

Credit Suisse 31st Annual Basic Materials Conference

Shaping Agriculture for the Benefit of Farmers, Consumers and the Planet

Brett Begemann COO, Crop Science Division

September 10, 2019

Forward-Looking Statements

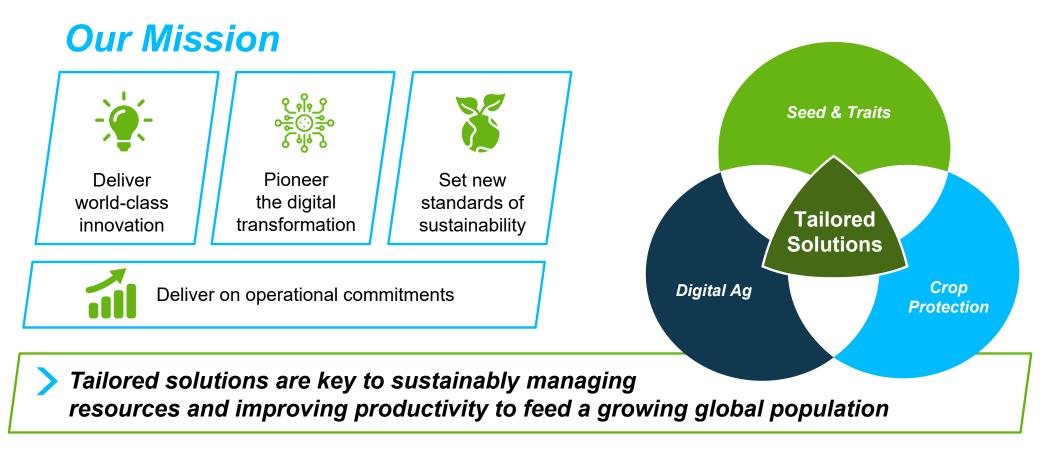
This presentation may contain forward-looking statements based on current assumptions and forecasts made by Bayer management.

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The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

Shaping Agriculture to Benefit Farmers, Consumers and Our Planet

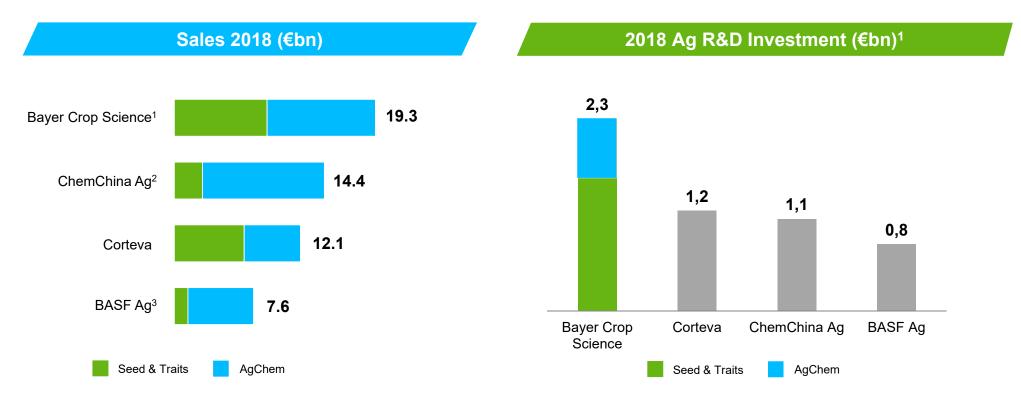
As the Industry Leader Uniquely Positioned to Create Value and Pioneer Tailored Solutions



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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, 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.

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

³ Includes BASF Åg 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

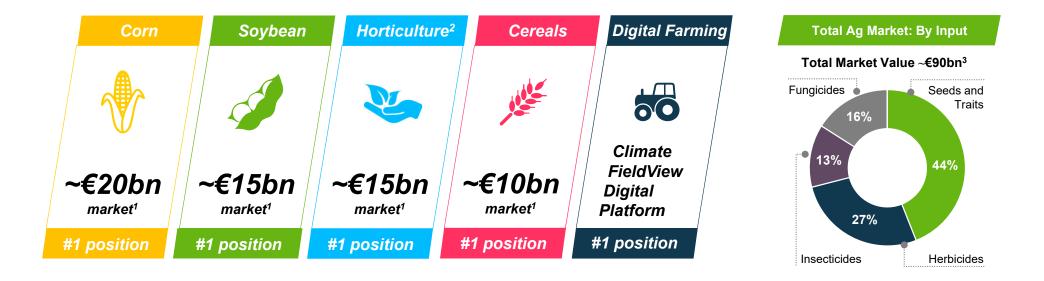
⁵ Competitor Pro forma R&D cost split not available

