

Bayer 2022: Delivering Value Creation

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Global Megatrends in Health & Nutrition

Attractive Macro Drivers of Our Businesses

Megatrends through 2050

Societal Needs

Our Mission **Aging Population**

People 60+ more than doubling¹

>20% of total population1

Preserve and restore health

Growing Population

+2.2bn people¹

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+50%

more food and feed required to meet growing demand² **Pressure on Ecosystems**

-17%

Harvest losses from climate change³

-20%2016 2050

Significant loss in arable land per capita⁴

Secure sufficient supply of quality food

Use natural resources more efficiently and responsibly

We leverage science to address these societal needs – with the ultimate goal to improve people's lives



¹ UNDESA 2017 (United Nations Department of Economic and Social Affairs, Population Division (2017). World Population Prospects: The 2017 Revision)

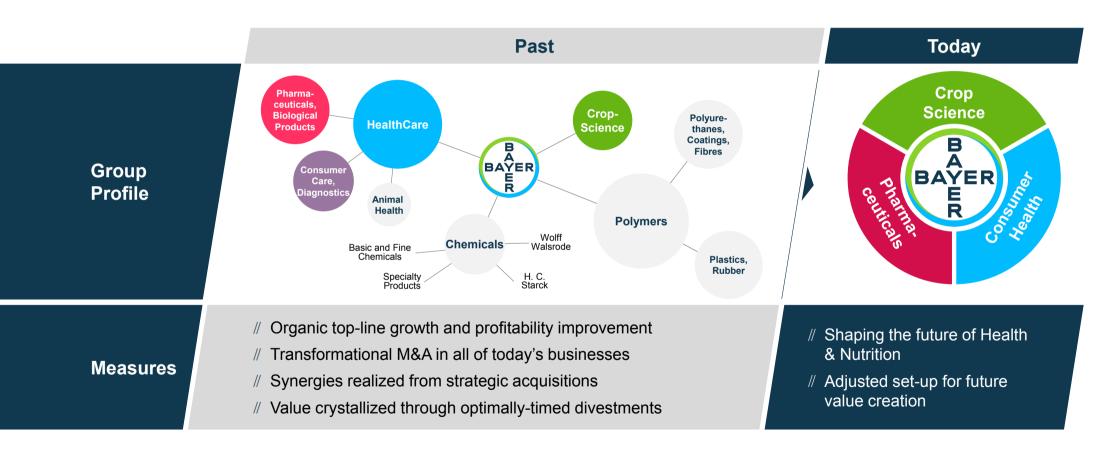
² FAO 2017. (FAO Global Perspective Studies)

³ Nelson et. al, (2014); FAO 2016 "Climate change and food security"

⁴ FAOSTAT (accessed Oct 30, 2018) for 1961-2016 data on land, FAO 2012 for 2030 and 2050 data on land, and UNDEDA 2017: World Population Prospects for world population data



Transformation into a Leader in Health & Nutrition – Next Phase to Deliver Future Value Creation





We are a Global Leader in Health & Nutrition

Well-Positioned Across Our Businesses



~€45bn 2018 Pro-forma Sales¹

Crop Science

~€19bn / ~43% of Group #1 Position

Growing ahead of competition over last five years on average
Best-in-class profitability through the cycle

- // Leading portfolio of seed & traits, crop protection and digital farming
- World-class R&D platform with best talent and technology in the industry
- Positioned to shape the future of agriculture: development of tailored solutions to address farmers' individual needs and challenges

Pharmaceuticals

~€17bn / ~38% of Group #2 Position in Cardiovascular

One of the fastest growing Pharma businesses over the past five years Xarelto and Eylea among the world's leading Pharma brands

- // Innovative medicines in areas of high unmet medical need
- // Therapeutic focus areas: Cardiology, Oncology, Gynecology, Hematology and Ophthalmology
- Strong position in emerging markets
- // Leading in Radiology and Women's Health

