

# Bayer 2022: Delivering Value Creation

/////////

UniCredit // Kepler Cheuvreux German Corporate Conference January 21st & 22nd, 2019





### Disclaimer

### Cautionary Statements Regarding Forward-Looking Information

This presentation contains forward-looking statements. A forward-looking statement is any statement that does not relate to historical facts and events, but rather reflects Bayer's current beliefs, expectations and assumptions regarding the future. This applies, in particular, to statements in this presentation on revenue growth, including product introductions and peak sales potential, synergies, especially in relation to the acquisition and integration of Monsanto Company, portfolio adjustments, cost reduction, financial targets and earnings, cash flow generation, deleveraging and other similar statements relating to future performance, including with respect to the markets in which Bayer is active.

Although the forward-looking statements contained in this presentation are based upon what Bayer's management believes are reasonable assumptions, they necessarily involve known and unknown risks and uncertainties that could cause actual results and future events to differ materially from those anticipated in such statements. Forward-looking statements are not guarantees of future performance and undue reliance should not be placed on them. Bayer undertakes no obligation to update forward-looking statements if circumstances or management's estimates or opinions should change except as required by applicable securities laws.

For more information on factors that could cause actual results and future events to differ from those anticipated in forward looking statements, please refer to the factors discussed in Bayer's public reports which are available on the Bayer website at <a href="https://www.investor.bayer.com/en/reports/annual-reports/overview/">https://www.investor.bayer.com/en/reports/annual-reports/overview/</a>, including in the Annual Report 2017 under the caption "Report on Future Perspectives and on Opportunities and Risks".



## 2018: Progress Across all Divisions

### Delivering on Guidance Despite Headwinds

### Group // 2018 on track // Value crystallization of Covestro stake // Status of Glyphosate litigation // Net financial debt at ~€36bn by end of 2018, ~€3bn ahead of plan

### **Crop Science**



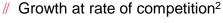
# **Pharmaceuticals**



# **Consumer Health**



- // Growth ahead of competition and best-in-class profitability<sup>1</sup>
- // Full recovery in Brazil
- // Successful start of integration



- // cGMP remediation in Leverkusen fully on track
- // Xarelto approvals/launch in CAD/PAD in EU/US
- Progress with Larotrectinib and Darolutamide

- Growth acceleration plan with strengthened management underway
- Return to growth in H2 2018
- // Portfolio further focused through divestiture of Rx dermatology

<sup>1</sup> Reported data peer group; 2 IQVIA; cGMP: current Good Manufacturing Practices; CAD: Coronary Artery Disease, PAD: Peripheral Artery Disease



