

off to a strong start

Merck KGaA, Darmstadt, Germany

Q1 2022 results

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Agenda

- **Executive summary**
- **Strategic review**
- **S** Financial overview
- **ESG** update
- Outlook & Guidance



Executive Sumary

01



Highlights Q1 2022



Operations



Life Science:

- 10% organic growth & sequential step-up driven by core business performance amid declining COVID-19 demand
- Largest growth contribution to group (org. +€207 m)
- All business units growing, Process & Applied key drivers

Healthcare:

- +102% org. growth in Bavencio[®] and +25% org. growth in Mavenclad[®] drive +7% organic growth in sector (+€107 m)
- Established portfolio stable, driven by solid Fertility and CM&E performance

Electronics:

 +5% organic growth (+€45 m) mainly driven by ongoing strength in Semiconductor Solutions (+16% org.) **Q1 organic sales:** growth of +7.8%

Q1 organic EBITDA pre: growing +1.6%

Guidance:

Net sales: Net sales: €21.6 bn to €22.8 bn

EBITDA pre: €6.6 bn to €7.1 bn

EPS pre: €9.60 to €10.50

Net financial debt to EBITDA pre:

Remains stable vs. 2021 at 1.4 on March 31, 2022

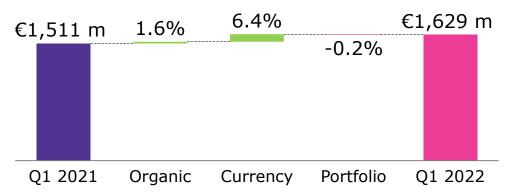


All sectors contribute to strong organic sales growth; Sales and EBITDA pre further supported by significant positive FX effects

Q1 YoY Net Sales	Organic	Currency	Portfolio	Total
Life Science	9.7%	4.8%	0.2%	14.7%
Healthcare	6.5%	3.0%	0.0%	9.5%
Electronics	5.2%	6.0%	0.0%	11.2%
Group	7.8%	4.4%	0.1%	12.2%

- Life Science: Strong organic growth driven by all business units with Process and Applied Solutions both up +13% org.; Research Solutions growing (+2% org.) despite tough comps
- Healthcare: Recent launches up +50% organically (continued strong Bavencio[®] uptake) driving strong sector growth
- Electronics: +16% org. growth in Semiconductor Solutions more than offset organic decline in Display Solutions;
 Surface Solutions growing slightly

Q1 YoY EBITDA pre

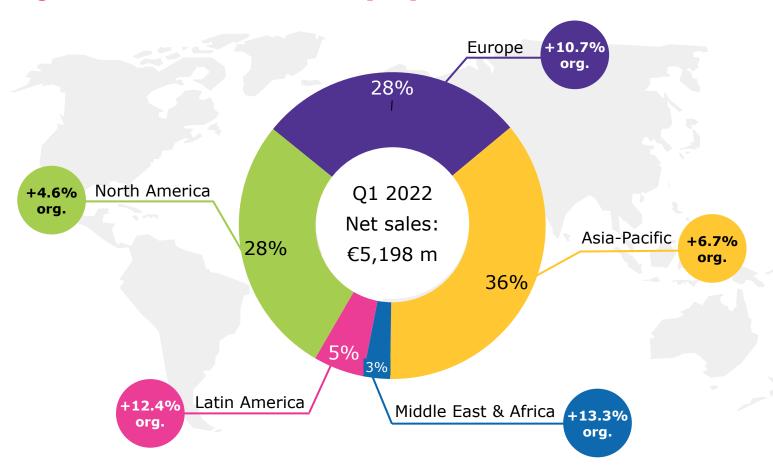


- EBITDA pre growing 2% org. despite higher nonrecurring income in Healthcare comps amid inflationary price pressures
- Life Science entirely drives org. EBITDA pre growth
- Positive FX effect of +6% across various currencies with largest positive impact from USD, CNY and TWD; partly offset by TRY and hedging



Strong Life Science and Healthcare are primary growth drivers across all regions

Regional breakdown of net sales [€m]



Regional organic development

- APAC: Semiconductor Solutions main growth driver, supported by Process Solutions and Bavencio®
- Europe: Process Solutions, Bavencio[®]
 and Mavenclad[®] primary growth drivers
- North America: Life Science, especially Process and Applied Solutions drive growth; Bavencio[®] supporting further
- LATAM: CM&E primary growth driver, further supported by Applied Solutions, Process Solutions and Fertility
- Fertility & CM&E main contributors to ME&A growth



Financial overview

03



Q1 2022: Overview

Key figures

[€m]	Q1 2021	Q1 2022	Δ
Net sales	4,631	5,198	12.2%
EBITDA pre	1,511	1,629	7.8%
Margin (in % of net sales)	32.6%	31.3%	-1.3pp
EPS pre	2.18	2.41	10.6%
Operating cash flow	1,216	840	-30.9%
[€m]	Dec. 31, 2021	March 31, 2022	Δ
Net financial debt	-8,753	-9,228	5.4%
Working capital	4,207	4,811	14.4%
Employees	60,335	61,518	2.0%

