

Credit Suisse 2015 Global Healthcare Conference

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This communication may include "forward-looking statements." Statements that include words such as "anticipate," "expect," "should," "intend," "project," "seek," "believe," "will," and other words of similar meaning in connection with future events or future operating or financial performance are often used to identify forward-looking statements. All statements in this communication, other than those relating to historical information or current conditions, are forward-looking statements. We intend these forward-looking statements are subject to a number of risks and uncertainties, many of which are beyond control of Merck KGaA, Darmstadt, Germany, which could cause actual results to differ materially from such statements.

Risks and uncertainties relating to the proposed transaction with Sigma-Aldrich Corporation ("Sigma-Aldrich") include, but are not limited to: the risk Sigma-Aldrich's shareholders do not approve the transaction; uncertainties as to the timing of the transaction; the risk that regulatory or other approvals required for the transaction are not obtained or are obtained subject to conditions that are not anticipated; competitive responses to the transaction; litigation relating to the transaction; uncertainty of the expected financial performance of the combined company following completion of the proposed transaction; the ability of Merck KGaA, Darmstadt, Germany, to achieve the cost-savinstad symmetries contemplated by the proposed transaction within the expected time frame; the ability of Merck KGaA, Darmstadt, Germany, to promptly and effectively integrate the businesses of Sigma-Aldrich and Merck KGaA, Darmstadt, Germany, and Sigma-Aldrich, including the combined company's future financial condition, operating results, strategy and plans; the implications of Merck KGaA, Darmstadt, Germany, and Sigma-Aldrich; and disruption from the proposed transaction making it more difficult to maintain relationships with customers, employees or suppliers.

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The foregoing review of important factors should not be construed as exhaustive and should be read in conjunction with the other cautionary statements that are included elsewhere, including the Report on Risks and Opportunities Section of the most recent annual report and quarterly report of Merck KGaA, Darmstadt, Germany, and the Risk Factors section of Sigma-Aldrich's most recent reports on Form 10-K and Form 10-Q. Any forward-looking statements made in this communication are qualified in their entirety by these cautionary statements, and there can be no assurance that the actual results or developments anticipated by us will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, us or our business or operations. Except to the extent required by applicable law, we undertake no obligation to update publicly or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.

Important Additional Information

This communication may be deemed to be solicitation material in respect of the proposed acquisition of Sigma-Aldrich by Merck KGaA, Darmstadt, Germany. The proposed acquisition will be submitted to the stockholders of Sigma-Aldrich for their consideration. In connection therewith, on November 3, 2014, Sigma-Aldrich filled a definitive proxy statement with the SEC. Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, Definitive proxy statement on November 3, 2014, Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, Sigma-Aldrich will be submitted to the stockholders of Sigma-Aldrich will submit the SEC and Sigma-Aldrich will submit the SEC and Sigma-Aldrich will be submitted to the stockholders of Sigma-Aldrich will be submitted to the stockholders of Sigma-Aldrich will submit the SEC and Sigma-Aldrich will be submitted to the stockholders of Sigma-Aldrich will be

Sigma-Aldrich and certain of its directors, executive officers and other members of management and employees may be deemed to be participants in the solicitation of proxies in connection with the proposed transaction. Information about the directors and executive officers of Sigma-Aldrich is set forth in its proxy statement for its 2014 annual meeting of stockholders, which was filed with the SEC on March 21, 2014, its annual report on Form 10-K for the fiscal year ended December 31, 2013, which was filed with the SEC on February 6, 2014, and in subsequent documents filed with the SEC, each of which can be obtained free of charge from the sources indicated above. Other information regarding the participants in the proxy solicitation of the stockholders of Sigma-Aldrich and a description of their direct and indirect interests, by share holdings or otherwise, is contained in the definitive proxy statement and other relevant materials filed with the SEC.



Agenda

Business overview

Transforming the company

Financial review and guidance

A balanced portfolio of four divisions



The Group

Biopharmaceuticals



Leading in certain specialty pharma markets

- Life cycle management
- Biologics
- Emerging markets

Consumer Health



Present in OTC niche markets

- Vitamins
- Supplements
- Strong presence in Latin America and Europe

Performance Materials



No. 1 in display materials

- Customer intimacy
- Innovation power
- Cost and technology leadership

Life Science

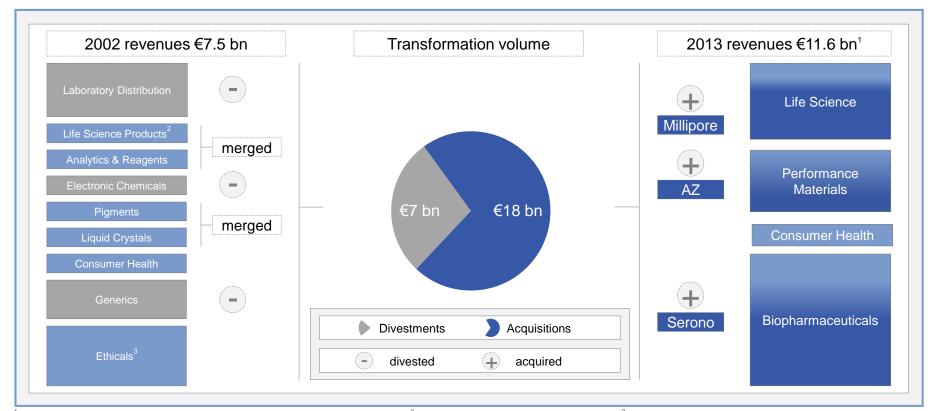


Top 3 in life science tools

- Global presence
- Innovation
- End-to-end solutions for pharma industry

We have added scale while strengthening the attractiveness of its portfolio

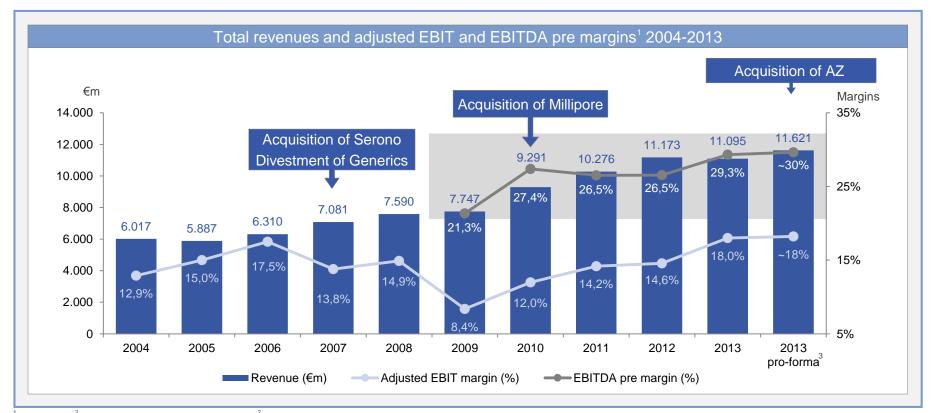




¹Proforma figure including FY 2013 sales of AZ Electronic Materials acquired as of 2 May 2014, ²Excluding "Crop Bioscience", which was divested; ³Excluding "Theramex", which was divested

Growth initiatives have fundamentally improved profitability

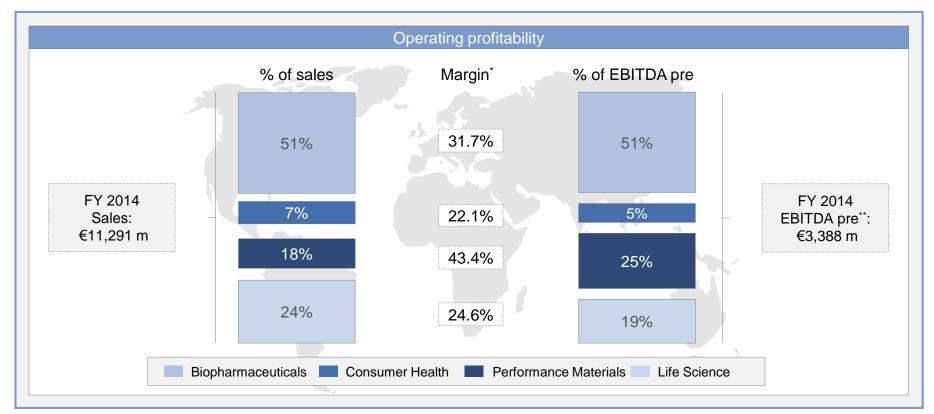




¹adjusted EBIT²and EBITDA pre divided by total revenues; ²adjusted EBIT is EBIT less exceptional items (e.g. impairments, integration costs, restructuring costs)
³Pro-forma calculation based on published FY 2013 results for Merck KGaA, Darmstadt, Germay (including pro-forma AZ); based on 100% expected synergies; including Corporate & Other

