ADC)

Launched ADC Express<sup>™</sup> for the rapid production of ADCs #1 eCommerce site in Life Science<sup>1</sup>

- > 90% of Millipore products on eCommerce platform
- x2 net sales growth of eCommerce vs. non-eCommerce<sup>2</sup>

Manufacturing/Distribution Nantong, Wuxi Single use

Commercial expansion
Tier 2 cities

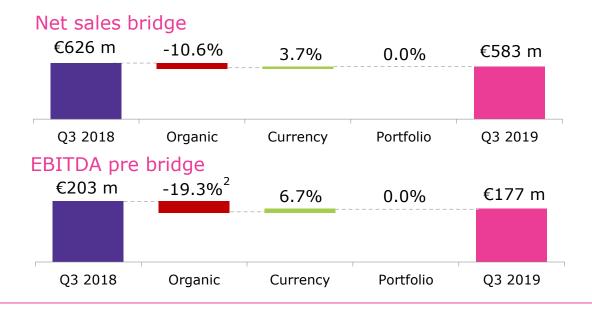
eCommerce partnership



# Performance Materials: Expected LC decline starts to materialize amid continued market slowdown in Semiconductor and Surface

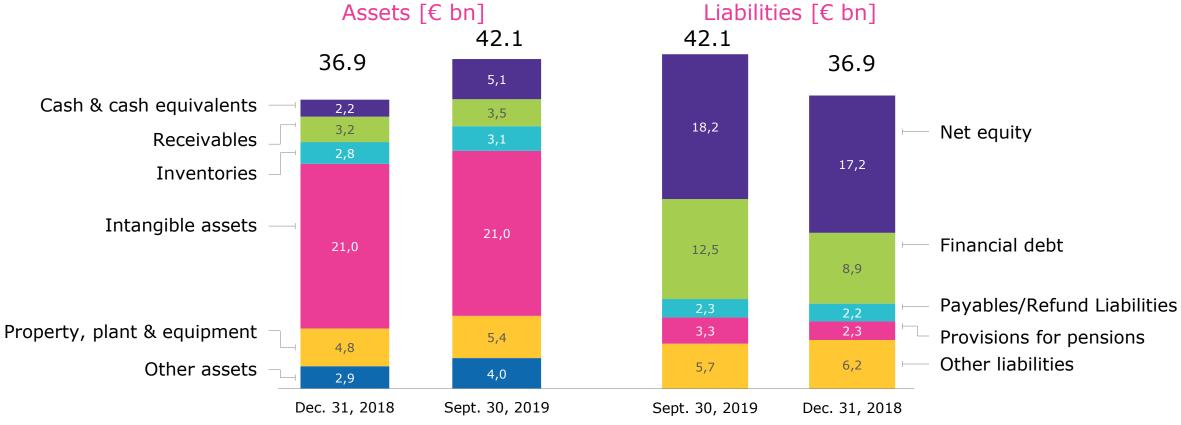
#### Performance Materials P&L

[€m]	Q3 2018 <sup>1</sup>	Q3 2019
Net Sales	626	583
Marketing and selling	-62	-61
Administration	-23	-30
Research and development	-65	-48
EBIT	142	98
EBITDA	202	169
EBITDA pre	203	177
Margin (in % of net sales)	32.5%	30.5%



- Double-digit decline of Display Solutions: LC back to negative underlying trajectory with high last year base, OLED again strong
- Ongoing softness of Semiconductor Solutions due to market slowdown
- Surface Solutions decline reflects weak demand of automotive market increased industrials portfolio-focus amid Bright Future transformation
- Provisions related to Bright Future program drive admin expense
- Lower R&D reflects strong cost focus and impact of Bright Future program
- EBITDA pre margin decline reflects reduced top line and negative business mix

# Balance sheet - Reflecting bond placements and IFRS 16 adoption



- Higher cash & cash equivalents reflects bond placements and repayment of a due bond (~€2.8 bn)
- Increase in property, plant and equipment mainly due to IFRS 16 adoption
- Other assets reflect temporary investment of cash proceeds from Consumer Health divestment
- Increase in equity reflects profit after tax (equity ratio of 43.2%)
- Higher financial debt due to bond placements (~€3.5 bn) and IFRS 16 reclassification of lease liabilities
- Increase in provisions for pensions reflects decline in interest rate

## **Cash flow statement**

## Q3 2019 – cash flow statement

[€m]	Q3 2018	Q3 2019	Δ
Profit after tax	345	342	-3
D&A	428	464	37
Changes in provisions	69	81	12
Changes in other assets/liabilities	es 6	129	123
Other operating activities	-9	9	18
Changes in working capital	-107	-94	13
Operating cash flow	731	931	199
Investing cash flow	-218	-209	9
thereof Capex on PPE	-215	-193	23
Financing cash flow	-287	934	1,221