- Sales up +12%, driven by strong organic performance and FX tailwinds
- Life Science primary driver of organic EBITDA pre growth; FX upsides
- EPS pre growth driven by EBIT pre contribution, better financial result
- Operating cash flow decline driven by net working capital (favorable phasing in prior year payables) & tax payments
- Net financial debt increases, mainly driven by Exelead acquisition



Q1 2022: Reported figures

Reported results

[€m]	Q1 2021	Q1 2022	Δ
EBIT	1,043	1,173	12.5%
Financial result	-59	-34	-41.9%
Profit before tax	984	1,139	15.8%
Income tax	-236	-255	8.1%
Effective tax rate (%)	24.0%	22.4%	-1.6pp
Net income	747	880	17.9%
EPS (€)	1.72	2.02	17.4%

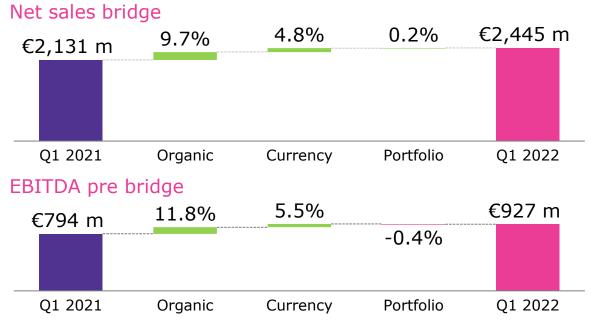
- EBIT growing +13% despite lower non-recurring income in Healthcare amid inflationary pressures
- Improved financial result primarily driven by reduced interest expenses from lower interest on tax liabilities & ongoing repayment of financial debt
- Lower effective tax rate within guidance range, driven by positive country mix in Life Science
- Net income and EPS growth reflect EBIT growth, improved financial result and lower tax rate



Life Science Q1: Core business drives sequential growth & another record quarter

Life Science P&L

[€m]	IFF	RS	Pr	е
	Q1 2021	Q1 2022	Q1 2021	Q1 2022
Net sales	2,131	2,445	2,131	2,445
M&S*	-501	-552	-500	-552
Admin	-82	-91	-74	-84
R&D	-75	-88	-75	-88
EBIT	594	723	608	730
EBITDA	780	922	-	-
EBITDA pre	794	927	794	927
(in % of net sales)	37.2%	37.9%	37.2%	37.9%



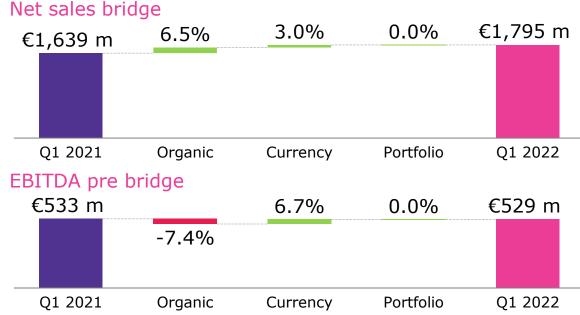
- Process Solutions: +13% org. growth, driven by strong core business performance; COVID-19 business declining sequentially as anticipated
- Research Solutions: growing +2% organically against strong comps, elevated by Q1 2021 post lockdown rebound & COVID-19 business
- Applied Solutions: +13% org. growth with strong performance across all businesses and customer segments, particularly in analytics & diagnostics in the pharma & biotech customer segments
- M&S in % of sales declining from 24% to 23% due to strong top line leverage, higher in absolute terms with logistics being the largest driver
- Higher R&D in absolute terms as well as in % of sales with continued investments in high growth & emerging segments, e.g. novel modalities
- EBITDA pre growing +12% org., exceeding sales growth despite significant investment in future growth and inflationary environment; driven by operating leverage and favorable product mix in core business



Healthcare Q1: Doubling Bavencio[®] sales and continued Mavenclad[®] growth drive +6.5% organic growth in the sector

Healthcare P&I

[€m]	IFI	RS	Pr	·e
	Q1 2021	Q1 2022	Q1 2021	Q1 2022
Net sales	1,639	1,795	1,639	1,795
M&S [*]	-370	-376	-365	-375
Admin	-73	-71	-69	-69
R&D	-416	-397	-415	-397
EBIT	445	454	455	458
EBITDA	523	526	-	-
EBITDA pre	533	529	533	529
(in % of net sales)	32.5%	29.5%	32.5%	29.5%



- Oncology up +27% org., primarily driven by continuous strong uptake of Bavencio[®] (+102% org.) particularly in the EU and Japan; Erbitux[®] growing across all regions (+10% org.)
- Mavenclad® ramp-up (+25% org.) amid still depressed U.S. dynamic market more than offsets ongoing Rebif® decline (-15% org.)
- Stable established portfolio, driven by solid performance in Fertility (+4.3% org.) and CM&E (+2.5% org.)