Strong businesses with attractive margins

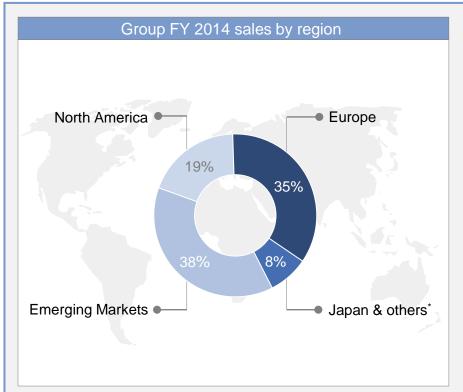


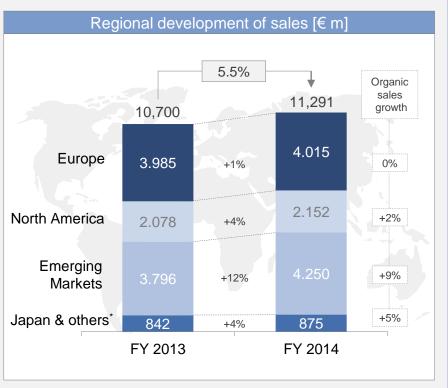


*EBITDA pre margin in % of sales
**Including Corporate/Others (-€166 m)

Emerging Markets drive organic growth







*Australia/Oceania. Africa

The Group going forward – three distinct business sectors support profitable growth









Strategic requirements

- Diversification
- Attractive markets
- High-margin businesses

- Overlapping core competencies (customer intimacy, innovation, quality, life cycle management)
- Company-specific culture



Agenda

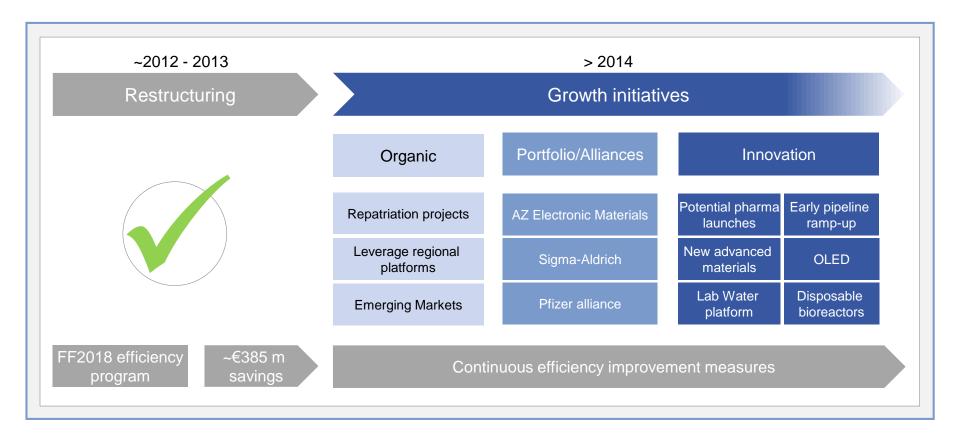
Business overview

Transforming the company

Financial review and guidance

Strategic agenda 2018 – milestones achieved





AZ – Complementing Performance Materials, expanding innovation leadership in niche markets



Healthcare

Life Science

Performance Materials



Merck KGaA

Darmstadt · Germany





Ongoing development in Liquid Crystals





- Launch of new UB-FFS* mode enhancing light transmission and reducing energy consumption
- Further advancing future technologies e.g. liquid crystal windows

Research in advanced technologies



EPSON

- Collaboration with EPSON on OLED progressing well
- Development of new proprietary OLED materials and LED phosphors - launch of a vivid green

R&D projects from AZ



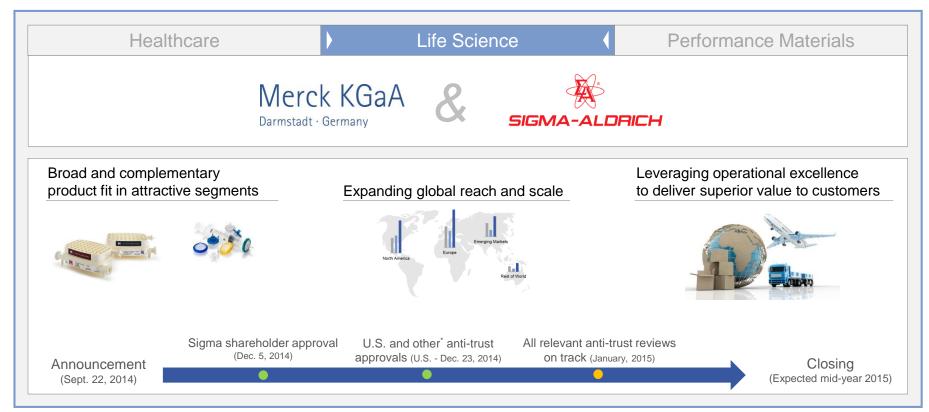


- Si-tech materials for OLED encapsulant
- Graphene-based materials in Separators, Anodes and Cathodes

Successful integration of AZ completed in 2014

Sigma-Aldrich – Next step to enhance Life Science business sector





*Russia, Serbia, Ukraine and Taiwan

Pfizer collaboration – Acceleration and broadening of immuno-oncology pipeline



Healthcare Life Science Performance Materials

Merck KGaA
Darmstadt · Germany

Leverage anti-PD-L1 asset



- Avelumab* with over 700 patients already enrolled in PI/II
- Initiation of several pivotal studies in 2015 e.g.:
 - Lung, bladder, renal, ovarian, gastric

Tackle combination therapies



- Enlarge pool of potential combinations
- Combination studies in 2015 e.g.:
 - Axitinib (Inlyta) in renal cancer
 - Crizotinib (Xalkori) ALK/ROS in lung cancer

Build commercialization strength



- Co-commercialization of Xalkori in U.S. and other key markets
- Ramp-up of Oncology infrastructure and capabilities in 2015, especially in U.S.

^{&#}x27;Avelumab = proposed International Non-proprietary Name (INN), formerly referred to as Anti-PD-L1 mAb (MSB0010718C)

Strategic agenda 2018 – milestones achieved

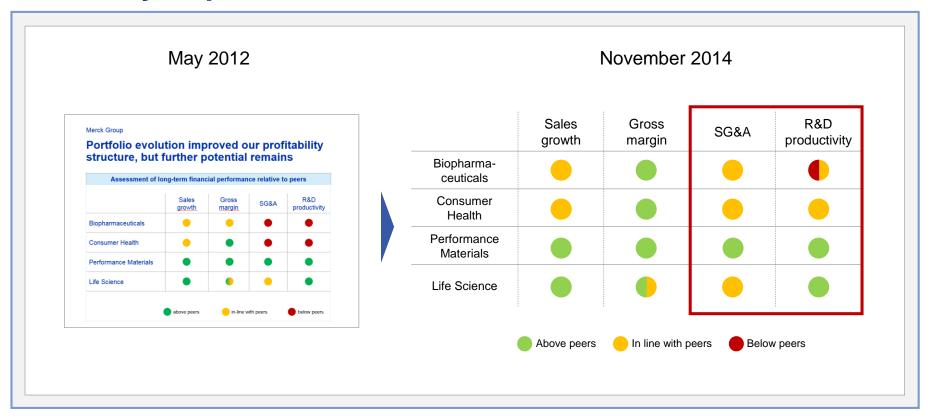




¹Bristol-Myers Squibb: ²General Medicine

Strong progress since 2012 but further room for efficiency improvements





Ongoing efficiency initiatives to reduce costs and to support our growth strategy





- Harmonization of IT systems
- Standardization of processes
- Leverage and upscale shared services