## 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

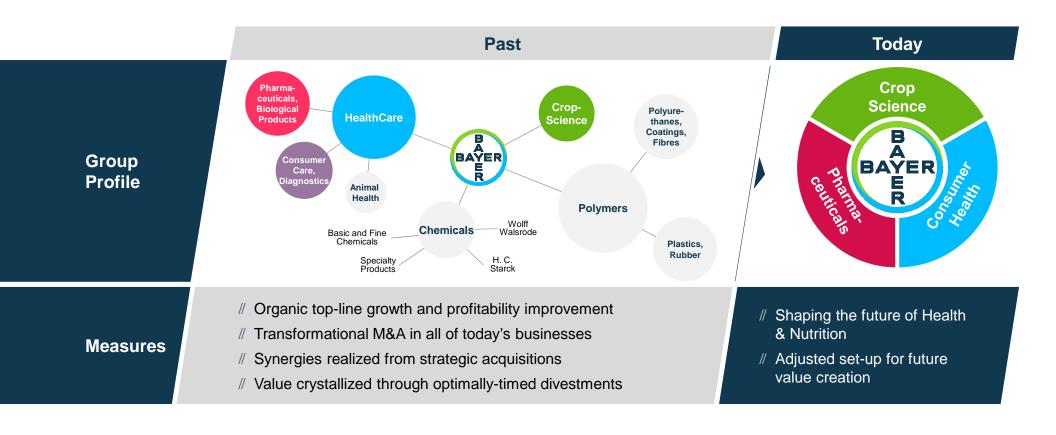


# We Will Make Further Portfolio Adjustments: Crystallizing Value of Non-core Assets

Portfolio assets		Rationale	Fin	Financials (2018e)	
			Sales	EBITDA before special items	
Animal Health	<pre>// Explore strategic exit options for Animal Health</pre>	// Inorganic investments required to build a leading position will be shifted to other investment priorities	~€1.5bn	~€0.35bn	
CURRENTA K	<pre>// Explore strategic options for share in Currenta</pre>	// Non-core business; mismatch between Bayer's ownership share (60%) and demand of services (20%)	~€1.2bn	~€0.2bn	
ertone. Dr.Scholls	Explore strategic options for Suncare & Footcare	// Crystallize value of consumer care brands to focus capital allocation on core OTC brands	~€0.4bn	N/A	
		Total:	~€3.1bn	>€0.6bn	



## **Transformation Completed**





### 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

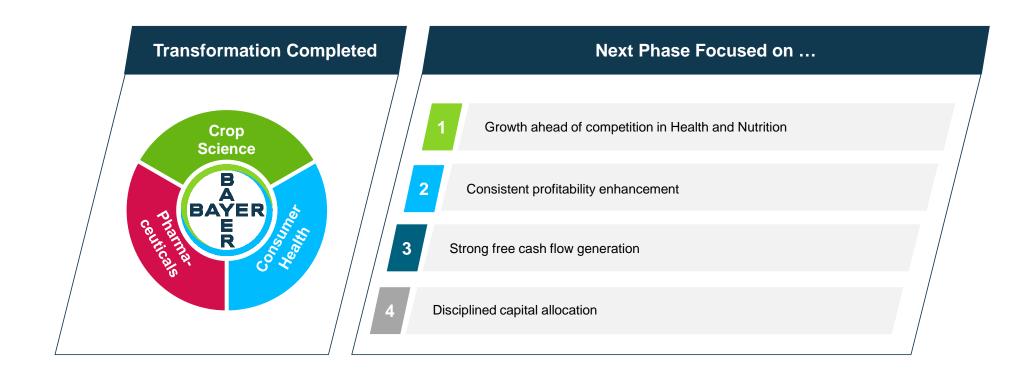
## Leading Positions in 7 of the Top 10 OTC Markets

- 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

<sup>&</sup>lt;sup>1</sup> 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.



### Next Phase to Deliver Value Creation





## Global Megatrends in Health & Nutrition

#### Attractive Macro Drivers of Our Businesses

Megatrends through 2050

**Societal Needs** 

Our **Mission**  **Aging Population** 

People 60+ more than doubling<sup>1</sup>

>20% of total population1

Preserve and

**Growing Population** 

+2.2bn

+50%

more food and feed required to meet growing demand<sup>2</sup>

**Pressure on Ecosystems** 

Harvest losses from climate change<sup>3</sup>

-20%

2016 2050

Significant loss in arable land per capita4

restore health

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



<sup>&</sup>lt;sup>1</sup> UNDESA 2017 (United Nations Department of Economic and Social Affairs, Population Division (2017). World Population Prospects: The 2017 Revision)

<sup>&</sup>lt;sup>2</sup> FAO 2017, (FAO Global Perspective Studies)

<sup>&</sup>lt;sup>3</sup> Nelson et. al, (2014); FAO 2016 "Climate change and food security"

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



## We Focus on Growth in Attractive Markets

	Market		Bayer's growth levers		
Bayer Group	Size 2017	CAGR 2018-2022	<ul> <li>Using our leading positions in Agriculture, Pharmaceuticals and Self-care to address societal needs and benefit from global megatrends</li> <li>Drive innovation</li> </ul>		
Crop Science	~€90bn¹	~3%2	<ul> <li>Leading portfolio of seed &amp; traits, crop protection and digital farming</li> <li>World-class R&amp;D platform with best talent and technology in the industry</li> <li>Positioned to shape the future of agriculture: Development of tailored solutions to address farmers' individual needs and challenges</li> </ul>		
Pharma- ceuticals	~€870bn³	4-5%	<ul> <li>// Innovative medicines in areas of high unmet medical need</li> <li>// Therapeutic focus areas: Cardiology, Oncology, Gynecology, Hematology and Ophthalmology</li> <li>// Leverage external innovation and partnering as well as pipeline and potential of current products</li> </ul>		
Consumer Health	~€140bn⁴	3-4%	<ul> <li>Branded self-care solutions that help transform people's daily health</li> <li>Focus on five core categories</li> </ul>		