Consumer Health

~€5bn / ~12% of Group #2 Position

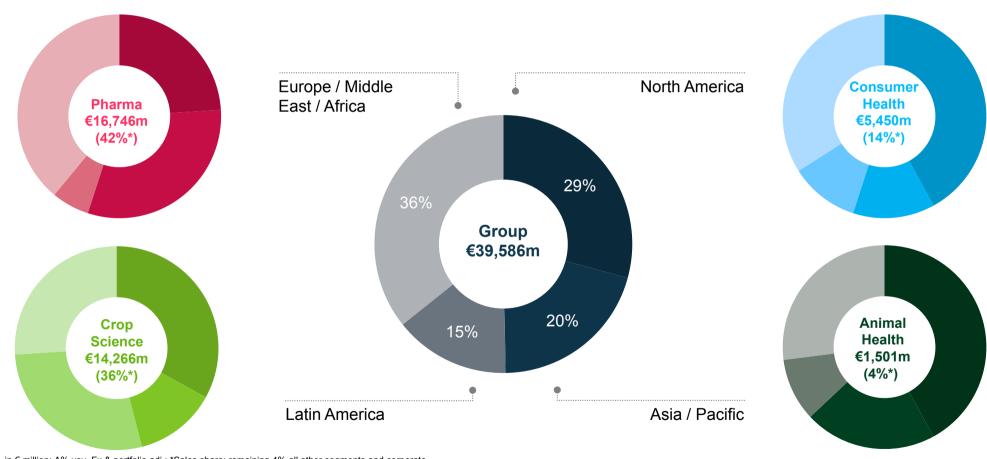
Leading Positions in 7 of the Top 10 OTC Markets

- Focus categories: Allergy & Cold, Cough, Sinus and Flu; Nutritionals; Dermatology; Pain and Cardio; Digestive Health
- // Concentrated portfolio of 16 megabrands with annual sales of >€100m

¹ The unaudited Pro-forma data are presented as if both the acquisition of Monsanto and the associated divestments had taken place as of January 1, 2018. Sales of Monsanto are presented in periods as per the Bayer fiscal year. One-time effects of business operations, the accounting for discontinued operations and the recognition and measurement of sales from certain business transactions have been adjusted in line with our accounting. Due to this simplified procedure, they explicitly do not reflect sales according to IFRS or IDW RH HFA 1.004, meaning they have not been audited.



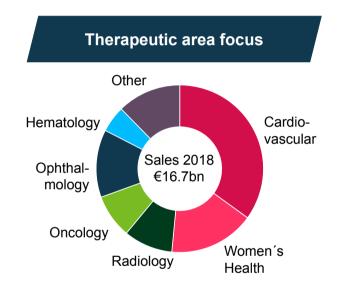
FY 2018 – Sales Breakdown by Region



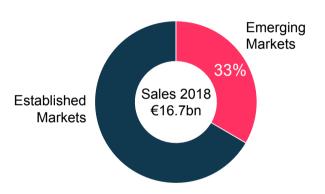
in € million; Δ% yoy, Fx & portfolio adj.; *Sales share; remaining 4% all other segments and corporate



Pharma Innovative Medicines in Areas of High Unmet Medical Need







Global leadership in important therapeutic areas

- // No. 1 in Retinal Diseases
- // No. 1 in Women's Health
- // No. 1 in Radiology
- // No. 2 in Cardiovascular
- // No. 2 in Hematology

Leading Brands



















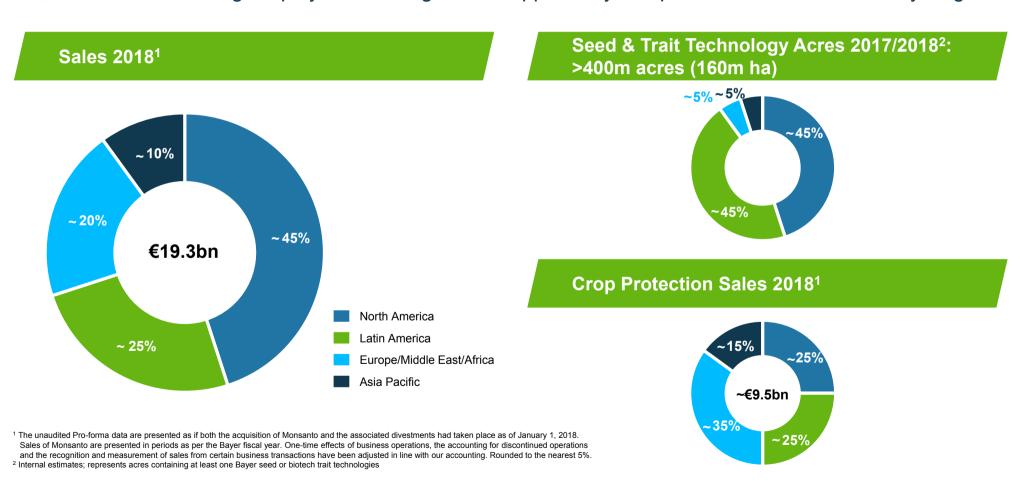


Emerging markets include Latin America, Asia (w/o Japan, Australia, New Zealand), Africa and Middle East incl. Turkey, Eastern Europe