- Further reduction of operating leverage
- Additional focus on non-headcountrelated costs
- Permanent cost control as part of our DNA



Scalable business model enabling swift M&A integration and synergy generation



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Transforming the company

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FY 2014: Another year of sound delivery



[C]	EV 0040	EV 004.4	
[€ m]	FY 2013	FY 2014	Δ
Sales	10,700	11,291	5.5%
EBITDA pre	3,253	3,388	4.1%
Margin (% of sales)	30.4%	30.0%	
EPS pre [€]	4.39	4.60	4.8%
Operating cash flow	2,226	2.705	21.6%
[€ m]	Dec 31, 2013	Dec. 31, 2014	Δ
Net financial debt	307	559	82.3%
Working capital	2,132	2,356	10.5%
Employees	38,154	39,639	3.9%

■ Sales, EBITDA pre and EPS pre	
increase on organic growth and AZ	

FY 2014

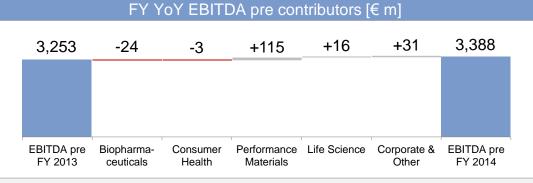
- Operating cash flow benefits from Pfizer upfront payment
- Only slight increase in financial debt,
 AZ acquisition digested within a year
- Higher headcount includes employees from AZ

All businesses drive organic growth



FY 2014 YoY sales	Organic	Currency	Portfolio	Total
Biopharmaceuticals	3.6%	-1.9%	0.0%	1.7%
Consumer Health	5.4%	-2.2%	0.0%	3.2%
Performance Materials	4.1%	-1.5%	22.8%	25.4%
Life Science	4.5%	-1.7%	-0.7%	2.1%
Group	4.0%	-1.8%	3.3%	5.5%

- All Biopharmaceuticals franchises deliver organic growth; Rebif stable
- Volume growth in Liquid Crystals drives Performance Materials
- Life Science benefits from strong demand from biopharma industry



- Biopharmaceuticals affected by royalty income loss and higher production costs
- Performance Materials includes eight months of AZ contribution
- Life Science with solid organic performance
- Corporate contains ~€45 m hedging gains

Totals may not add up due to rounding

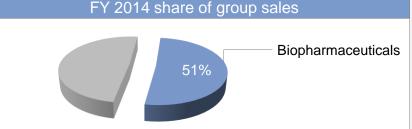
Biopharmaceuticals: Solid performance supported by all franchises amid royalty income reduction



[€ m]			FY 2013*	FY 2014	
Sales			5,688	5,783	■ Organi
Marketing and	selling		-1,814	-1,780	
Admin			-202	-220	restock
R&D			-1,178	-1,344	
EBIT			793	957	
EBITDA			1,787	1,786	deman R&D re
EBITDA pre			1,855	1,831	■ Lower
Margin (% of s	sales)		32.6%	31.7%	
	;	Sales brid	ge		
€5,688 m	3.6%	-1.9%	0.0%	€5,783 m	
FY 2013	Organic	Currency	Portfolio	FY 2014	

Comments

- Organic growth partially offset by adverse currency effects
- Rebif organically stable, as U.S. pricing and Q1 wholesaler restocking offset volume declines due to competition from orals
- Solid Erbitux performance driven by growth in Emerging Markets and support from Japan, while Europe is flat
- Strong organic growth of fertility business as a result of good demand for entire portfolio especially from China and U.S.
- R&D reflects pipeline prioritization and Biosimilars initiatives
- Lower profitability owing to royalty decline



*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

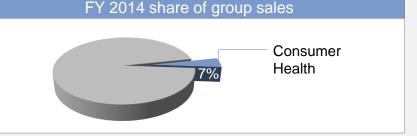
Consumer Health: Focus on strategic brands in Emerging Markets drives organic performance



[€ m]			FY 2013*	FY 2	2014
Sale	es			742		766
Marl	keting and	selling		-287		-303
Adm	nin			-27		-27
R&D)			-22		-22
EBI	Т			162		150
EBITDA		171		160		
EBI	TDA pre			172		169
Mar	gin (% of s	sales)		23.2%	22	2.1%
Sales bridge						
	€742 m	5.4%	-2.2%	0.0%	€766 m	
	FY 2013	Organic	Currency	Portfolio	FY 2014	

Comments

- Increase in sales as good organic growth driven by Emerging Markets and Europe is partially offset by FX headwinds
- New strategic brands Neurobion and Floratil drive organic growth mainly from EM supported by consumer focused marketing
- Europe solid with strong demand for Femibion and some local brands especially in Germany
- Marketing and selling increases on global marketing initiatives;
 shift in promotional spending towards strategic brands continues
- Slight decrease in profitability due to investments in marketing and selling



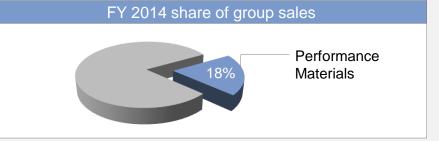
Performance Materials: Growth fueled by display industry trends



[€ m]			FY 2013	FY 2014
Sales			1,642	2,060
Marketing and	dselling		-152	-178
Admin			-28	-56
R&D			-145	-171
EBIT			653	611
EBITDA			766	804
EBITDA pre		780	895	
Margin (% of	sales)		47.5%	43.4%
Sales bridge				
€1,642 m	4.1%	-1.5%	22.8%	€2,060 m
FY 2013	Organic	Currency	Portfolio	FY 2014

Comments

- Sales increase as good organic growth and portfolio effects from AZ are slightly offset by negative FX effects
- Liquid Crystals flagship technologies (IPS & PS-VA) see ongoing good demand
- Pigments with slight organic growth owing to good demand for Xirallic products from coating industry
- Cost base reflects portfolio effects from AZ
- Increase in EBITDA pre contains organic growth and AZ
- EBITDA pre margin reflects mix effect from AZ



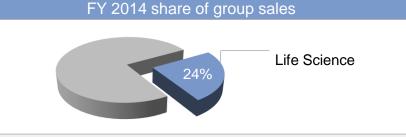
Life Science: Growth in Process Solutions



[€ m]			FY 2013	FY 2014
Sales			2,628	2,682
Marketing and	selling		-835	-844
Admin			-99	-110
R&D			-160	-163
EBIT			262	289
EBITDA		590	599	
EBITDA pre		643	659	
Margin (% of	sales)		24.5%	24.6%
Sales bridge				
€2,628 m	4.5%	-1.7%	-0.7%	€2,682 m
FY 2013	Organic	Currency	Portfolio	FY 2014

Comments

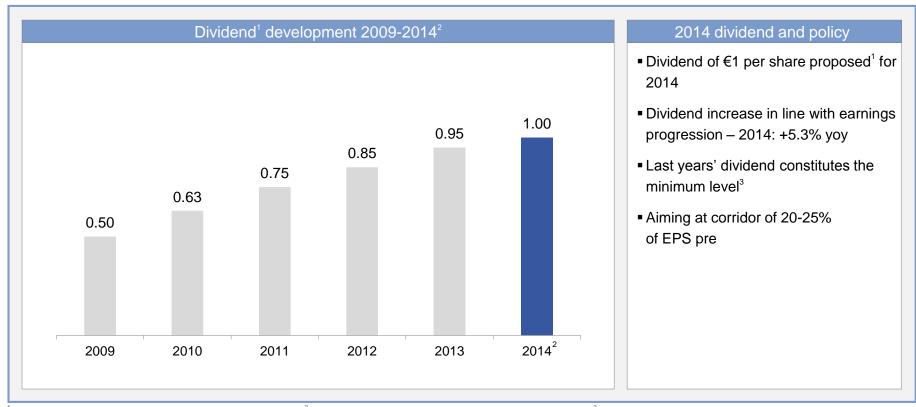
- Sales increase as organic growth overcompensate FX headwinds and portfolio effects*
- Process Solutions growth driven by biopharma demand for filtration and single-use products stemming from all regions
- Bioscience organically flat, as solid demand for separation and preparation products is offset by soft demand for antibodies
- Demand for consumables and water purification solutions in Emerging Markets drives organic growth in Lab Solutions
- Profitability stable due to solid volumes and pricing



