

Cautionary note regarding forward-looking statements

This presentation contains forward-looking statements. These statements are based on current estimates and projections of the Board of Executive Directors and currently available information. Forward-looking statements are not guarantees of the future developments and results outlined therein. These are dependent on a number of factors; they involve various risks and uncertainties; and they are based on assumptions that may not prove to be accurate. Such risk factors include those discussed in Opportunities and Risks on pages 123 to 130 of the BASF Report 2018. BASF does not assume any obligation to update the forward-looking statements contained in this presentation above and beyond the legal requirements.





At a glance

Implementing BASF's Corporate Strategy

Q3 2019 Reporting

CMD Agricultural Solutions – Highlights



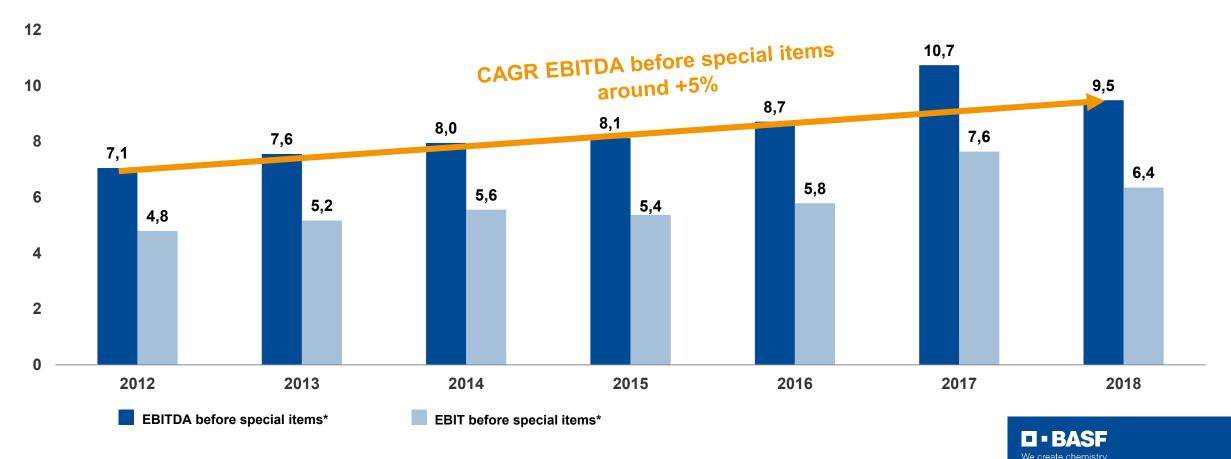
BASF shares – an attractive investment

- Strategy focused on participating in fast growing Asian markets
 - driven by strong and expanding local presence
- Industry-leading innovation platform
 - covering a broad range of technologies and providing solutions for a multitude of customers
- Unique Verbund concept
 - competitive advantage based on integrated sites, operational excellence and best-in-class technologies
- CO₂-neutral growth until 2030 targeted
 - creating value to society and contributing to a sustainable development
- Earnings growth, strong cash flow generation and clear return criteria
 - based on operational excellence and financial strength
- Long-term value creation with progressive dividend policy
 - increase the dividend per share every year



Proven ability to achieve earnings growth above global chemical production of 3.7% per year

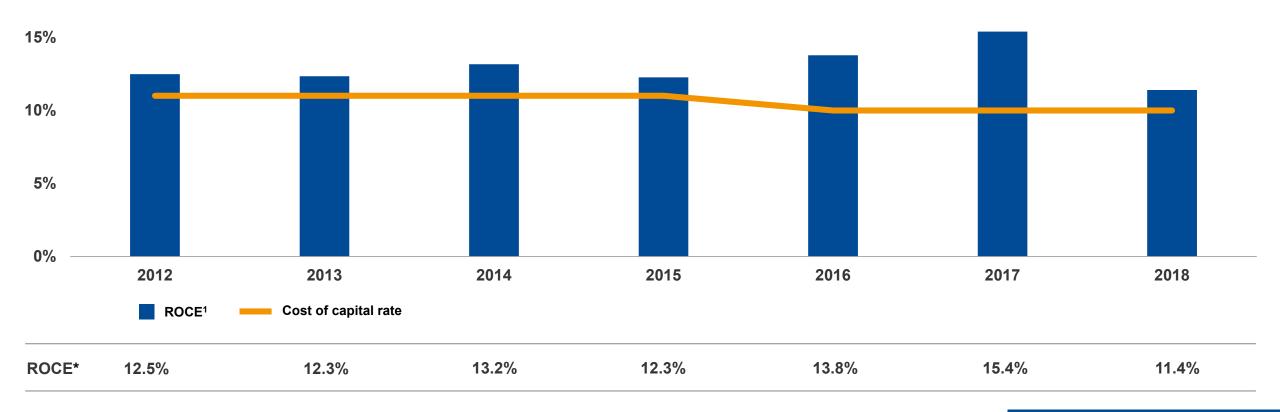
EBIT before special items¹ and EBITDA before special items¹ billion €, 2012–2018