### Cash flow drivers

- D&A increase mainly due to IFRS 16 reclassification
- Changes in other assets/liabilities driven by Bavencio<sup>®</sup> milestone payment; last years' low base due to neutralization of receivables
- •Higher financing cash flow reflects the issuance of new bonds (€2 bn) partially offset by repayment of a due bond (€800 m)



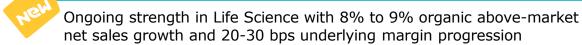
# Group

# Key earnings drivers to remember for 2019



# EBITDA1-supporting factors

Strong sales contribution from Mavenclad® ramp-up and Bavencio®



- Successful partnering of bintrafusp alfa with ~€100 m of deferred income from upfront payment recognized as other operating income in Q2 to Q4 2019
- Income from milestones and management of pipeline (part of operating business in Healthcare) materializing in Q2 and Q4 2019
- Lower expected license payments for Erbitux®
- High level of cost consciousness and prioritization
- Adoption of IFRS 16 contributes ~€130 m² to organic growth YoY

Positive FX impact: Emerging market currencies remain weak but offset by favorable EUR/USD development (range 2019: 1.11-1.15)

86 days of Versum contribution

About stable R&D costs budgeted for Healthcare and decrease as % of sales (actual development will be subject to clinical data outcome of priority projects and prioritization decisions)



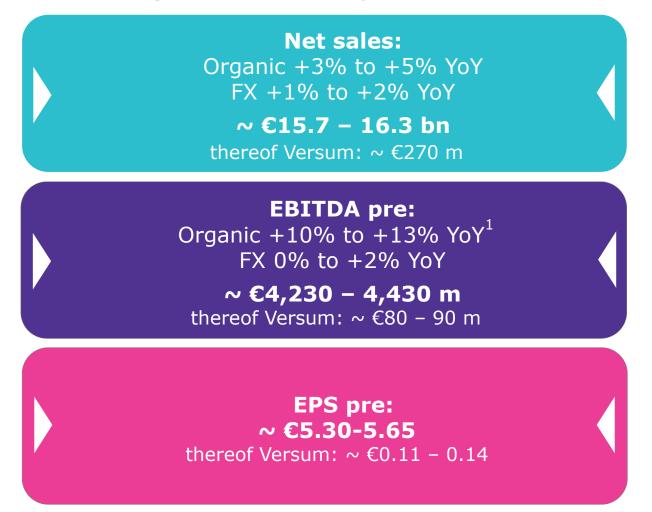
## EBITDA1-reducing factors

- Healthcare underlying margins negatively impacted by product mix
- Performance Materials sales and earnings reaching trough due to expected decline in Liquid Crystals in H2; economic environment may lead to moderate decline in Semiconductors, returning to growth in 2020

# Group

# Full-year 2019 guidance

Group guidance for 2019, including Versum for 86 days



# Group

# 2019 business sector guidance without Versum

## Healthcare



### **Net Sales**

- Solid organic growth +4% to +6%
- Base business at least stable organically
- Strong contributions from launches including Mavenclad

## EBITDA pre<sup>2</sup>

- Organic +19% to +23% YoY
- FX 0% to +2% YoY
- ~ €1,830 1,940 m

## **Life Science**



### **Net Sales**

- Organic growth +8% to +9%, above expected market growth
- Main growth driver Process Solutions but all businesses contributing

## EBITDA pre<sup>2</sup>

- Organic +12% to +14% YoY
- FX +0% to +2% YoY
- ~ €2,040 2,140 m with 20-30 bps³ underlying margin progression