Crop Science World's Broadest Commercial Footprint in Agriculture

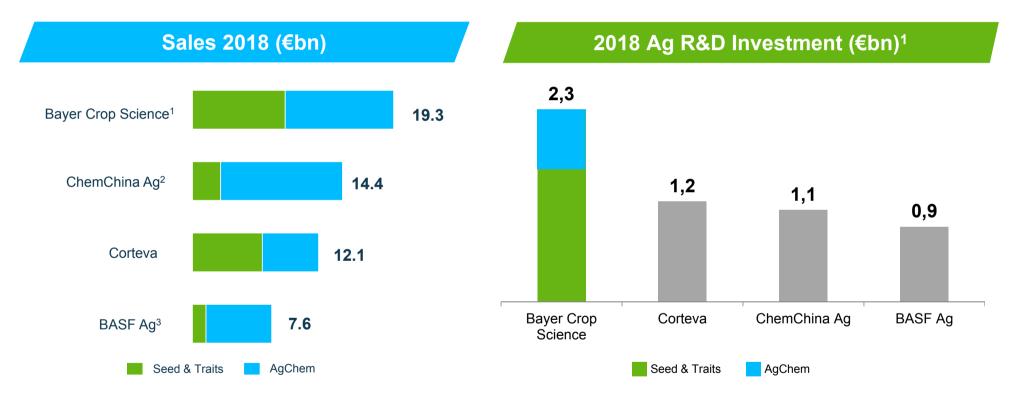
~7,800 Customer-facing Employees with Significant Opportunity to Optimize Portfolio Across Key Regions





Crop Science The Established Leader in Crop Science

Industry Leading Sales and Unmatched Investment in R&D



¹ The unaudited Pro-forma data are presented as if both the acquisition of Monsanto and the associated divestments had taken place as of January 1, 2017. Sales of Monsanto are presented in periods as per the Bayer fiscal year. One-time effects of business operations, the accounting for discontinued operations and the recognition and measurement of sales from certain business transactions have been adjusted in line with our accounting.

² Excludes non-agro business sales of ADAMA (nutritional supplements, aromatic products, industrial products)

³ Includes BASF Ag Sales 2018 as reported plus €1.4bn (€2.027m sales FY 2018 excluding €586m sales from Jan '18 until cut-off in Aug '18) reported sales in 2018 from Bayer businesses sold to BASF. Split between Seed and CP businesses based on internal estimates.

⁴ Exchange rate: FY 2018: ~1.18 USD/EUR

⁵ Competitor Pro forma R&D cost split not available



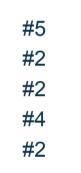
Consumer Health We Will Focus on our Core OTC Categories To Leverage our Science and Marketing Capabilities

Categories to accelerate





Sales Split 2018¹



Global Position²



Categories to exit

- // Divestment of Rx Dermatology US business closed; closing ex-US expected in H2 2019³
- Explore exit options for Sun- and Footcare in 2019