Return on capital employed well above cost of capital

Return on capital employed

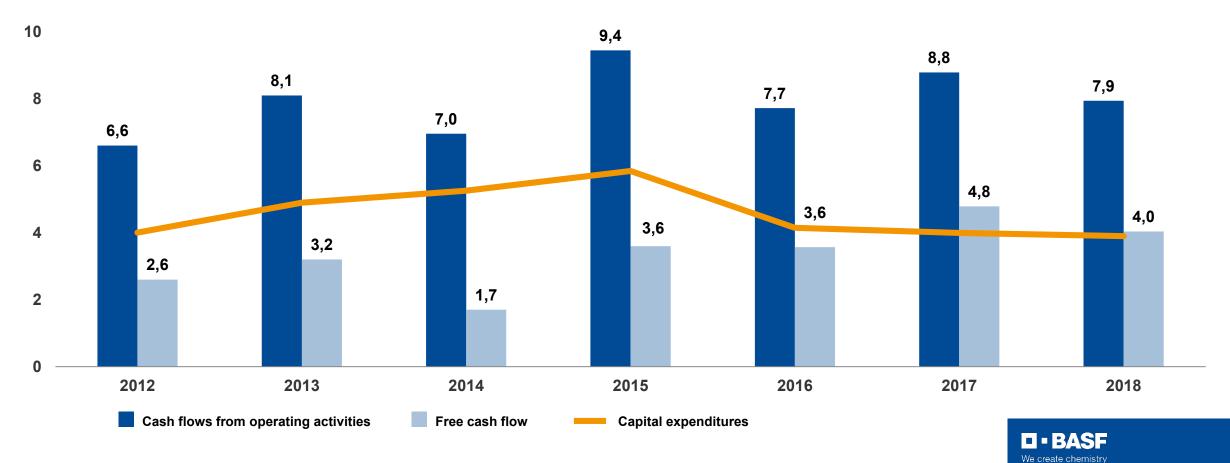
%, 2012–2018





Strong free cash flow development

Cash flows from operating activities and free cash flow¹ billion €, 2012–2018

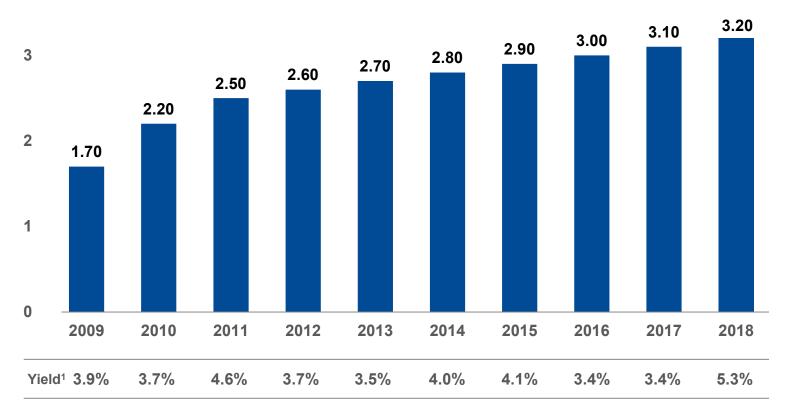


Attractive shareholder return

clear commitment to progressive dividend policy

Dividend per share

€



Dividend policy

Increase the dividend per share every year

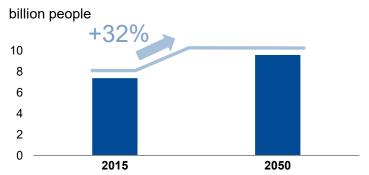
Key facts

- Dividend of €3.20 per share, an increase of €0.10 compared to 2017
- Dividend yield of 5.3% based on the share price at year end 2018