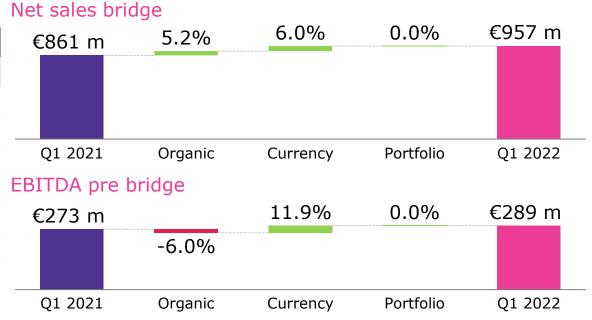
- M&S declining in % of sales; absolute increase mainly driven by increasing face-to-face activities, primarily in the U.S.
- Lower absolute R&D level mainly driven by termination of Bintrafusp study in Q3 2021
- EBITDA pre and margin decline driven by non-recurring income components of ~ €75 m in Q1 2021 (Bintrafusp deferred income & ~€50 m Bavencio[®] milestones)



Electronics Q1: Strong Semi performance continues to drive sector growth

Electronics P&L

[€m]	IFI	RS	Pr	е
	Q1 2021	Q1 2022	Q1 2021	Q1 2022
Net sales	861	957	861	957
M&S [*]	-135	-156	-135	-156
Admin	-34	-28	-33	-28
R&D	-67	-75	-66	-75
EBIT	125	145	142	156
EBITDA	259	279	-	-
EBITDA pre	273	289	273	289
(in % of net sales)	31.8%	30.2%	31.8%	30.2%

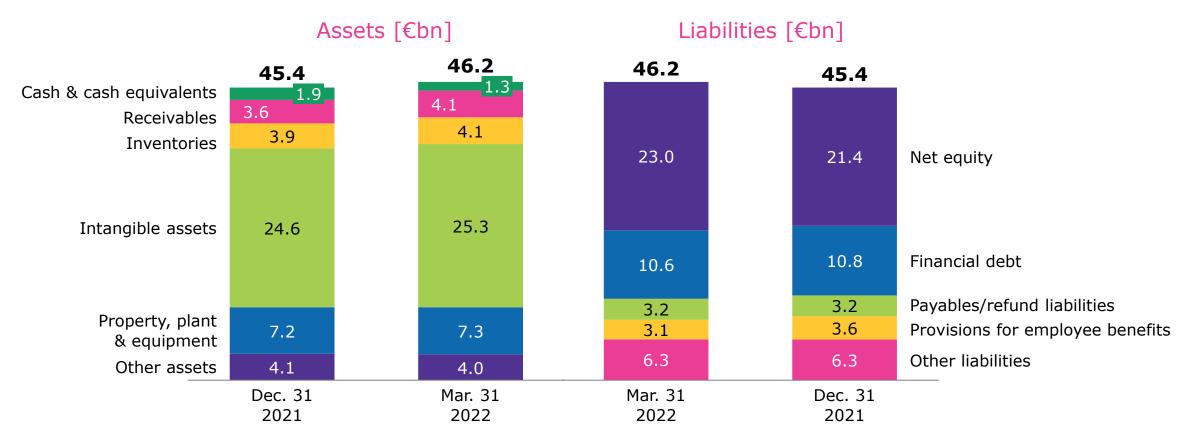


- Semiconductor Solutions: +16% org. growth fueled by mid teens growth
 M&S as a percentage of sales increasing by ~1pp driven entirely by in Materials further supported by DS&S project business
- Display Solutions: down -12% organically, driven by continued decline in R&D increase in line with sales growth, fully driven by investments in Liquid Crystals (accelerated by lower utilization at Chinese customers)
- Surface Solutions: +1% org. growth driven by strong cosmetics business, more than offsetting softer industrials and coatings (automotive shortages)

- higher logistics cost, while M&S w/o logistics is declining
- Semiconductor Materials
- EBITDA pre margin remains at 30% amid inflationary developments (raw materials, energy & logistics); own pricing measures keep Semi margins intact



Balance sheet



- Lower cash level driven largely by Exelead acquisition and capex investments, partially offset by strong operating cash flow
- Receivables & inventories driven by strong business growth and FX
- Higher intangible assets driven by Exelead acquisition and FX effects
- Reduction in provisions for employee benefits driven by actuarial gains from higher interest rates
- Equity ratio up further to 50% (vs. 47% in 2021) driven by retained earnings and translational FX effects



Cash flow statement

Q1 2022 – Cash flow statement

[€m]	Q1 2021	Q1 2022	Δ
Profit after tax	748	884	136
D&A	424	430	6
Changes in provisions	-34	22	55
Changes in other assets/liabilities	160	-149	-309
Other operating activities	6	-24	-30
Changes in working capital	-88	-322	-234
Operating cash flow	1,216	840	-376
Investing cash flow	-346	-1,089	-743
thereof Capex on PPE	-309	-413	-105
Financing cash flow	6	-315	-321