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  ~€ 0.17bn (=\$0.2bn) sales synergies¹	Comprehensive growth acceleration program	Re-alignment of R&D activities towards external innovation / Hemophilia production footprint
		~€0.47bn (=\$0.55bn) cost synergies	~€0.4bn contribution	~€0.2bn contribution
E		~€0.40bn (=\$0.45bn) cost synergies	~€0.1bn contribution	
Platform	Adjustment of corporate platform	f	~€0.9bn contribution	

Overall
Contribution
~€2.6bn²

Global FTE impact ~12,000

One-Time Cost ~1.7X

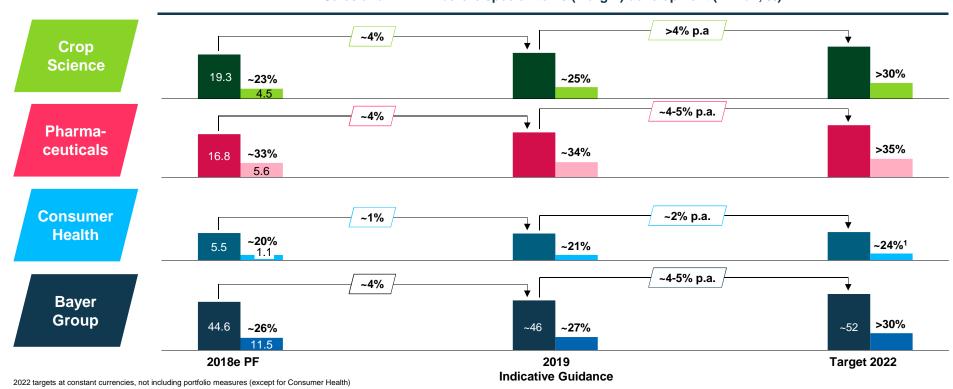
<sup>&</sup>lt;sup>1</sup> EBITDA before special items impact from sales synergies

<sup>&</sup>lt;sup>2</sup> Indicative Phasing: ~30% effective in 2020, ~70% in 2021 and 100% in 2022



## Targeting Significant Profitability Improvements Across All Divisions



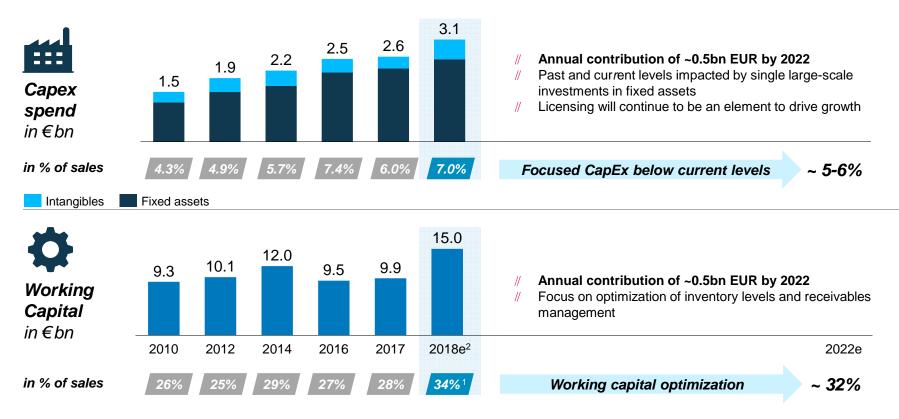


<sup>&</sup>lt;sup>1</sup> Includes portfolio measures

<sup>//</sup> Bayer // UniCredit - Kepler Cheuvreux German: Corporate Conference 2019



# Cash Flow Improvement Focusing on Capex and Working Capital Optimization



<sup>&</sup>lt;sup>1</sup> Crop Science 48%, Pharmaceuticals 24%, Consumer Health 24%; <sup>2</sup> Working Capital estimated at year-end



