

Excellence in Commercial Integration and Execution

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Capital Markets Day London, December 5, 2018

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Target Greater than 4% Sales CAGR from 2018 to 2022

Leadership and Innovation Translate into Above Market Sales Growth



€19.3bn¹

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.

² Pending regulatory approvals

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Corn Seed & Trait: Leading Share Position Enhanced by Innovation

Annual Germplasm Upgrade, New Technology Launches and Digital Ag Key to Growth

Germplasm Position and Share ¹			Sales Growth Opportunity Areas: 2018 - 2022	
U.S.A.	#1	>50%	INSECT CONTROL: SmartStax Pro	
Brazil	#1	~45%	WEED CONTROL: New herbicide tolerance traits	
Argentina	#1	~75%	DIGITAL AG: Climate FieldView	
E.U.	#2	~20%	SEED GROWTH: BioRise 2 corn offering and NemaStrike Technology	
2018 global		440.00	SEED: Annual launch of ~200 new higher-performing hybrids globally	
trait acres ¹		~110 m	NEAR TERM 2021+	

¹ Internal estimates of branded and licensed germplasm share positions

Annual Germplasm Upgrades Serve as Foundational Growth Driver

Leading Global Germplasm Libraries and Advanced Breeding Tools Deliver High-performing Products



Leading Go-to-Market Choices Complement Product Performance

~7,800 Customer-facing Employees Meeting Customers Where They Want to Purchase our Products



Soybean Seed & Trait: Key Trait Upgrades Expected to Fuel Growth BAYER

New Solutions in Insect and Weed Control Provide More Options for Farmers in the Americas

Germplasm Position and Share ¹			Sales Growth Opportunity Areas: 2018 - 2022		
U.S.A.	#1	>40%		INSECT CONTROL: Intacta 2 Xtend	
0.0.7.	# 1	0 /0	ASGROW _®	WEED CONTROL: XtendFlex Soybean	
Brazil	#1	~20%			
			DIGITAL AG: Climate Field	View	
			SEED GROWTH: NemaStr	ike Technology	
2018 global trait acres ¹ ~220 m			SEED: Annual germplasm upgrade of ~200 higher-performing varieties annually		
			NEAR TERM	2022+	

¹ Internal estimates of branded and licensed share positions

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Roundup Ready Xtend Crop System Continues Record Growth

XtendFlex Soybeans Serve as Next-generation to Provide Tremendous Flexibility in Weed-control Options



- // >40m acres in 2018; expect the Roundup Ready Xtend Crop System for soybean and cotton to grow to 60m acres in 2019
- # EPA continues registration of XtendiMax with VaporGrip² technology, a low-volatility dicamba formulation for in-crop use
- // Potential fit on all soybean acres in North America; broadly licensed to U.S.A. seed companies with >90% share

¹ Pending regulatory approvals ² XtendiMax with VaporGrip Technology is a restricted use pesticide

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- Trait combination to provide tolerance to three herbicides; glyphosate, glufosinate and dicamba
 - # Aligns with the successful approach in Bollgard II XtendFlex cotton
- # Stewarded Ground Breakers trials expected in the U.S.A. in 2019, with anticipated launch in 2020¹

South American Soybean Trait Technologies Continue to Advance

Insect-protected Soybean Technologies Have a Fit on ~100m Acres in South America



- # Exceptional performance, penetrating 60m acres in South America in just five years
- # Consistently provides yield advantage and reduces insecticide applications for the primary insect pest in tropical soybean

¹ Pending regulatory approvals

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- Intacta 2 Xtend trait technology to provide an additional mode of action for insect control and both glyphosate and dicamba tolerance for weed control
- # Targeting stewarded trials starting in 2019 and expected launch in 2021^1

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Herbicides: Capitalize on Opportunities with Leading Portfolio

New Value Capture Concepts Around Integrated Weed Management in a Changing Weed Control Market Environment



¹ Global Market: Represents the defined crop's portion of the global herbicide market. Optimas forcast for Market 2018, Status October 2018
² Bayer Indication Position: Agrowin 2017 + estimations for DowDupont and Bayer divestments split and allocation, Status October 2018;
³ Bayer S&T Footprint: Internal estimations of percent of planted acres in the region containing at least one seed or trait technology from Bayer
⁴ Corn herbicide position is head-to-head with ChemChina

Glyphosate is a Vital and Effective Tool

Every Year, as much as 40% of World's Potential Harvests are Lost to Pests, Including Weeds

Glyphosate was developed 40+ years ago and is today the most widely used, non-selective herbicide in the world. It is extremely effective in controlling weeds by blocking an enzyme necessary for photosynthesis. When used as directed, glyphosate is not harmful to people and animals.