Discovery and Development Solutions divestiture

Sustainable dividend development

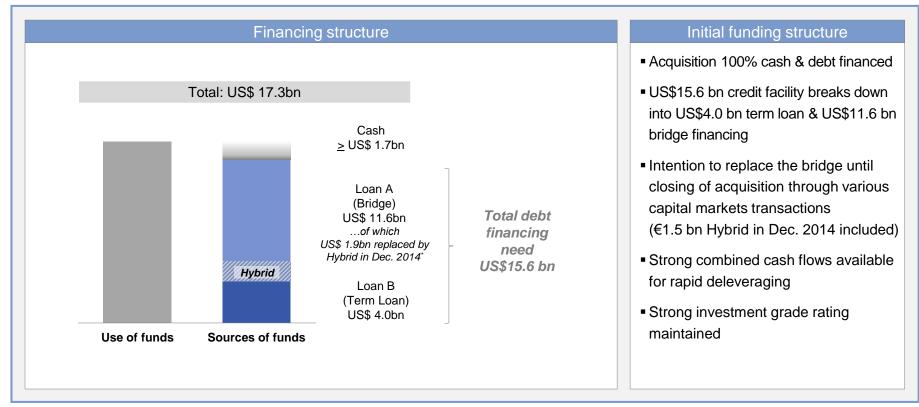




Adjusted for share split, which has been effective since June 30, 2014; Proposal; final decision subject to Annual General Meeting approval; Assuming a stable economic environment

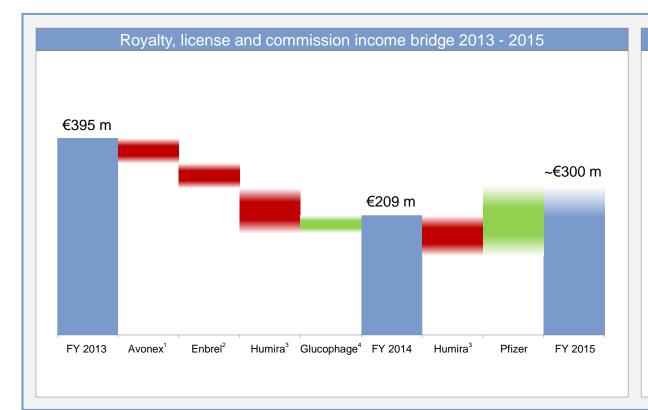
Solid structure to finance transaction





Food for thought on royalty, license and commission income





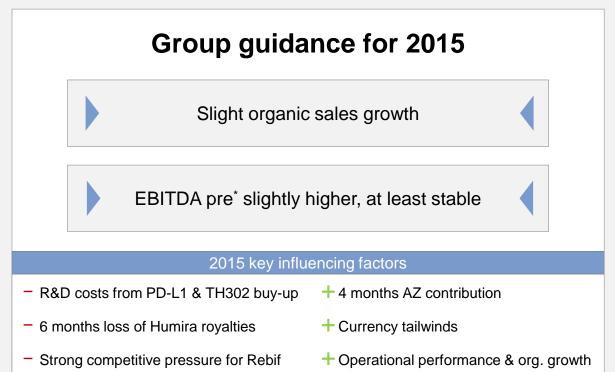
Details and future changes

- Pfizer deal contains release of upfront and Xalkori accruals
- New reporting starting 2015:
 - Net Sales will include commission and profit share income
 - Royalty & license income will be within Other Operating Income
 - Royalty, license and commission expenses will be allocated to individual functional lines

Illustration; ¹Avonex patent expired in May 2013; ²Enbrel patent expired in November 2013; ³Humira royalty income expired June 30, 2014; ⁴Commission income due to co-promotion agreement for Glucophage with BMS in China – shown in net sales in 2015

Indicative 2015 guidance







Merck KGaA

Darmstadt · Germany



Appendix

Guidance details

Sigma acquisition & pharma update

Financial details

Business sector guidance

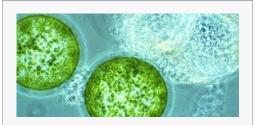


Healthcare



- Organically stable top line
- Rebif decline
- Growth in other franchises
- EBITDA pre slightly lower

Life Science



- Moderate organic sales growth
- Process solutions key growth contributor
- Moderate EBITDA pre increase

Performance Materials



- Slight organic growth
- Strong AZ portfolio effect leads to low double-digit EBITDA pre increase

Group 2015:

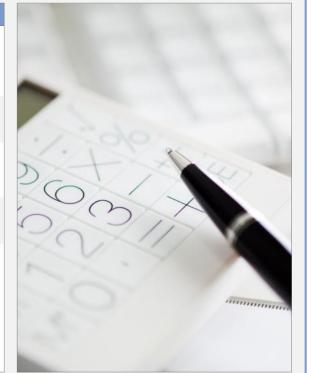
EBITDA pre* slightly higher - at least stable

Slight organic sales growth

Additional financial guidance



Further financial details					
Group royalty, license and commission income in 2015	~€300 m				
Corporate & Other EBITDA pre	at least -€220 m				
Underlying tax rate	~23% to 25%				
Capex on PPE and software	~€600 m				





Appendix

Guidance details

Sigma acquisition & pharma update

Financial details

Sigma-Aldrich – Next step to become a leading life sciences company



Attractive life science industry

- Attractive industry driven by sustainable underlying market trends
- Stable growth pattern, offering additional growth opportunities
- Strong companies with healthy margins



- Strong track record of delivering profitable growth
- Adding scale with step change acquisition

Sigma Aldrich acquisition – A compelling transaction rationale



Strategic and operational fit

- Increasing scale expanding position in attractive life science industry
- Enhancing value for our customers
 - Broadens product range and ease of doing business for Laboratories & Academia
 - Complements Process Solutions product offering
- Closing the gap in U.S. adequate presence in all geographies
- Leveraging existing platforms for global innovation rollout

Financial fit

- Further diversification of revenue stream
- Substantial synergy potential
- Immediately accretive to EPS pre* and EBITDA margin
- Solid investment grade rating will be maintained

Sigma-Aldrich – A leading life science consumables supplier



Business

- Total revenues of \$2.7 billion in 2013
- ~9,000 employees including ~3,000 scientists and engineers
- Headquartered in St. Louis, MO
- Chemical and biochemical products, kits and services provider to laboratories and pharma production
- No. 1 eCommerce platform in the industry; ~1,600 sales people

Footprint

- Balanced regional exposure; strength in North America
- Operations in ~40 countries; products available in ~160 countries



Together serving the attractive €100bn life science industry



~€100 bn life science industry

Laboratory & Academia

~€25 bn industry



Low-to-mid single digit growth

Market trends

- Continued investments in pharma R&D
- Increased regulatory requirements for analytics and testing
- Emerging markets (EM) fueling growth in scientific research

Bio-/Pharma production

~€35 bn industry



Mid-to-high single digit growth

Market trends

- Increasing biologic production volumes
- Expanding production in EM
- Higher regulatory requirements

Other industries

~€40 bn industry



Mid-to-high single digit growth

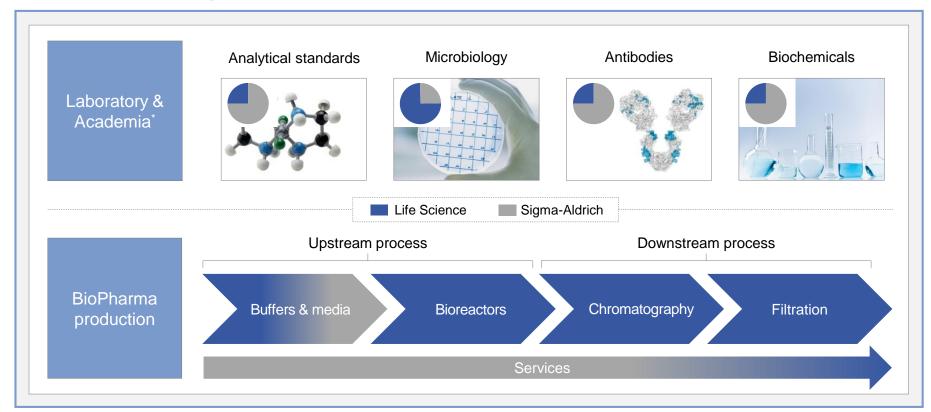
Market trends

- Higher regulatory and product quality requirements
- Expanded environmental and food & beverage testing