Cash flow drivers

- +18% profit after tax growth driven by strong business performance, improved financial result and lower tax rate
- Delta in other assets & liabilities driven by elevated 2021 level from phasing in tax positions and a pension related shift between provisions and other assets
- Delta in working capital mainly explained by payables phasing (+ ~ €300 m in Q1 2021); higher inventories and receivables amid strong sales growth
- Higher investing cash flow driven by Exelead acquisition; higher PPE Capex supporting capacity expansions
- Financing cash flow driven by repayment of financial debt



ESG update

04



Group confirmed as "1.5°C Company" by SBTi

SBTi certification of Scope 1-3 targets

Work on **SBTi roadmap** towards climate targets 2030

Aiming for **climate neutrality by 2040**

SCIENCE BASED

Scope 1+2

Absolute reduction of Scope 1+2 GHG¹ emissions by 50% until 2030 (vs. 2020)

Scope 3

Intensity reduction of kg Scope 3 GHG¹ emissions per € gross profit by 52% until 2030 (vs. 2020)

Renewable energy

Source 80% of purchased electricity from renewable sources by 2030

Science Based Target initiative (SBTi):

- Science-based targets provide a clearly defined pathway for companies to reduce GHG¹ emissions, helping prevent the worst impacts of climate change and future-proof business growth
- Targets are considered 'science-based' if they are in line with what the latest climate science deems necessary to meet the goals of the Paris Agreement, pursuing efforts to limit global warming to 1.5°C



Guidance

05



Well positioned to navigate operating challenges amid highly dynamic geopolitical situation

War in Ukraine



Input price pressures & supply chain disruptions



COVID-19 lockdowns



- High degree of uncertainty
- Russia sanctions might increase
- Increasing call to stop "financing" war with oil and gas



- Energy supply shortages throughout 2022
- Impact mainly limited to EMEA
- No outages expected

- Inflation rates rising worldwide
- Global production bottlenecks
- Risk of stagflation increasing
- Freight costs remain elevated
- Higher & volatile energy cost
- Selected materials see further price increases, very minor shortages
- Tightening labor markets

- Global trend: shift to endemic
- China: Shanghai & other provinces locked down to prevent spread of Omicron
- Limited duration of sales and production impact
- Normalization in June latest
- Only few provinces affected



- Higher safety stocks for critical raw materials, actively monitoring supply base (tier 2+)
- Evaluating & adjusting pricing case-by-case, depending on situation (e.g. temporary surcharges)
- More e-commerce & additional channels in lockdown-affected areas, primarily in Life Science
- Leveraging production sites outside of lockdown-affected areas wherever possible



Full-year 2022 guidance

Net sales:

Organic: +6% to +9% YoY

FX: 3% to 6% YoY

~€21.6 bn to €22.8 bn

EBITDA pre:

Organic: +5% to +9% YoY

FX: 4% to 8% YoY

~€6.6 bn to €7.1 bn

EPS pre: ~ €9.60 to €10.50



2022 business sector guidance¹

Life Science



Net sales

- Organic: +7% to +10%
- Strong core business, Process Solutions COVID-19 sales of up to ~€700 m
- Process Solutions as main growth driver

EBITDA pre

- Organic: +6% to +10% YoY
- FX: 3% to 6% YoY
- ~€3,600 m to €3,850 m

Healthcare



- Organic: +4% to +7%
- Mainly driven by Mavenclad ® and Bavencio ®
- CM&E back to growth post VBP

EBITDA pre

- Organic: +3% to +5% YoY
- FX: 8% to 12% YoY
- ~€2,350 m to €2,500 m



Net sales

- Organic: +5% to +8%
- Underlying demand in key electronic end markets remains strong
- Strong contribution by Semiconductor Solutions

EBITDA pre

- Organic: 0% to +4% YoY
- FX: 9% to 12% YoY
- ~€1,200m to €1,300 m



Appendix



Additional financial guidance 2022

Further financial details

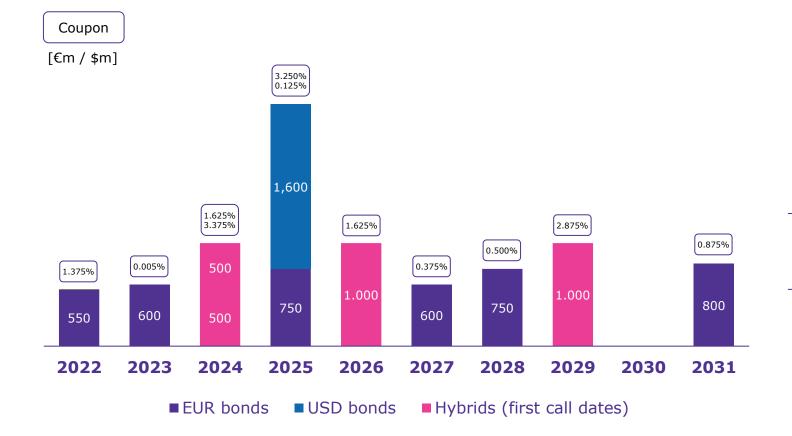
Corporate & Other EBITDA pre	-€510 m to -€570 m
Interest result	~ -€110 m to -€150 m
Effective tax rate	~22% to 24%
Capex on PPE ¹	~€1.6 bn to €1.7 bn
Hedging/USD assumption	FY 2022 hedge ratio ~50% at EUR/USD ~1.16
2022 Ø EUR/USD assumption	~1.06 to 1.10