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Leading Position in All Major Categories

Crop Science Market¹ Currently Valued at ~€90bn



¹ Includes seeds, traits, crop protection chemistries and environmental science; does not include fertilizer

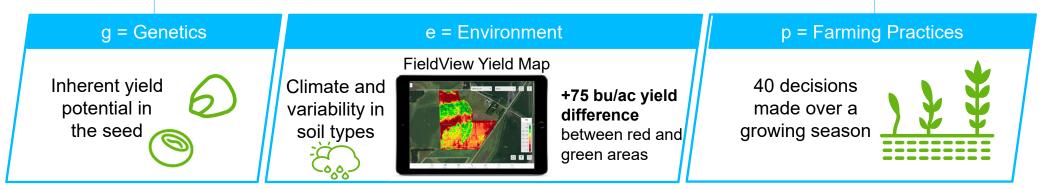
² Includes fruits, vegetables, flowers and nuts

³ Total market of ~€90bn includes €5bn of Environmental Science; actual pie charts exclude that amount, as not relevant in these views (Source: Bayer Crop Science market model) Note: Reflecting Crop Science portfolio after divestments. Market sizes rounded to nearest €5bn. Source: Pro-forma calculations Bayer; Bayer Crop Science market model

Opportunity for Digital Transformation and Tailored Solutions

Precise Resource Use and Innovation Required to Address Demand Growth, Field Variability and Increased Pressure on Ecosystems to Generate Sustainable Yield Improvements





Opportunity from optimized yield equation





Our evolution to capture the opportunity



¹ USDA crop production summary report. Results not typical.



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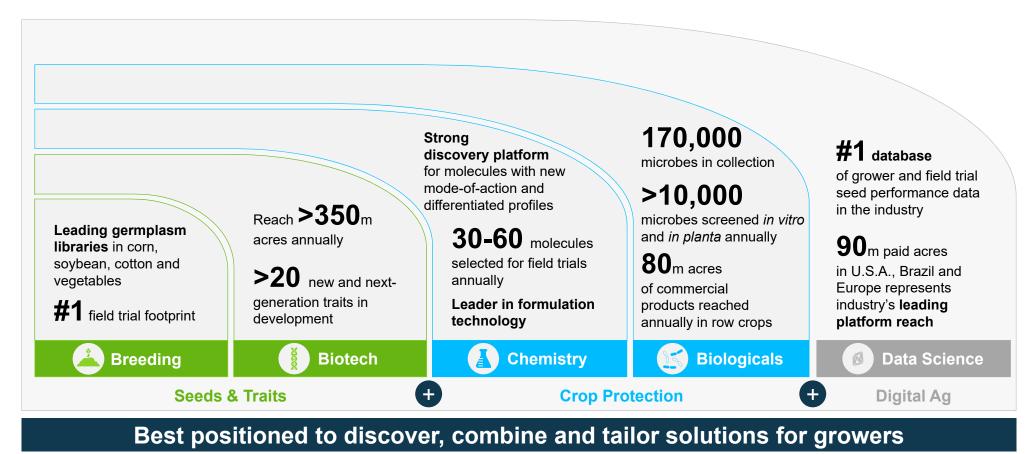


Producing Better

The history of corn production plot demonstrates the great strides we have made in producing more with less, and the opportunity we have to continue to "produce better" through tailored solutions that drive us toward our reduced environmental impact commitment while meeting the needs of a growing population on an increasingly hotter planet.

Next Growth Opportunity: Convergence of Leading R&D Platforms

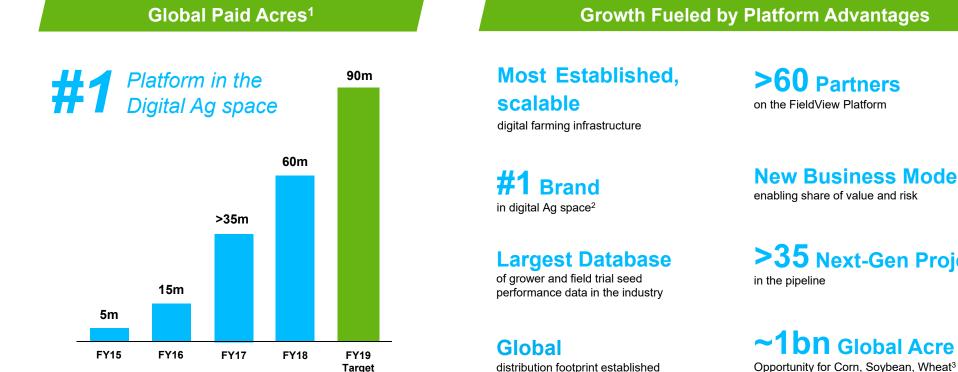
Continued Investment in Data Science and New Technologies are Driving Future Opportunity