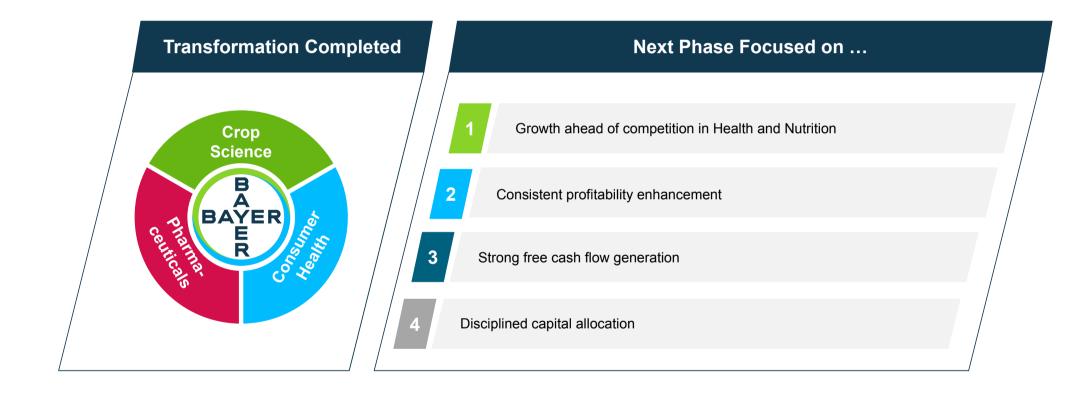
¹ Excluding Derma Rx, Suncare, Footcare

² PARS database January 2019

³ Subject to the fulfillment of customary closing conditions



Next Phase to Deliver Value Creation





We Focus on Growth in Attractive Markets

	Market		Bayer's growth levers
Bayer Group	Size 2017	CAGR 2018-2022	 Using our leading positions in Agriculture, Pharmaceuticals and Self-care to address societal needs and benefit from global megatrends Drive innovation
Crop Science	~€90bn¹	~3%2	 Leading portfolio of seed & traits, crop protection and digital farming World-class R&D platform with best talent and technology in the industry Positioned to shape the future of agriculture: Development of tailored solutions to address farmers' individual needs and challenges
Pharma- ceuticals	~€870bn³	4-5%	 Innovative medicines in areas of high unmet medical need Therapeutic focus areas: Cardiology, Oncology, Gynecology, Hematology and Ophthalmology Leverage external innovation and partnering as well as pipeline and potential of current products
Consumer Health	~€140bn ⁴	3-4%	 # Branded self-care solutions that help transform people's daily health # Focus on five core categories

¹ Pro-forma calculations Bayer, Bayer CS market model; 2 excluding potential cyclical recovery of the Crop Science market; 3 IQVIA; 4 Market model in-market sales OTC medicines, data from IQVIA, Nicholas Hall



Bayer 2022 Synergy & Efficiency Programs

	Crop Science	Consumer Health	Pharmaceuticals	
	Realization of Crop Science sales and cost synergies	Comprehensive growth acceleration program	Re-alignment of R&D activities towards external innovation / Hemophilia	Co ~
	~€0.17bn (=\$0.2bn) sales synergies¹		production footprint	Gl
	~€0.47bn (=\$0.55bn) cost synergies	~€0.4bn contribution	~€0.2bn contribution	
E	~€0.40bn (=\$0.45bn) cost synergies	~€0.1bn contribution		One
Adjustment of corporate platform	of	~€0.9bn contribution		

Overall Contribution ~€2.6bn²

Global FTE impact ~12,000

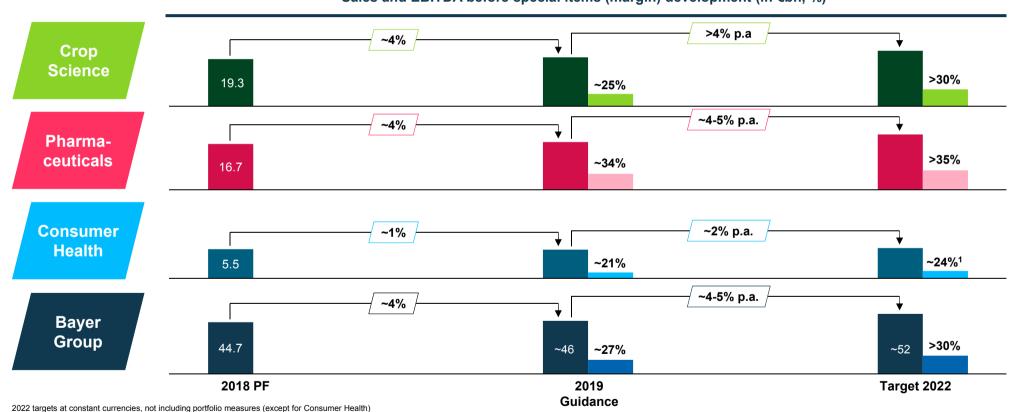
ne-Time Cost ~1.7X

 $^{^1}$ EBITDA before special items impact from sales synergies 2 Indicative Phasing: ~30% effective in 2020, ~70% in 2021 and 100% in 2022



Targeting Significant Profitability Improvements Across All Divisions

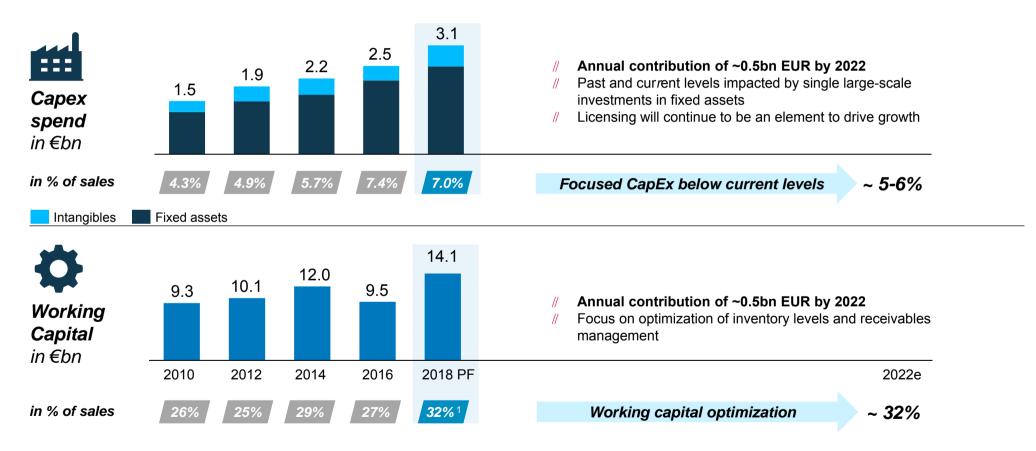
Sales and EBITDA before special items (margin) development (in €bn, %)