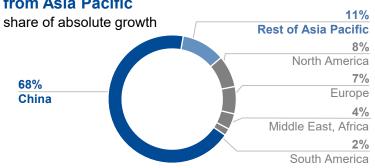


Global trends provide opportunities for growth in the chemical industry

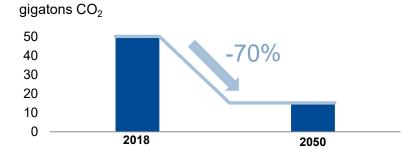
Population growth



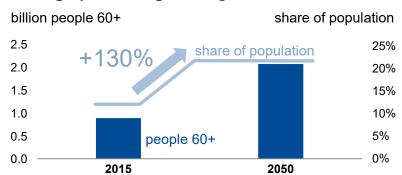




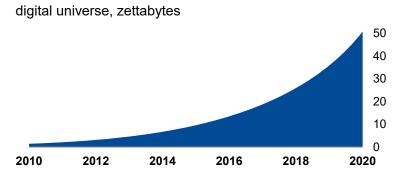
Climate change: Strong reduction of GHG emissions necessary to achieve 2°C global warming target



Demographic change: Rising number of seniors



Digitalization is surging



Electromobility drives demand for battery materials

cathode active materials demand, kilotons
1.000



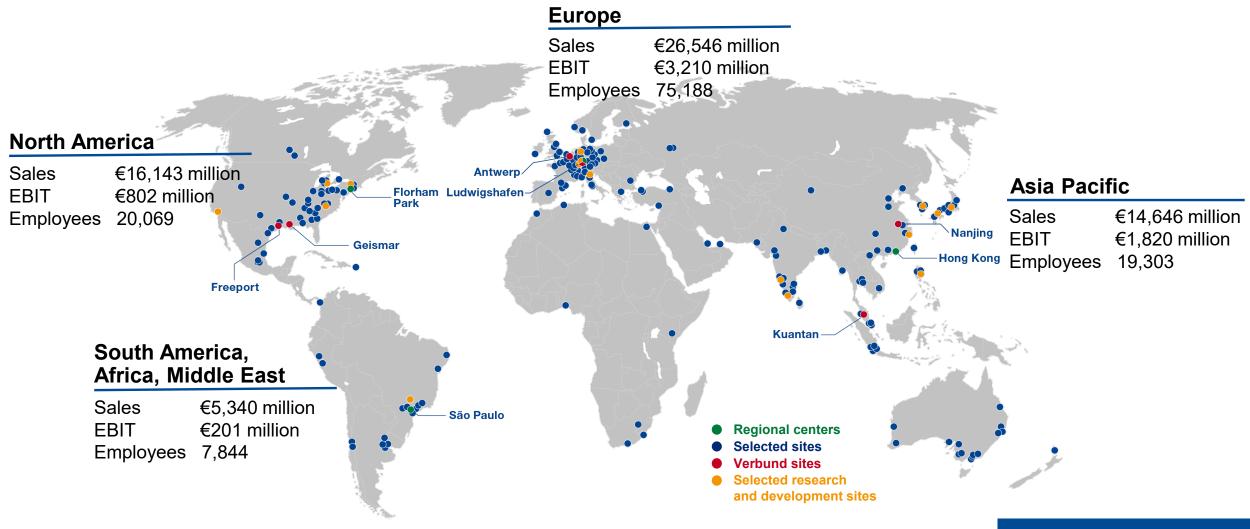


China is the major growth driver for global chemical production

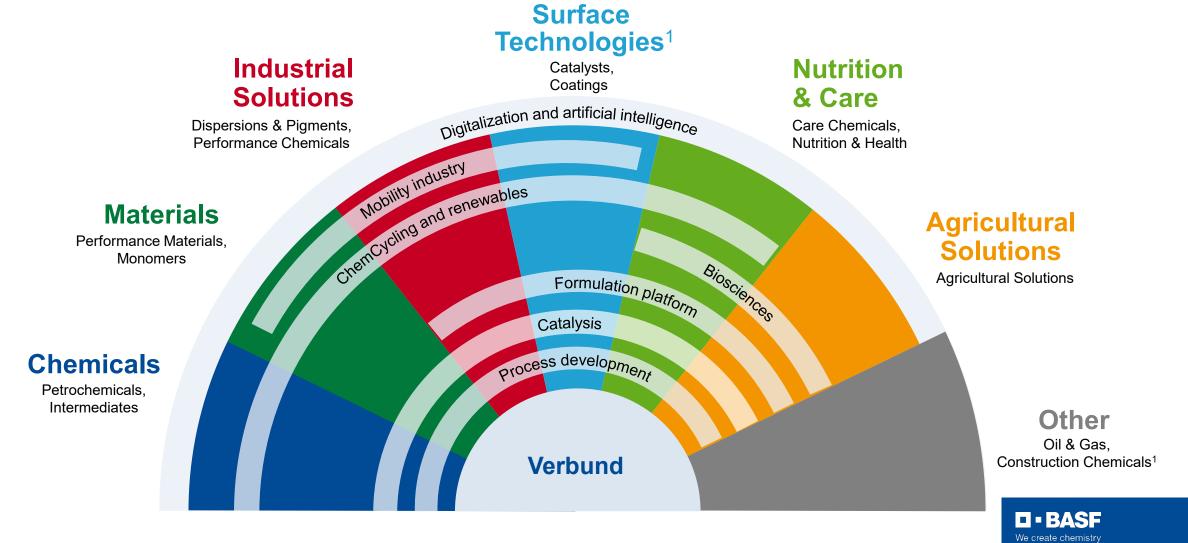
Real chemical production excluding pharmaceuticals billion US\$



Global market access through regional presence



New segment structure strengthens performance- and market-orientation and provides more transparency



Each new segment has a clear and compelling path forward

	Chemicals	Materials	Industrial Solutions	Surface Technologies ¹	Nutrition & Care	Agricultural Solutions
% of sales 2018 ²	19%	21%	15%	22%	9%	10%
EBIT bsi 2018²	€1.6 billion	€2.4 billion	€0.7 billion	€0.7 billion	€0.7 billion	€0.7 billion
Core theme	Verbund	Advanced materials	Additives platform	Surface modification platform	Consumer ingredients	Integrated offering of crop protection, seeds & traits, digital
Innovation focus	Improved or new processes	Applications, biomaterials	Formulations	Battery materials, surface effects	Biotechnology, formulations	Crop protection, seeds & traits, digital farming
Capex relevance						
M&A relevance						
Sustainability	ChemCycling™	Bio-based materials	More from less	Low-emission mobility	Bio-based and natural, traceability	Better with less