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FieldView: The Leading Brand and Platform for Growers BAYER E R

Significant Opportunity to Expand Digital Ag Footprint



¹ Internal estimates ² 2018 Brand Health Monitor ³ Harvested acres - USDA FAS 2018-10-11, ex China

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New Business Models enabling share of value and risk

>35 Next-Gen Projects

Extensive and Unique Data Collection Capability

FieldView Drive Device Collects, Connects and Digitizes Farmer Activity Informing and Improving our Models and the Digital Tools Farmers are Deploying in their Fields



BAYER E

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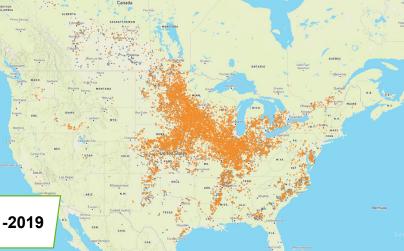
Seamless Data Aggregation



Connected Planters & Sprayers

Seamless Data Aggregation

~10,000 connected combines uploading data on 10-18-2018



~16,000 planters and ~4,500 sprayers uploading data since 01-01-2019

Data Collection as Core Competitive Advantage

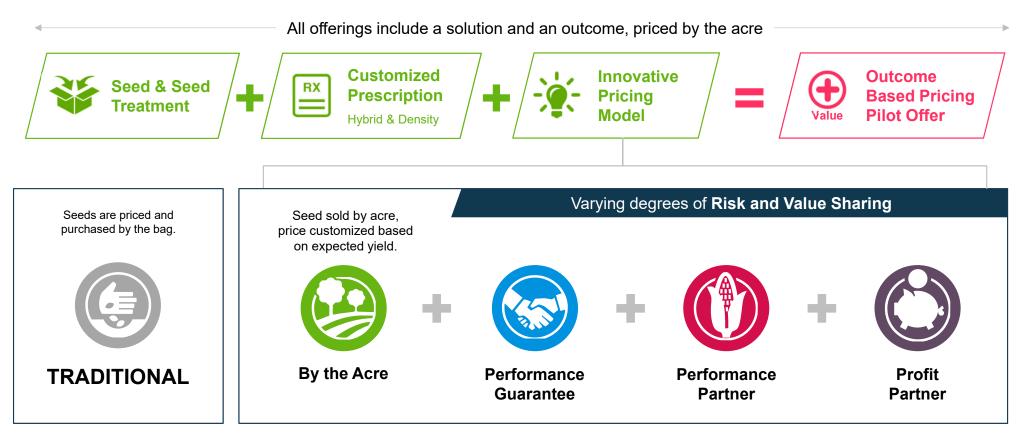
Able to Collect 5 Million Connected Hours of Data in a Fraction of the Time it Took a Year Ago



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Trials of Four Outcome-Based Offerings Underway in the U.S.

Bringing the Best of Bayer Crop Science; Personalized for the Grower Profile and His Fields



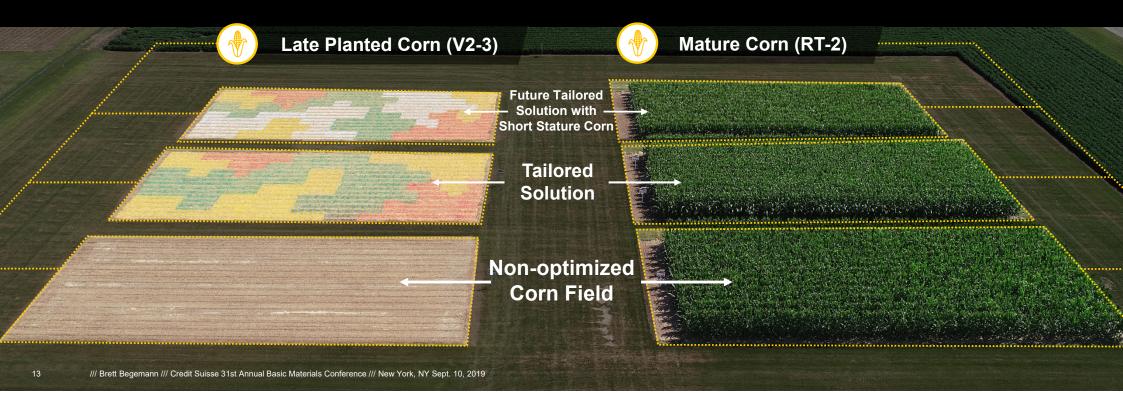
* Subject to terms and conditions to be agreed between grower and Bayer



Tailored Solutions and New Business Models

Non-optimized Corn Field: Representative of this region **Tailored Solution:** Advanced Seed Scripting to optimize hybrid selection, placement and planting rate plus Elite Seed Treatment, Disease Mgmt. System, Delaro Fungicide, executed through new Outcome-Based Pricing business model

Future Tailored Solution: Same as tailored solution, plus short stature corn, next-generation fungicide. UAV to showcase imagery, stress detection and in-season application flexibility.