## Group Targets - Value Creation from Strengthened Base

### Triple Leverage

€bn		2018e PF	Indicative Guidance 2019	Target 2022	CAGR 2018-22 <sup>2</sup>
	Total Group	44.6	~46 (~4%)	~52	~4%
	Crop Science	19.3	~4%		>4%
Sales <sup>1</sup>	Pharmaceuticals	16.8	~4%		~4-5%
	Consumer Health	5.5	~1%		~2%
	Total Group	11.5 (~26%)	~12.2 (~27%)	~16 (>30%)	~9%
EBITDA	Crop Science	4.5 (~23%)	~25%	>30%	
before special items (%)	Pharmaceuticals	5.6 (~33%)	~34%	>35%	
	Consumer Health	1.1 (~20%)	~21%	~24%4	
Core EPS (€)		~6.7	~6.8	~10	~10%
	FCF	~4.13	~3-4	~8	~18%
Net financial debt		~36 <sup>3</sup>	~36 <sup>5</sup>	~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 FCF 2018e (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



<sup>1</sup> 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

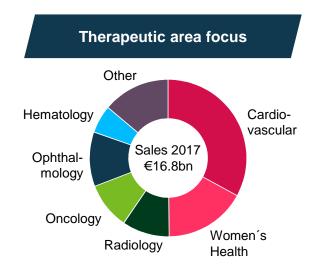


Appendix

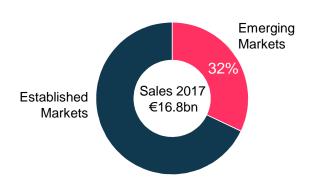




## Pharma Innovative Medicines in Areas of High Unmet Medical Need







# 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**

















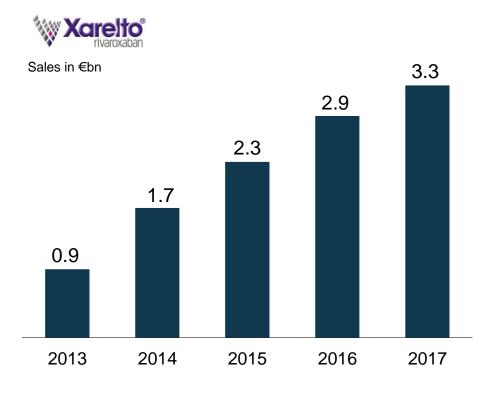




Emerging markets include Latin America, Asia (w/o Japan, Australia, New Zealand), Africa and Middle East incl. Turkey, Eastern Europe



# Pharma Xarelto – Continued Growth of a Leading Anticoagulant

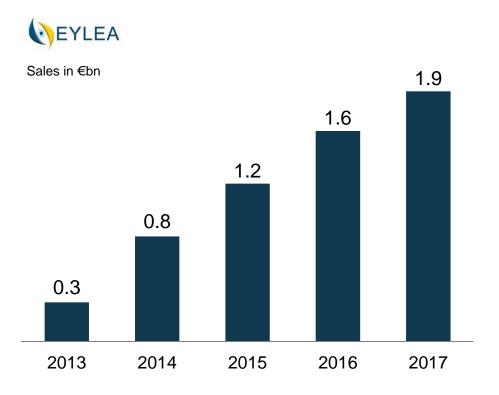


- Most broadly indicated anticoagulant for use in venous and arterial thromboembolic conditions
- // A leading pharma brand with global sales of €5.0bn in 2017 incl. sales at Johnson & Johnson
- // New CAD/PAD indication launching in EU and the US
- // Further growth driven by:
  - // Under-served patient populations
  - // Demographics
  - // Shift from warfarin
  - // New indications targeting patients currently not treated with anticoagulants

CAD: Coronary artery disease; PAD: Peripheral artery disease <sup>1</sup>Ex-US sales plus royalty from J&J as reported by Bayer