¹ Until signing of a transaction agreement, Construction Chemicals will be reported under Surface Technologies

² Other (sales 2018: €2.8 billion, EBIT bsi 2018: €(462) million) not depicted on this slide

We stick to our ambitious financial and non-financial targets

Financial targets

Grow sales volumes faster than global chemical production every year

Increase **EBITDA before special items** by **3% to 5%** per year

Achieve a return on capital employed (ROCE)¹ considerably above the cost of capital percentage every year

Increase the **dividend per share** every year based on a **strong free cash flow**

Non-financial targets

Grow CO₂-neutrally until 2030

Achieve **€22 billion** in **Accelerator sales**² by 2025

Cover **90%** of our relevant spend³ with **sustainability evaluations** by 2025, and have **80%** of our suppliers **improve** their **sustainability performance** upon re-evaluation

More than **80%** of our **employees** feel that at BASF, they can **thrive** and **perform at their best**



Return on capital employed (ROCE) is a measure of the profitability of our operations.
We calculate this indicator as the EBIT generated by the operating divisions as a percentage of the average cost of capital basis

² Accelerator products are products that make a substantial sustainability contribution in the value chain

We understand relevant spend as procurement volumes with relevant suppliers



At a glance

Implementing BASF's Corporate Strategy

Q3 2019 Reporting

CMD Agricultural Solutions – Highlights





Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value

D-BASE

Active portfolio management based on best-owner principle

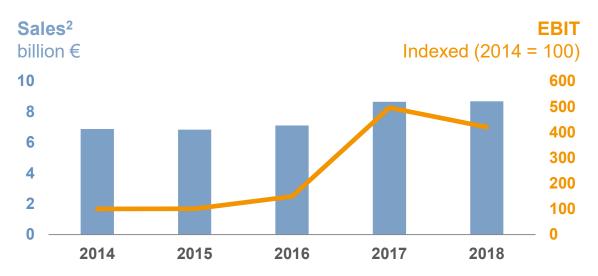
BASF is well positioned to capture future growth in China

Well positioned in China – the major growth driver for global chemical production