¹Based on gross additions to PPE on balance sheet in fiscal year to reflect planned Capex expansion more accurately

Credit details

Maturity profile as of March 31, 2022



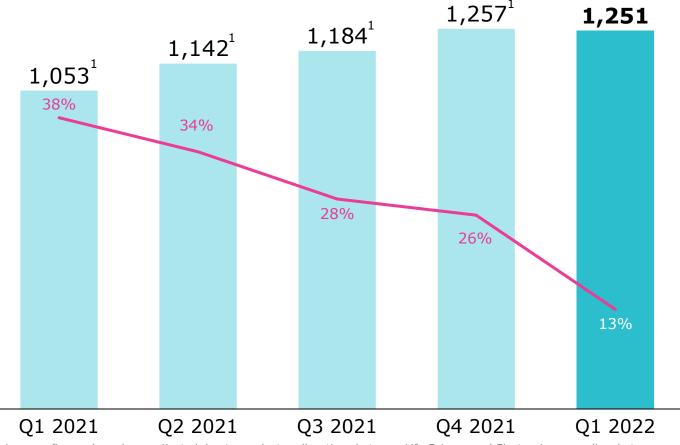
Credit rating information

	LT Rating	Since	Outlook	ST Rating
Moody's	А3	21.10.21	Stable	P-2
S&P Global	А	29.05.13	Stable	A-1
SCOPE	A-	11.10.21	Positive	S-1



BIG 3 - Process Solutions: Double-digit growth rate against high comps and fading COVID-19 demand

Sales development [€m] - org. growth [%]



¹Prior-year figures have been adjusted due to product reallocations between Life Science and Electronics, as well as between Process Solutions and Research Solutions. Prior year growth rates as previously shown, not reflecting product reallocations.

- Continued strong core business performance drives entire Q1 organic growth
- COVID-19 sales stable YoY; significant sequential decline vs. previous quarter
- Bioprocessing biggest growth driver, followed by active ingredients & formulations (e.g. lipids for mRNA)
- Growth moderating further and approaching mid-term guidance as COVID-19 demand fades as anticipated
- Sales sequentially stable with ongoing capacity ramp-up mitigated by temporary supply challenges at the start of the quarter
- All major regions record double-digit organic growth, with highest growth rate in EMEA
- Order intake still growing despite tough comps



Research Solutions: normalizing growth against strong comps, returning to mid-term guidance

Sales development [€m] - org. growth [%]



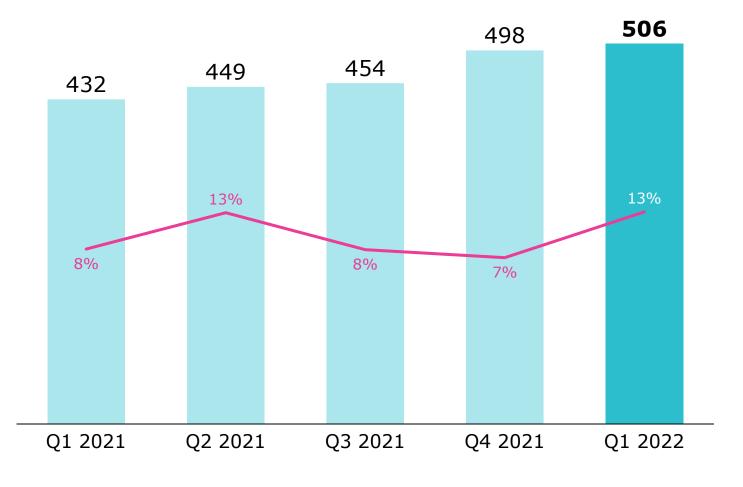
¹Prior-year figures have been adjusted due to product reallocations between Life Science and Electronics, as well as between Process Solutions and Research Solutions. Prior year growth rates as previously shown, not reflecting product reallocations.

- Organic growth rising to +2% despite tough comps
- Core business with robust growth above business unit mid-term guidance
- COVID-19 business declining YoY against elevated Q1 2021 levels, but up sequentially amid temporary Omicron spike
- Growth particularly reflecting strong demand in APAC region
- Pharma & Biotech and Industrial & Testing customer segments growing



Applied Solutions: Record absolute sales and double-digit growth

Sales development [€m] - org. growth [%]