Attractive industry EBITDA margin of ~25%

Broad and complementary product fit in attractive segments

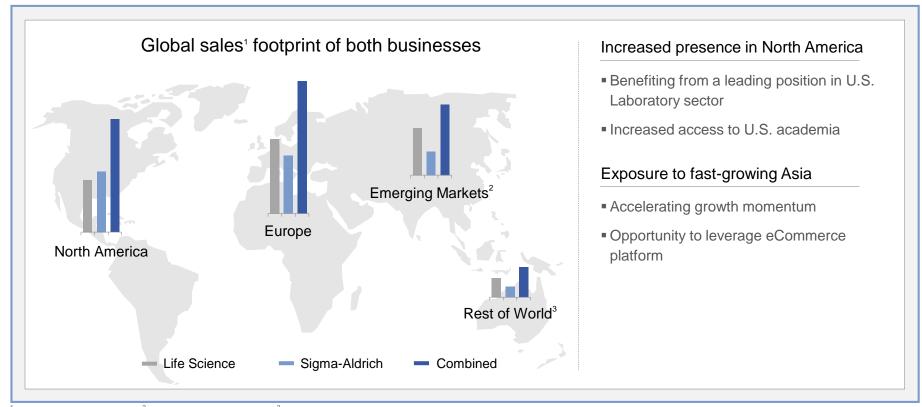




*Key laboratory and academia areas illustrated

Expanding global reach and scale





Leveraging operational excellence to deliver superior value to customers



Product innovation

- Delivering innovative workflow solutions to increase customers' efficiency
- Broad technology and platforms
- Recurring winners of renowned innovation awards











Amnis

Process innovation

- Efficient supply chain for >300,000 products
- Best in class customer experience;
 e.g. 24 hour delivery in major markets
- Top-notch customer interface supported by eCommerce platform



eCommerce platform



Supply chain

Efficient work flow solutions and unique customer experience

Sigma-Aldrich – Business and transaction financials Merck KGaA



Overview of	financial d	lata¹	
US\$ m	2012	2013	2014E ⁴
Revenue	2,623	2,704	2,796
% YoY at constant FX	+3%	+3%	n.a.
EBITDA (adjusted)	809	821	852
% of sales	31%	30%	30%
D&A	136	138	132
% of sales	5%	5%	5%
Net financial debt (period end)	-41	-357	-466 ⁵
No. of shares (diluted, m)	122	121	n.a.

Proposed transaction details²

- Equity value ~US\$17 bn (€13.1 bn)
- Enterprise value (EV) ~€12.7 bn including net cash ~€360 m
- Financing through cash and debt; no equity
- Assumed synergies: ~€260m
- In line with core acquisition criteria
 - Immediately accretive to EPS pre
 - Solid investment grade rating will be maintained

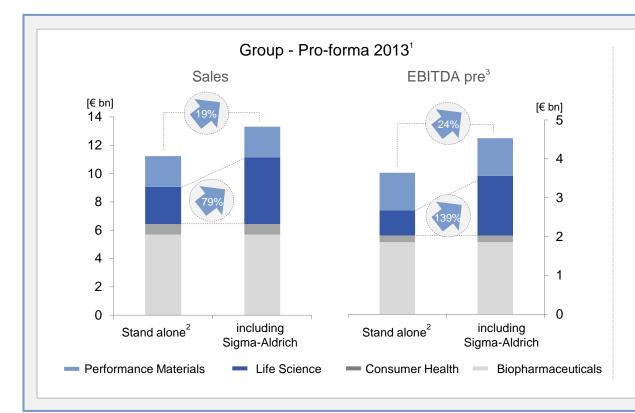
	Implied	forward	transaction	multiples ³
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	2013	2014E ⁴
EV/Sales	6.1x	5.9x
EV/EBITDA	20.1x	19.4x
EV/EBITDA pro-forma incl. synergies ³	14.3x	13.9x

Source: Company reports; ²FX conversion: EUR/USD 1.30; ³"Pro-forma" calculation based on 100% expected synergies; ⁴Median consensus estimates from latest broker reports; ⁵Last reported as per H1 2014 report (June 30, 2014)

Transaction enhances financial profile





Pro-forma financial impacts

- Group sales¹ increase by ~19%
- Group EBITDA pre³ rises by ~24% with margin⁴ expansion from ~30% to ~33%
- Synergies: ~€260m p.a. fully implemented in 3rd full year after closing
- Expected PPA impact: Mid triple-digit €m p.a.
- Immediately EPS pre accretive

¹Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma AZ Electronic Materials) and Sigma-Aldrich; ²Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma AZ Electronic Materials); ³Pro-forma calculation based on 100% expected synergies; excluding Corporate & Other; ⁴Including Corporate & Other,

Support from meaningful synergies



Our experience



- Significant restructuring and integration experience
- Deep knowledge and understanding of the life science industry

Source of synergies



- Consolidate manufacturing footprint
- Increase conversion to eCommerce channels



- Streamline admin functions and infrastructure
- Save U.S. public company costs
- Optimize R&D portfolio

Planned delivery

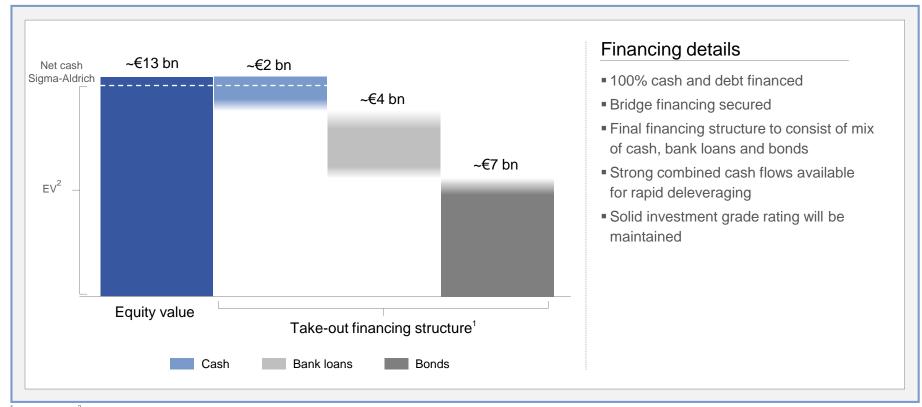


- Synergies: ~€260 m, i.e. ~12% of Sigma-Aldrich sales
- Fully implemented in third full year after closing
- Expected integration costs:~€400 m; spread over 2015-2018



Sigma-Aldrich acquisition – Financing secured





¹Indicative only; ²Enterprise value

Merck KGaA, Darmstadt, Germany and Pfizer – two strong players combining forces in oncology



Merck KGaA

Darmstadt · Germany

R&D capabilities

- Anti PD-L1 compound with over 550 patients treated in Phase I study across multiple tumor types
- Interim analysis of expansion cohorts confirms promising risk/benefit on 2nd line NSCLC and heavily pre-treated ovarian cancer patients
- On-going Phase II study in m-Merkel cell carcinoma

Commercial strength

 Well positioned in Europe and Emerging markets

Compound and R&D expertise



Regulatory & Commercial track record

Pfizer

R&D capabilities

- Track record in drug development:
 3 oncology product launches
 in 2011/2012
- Multiple immuno-oncology and oncology assets with potential for combination therapies

Commercial strength

- Substantial footprint in the U.S.
- Global oncology drugs already marketed
- Strong financial position to fully leverage potential of the Anti-PD-L1 compound

Strong commitment to immuno-oncology

Three strategic drivers for collaboration



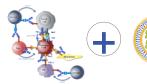
Leverage Anti PD-L 1 asset



- Combine our R&D and Pfizer's commercialization capabilities
- Speed up overall development process through joint R&D efforts
- Combine financial resources of two global pharma players
- Share development risk



Tackle combination therapies



- Enlarge pool of potential combinations through use of Pfizer's pipeline assets and existing products of Pfizer
- Leverage scientific expertise through joint research efforts
- Increase momentum to bring combinations to the market