Real chemical production¹ billion US\$ CAGR +4.4% +250bps vs. RoW

- With ~40%, China is already today the largest chemical market worldwide
- Growing above global chemical production requires a strong participation in China's growth
- BASF is a well-established and highly-recognized company in China with long-standing partnerships

Strong earnings development of BASF in Greater China



- Proven track record of strong earnings growth in Greater China thanks to BASF's unique position
- Serving all customer industries of BASF in the region
- State-of-the-art production facilities supported by sustainable Verbund concept



¹ Source: BASF, real chemical production excluding pharmaceuticals

² Net sales to 3rd parties by location of customer plus 50% of sales of BASF-YPC Company Ltd. Nanjing

Major investment projects in Asia Pacific on track

Chemical production complex, Mundra

- BASF signed an MoU with ADNOC, Adani and Borealis to invest in chemical production complex
- Feasibility study to be finalized by end of Q1 2020
- PDH unit to be established as basis for acrylics value chain and polypropylene production
- First CO₂-neutral site to be
 100% powered by renewable energy

Nanjing Verbund site

- BASF and Sinopec to expand Verbund site in Nanjing and potentially cooperate in battery materials
- JV BASF-YPC to have 50% in additional steam cracker
- Both projects are in the planning phase and on track

Zhanjiang Verbund site, Guangdong

- Wholly owned and operated by BASF
- Project is currently in the feasibility phase
- First plants expected to be operational in 2022
- US\$10 billion capital expenditures to be implemented in phases until 2030







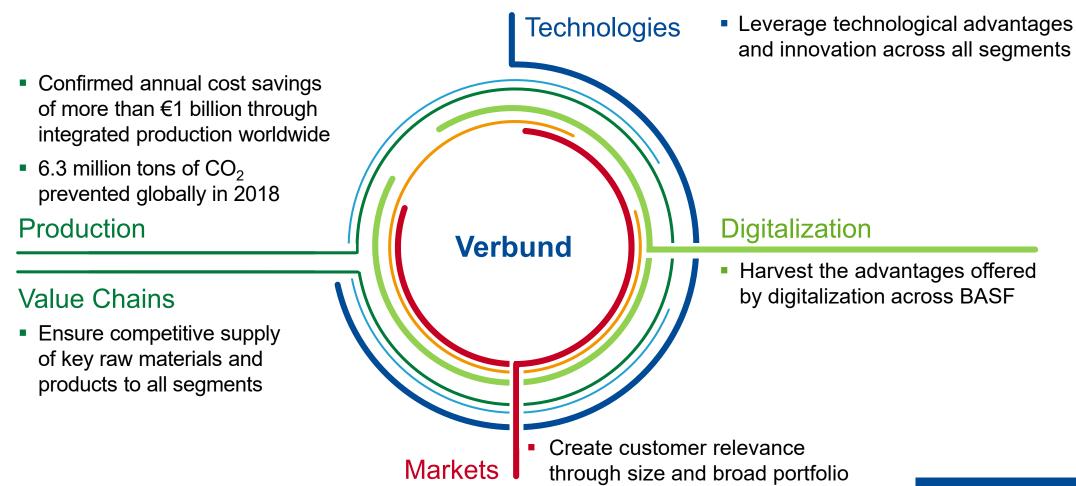
Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value