¹ Includes portfolio measures



Cash Flow Improvement Focusing on Capex and Working Capital Optimization



¹ Crop Science 48%, Pharmaceuticals 24%, Consumer Health 24%



Group Targets - Value Creation from Strengthened Base

Triple Leverage

€bn		2018 PF	Guidance 2019	Target 2022	CAGR 2018-22 ²
	Total Group	44.7	~46 (~4%)	~52	~4%
0-11	Crop Science	19.3	~4%		>4%
Sales ¹	Pharmaceuticals	16.7	~4%		~4-5%
	Consumer Health	5.5	~1%		~2%
	Total Group		~12.2 (~27%)	~16 (>30%)	~9%
EBITDA before special	Crop Science		~25%	>30%	
items (%)	Pharmaceuticals		~34%	>35%	
	Consumer Health		~21%	~24%4	
Core EPS (€)			~6.8	~10	~10%
FCF		~4.7³	~3-4	~8	~18%
Net financial debt		~35.7 ³	~36 ⁵	~26-28	

2022 targets at constant currencies, not including portfolio measures (except for Consumer Health)

¹ Sales: cpa growth; ² CAGR from 2018 base year; ³ as reported; ⁴ includes portfolio measures; ⁵ including around ~€1bn lease liability due to IFRS 16



We Have Clear Priorities for Capital Allocation

Focus on Shareholder Return, Innovation and Deleveraging



¹ Before M&A / Portfolio



We Will Create Significant Value Through 2022 and Beyond

Focus on Execution and Driving Sustained Profitable Growth...

- We have completed Bayer's portfolio transformation into a global leader in Health & Nutrition
- The next phase is focused on driving value creation through (i) growth ahead of competition enabled by innovation and portfolio measures (ii) profitability enhancement through Bayer 2022 synergy and efficiency programs and (iii) strong cash generation
- We target Sales, Core EPS and FCF CAGR* until 2022 of 4%, 10% and 18%, respectively
- Strong FCF along with proceeds from divestments enable (i) growing dividends, (ii) quick deleveraging of our balance sheet and (iii) selective bolt-ons and in-licensing transactions

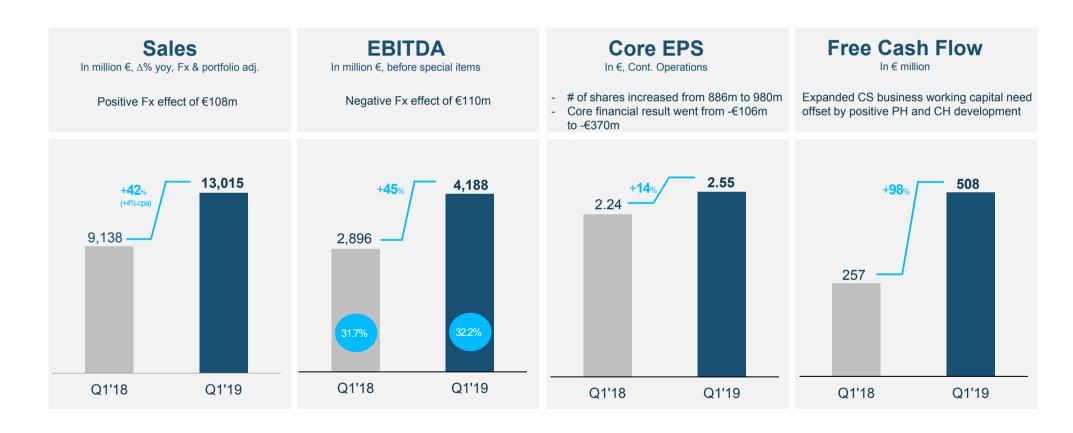


Q1 2019 & Outlook 2019





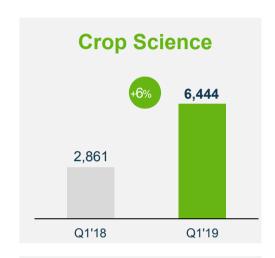
Q1 Results

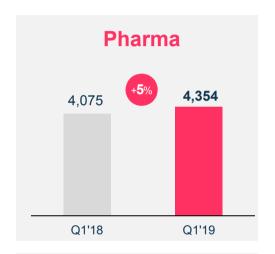


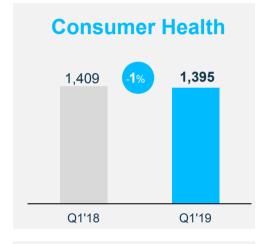


Divisional Q1 Results

Sales In million €, ∆% yoy, Fx & portfolio adj.