Leadership and Innovation Drive Above Market Sales Growth Target

Target Above Market Sales Growth from 2018 to 2022 and >30% EBITDA Margin by 2022^{3,4}

€19.3bn ¹ Pro-Forma Sales	8%	Other	Key Sales Growth Drivers
	3% 5%	Soybean Seed & Traits Fungicides Fungicides	
	7%		// Deliver annual germplasm refresh across the seeds
	12%		portfolio to capture price and share gains
	14%		// Continue penetration of Roundup Ready Xtend crop system; transition to XtendFlex soybeans with expected U.S.A. launch in 2020 ²
	25%	Corn Seed & Traits	Continue penetration of Intacta RR2 PRO soybeans; transition to Intacta 2 Xtend with expected launch in South America in 2021 ²
			// Increase crop protection sales on the >400m acre seed & trait footprint; FieldView platform an enabler
	26%	Herbicides	// Maximize sales synergies

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² Pending regulatory approvals

3 EBITDA margin based on EBITDA before special items

4 2022 targets at constant currencies, not including portfolio measures

Integration and Synergies On Track

Leadership in Place, Engagement High and Progressing Toward €1bn Synergy Target as of 2022

Integration Achievements

- // Crop Science functions advancing rapidly with organizational integration, expect completion by year end 2019 – Support functions to be completed in alignment with Bayer 2022 project
- // Cultural Integration: Q2 employee survey indicates continued high levels of employee engagement

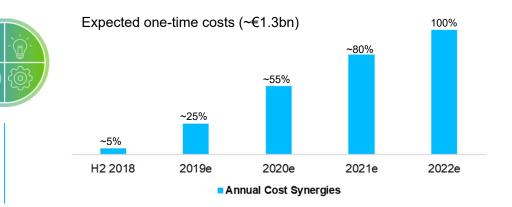
// Cost Synergies:

- // Achieved 2018 target
- // Q1 and Q2 well on track with anticipated ramp up of 25% in 2019
- // Focused on headcount, IT and infrastructure savings

Applied FX rate of USD/EUR of 1.15



Cost Synergies ^{1,2}: ~€870m (~\$1bn) as of 2022



Sales Synergies¹: ~€170m (~\$200m) as of 2022

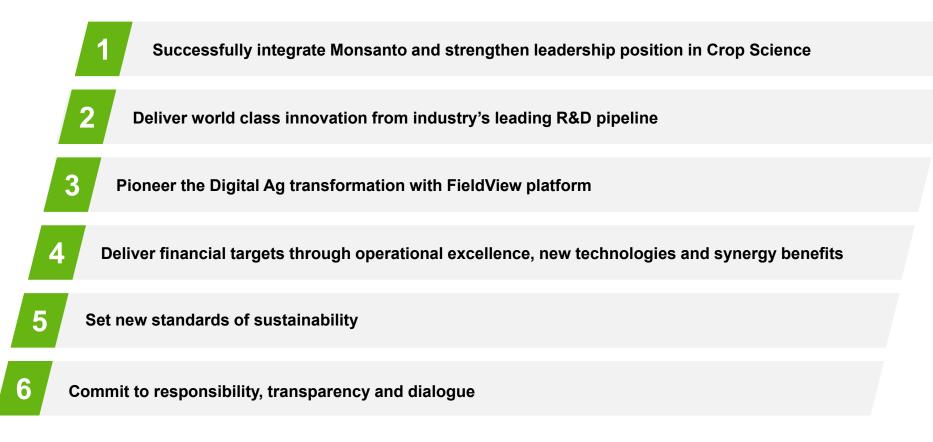
- Four countries to generate >60% of the sales synergies
 - U.S.A., Brazil, Argentina and Mexico
- Increase crop protection chemistry sales in Americas on the >400m acre seed & trait footprint; Digital Ag to serve as an enabler

¹ Net EBITDA impact before special items, net of estimated dissynergies such as termination of selected distribution agreements as well as sales disruptions
² Majority of one time costs to achieve synergies expected to be recorded as special items

Key Priorities

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