### **Net Sales**



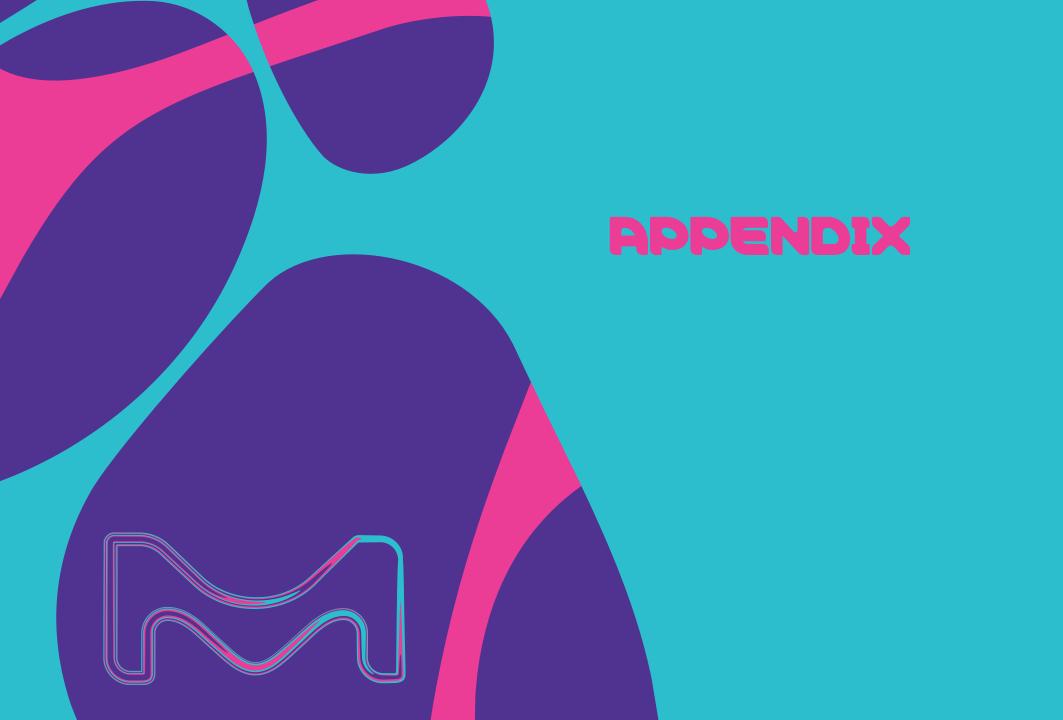
- LC resuming decline, following temporary capacity ramp-up in China
- Economic environment may lead to moderate decline in Semicon, return to growth in 2020

## EBITDA pre<sup>2,4</sup>

- Organic -9% to -13% YoY
- FX +3% to +5% YoY
- ~ €695 755 m

<sup>1</sup>Divisional guidances are only support to the group guidance and do not have to add up; <sup>2</sup>Incl. ~€130 m YoY contribution from adoption of IFRS 16 (Healthcare ~40%, Life Science ~40%, PM ~10%, CO ~10%); <sup>3</sup>bps = basis points; <sup>4</sup>Merck KGaA, Darmstadt, Germany stand-alone, i.e. without acquisition of Versum Materials and Intermolecular Inc.





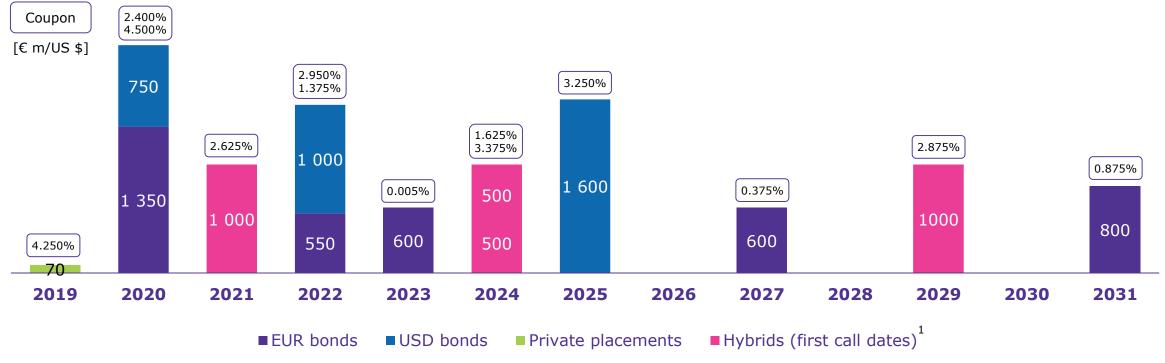
# **Additional financial guidance 2019**

### Further financial details

Corporate & Other EBITDA pre*	~ -€460 – -490 m
Interest result	~ -€260 – -280 m
Effective tax rate	~ 24% to 26%
Capex on PPE	~ €1.0 bn – 1.1 bn
Hedging/USD assumption	FY 2019 hedge ratio ~60% at EUR/USD ~1.20
2019 Ø EUR/USD assumption	~ 1.11 - 1.15

# Maturity profile reflects Sigma-Aldrich and Versum financing transactions

## Maturity profile as of Sept. 30, 2019





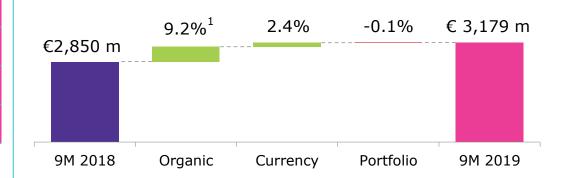
Balanced maturity profile in upcoming years avoids refinancing risks; Merck KGaA, Darmstadt, Germany will become a more frequent issuer