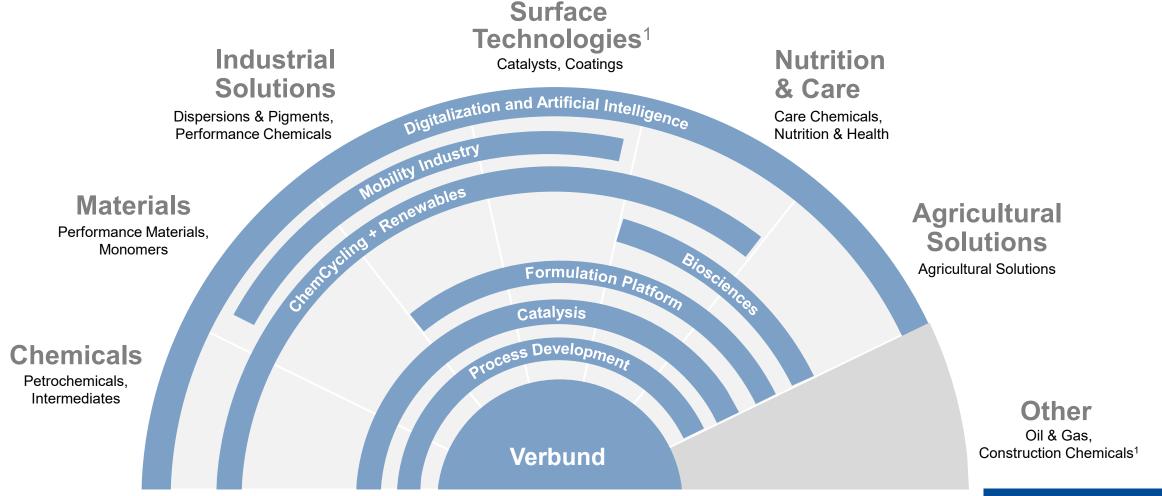
D-BASE

Active portfolio management based on best-owner principle

Our unique Verbund concept is one of BASF's greatest assets with multiple benefits strengthening the portfolio



Verbund concept enables BASF to realize synergies via connectors across the segments







Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value

-BASE

Active portfolio management based on best-owner principle

Transforming into an agile and customer-focused organization

Action fields

Embedding to bring services closer to customers

Functions and headquarters with **streamlined** back-end organization

Regions with **sharpened roles** to increase customer focus

Process landscape to be simplified

People working in an entrepreneurial performance culture

Progress report

On October 1, 2019, we completed the embedding of around 20,000 employees



On January 1, 2020, lean corporate center with ~1,000 employees will go live



Regions with **strengthened customer focus**, supporting and enabling the businesses locally



Simplification measures on track: currently ~110 projects ongoing, ~40 successfully completed



Empowering and incentivizing employees to take ownership in their area of expertise





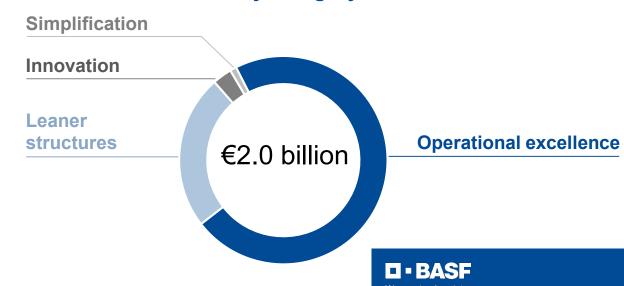
Update on excellence program 2019 – 2021

	2019	2020	2021
Annual EBITDA contribution¹		• €1.0 – €1.3 billion	■ €2.0 billion
One-time costs ²	• €0.4 – €0.5 billion	• €0.2 – €0.3 billion	• €0.2 – €0.3 billion

Category

Operational excellence	Measures focused on production, logistics and planning	
Leaner structures	Personnel cost savings; reduction of 6,000 positions targeted globally	
Innovation	R&D cost reduction via focusing budgets	
Simplification	Increased process efficiency, e.g., in procurement	

EBITDA contribution by category





Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value

Active portfolio management based on best-owner principle

-BASE

Creating value to society and contributing to sustainable development

CO₂-neutral growth until 2030

- Since 2002: 34% reduction in greenhouse gas emissions per ton produced
- 2018: 0.6 ton CO₂ per ton produced
- 2030 target: 0.4 ton CO₂ per ton produced¹
- Measures: CO₂-neutral power, operational excellence and new technologies

Accelerator products

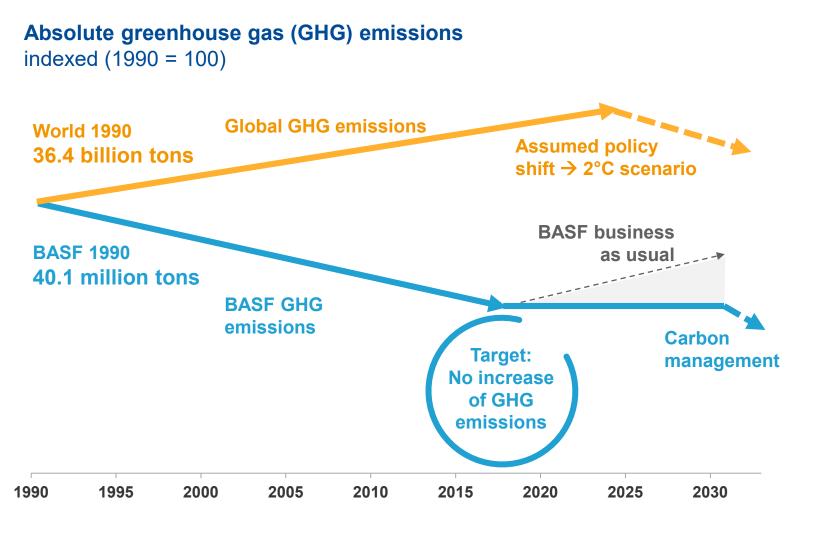
- 27.7% of BASF portfolio classified as Accelerator products with substantial sustainability contribution in the value chain
- Accelerator products
 - 2018: €15 billion sales
 - 2025 target: €22 billion sales
 - On average margins ~6% points above the rest of assessed portfolio