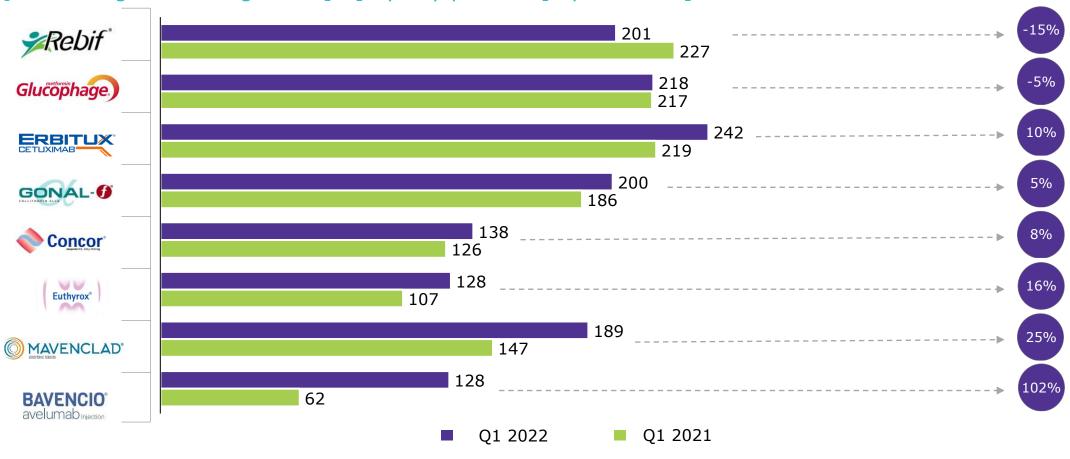


- Excellent start to the year with doubledigit organic growth in a strong market
- Core business main driver with robust performance across all business lines
- COVID-19-related sales remain negligible
- All regions contribute to double-digit growth, North America and Western Europe key drivers, emerging markets further supporting growth
- All customer segments growing, led by
 Pharma & Biotech



Healthcare organic growth by franchise/product

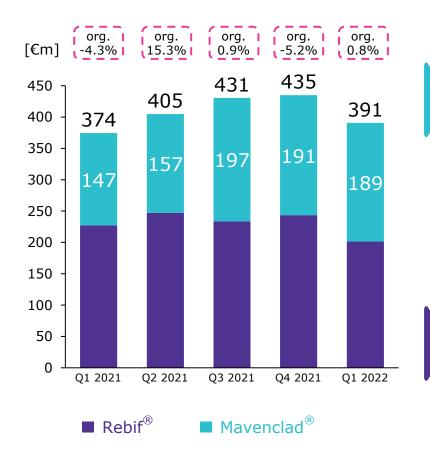
Q1 2022 organic sales growth [%] by key product [reported €m]



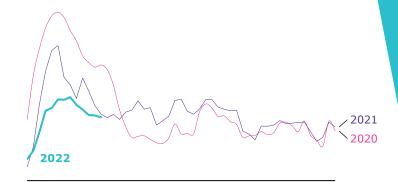


Neurology & Immunology: Q1 Mavenclad® sales up +25% organically, amid flat U.S. dynamic market

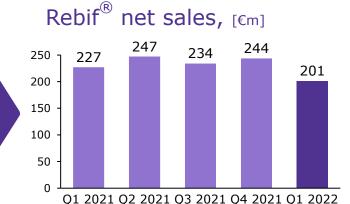
Sales development N&I, [€m]







Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



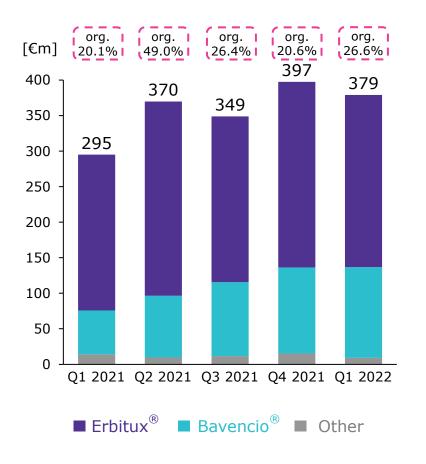
- Mavenclad[®] new patient up ~15% vs. Q4 2021. Sales flat sequentially driven by low number of Y2 patients from Q1 2021
- Within HE market Mavenclad[®] share remains stable in the U.S. and growing in major European markets

- Stable N&I franchise (+1% org.), Mavenclad[®] outweighs Rebif decline
- Rebif[®] decline in line with interferon market trend

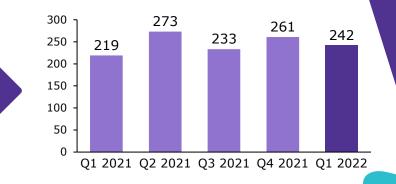


Oncology: Bavencio® mUC 1L ramp-up drives 102% Q1 organic growth

Sales development Oncology, [€m]

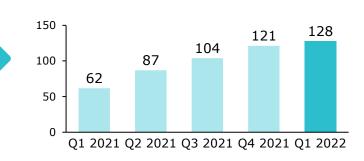


Erbitux[®] net sales, [€m]



- Growth across regions
- Erbitux SCCHN¹ included in NRDL² effective Jan 2022

Bavencio[®] net sales, [€m]