# Healthcare and Life Science more than offset decline of Performance Materials supported by FX tailwinds

9M 2019 YoY net sales	Organic	Currency	Portfolio	Total
Healthcare	5.4%	1.0%	0.0%	6.5%
Life Science	9.4%	2.6%	-0.6%	11.5%
Performance Materials	-3.4%	3.3%	0.0%	0.0%
Group	5.7%	2.1%	-0.2%	7.5%

- •Solid growing Healthcare due to General Medicine, Mavenclad<sup>®</sup>, Fertility, Erbitux<sup>®</sup> and Bavencio<sup>®</sup>, offsetting strong Rebif<sup>®</sup> decline
- Life Science with above-market growth due to strong momentum across all business units and regions
- Performance Materials with LC back to negative underlying trajectory and softer Surface and Semiconductor Solutions; OLED strong

### 9M YoY EBITDA pre



- •Increased organic EBITDA pre driven by sustained strong performance of Life Science, milestone payments and deferred income in Healthcare, mitigated by ongoing LC price decline
- Positive FX effects on EBITDA pre reflects mainly US Dollar development

## **9M 2019: Overview**

## Key figures

[€m]	9M 2018	9M 2019	Δ
Net sales	10,949	11,771	7.5%
EBITDA pre Margin (in % of net sales)	2,850 <i>26.0%</i>	<b>3,179</b> 27.0%	11.5%
EPS pre	3.89	4.02	3.3%
Operating cash flow	1,479	2,166	46.5%
[€m]	Dec. 31, 2018	Sept. 30, 2019	Δ
Net financial debt	6,701	7,320	9.2%
Working capital	3,486	3,980	14.2%
Employees	51,749	54,042	4.4%

- Net sales reflect sales growth of Healthcare and Life Science supported by FX tailwinds
- EBITDA pre & margin increase due to operational leverage in LS, milestone payments and deferred income in HC
- Strong operating cash flow reflects GSK upfront, Peg-Pal and Bavencio<sup>®</sup> milestone payment
- Working capital reflects increased inventory levels and FX
- Higher net financial debt mainly due to IFRS 16 adoption, dividends and temporary investment of cash proceeds from CH disposal

# **Reported figures**

## Reported results

[€m]	9M 2018	9M 2019	Δ
EBIT	1,386	1,605	15.9%
Financial result	-182	-309	69.8%
Profit before tax	1,204	1,297	7.7%
Income tax	-303	-337	11.1%
Effective tax rate	25.2%	26.0%	
Net income <sup>1</sup>	928	1,002	8.0%
EPS (€)	2.13	2.31	8.5%

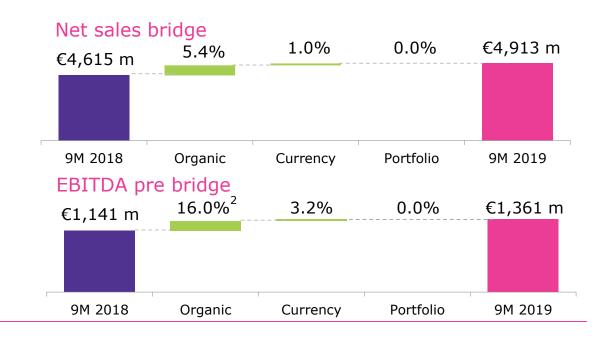
- Higher EBIT reflects strong topline contribution from Life Science and non-recurring income in Healthcare
- Increased financial result driven by revaluation of F-Star purchase option (-€45 m), higher LTIP<sup>2</sup> provisions, increased interest expense due to Versum financing and interest effect on long term provisions
- Effective tax rate within guidance range of ~24-26%
- Higher net income and EPS due to increased EBIT, mitigated by lower financial result

<sup>&</sup>lt;sup>1</sup>From continuing and discontinued operations; <sup>2</sup>LTIP = Long term incentive plan; Totals may not add up due to rounding

# Healthcare: Solid growth of core business and increasing contribution of launches

#### Healthcare P&L

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[€m]	9M 2018 <sup>1</sup>	9M 2019
Net Sales	4,615	4,913
Marketing and selling	-1,715	-1,710
Administration	-241	-254
Research and development	-1,194	-1,204
EBIT	541	798
EBITDA	1,089	1,355
EBITDA pre	1,141	1,361
Margin (in % of net sales)	24.7%	<i>27.7</i> %