# Pharma Eylea – A Leader in Retinal Diseases



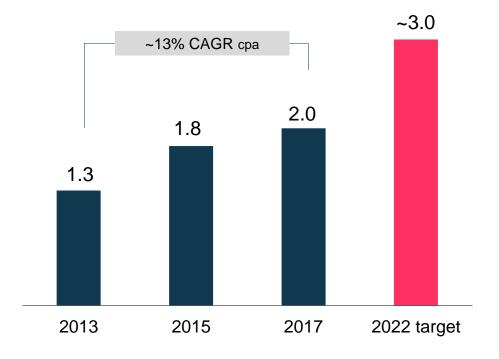
- // A leader in retinal diseases with global brand sales of €5.2bn in 2017 incl. sales at Regeneron¹
- // Approved for the treatment of 5 retinal diseases: wAMD, DME, BRVO, CRVO, mCNV
- // Treat and extend dosing regimen with injection intervals of up to 12 weeks or more for wAMD
- // Peak sales potential: >€2.5bn²
- // 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

<sup>&</sup>lt;sup>1</sup> Marketed by Bayer ex-US only; <sup>2</sup> 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 China is a Growth Engine for Pharma

#### Sales in PR China in €bn



- # Ranked among the top 5 multi-national pharma companies in China
- // Targeting sales of ~€3bn in PR China by 2022
- // Portfolio of established and innovative drugs matches China's needs
- # Strong growth of key products
- // Xarelto and Nexavar entered the National Reimbursement Drug List in 2017
- # Glucobay, Adalat, Nimotop, Bayaspirin and Ciprobay listed on China's Essential Drug List

cpa: Currency and portfolio adjusted



# Pharma Late-stage Pipeline with Progress in Oncology

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

	Larotrectinib	Darolutamide	Copanlisib	Finerenone	Vericiguat
1ndication	// 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 ≥€1bn	// PSP ≥€ 0.5bn	# PSP ≥€1bn	// PSP ~€ 0.5bn
Clinical Completion	// Clinical program ongoing	// Completed (ARAMIS, nmCRPC) // Aug 2022e (ARASENS, mHSPC)	// May 2020e (CHRONOS-3) // Sep 2021e (CHRONOS-4)	// May 2020e (FIDELIO-DKD) // Jul 2021e (FIGARO-DKD)	// Jan 2020e (VICTORIA, HFrEF) // Oct 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	<b>Sales 2017</b>	<b>CAGR</b> 2013-2017	# of studies <sup>2</sup>
<sup>(1)</sup> ASPIRIN	Pain, Cardio, Cough & Cold	119	€1,043m³	2.6%	88
<b>Claritin</b> °	Allergy	25 <sup>1</sup>	€585m	2.2%	82
Bepanthen <sup>*</sup>	Dermatology	74	€379m	9.7%	116
ALENE.	Pain	42 <sup>1</sup>	€375m	1.3%	42
Alka- seltzer	Digestive Health, Cough & Cold	87	€244m	4.4%	7
elevit	Nutritionals	34	€189m	17.1%	6

<sup>&</sup>lt;sup>1</sup> Rx launch; <sup>2</sup> Past 20 years of clinical data; <sup>3</sup> Combined sales (Consumer Health and Pharmaceuticals)



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

Categories to accelerate



Digestive Health



Sales Split 2017<sup>1</sup>



Global Position<sup>2</sup>



# 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







<sup>&</sup>lt;sup>1</sup> Excluding Derma Rx, Suncare, Footcare

<sup>&</sup>lt;sup>2</sup> PARS database December 2017

<sup>&</sup>lt;sup>3</sup> Subject to the fulfillment of customary closing conditions



# 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	201972020	Acceleration phase	
	Setting the foundation	Driving rigorous change		
Strategic focus	// Put in new leadership team // Make portfolio choices // Initiate stricter cost control // Make necessary impairments	<ul> <li>// Execute portfolio choices</li> <li>// Right-size cost base</li> <li>// Recover product supply</li> <li>// Regain momentum in APAC/EMEA</li> <li>// Reset US cost base to strengthen margin</li> </ul>	<ul> <li>// Drive higher innovation level</li> <li>// Accelerate US growth momentum</li> <li>// Capitalize on portfolio choices</li> <li>// Realize full benefit of efficiency program</li> </ul>	
Growth	Stabilize growth	Return to growth	Accelerate growth	
Profitability	Stop margin erosion through strict cost controls	Improve margins	Accelerate margins	