Build new commercialization strength



- Co-commercialization of Xalkori in major markets
- Build up Oncology infrastructure and capabilities, especially in North America
- Broaden experience and knowledge base in advance of potential Anti-PD-L1 launch
- Additional income stream to drive R&D activities

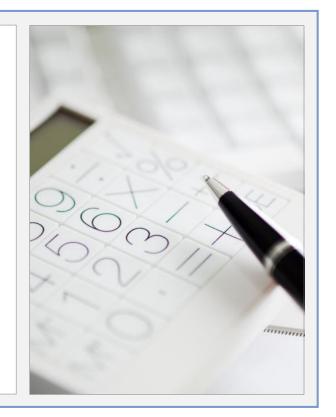




Financial implications of the deal with Pfizer

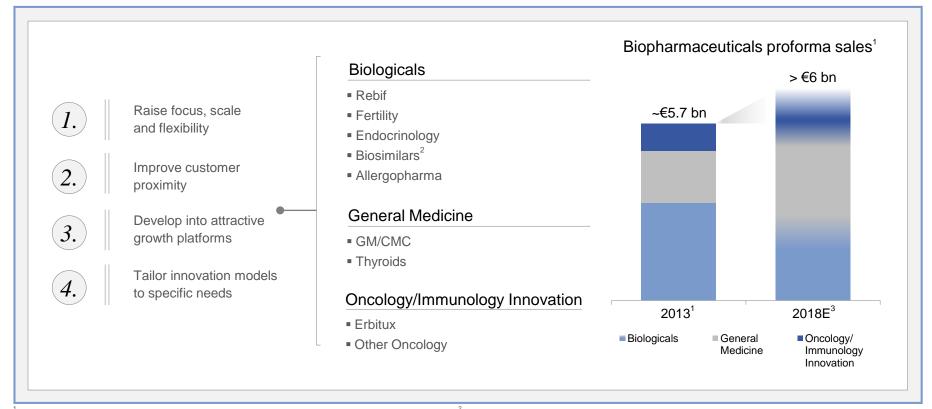


- \$850 m upfront cash payment, accrual to be released over several years
- ~50:50 R&D Cost split for drug development
- Milestone payments of up to \$2.0 bn based on filing/approval and commercialization of the compound across various indications & markets
- Co-commercialization of Xalkori 2015 reimbursement for ramping up infrastructure and capabilities; followed by profit sharing agreement
- Following regulatory approval, first potential sales of Anti PD-L1 compound



Biopharmaceuticals has three different business models with specific strengths and requirements





Source: Proforma re-calculation based on 2013 data for Biopharmaceuticals; excluding Consumer Health; ²Gradual sales ramp-up expected from 2017 onwards

Excluding contributions from R&D pipeline

The road to maximizing our existing franchises is clear





Continue to drive front-line mCRC share by increasing patient testing and expanding head and neck coverage



Capitalize on strong efficacy and new smart devices to maximize differentiation and defend franchise





Build on No.1 position and ART¹ channel access with embryo diagnostics and other innovative technologies

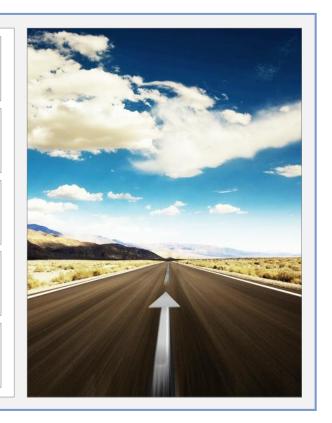




Harness strengths of existing business and build a new focus area driven by innovative devices and services for patients



Build on existing track record in Emerging Markets, drive brand and life-cycle management and expand business including asset repatriation



Portfolio management: Differentiating across diverse Merck KGaA business models

General Medicine portfolio



- Limited risk with high cash generation
- Sustainable steady growth fueled by Emerging Markets



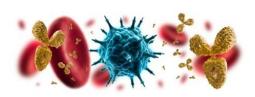
Biologicals portfolio



- Moderate risk and reward profile
- Economies of scale due to stateof-the-art production capabilities
- Emerging Markets gain importance



Oncology & Immunology innovation portfolio



- High reward at high risk
- Innovation key success factor high R&D spend
- Promising pipeline projects



Mid-term, all parts of the portfolio need to earn their cost of capital



Appendix

Guidance details

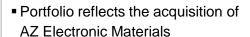
Sigma acquisition & pharma update

Financial details

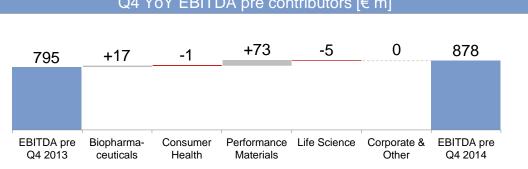
All divisions post organic growth, currency headwinds soften



Q4 YoY sales	Organic	Currency	Portfolio	Total
Biopharmaceuticals	2.8%	2.7%	0.0%	5.5%
Consumer Health	6.5%	2.7%	0.0%	9.2%
Performance Materials	6.9%	5.8%	37.5%	50.2%
Life Science	5.9%	3.4%	-1.2%	8.1%
Group	4.4%	3.3%	5.2%	12.9%
04 YoV	FRITDA pre	contributors [€ ml	



 Currency tailwinds mainly driven by EUR/USD development



- Performance Materials includes strong organic performance and AZ
- Hedging gains this quarter are leveled out by higher gains last year (Δ ~€-6m)

Totals may not add up due to rounding

Q4 2014: Strong year-end performance



[€ m]	Q4 2013	Q4 2014	Δ	Q4 2014
Sales	2,636	2,976	12.9%	 Organic growth, portfolio effects as well as currency tailwinds drive sales
EBITDA pre Margin (% of sales)	795 30.2%	878 29.5%	10.5%	■ EBITDA pre and EPS pre improve on solid organic performance and AZ
EPS pre [€]	1.06	1.14	7.5%	despite loss of royalty income Operating cash flow includes Pfizer
Operating cash flow	440	1,141	>100%	upfront payment Jump in working capital reflects
[€ m]	Dec 31, 2013	Dec 31, 2014	Δ	consolidation of AZ
Net financial debt	307	559	82.3%	 Only slight increase in financial debt, AZ acquisition digested within a year
Working capital	2,132	2,356	10.5%	
Employees	38,154	39,639	3.9%	

Reported EPS impacted acquisition hedging effects



[€ m]	Q4 2013	Q4 2014	Δ	Repo
EBIT	264	424	60.4%	■ EBIT up due to and organic gro
Financial result	-63	-63	-0.4%	Last years' tax time change in
Profit before tax	201	361	79.5%	Net income and higher EBIT is dincome tax
Income tax	80	-79	n.m.	
Tax rate (%)	-39.9%	21.9%		
Net income	281	280	-0.2%	
EPS (€)	0.65	0.64	-1.5%	

Reported results

- EBIT up due to lower one-time costs and organic growth
- Last years' tax rate impacted by onetime change in applicable tax rates
- Net income and EPS almost stable as higher EBIT is canceled out by higher income tax

*Contractual Trust Arrangement

Reported EPS burdened by normalization of tax rate Merck KGaA



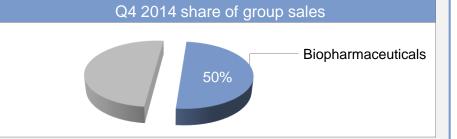
[€ m]	FY 2013	FY 2014	Δ	Reported results
EBIT	1,611	1,762	9.4%	■ EBIT increases due to operational performance and lower impairments
Financial result	-222	-205	-7.7%	 Financial result improved mainly from decreasing interest expenses after
Profit before tax	1,389	1,557	12.1%	bond repayment last year Tax rate 2013 was impacted by
Income tax	-180	-392	>100%	beneficial tax rulings
Tax rate (%)	12.9%	25.2%		
Net income	1,202	1,157	-3.7%	
EPS (€)	2.77	2.66	-4.0%	