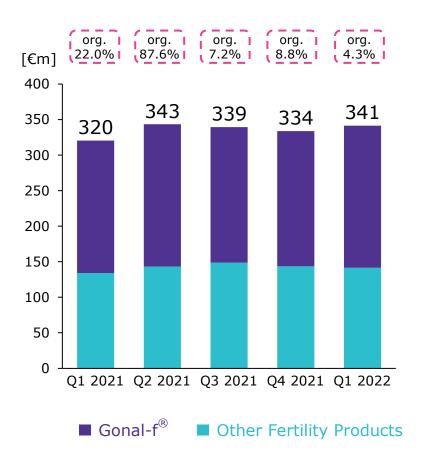


- Sales more than double (+102% org. growth)
- ~5% QoQ growth driven by mUC 1L launch ramp-up in Europe, supported by the U.S. and Japan. Further reimbursements in major EU markets achieved in April

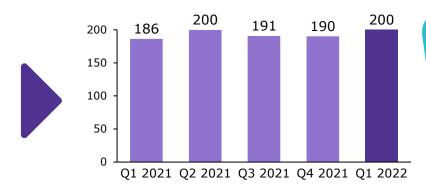


Fertility: Growth of +4.3% in line with mid-term guidance

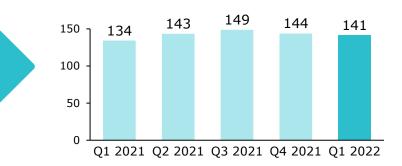
Sales development Fertility, [€m]



Gonal-f[®] net sales, [€m]



Other Fertility net sales, [€m]

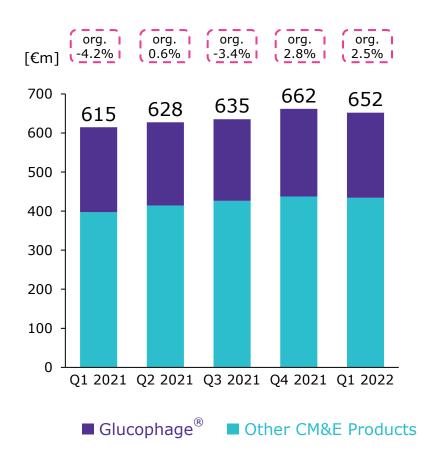


- Gonal-f[®] org. YoY growth in most markets
- Lockdowns in China posing a potential short-term risk
- Franchise expected to capitalize on increasing prevalence and awareness of infertility
- ESG: Positive customer feedback on Gonal-f[®] and Pergoveris[®] 'Slim Pack' launch

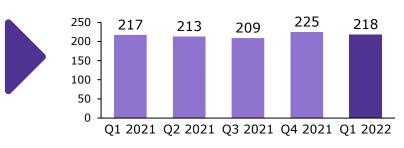


CM&E: Growth of +2.5%, supported by strong Euthyrox[®] and Concor[®] sales; Glucophage with tough comps due to VBP¹

Sales development CM&E, [€m]



Glucophage[®] net sales, [€m]



- Glucophage[®] organic decline of -5.1% offset by +5.4% FX tailwinds
- VBP not fully implemented Q1 2021; tougher comps

Other CM&E net sales, [€m]



 Other CM&E portfolio growth primarily driven by Euthyrox[®] and Concor[®] across all major regions



Healthcare pipeline

May 12, 2022

Phase I

M1069 A2aR_A2bR antagonist Solid tumors

M1231 Bispecific MUC1xEGFR ADC Solid tumors

M1774 ATR inhibitor Solid tumors¹

M4076 ATM inhibitor Solid tumors M6223 anti-TIGIT mAb Solid tumors²

peposertib
DNA-PK inhibitor
Solid tumors³

M5717 PeEF2 inhibitor Malaria

Phase II

berzosertib
ATR inhibitor
Small-cell lung cancer4

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

tepotinib MET kinase inhibitorNon-small cell lung cancer, *EGFR* mutant, *MET* amplified⁵

enpatoran TLR7/8 antagonist Systemic lupus erythematosus / Cutaneous lupus erythematosus

Phase III

xevinapant IAP inhibitor

Locally advanced squamous cell carcinoma of the head and neck⁶

evobrutinib BTK inhibitor Relapsing multiple sclerosis

arpraziquantel anthelmintic Pediatric schistosomiasis

Oncology

Immunology

Neurology

Global Health

Additional information:

As announced on December 20, 2021, Merck KGaA, Darmstadt, Germany is expanding its Neuroinflammatory Pipeline with acquisition of Chord Therapeutics. The acquisition provides the opportunity to develop cladribine in generalized myasthenia gravis (gMG) and neuromyelitis optica spectrum disorder (NMOSD).