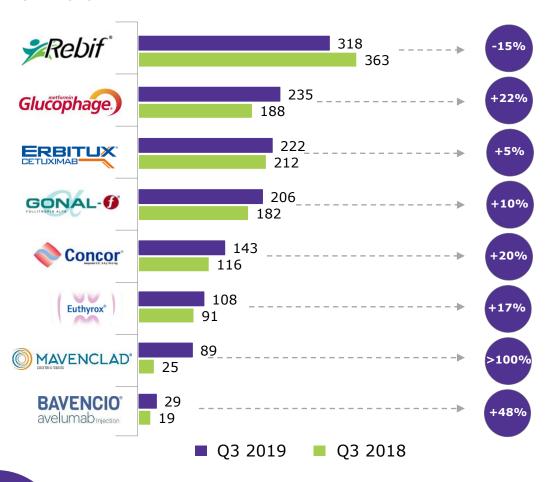


- ullet Solid foundation due to growing core business, further supported by acceleration of Mavenclad  $^{\hbox{\scriptsize @}}$  and Bavencio  $^{\hbox{\scriptsize @}}$  launches
- Mavenclad<sup>®</sup> with continued strong uptake across all regions is overcompensated by strong Rebif<sup>®</sup> decline
- Bavencio<sup>®</sup> ramp-up on track; Erbitux<sup>®</sup> benefitting from China reimbursement, still facing ongoing competition and price pressure in major markets
- M&S decrease due to stringent cost management and strategic resource reallocation benefitting launches
- Higher EBITDA pre driven by solid top line contribution, non recurring income [Bavencio<sup>®</sup> (~€35 m) milestone, GSK deferred income (~€60 m) and Peg-Pal (~€75 m)] and IFRS 16 effect, outweighing last years' Peg-Pal milestone (~€50 m)

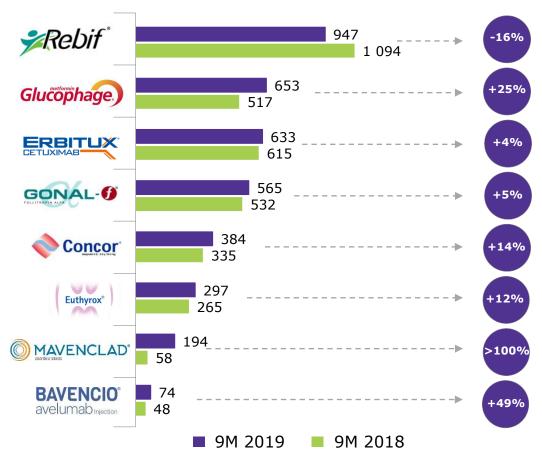
<sup>&</sup>lt;sup>1</sup>LY numbers have been modified, due to disclosure changes of adjustments; <sup>2</sup>Thereof IFRS 16 effect with +3.2% (+€37 m); Totals may not add up due to rounding

## Healthcare organic growth by franchise/product

Q3 2019 organic sales growth [%] by key product [€m]

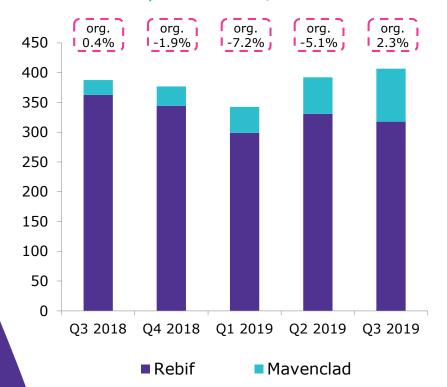


9M 2019 organic sales growth [%] by key product [€m]

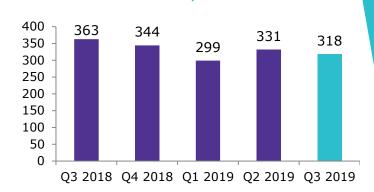


# Neurodegenerative Diseases: Strong growth of Mavenclad® starts to offset Rebif® decline

## Sales development NDI, [€m]

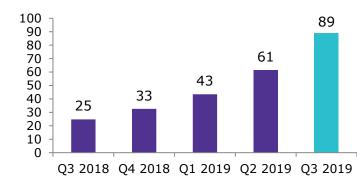


# Rebif<sup>®</sup> net sales, [€m]



- Rebif<sup>®</sup> sales of €318 m in Q3 2019 reflects organic decline of -15.1% mitigated by FX effect of +2.8%
- U.S. and European volume decline mainly due to competition
- U.S. decline in line with IFN market dynamics

## Mavenclad<sup>®</sup> net sales, [€m]



Mavenclad<sup>®</sup> ramp up accelerating across all regions

FY 2019 guidance of ~€300 m

Merck KGaA
Darmstadt, Germany

# **Neurodegenerative Diseases:** Mavenclad® dosing regimen and revenue recognition



Year 1

Year 2

Year 3

Year 4



**Treatment** 

**Maximum of 20 days of oral treatment** 

spread over 2 years (# of tablets weight-based)