Q4 - Biopharmaceuticals: Emerging Markets drive organic growth





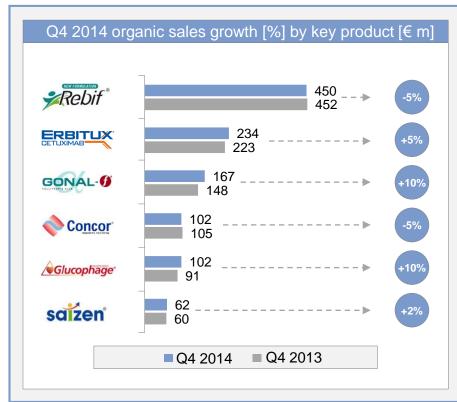
- Rebif organically lower as European and U.S. volume losses to competition from oral therapies outweigh U.S. pricing initiatives
- Erbitux with good organic performance driven by commercial initiatives in Emerging Markets
- Strong demand for entire Fertility portfolio in all regions
- Continued pipeline prioritization (pimasertib, Sym004) increase R&D expenses
- EBITDA pre increases due to organic growth; litigation settlement balances one-time R&D expenses and higher LTIP² provisions

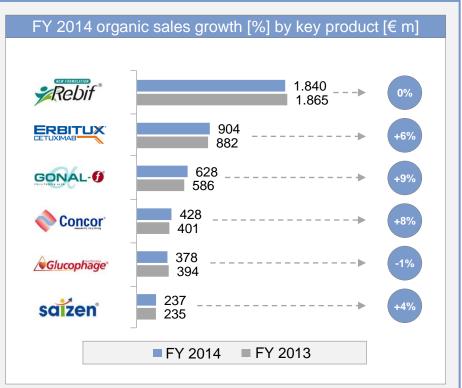


Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health; Long Term Incentive Plan

Biopharmaceuticals organic growth by product

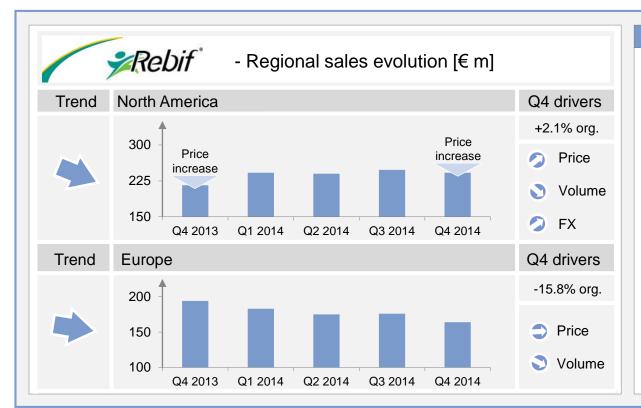






Rebif – defending the franchise; competitive pressure in the U.S. and Europe



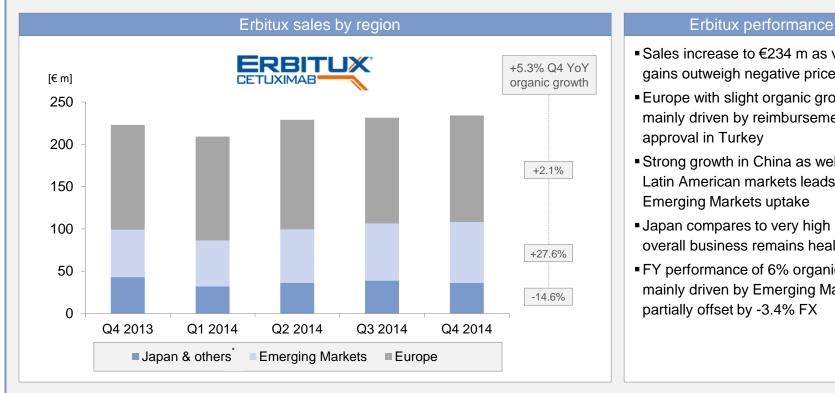


Rebif performance

- Rebif sales of €450 m in Q4
- Organic decline of -4.7% is driven by lower volumes mitigated by pricing
- Competition from orals main factor of U.S. and European volume decline
- October price increase supported U.S. performance in Q4
- European performance driven by volume losses to orals; last year's high base included tender in Russia

Erbitux – Emerging Markets strength



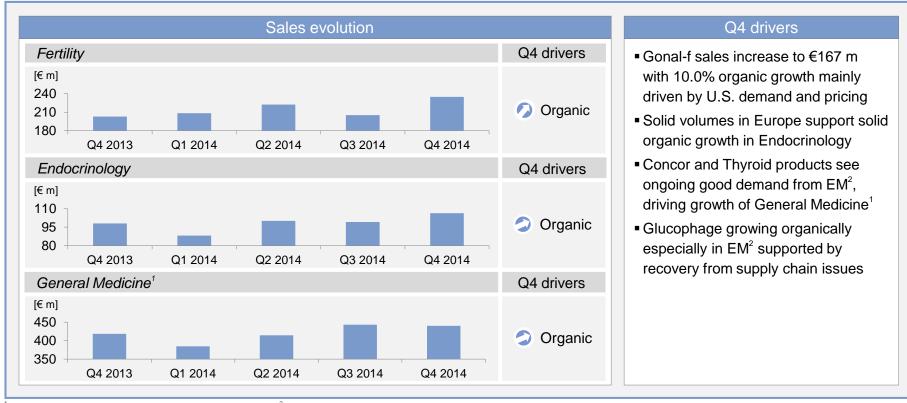


- Sales increase to €234 m as volume gains outweigh negative price effects
- Europe with slight organic growth mainly driven by reimbursement
- Strong growth in China as well as in Latin American markets leads to
- Japan compares to very high base, overall business remains healthy
- FY performance of 6% organic growth mainly driven by Emerging Markets is

Australia/Oceania Africa

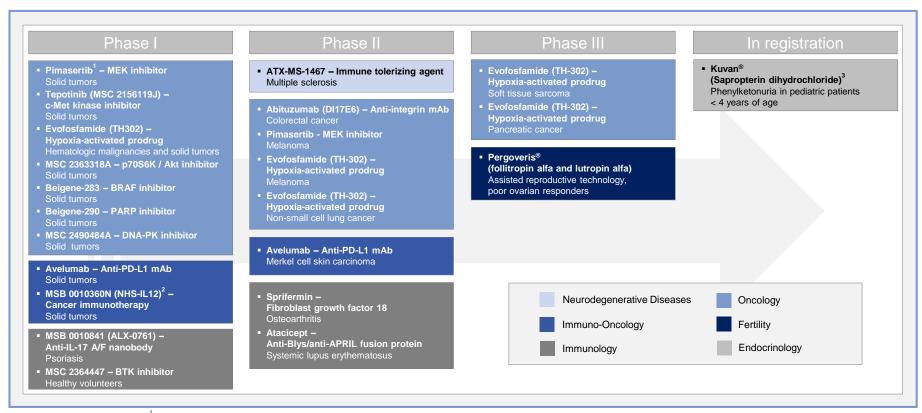
Strong growth in Fertility and General Medicine





Clinical pipeline





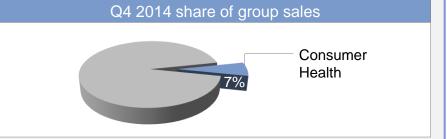
Pipeline as of February 28, 2015; ¹Combined with hDM2 inhibitor (SAR405838) from Sanofi, conducted under the responsibility of Sanofi; ²Sponsored by the National Cancer Institute (USA); ³Post-approval request by the European Medicines Agency

Q4 - Consumer Health: Strong volumes amid investments in marketing and selling



[€ m]			Q4 2013 [*]	Q4	2014
Sales				180		197
Mar	keting and	selling		-72		-86
Adm	nin			-9		-7
R&E				-5		-7
EBI	Т			36		34
EBI	TDA			38		37
EBI	TDA pre			39		38
Mar	gin (% of s	sales)		21.9%	1	9.4%
		;	Sales brid	ge		
	€180 m	6.5%	2.7%	0.0%	€197 m	
			_			
	Q4 2013	Organic	Currency	Portfolio	Q4 2014	٦

- Sound organic sales growth supported by currency tailwinds
- Investments in global marketing initiatives drive growth in Emerging Markets, especially Neurobion and Floratil in Brazil
- Good performance of cough and cold products in Europe
- Femilion reaches record market share in Germany
- EBITDA pre almost stable as organic growth is offset by higher marketing and selling costs