ADC: Antibody drug conjugate; 2L: second-line treatment

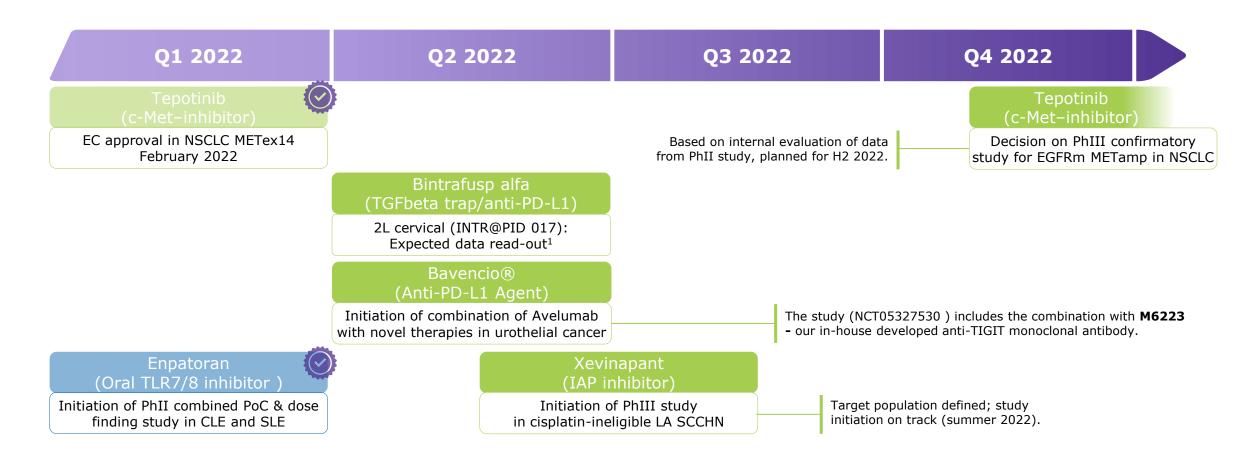
¹ Study as monotherapy and in combination with niraparib. ² Includes study in combination with bintrafusp alfa. ³ Study in combination with avelumab. ⁴ Includes studies (phase I/II) in collaboration with/ sponsored by external partners, e.g., US National Cancer Institute (NCI). ⁵ In combination with osimertinib. ⁶ In combination with cisplatin and radiotherapy in unresected LA SCCHN patients eligible for cisplatin.

Unless noted otherwise, clinical programs conducted in collaboration with external partners are not shown unless Merck KGaA, Darmstadt, Germany has co-ownership of data. In such cases the indication is shown in italics.

Pipeline products are under clinical investigation and have not been proven to be safe and effective. There is no guarantee any product will be approved in the sought-after indication.



Healthcare catalysts





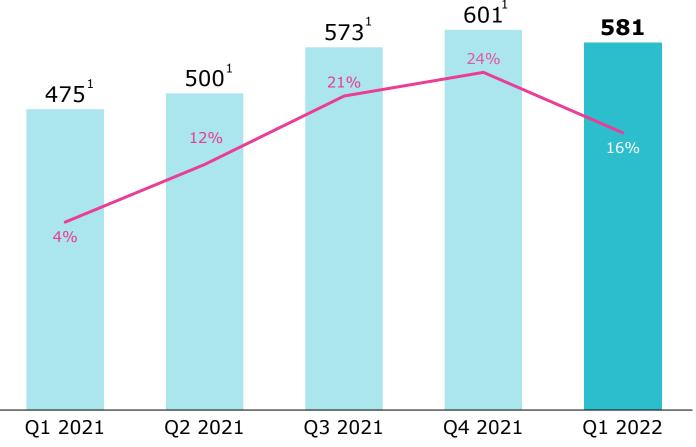
Acronyms: EMA = European Medicines Agency, LA = locally advanced, SCCHN = squamous cell carcinoma of the head and neck, NSCLC = non-small cell lung cancer, TLR = toll-like receptor, TIGIT = T cell immunoreceptor with Ig and ITIM domains,

1: Clinical timelines are event-driven and may be subject to change



BIG 3 - Semiconductor Solutions: Double-digit org. growth continues

Sales development [€m] - org. growth [%]



¹Prior-year figures have been adjusted due to product reallocations between Life Science and Electronics, as well as between Process Solutions and Research Solutions. Prior year growth rates as previously shown, not reflecting product reallocations.

- Strong quarter for Semiconductor Solutions amid continued favorable market conditions
- Semiconductor Materials again biggest contributor with mid-teens organic growth rate
- Strong DS&S project business, expected to last throughout 2022, with growth rate support tapering out in H2
- Continued strong confidence in mid-term market outperformance reflected in first quantitative 2022 Electronics guidance



Adjustments in Q1 2022

Adjustments in EBIT

[€m]	Q1 2021		Q1 2	022
	Adjustments	thereof D&A	Adjustments	thereof D&A
Healthcare	10	0	4	1
Life Science	14	0	7	1
Electronics	17	3	11	0
Corporate & Other	6	0	6	0
Total	47	3	28	3





Financial Calendar

Date	Event
May 12, 2022	Q1 2022 Earnings release
August 4, 2022	Q2 2022 Earnings release
October 6, 2022	Capital Markets Day
November 10, 2022	Q3 2022 Earnings release
March 2, 2023	Q4 2022 Earnings release
May 11, 2023	Q1 2023 Earnings release



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