Benefits of Glyphosate

- // In past, farmers controlled weeds by hand
- // With mechanization, farmers moved to plowing soil, which contributes to topsoil erosion, and using multiple selective herbicides
- // Using glyphosate-based herbicides, farmers can leave soil intact, supporting soil health and reducing greenhouse gas emissions
- // Overall, more effective, more sustainable and leads to larger harvests

History of Safe Use

- # For 40+ years, overwhelming conclusion of regulators worldwide has been glyphosate can be used safely according to label instructions, including EPA, EFSA, and ECHA
- # Extensive body of science (800+ studies over several decades) confirm that glyphosate-based products are safe when used as directed and EPA's 2018 risk assessment examined more than 100 studies and concluded that glyphosate is not likely to be carcinogenic to humans.
- // 160+ countries have approved use of glyphosate





"I need glyphosate on my farm. It helps me be more sustainable, both environmentally and economically, it helps me protect my soil from erosion and build soil health, and it helps me sequester carbon, reducing greenhouse gas emissions ..."

Jake Leguee Leguee Farms, Saskatchewan

Fungicides: Soybean and Horticulture Portfolios Expected to Drive Growth

Securing a Plentiful Supply of High Quality Produce Through Effective Disease Management

	Global Fungicide Market ^{1,2}		Seed & Traits Footprint ³	Key Growth Factors	Digital Tools
	Crop % of Mkt.	Bayer Position	Bayer % of Planted Acres		
Horti- culture	0	#2	#1 in vegetable seed sales	Horticulture globally: Growth driven by innovation and portfolio breadth, e.g. Luna, with multi-crop performance and produce shelf-life benefits, and expansion of Nativo and Infinito	
Soybean		#1		Soybean in LATAM: Growth driven by Fox and Fox Xpro with performance that addresses rust. Further synergies to capitalize upon with seeds and herbicide portfolio.	
Cereals	0	#1	Not relevant	Cereals globally: Retaining leading position through breadth of modes-of-action and innovation for sustainable solutions	
Corn	\bigcirc	#3		Corn NA: Develop fungicide market through novel business model demonstrating the customer value of Corn fungicides	

Fungicides Trials

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Insecticides: Innovation and Portfolio Enable Growth Above Market

Growing Food and Feed Demand, Pest Epidemics and Resistance Challenges Drive Demand

	Global Insecticide Market ^{1,2}		Seed & Traits Footprint ³	Key Growth Factors	Digital Tools
	Crop % of Mkt.	Bayer Position	Bayer % of Planted Acres		
Horti- culture	0	#1	#1 in vegetable seed sales	Horticulture globally: Growing demand for high produce quality and addressing nematodes. Further growth with brands like Movento and launch of new innovations like Velum and Sivanto.	
Soybean	0	#3		Soybean in LATAM: Dynamic growth induced by pest pressure and resistance prevention, including integrated resistance management. Launch of innovations like Arvis, Oberon Speed and Belt Vision.	In-season Field Health
Corn	0	#3		Corn in North America and LATAM: Complete offering for insect control with foliar and soil-applied products complementing leading traits and seed-applied solutions.	In-season Field Health

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Seed Growth: NemaStrike Technology Launching

Novel Nematicide Reaches Underserved Market in Launch Across U.S.A. Corn, Soybean and Cotton

Successful NemaStrike Technology Ground Breakers trials in 2018

- // ~1,200 growers across corn, cotton and soybean in 2018 trials; represented >10,000 acres
- // Expected 2019 product launch across three crops on several million acres
- // Continued strong 5 year average yield protection advantage in corn, soybean and cotton





¹ Compared to seed treated with Acceleron Seed Applied Solutions without NemaStrike Technology. Results will vary based on nematode pressure in each field. Represents the four-year average from trials conducted in 2014 to 2018

Seed Growth: NemaStrike Technology Launching

Climate FieldView Imagery Demonstrates the Strong Early Season Performance of the Technology

Climate FieldView imagery and corn root comparison from a NemaStrike Technology Ground Breakers trial¹





Key Takeaways

Shaping agriculture to benefit farmers, consumers and our planet





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