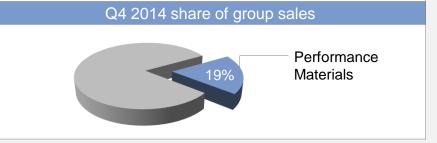


Q4 - Performance Materials: A strong quarter



[€ m]				Q4 2013	Q4 2014
Sales				383	576
Marketin	g and	selling		-36	-50
Admin				-6	-15
R&D				-37	-48
EBIT				134	170
EBITDA			155	229	
EBITDA pre				167	239
Margin (% of sales)				43.5%	41.6%
		;	Sales brid	ge	
€38	33 m	6.9%	5.8%	37.5%	€576 m
Q4	2013	Organic	Currency	Portfolio	Q4 2014

- Sales jump on portfolio effect, strong organic growth & FX tailwinds
- Volume growth in Liquid Crystals remains largest contributor to organic performance
- Strong demand for ultra-high-definition TV's (PS-VA) and mobile devices (IPS & UB-FFS) key success factor
- Significant EBITDA pre increase driven by AZ and strong organic growth
- EBITDA pre margin reflects mix effect from AZ

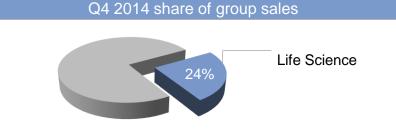


Q4 – Life Science: Process Solutions drives growth



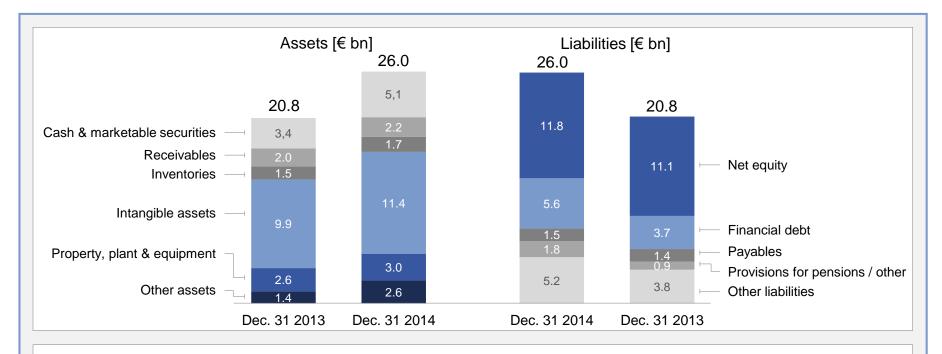
[€ m]			Q4 2013	Q4 201
Sale	Sales			654	706
Marl	keting and	selling		-206	-23′
Adm	nin			-25	-30
R&D)			-38	-43
EBI	Т			51	55
EBI	TDA			145	135
EBI	TDA pre			168	163
Mar	gin (% of s	sales)		25.7%	23.0%
		;	Sales brid	ge	
	€654 m	5.9%	3.4%	-1.2%	€706 m
	Q4 2013	Organic	Currency	Portfolio	Q4 2014

- Good organic growth and FX, slightly offset by portfolio changes
- Strong demand from biopharma industry for single-use equipment and purification consumables drives growth at Process Solutions
- Lab Solutions with good performance from price and volume uptakes especially in lab water consumables
- Bioscience almost flat as good development of separation and preparation products is offset by low demand for antibodies
- EBITDA pre affected by investments in marketing and selling, higher LTIP* provisions and unfavorable product mix



Balance sheet: Reflecting strategic M&A moves





- Balance sheet reflects AZ acquisition and Pfizer collaboration
- Issuance of hybrid bond impacts cash and debt

- Provisions for pensions up due to lower interest rates
- FX development accounts for ~€1 bn total balance sheet increase

Underlying cash flow strength



[€ m]	Q4 2013	Q4 2014	Δ	Cash flow drivers
Profit after tax	281	282	1	 Higher impairments last year lead to lower D&A in 2014
D&A	462	380	-81	Changes in provisions mainly impacted
Changes in provisions	-238	-342	-104	by release for litigation settlement
Changes in other assets / liabilities	-205	604	809	 Increase in changes in other assets and liabilities reflects Pfizer upfront
Other operating activities	44	17	-27	 Changes in working capital increase due to higher business activity
Changes in working capital	97	200	103	■ Investments in short-term assets impact
Operating cash flow	440	1,141	701	investing cash flowFinancing cash flow mainly reflects cash
Investing cash flow	-263	-1,144	-881	in from hybrid issuance in December
thereof Capex	-172	-211	-39	
Financing cash flow	-106	1,519	1,625	

Operating cash flow increase driven by Pfizer



[€ m]	FY 2013	FY 2014	Δ
Profit after tax	1,209	1,165	-44
D&A	1,458	1,361	-97
Changes in provisions	-203	-342	-139
Changes in other assets / liabilities	-260	471	731
Other operating activities	-3	9	12
Changes in working capital	25	41	16
Operating cash flow	2,226	2,705	479
Investing cash flow	-875	-1,641	-766
thereof Capex	-407	-481	-74
Financing cash flow	-1,073	761	1,834

Cash	tiow	arivers	

- Decrease in D&A YoY due to 2013 impairments
- Changes in provisions reflect release from litigation settlement
- Changes in other assets/liabilities increase from Pfizer upfront payment
- Investing cash flow reflects payment for AZ and cash investments in short term assets
- Capex increases mainly due to investment in new plant in China
- Financing cash flow positive mainly driven by cash in from hybrid bond; last year reflects bond repayment

One-time items in Q4 2014



One-time items in EBIT					
[€ m]	Q4 2013		Q4 2014		
	One-time items	thereof D&A	One-time items	thereof D&A	
Biopharmaceuticals	164	144	15	1	
Consumer Health	1	0	1	0	
Performance Materials	7	-4	10	0	
Life Science	40	17	28	0	
Corporate & Other	14	0	23	1	
Total	226	157	76	2	

Totals may not add up due to rounding

One-time items in FY 2014

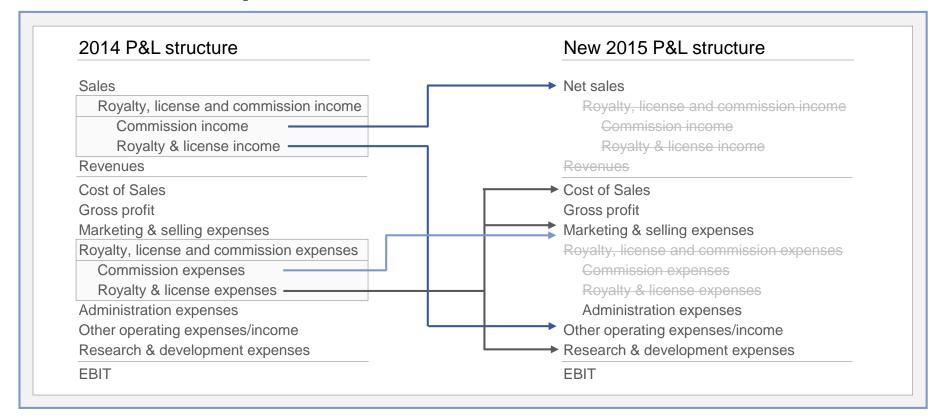


One-time items in EBIT					
[€ m]	FY 2013		FY 2014		
	One-time items	thereof D&A	One-time items	thereof D&A	
Biopharmaceuticals	258	189	50	5	
Consumer Health	1	0	9	0	
Performance Materials	10	-4	91	0	
Life Science	70	17	60	0	
Corporate & Other	47	0	65	5	
Total	387	203	275	10	

Totals may not add up due to rounding

New allocation of royalty, license and commission income and expenses

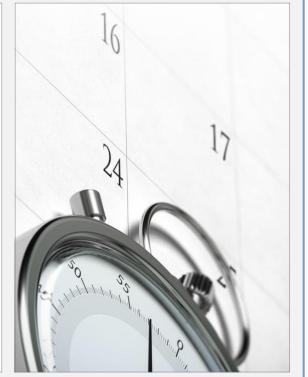




Financial calendar



Date	Event
April 17, 2015	Annual General Meeting 2015
May 19, 2015	Q1 2015 Earnings release
August 06, 2015	Q2 2015 Earnings release
November 12, 2015	Q3 2015 Earnings release
March 08, 2016	Q4 2015 Earnings release



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