Week 1: max. 10 tablets

Week 2-4: no treatment

Week 5: max. 10 tablets

Week 6-52: no treatment

Week 1: max. 10 tablets

Week 2-4: no treatment

Week 5: max, 10 tablets

Week 6-52: no treatment







Rx: Max 20 tablets prescribed across Week 1 & Week 5 followed by immediate payment



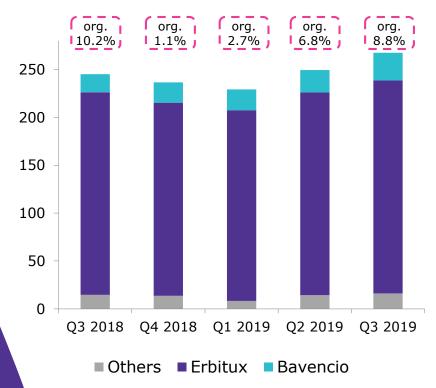
Rx: Max 20 tablets prescribed across Week 1 & Week 5 followed by immediate payment

No treatment

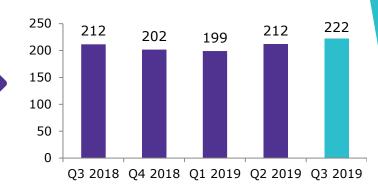
No payment No revenue

# Oncology: Solid organic growth reflects strong demand for Erbitux® in China and Bavencio® ramp up

## Sales development Oncology, [€m]

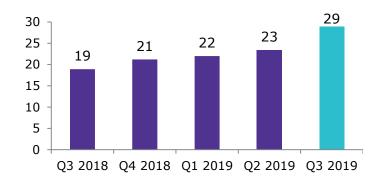


## Erbitux<sup>®</sup> net sales, [€m]



- Absolute sales of €222 m reflect solid growth (org. 5.1%; FX 0.0%)
- Strong APAC mainly driven by China reimbursement recognition
- LATAM strong, while MEA affected by tender phasing due to import permit
- Decline in Europe reflects ongoing competition, price reductions and shrinking market size

## Bavencio<sup>®</sup> net sales, [€m]



Bavencio<sup>®</sup> approved for RCC in US mid May 2019

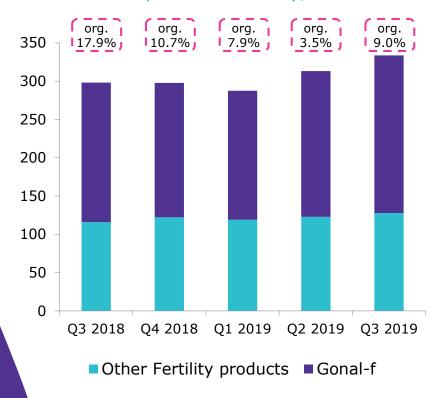
FY 2019 guidance of ~ €100 m

Merck KGaA

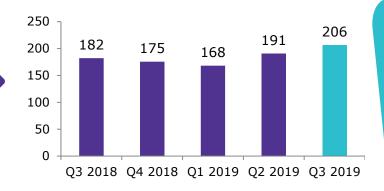
Darmstadt, Germany

# Fertility: Strong organic growth driven by ongoing demand for Gonal-f in the U.S. and China

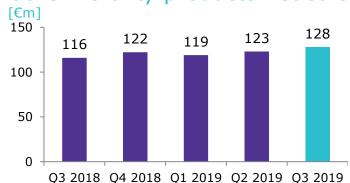
## Sales development Fertility, [€m]



# Gonal-f<sup>®</sup> net sales, [€m]



## Other Fertility products net sales,

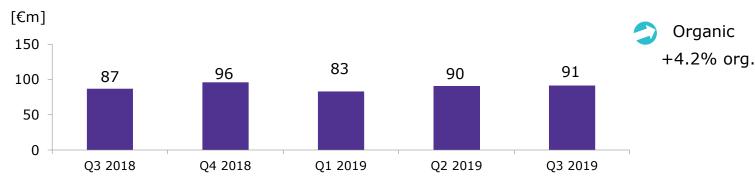


- Fertility posts strong organic growth driven by APAC, North America and MEA
- Double-digit growth of Gonal-f<sup>®</sup> results in €206 m absolute sales (org. 10.0%; FX 3.2%)
- Gonal-f<sup>®</sup> driven by ongoing strong demand in the U.S. and China
- Other Fertility products with strong growth mainly driven by APAC and LATAM