Value balancing alliance

- BASF is founding member of the cross-industry value balancing alliance established in August 2019
- Aim to standardize approaches to make societal impact results comparable across companies
- Value-to-society program to make monetary impact assessment of economic, social and environmental contribution



CO₂-neutral growth until 2030: Creating value to society and contributing to a sustainable development



- Since 1990, we have doubled our production volumes and nevertheless cut our greenhouse gas emissions in half
- BASF uses carbon raw materials responsibly: 75% of carbon converted to products, 25% consumed for process energy and converted to CO₂
- 22 million tons of CO₂ emissions by BASF worldwide in 2018 compared to 10–30 million tons per year for one coal-fired power plant
- Carbon intensity to be reduced by 30%
- We support the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD)



Leverage BASF's innovation power to achieve €22 billion in Accelerator sales by 2025 (1)

Percentage of sales 2018

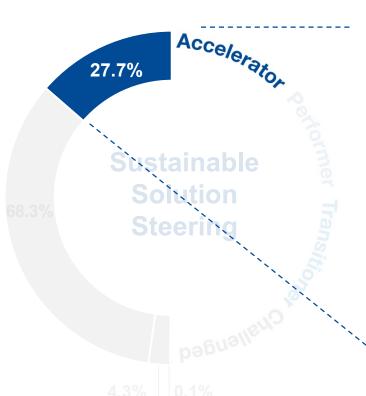


- >60,000 product applications analyzed by 2018 (€56.2 billion in sales, 96.5% of relevant portfolio)
- 27.7% Accelerators
 - >12,000 solutions for enhanced quality of life
 - strong growth in their markets
 - on average margins ~6 percentage points above the rest of assessed portfolio
- Goal: €22 billion of sales with Accelerator products by 2025 (2018: €15 billion)
- Stronger integration in R&D pipeline, business strategies and M&A projects
- We will stop selling all Challenged products within maximum five years after classification



Leverage BASF's innovation power to achieve €22 billion in Accelerator sales by 2025 (2)

Percentage of sales 2018



Examples



















Circular economy

Chemical recycling represents a missing link for sustainable growth





Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value

-BASE

Active portfolio management based on best-owner principle

Guidance on the use of cash

Organic growth

- ~€21.3 billion capex budget 2019-2023
- Around €2.3 billion R&D expenditures annually

Progressive dividend

- Aim to increase dividend per share every year
- Strong balance sheet supports dividend policy in times of slower free cash flow generation driven by weak macro environment

Portfolio upgrading

- Strengthen portfolio by selective M&A opportunities while maintaining price discipline
- Focus the portfolio through continued pruning measures

Share buybacks

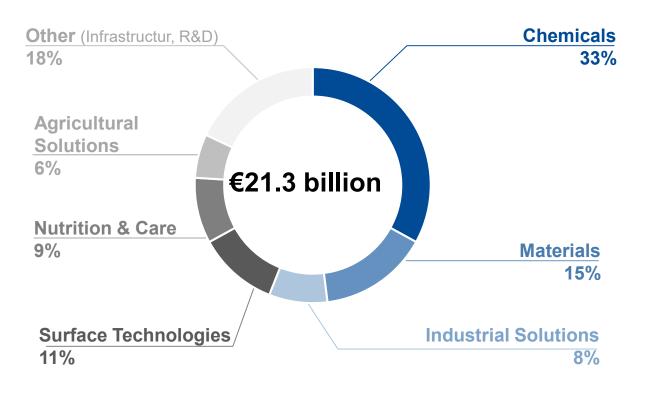
 We will also consider share buybacks, e.g., to return disposal proceeds to shareholders