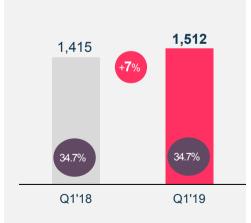


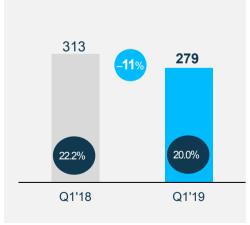














FY 2019 Guidance Confirmed



¹ Monsanto included since June 7 and assets divested to BASF included until August 2018



Progress in All Focus Areas

1

Target Delivery

Deliver on operational targets

2

Crop Science

 Integration of acquired business to shape the future of agriculture

3

Pharmaceuticals

Further strengthening of pipeline and intensify external sourcing

4

Consumer Health

Drive performance improvement

5

Efficiency / Bayer 2022

Execute efficiency improvement program and realize synergies

6

Portfolio Measures

 Execution of announced portfolio measures for sharpened business focus



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Appendix





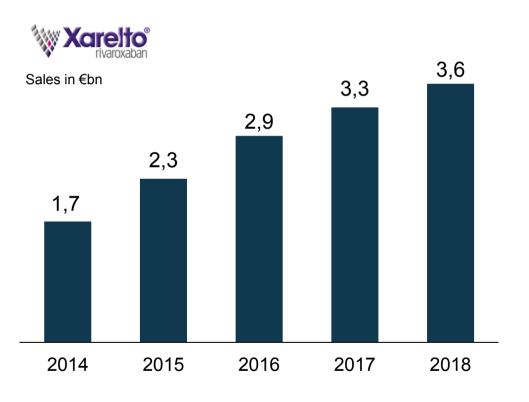
FY 2019 Guidance: Further Growth Expected for All Segments

	Sales 2018	EBITDA-margin 2018 (before special items)	Sales Growth 2019 (cpa²)	EBITDA-margin 2019 (before special items)
			(at constant	currencies)
Crop Science	€14.3bn¹	18.6%	~4%	~25%
Pharma	€16.7bn	33.4%	~4%	~34%
Consumer Health	€5.5bn	20.1%	~1%	~21%
Animal Health	€1.5bn	23.9%	~4%	~24%

¹ Monsanto included since June 7 and assets divested to BASF included until August 2018; ² currency and portfolio adjusted



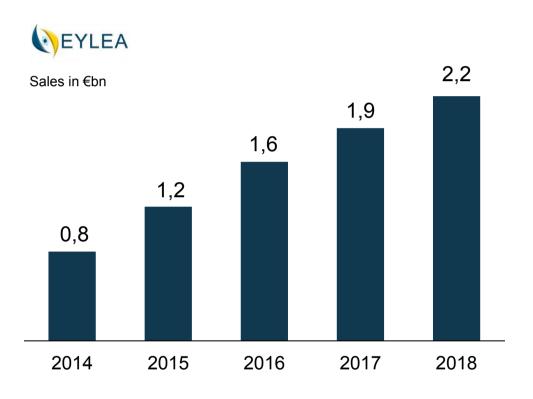
Pharma Xarelto – Continued Growth of a Leading Anticoagulant



- // Most broadly indicated anticoagulant for use in venous and arterial thromboembolic conditions
- // A leading pharma brand with global sales of €5.2bn in 2018 incl. sales at Johnson & Johnson
- // New CAD/PAD indication launching in EU and the US
- # Peak sales potential: >€5.0bn¹
- // Further growth driven by:
 - // Under-served patient populations
 - // Demographics
 - // Shift from warfarin
 - // New indications targeting patients currently not treated with anticoagulants



Pharma Eylea – A Leader in Retinal Diseases



- # A leader in retinal diseases with global brand sales of €5.6bn in 2018 incl. sales at Regeneron¹
- # Approved for the treatment of 5 retinal diseases: wAMD, DME, BRVO, CRVO, mCNV
- // Treat and extend dosing regimen with injection intervals of up to 12 weeks or more for wAMD
- // Further growth driven by:
 - // Continued generation of real-life experience in wAMD across key markets and treatment-naïve patient share gains
 - // Market expansion in DME