# China, Europe and LATAM fuel double-digit growth of General Medicine

### Sales evolution

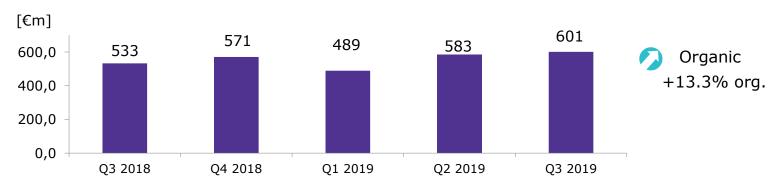
### Endocrinology



## Q3 2019 organic drivers

 Endocrinology with solid organic growth driven by all major regions, especially LATAM

### General Medicine\*



Ongoing strong demand for Glucophage<sup>®</sup>,
 Concor<sup>®</sup> and Euthyrox<sup>®</sup> especially in
 China, Europe and LATAM drive double-digit growth of General Medicine

# **Clinical Pipeline**

## **November 8, 2019**

#### Phase I

M3258 LMP7 inhibitor Multiple myeloma

M3541 **ATM** inhibitor Solid tumors

M3814 **DNA-PK** inhibitor Solid tumors1

M4344 ATR inhibitor Solid tumors

M6620 ATR inhibitor Solid tumors

M7583 **BTK** inhibitor Hematological malignancies

M8891 MetAP2 inhibitor Solid tumors

avelumab anti-PD-L1 mAb Solid tumors

bintrafusp alfa TGFbeta trap/anti-PD-L1 Solid tumors

M9241 (NHS-IL12) Cancer immunotherapy Solid tumors1

M5049 Immune receptor inhibitor Immunology

M6495 anti-ADAMTS-5 nanobody Osteoarthritis

M5717 PeEF2 inhibitor Malaria

#### **Phase II**

tepotinib MET kinase inhibitor Non-small cell lung cancer

tepotinib MET kinase inhibitor Hepatocellular cancer

M3814 DNA-PK inhibitor Rectal cancer

abituzumab<sup>2</sup> pan-av integrin inhibiting mAb Colorectal cancer 1L

bintrafusp alfa TGFbeta trap/anti-PD-L1 Non-small cell lung cancer 1L

bintrafusp alfa TGFbeta trap/anti-PD-L1 Non-small cell lung cancer 1L/2L

bintrafusp alfa TGFbeta trap/anti-PD-L1 Locally advanced non-small cell lung cancer

bintrafusp alfa TGFbeta trap/anti-PD-L1

Biliary tract cancer 1L

bintrafusp alfa TGFbeta trap/anti-PD-L1 Biliary tract cancer 2L

avelumab anti-PD-L1 mAb Merkel cell cancer 1L

avelumab anti-PD-L1 mAb Solid tumors3

avelumab anti-PD-L1 mAb Non-small cell lung cancer<sup>3</sup>

avelumab anti-PD-L1 mAb

Urothelial cancer<sup>3</sup>

atacicept anti-BlyS/APRIL fusion protein Systemic lupus erythematosus

atacicept anti-BlyS/APRIL fusion protein IgA nephropathy

evobrutinib BTK inhibitor Rheumatoid arthritis

evobrutinib BTK inhibitor

Systemic lupus erythematosus

sprifermin fibroblast growth factor 18 Osteoarthritis

M1095 (ALX-0761)4 anti-IL-17 A/F nanobody Psoriasis

#### **Phase III**

avelumab anti-PD-L1 mAb

Non-small cell lung cancer 1L

avelumab anti-PD-L1 mAb Urothelial cancer 1L-M

avelumab anti-PD-L1 mAb

Locally advanced head and neck cancer

evobrutinib **BTK** inhibitor Multiple sclerosis

#### Registration

avelumab anti-PD-L1 mAb Renal cell cancer 1L5

- Oncology
- Immuno-Oncology
- Immunology
- Neurology
- Global Health

1L, first-line treatment; 1L-M, first-line maintenance treatment; 2L, second-line treatment.

<sup>1</sup> Includes studies in combination with avelumab.

<sup>&</sup>lt;sup>2</sup> As announced on May 2 2018, in an agreement with SFJ Pharmaceuticals Group, abituzumab will be developed by SFJ for colorectal cancer through Phase II/III clinical trials.

<sup>&</sup>lt;sup>3</sup> Avelumab combination studies with talazoparib, axitinib, ALK inhibitors, cetuximab, chemotherapy, or novel immunotherapies.

<sup>4</sup> As announced on March 30 2017, in an agreement with Avillion, anti-IL-17 A/F nanobody will be developed by Avillion for plaque psoriasis and commercialized by Merck KGaA, Darmstadt, Germany.

Merck KGaA

Merck KGA

Mer 5 As announced on October 28 2019, the European Commission (EC) approved avelumab in combination with axitinib for the first-line treatment of patients with advanced renal cell carcinoma.