## **Crop Science** The Established Leader in Crop Science

Grower Endorsement of Excellent Product Portfolio Evidenced by Industry Leading Sales

#### **Broadest Crop Science Product Portfolio** Sales 2017 (€bn) BELT Arize FOX<sup>®</sup> Bayer Crop Science<sup>1</sup> FLINT 5 FIELDVIEW CropStar ChemChina Ag<sup>2</sup> **NEMASTRIKE** SmartStaX De Ruiter CORVUS Corteva Maxferce 12.7 \_Luna\_ K-Othrine ADENGO">> BASF Ag<sup>3</sup> 7.9 SERENADE **XTENDIMAX** Seeds & Traits Crop Protection Pro-forma acquired divestments

20.1

14.1

<sup>1</sup> 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

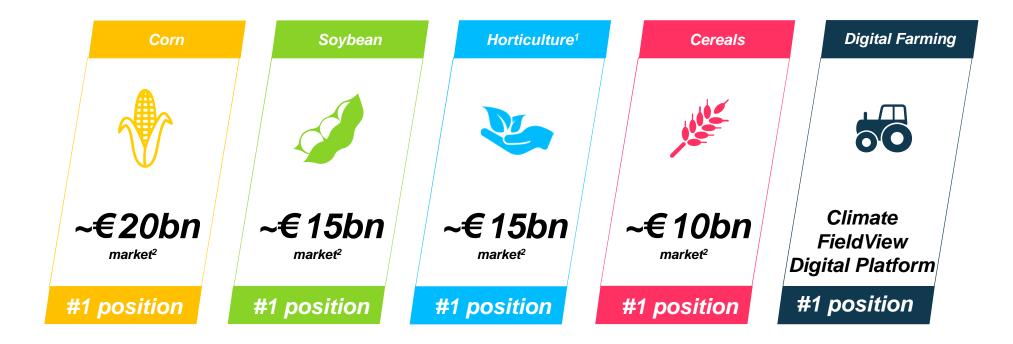
<sup>&</sup>lt;sup>2</sup> Excludes non-agro business sales of ADAMA (nutritional supplements, aromatic products, industrial products)

<sup>&</sup>lt;sup>3</sup> Includes BASF Ag Sales 2017 as reported (€ 5.7bn) plus €22bn Pro-forma sales in 2017 from Bayer businesses sold to BASF



# Crop Science Leading Position in All Major Categories

Crop Science Market<sup>2</sup> Currently Valued at ~€90bn // ~3% Long-term CAGR Expected



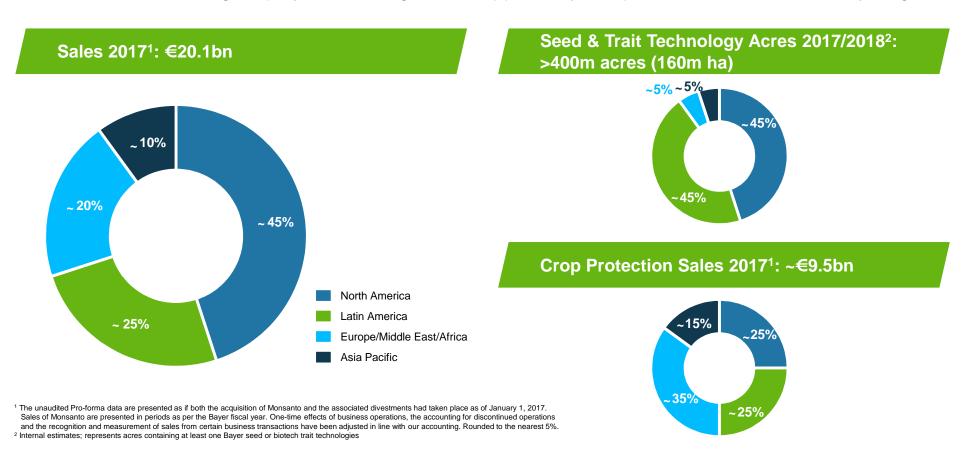
<sup>&</sup>lt;sup>1</sup> Includes fruits, vegetables, flowers and nuts