¹ Marketed by Bayer ex-US only; ² As reported by Bayer wAMD: Wet age related macular degeneration; DME: Diabetic macular edema; BRVO: Branch retinal vein occlusion; CRVO: Central retinal vein occlusion, mCNV: Myopic choroidal neovascularization



Pharma Late-stage Pipeline with Progress in Oncology

Darolutamide met Primary Endpoint in Phase III-trial and FDA-approval of Vitrakvi

	Vitrakvi	Darolutamide	Copanlisib	Finerenone	Vericiguat
Indication	// TRK-fusion Cancer	// Prostate Cancer	// Lymphoma	// Diabetic Kidney Disease	// Chronic Heart Failure
Status	// FDA approved / in registration	// Phase III (nmCRPC) // Phase III (mHSPC)	// Launched in the US // Phase III	// Phase III	// Phase III (HFrEF) // Phase II (HFpEF)
€ Commercial Potential	// PSP >€750m			 ∥ PSP <u>≥€</u> 1bn	
Clinical Completion	// Clinical program ongoing	// Completed (ARAMIS, nmCRPC) // Aug 2022e (ARASENS, mHSPC)	// May 2020e (CHRONOS-3) // Sep 2021e (CHRONOS-4)	// April 2020e (FIDELIO-DKD) // June 2021e (FIGARO-DKD)	Jan 2020e (VICTORIA, HFrEF) Dec 2019e (VITALY, HFpEF)

NTRK: Neurotrophic receptor tyrosine kinase; nmCRPC: Non-metastatic castration resistant prostate cancer; mHSPC: Metastatic hormone sensitive prostate cancer; HFrEF: Heart failure with reduced ejection fraction; HFpEF: Heart failure with preserved ejection fraction; PSP: Peak sales potential



Consumer Health Strong Consumer Brands Built up Over Decades

Brand	Category	Age	Sales 2018	CAGR 2014-2018	# of studies ²
[®] ASPIRIN [®]	Pain, Cardio, Cough & Cold	120	€975m	3.0%	88
Claritin	Allergy	26 ¹	€516m	-1.0%	82
<u>Bepanthen</u>	Dermatology	75	€371m	7.0%	116
ALEVE.	Pain	43 ¹	€351m	-0.9%	42
Alka- Seltzer	Digestive Health, Cough & Cold	88	€225m	-1.2%	7
elevit	Nutritionals	35	€209m	20.9%	6

¹ Rx launch; ² Past 20 years of clinical data, as of December 2018



Consumer Health US Turnaround Plan

Levers and key focus areas

People & Organization



- // Increase category and brand building experience
- // Drive leaner more agile organization

Winning Portfolio



 Focus our resources on categories where we can win

Accelerate growthfocused Innovation



Rebuild innovation pipeline

Modernized Marketing & Sales



- Rebuild brand fundamentals
- Accelerate digital

First actions

// Right-size the organization

// New leadership team in place

Q4 2018 Q1 2019

- Divested Rx Dermatology
- // Explore exit options:
 Suncare / Footcare

H2 2018 2019

- Strengthen innovation for core brands
- // Establish Rx-to-OTC switch
 pipeline

2020

- Step up e-commerce
- → Amazon 2018e sales +60%
- → Online (8.3%) to offline (8.7%) share

2018



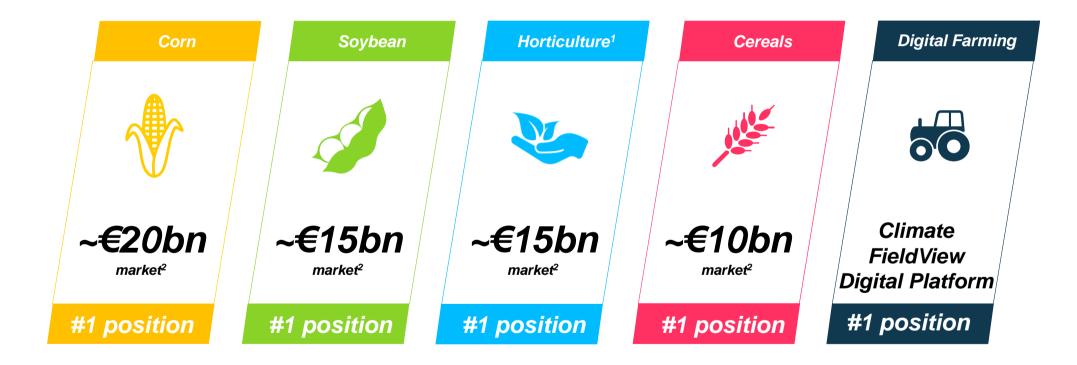
Consumer Health Our Strategic and Operational Roadmap