# Life Science: All businesses across all regions drive ongoing strong top and bottom line performance

#### Life Science P&L

[€m]	9M 2018 <sup>1</sup>	9M 2019
Net Sales	4,557	5,082
Marketing and selling	-1,304	-1,434
Administration	-228	-239
Research and development	-180	-199
EBIT	804	951
EBITDA	1,333	1,536
EBITDA pre	1,367	1,580
Margin (in % of net sales)	30.0%	31.1%



- Double-digit growth of Process Solutions due to ongoing strong demand in all businesses across all major regions, especially North America
- Continued strength in Advanced Analytical and Lab Water fuel solid organic growth of Applied Solutions
- Solid growth in Research Solutions driven by ongoing strong demand in APAC and North America, especially specialty chemicals and workflow tools
- Higher M&S in line with volume growth and driven by investments in eCommerce and strategic initiatives
- EBITDA pre reflects operational leverage from strong top-line growth and IFRS 16 effect

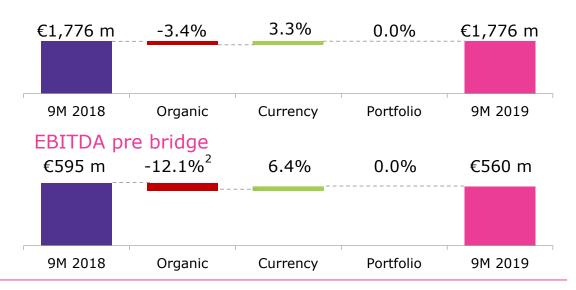
<sup>&</sup>lt;sup>1</sup>LY numbers have been modified, due to disclosure changes of adjustments; <sup>2</sup>Thereof IFRS 16 effect with +2.9% (+€39 m); Totals may not add up due to rounding

# Performance Materials: LC back to negative underlying trajectory amid softness in Semiconductor and Surface

#### Performance Materials P&L

[€m]	9M 2018 <sup>1</sup>	9M 2019
Net Sales	1,776	1,776
Marketing and selling	-183	-193
Administration	-72	-78
Research and development	-183	-194
EBIT	409	293
EBITDA	586	488
EBITDA pre	595	560
Margin (in % of net sales)	33.5%	31.6%

### Net sales bridge



- Display Solutions below prior year reflecting strong demand for OLED, overcompensated by declining LC
- Market slowdown drives softness of Semiconductor Solutions
- Surface Solutions decline reflects weak demand of automotive market increased industrials portfolio-focus amid Bright Future transformation
- Provisions related to Bright Future program drive M&S, Admin and R&D increase; adjusted for EBITDA pre decrease in R&D reflecting cost control
- EBITDA pre margin decline reflects reduced top line and negative business mix

## **Cash flow statement**

### 9M 2019 - cash flow statement

9M 2018	9M 2019	Δ
938	1,002	64
1,304	1,391	87
119	134	15
es -472	14	486
6	-46	-51
-416	-330	86
1,479	2,166	687
-631	-1,408	-778
-611	-566	45
-585	2,175	2,760
	938 1,304 119 es -472 6 -416 1,479 -631 -611	938 1,002 1,304 1,391 119 134 es -472 14  -416 -330 1,479 2,166 -631 -1,408 -611 -566

#### Cash flow drivers

- Profit after tax reflects higher EBIT
- D&A increase mainly due to IFRS 16 reclassification
- Changes in other assets/liabilities reflects GSK upfront, Peg-Pal and Bavencio® milestone payment
- Increased investing cash flow due to temporary investment of cash proceeds from Consumer Health divestment
- Higher financing cash flow reflects the issue of new bonds (€3.5 bn) partially compensated by repayment of a due bond (€800 m)

# **Adjustments in Q3 2019**

## Adjustments in EBIT

[€m]	Q3 2018		Q3 20	)19
	Adjustments	thereof D&A	Adjustments	thereof D&A
Healthcare	9	0	-3	0
Life Science	16	5	20	0
Performance Materials	1	0	16	8
Corporate & Other	23	0	13	0
Total	49	5	47	8

# **Adjustments in 9M 2019**

## Adjustments in EBIT

[€m]	9M 2018		9M 20	019
	Adjustments	thereof D&A	Adjustments	thereof D&A
Healthcare	52	0	5	0
Life Science	54	21	44	0
Performance Materials	10	1	81	8
Corporate & Other	73	0	58	0
Total	189	22	188	8

# **Financial calendar**

Date	Event
March 5, 2020	FY 2019 Earnings release
April 24, 2020	Annual General Meeting
May 14, 2020	Q1 2020 Earnings release
August 6, 2020	Q2 2020 Earnings release



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