<sup>&</sup>lt;sup>2</sup> 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 World's Broadest Commercial Footprint in Agriculture

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

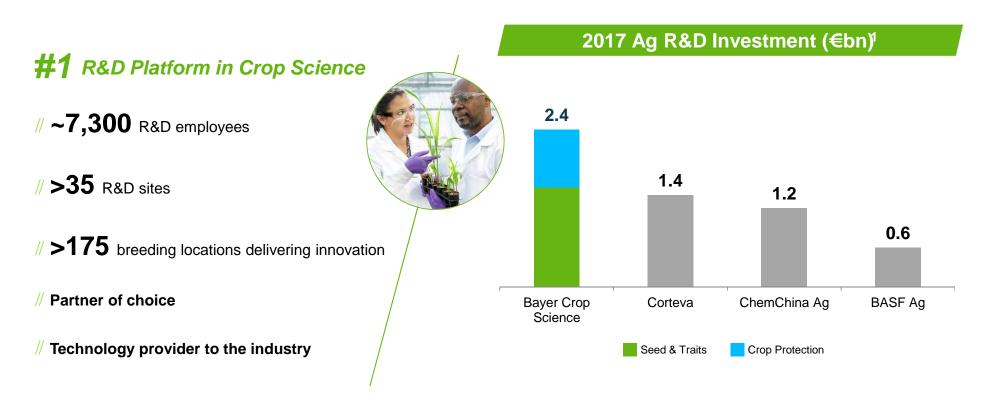


<sup>//</sup> Bayer // UniCredit - Kepler Cheuvreux German: Corporate Conference 2019



# Crop Science Unmatched Investment in R&D

Shaping the Future of Agriculture with Most Productive Innovation Platform in the Industry

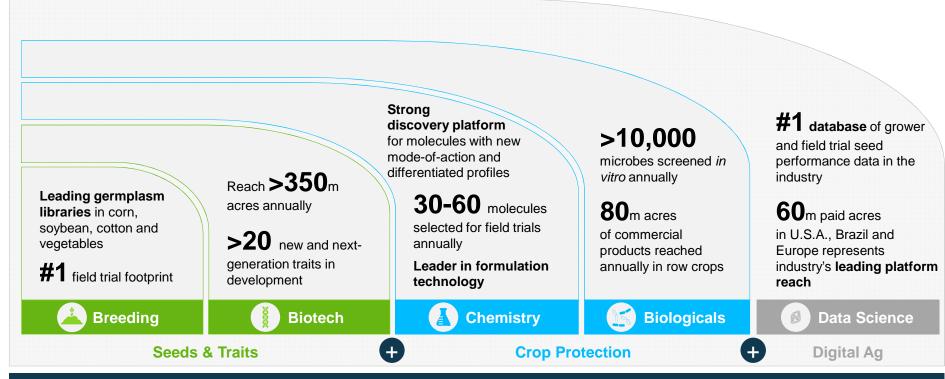


<sup>1</sup> Pro-forma estimates based on company information and internal calculations. | Bayer Pro-forma figures consider Monsanto acquisition and related divestments | Monsanto calendarized to twelve-month-period end ended November 30, 2017



# 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 Driving the Largest and Most Valuable R&D Pipeline in Ag

Highly Effective in Converting Investment into Meaningful Products for Farmers

#### **Newly Combined Pipeline**

#### Scale

#### **Unmatched in the Industry**

- 75 projects in seed & traits, crop protection and digital ag pipelines
- 100's of new hybrids and varieties commercialized annually

#### Advancements

#### **Outpacing Competitors**

- >70 advancements in 2016 and 2017
- // **>50** advancements in 2018

### Value

### Up to €30on Peak Sales¹

- Potential to accelerate with combined pipelines
- Climate tools serve as an enabler to reach peak opportunity

### **Peak Sales Opportunity by Crop**



Soybean ~ €6-7bn



Horticulture ~ €3-4bn



<sup>1</sup> Represents non-risk adjusted estimated peak sales for the combined breeding, biotech, crop protection and environmental science pipelines. Applied FX rate of USD/EUR of 1.15



## Crop Science FieldView: The Leading Brand and Platform for Growers

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