		2019 / 2020	2021 / 2022	
	2018 Setting the foundation	Driving rigorous change	Acceleration phase	
Strategic focus	// Put in new leadership team// Make portfolio choices// Initiate stricter cost control// Make necessary impairments	 // Execute portfolio choices // Right-size cost base // Recover product supply // Regain momentum in APAC/EMEA // Reset US cost base to strengthen margin 	 // Drive higher innovation level // Accelerate US growth momentum // Capitalize on portfolio choices // Realize full benefit of efficiency program 	
Growth	Stabilize growth	Return to growth	Accelerate growth	
Profitability	Stop margin erosion through strict cost controls	Improve margins	Accelerate margins	



Crop Science Leading Position in All Major Categories

Crop Science Market² Currently Valued at ~€90bn // ~3% Long-term CAGR Expected



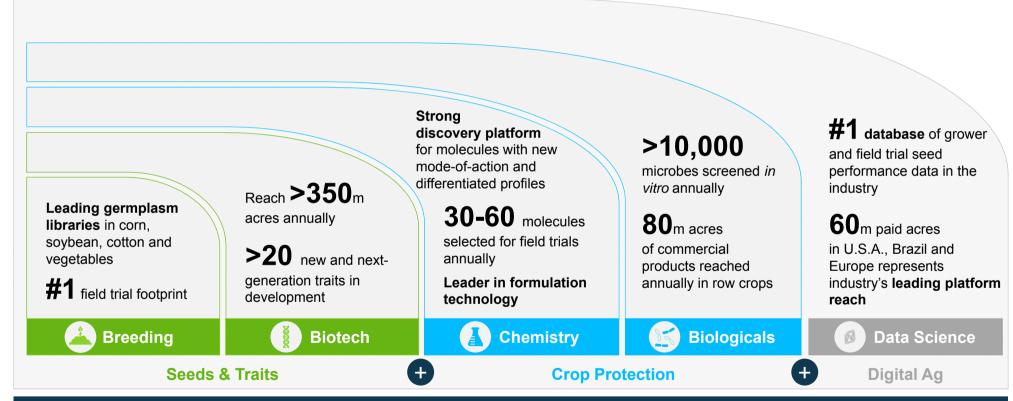
¹ Includes fruits, vegetables, flowers and nuts

² Includes seeds, traits, crop protection chemistries and environmental science; does not include fertilizer Note: Reflecting BCS' portfolio after divestments. Market sizes rounded to nearest \$5bn. Source: Pro-forma calculations Bayer; Bayer CS market model



Crop Science Next Growth Opportunity: Convergence of Leading R&D Platforms

Extensive Germplasm and Biotech Foundation, Combined with Leadership in Chemistry and Biologicals and Data Science Optimization, Serves As Innovation Engine To Accelerate Benefits Across The Industry

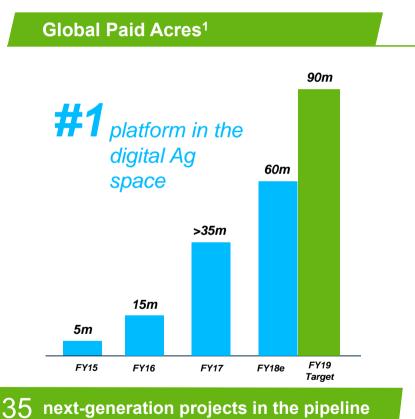


Best positioned to discover, combine and tailor solutions for growers



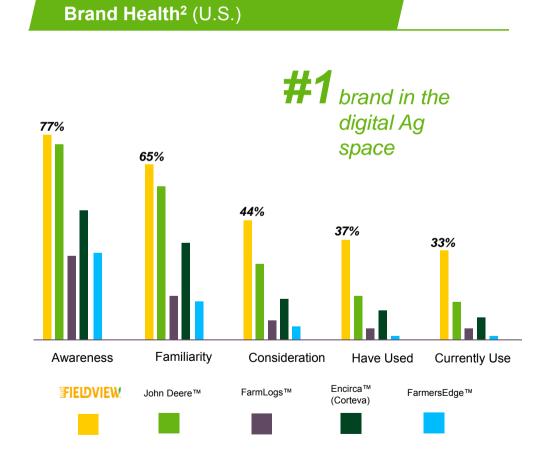
Crop Science FieldView: The Leading Brand and Platform for Growers

Our Value Creation is Supported by our Performance Trends; Paid Acres >7x Closest Competitor





¹ Internal estimates



² 2018 Brand Health Monitor



Thank you