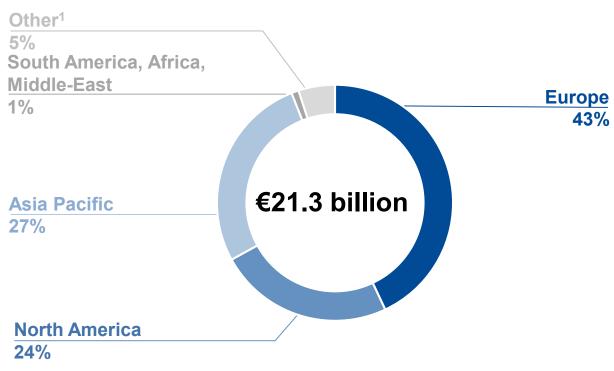
Investments in organic growth

Investments of ~€3.8 billion planned for 2019

Capex budget 2019–2023 by segment



Capex budget 2019–2023 by region

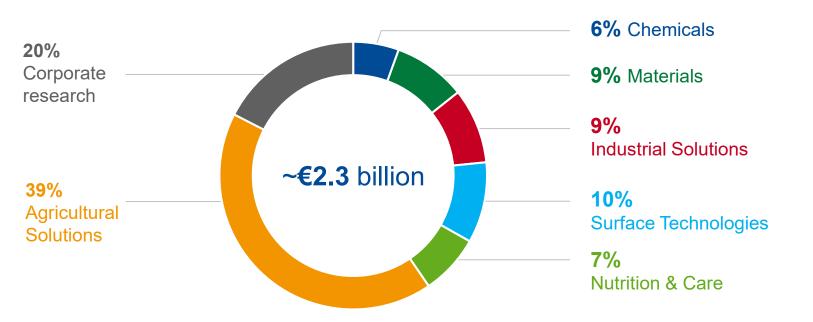


¹ Alternative sites currently being investigated



BASF's R&D is highly competitive, ensures long-term growth and generates a net benefit to earnings every year

Expected annual R&D expenditures



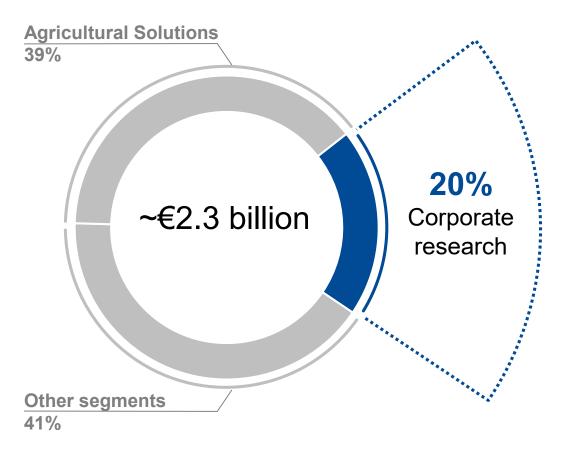
Measures to boost innovation power

- Capitalize on innovation mindset
- Focus R&D resources on growth businesses
- Increase customer centricity
 - Stronger alignment of customer needs and R&D projects
 - Establish rapid prototyping
 - Move R&D closer to businesses
- Fully leverage artificial intelligence
- Cross-divisional corporate research strengthens existing and develops new key technologies



BASF's corporate research ensures long-term growth of BASF Group

Expected annual R&D expenditures



New businesses

 investment in ventures that target markets and technologies new to BASF, e.g., trinamiX, 3D printing

Key technology capabilities

 continuous investments in technologies that are decisive for BASF's core businesses, e.g., heterogeneous catalysis, enzyme technology, alternative toxicological methods

Corporate projects

overarching topics with special relevance for BASF,
e.g., Carbon Management

Creativity budget

pragmatic approach to quickly evaluate
 new and radical ideas in BASF's research divisions



E-Mobility is a growth driver for BASF

Heat management

Effective heat management can increase the range of electric cars, as it reduces the energy drawn from the battery to heat and cool the vehicle.

ComponentsBASF materialsChassis coatingsChromacool®



Charging system

Safe and easy-to-use charging devices are vital if electromobility is to become widespread.

Components	BASF materials	
Charging stations	Ultramid [®] , Ultradur [®]	
Charging cables	Elastollan®	
Charging plugs	Ultramid [®]	
Charging inlet	Ultramid [®]	

Electric powertrain

The electric motor and power electronics are core components of an electric vehicle.

BASF materials help customers to reduce weight, increase design flexibility and enable components and functions to be integrated safely.

Components	BASF materials	
Electric motor	Cellasto®	
Power electronics	Ultramid®, Ultradur®	

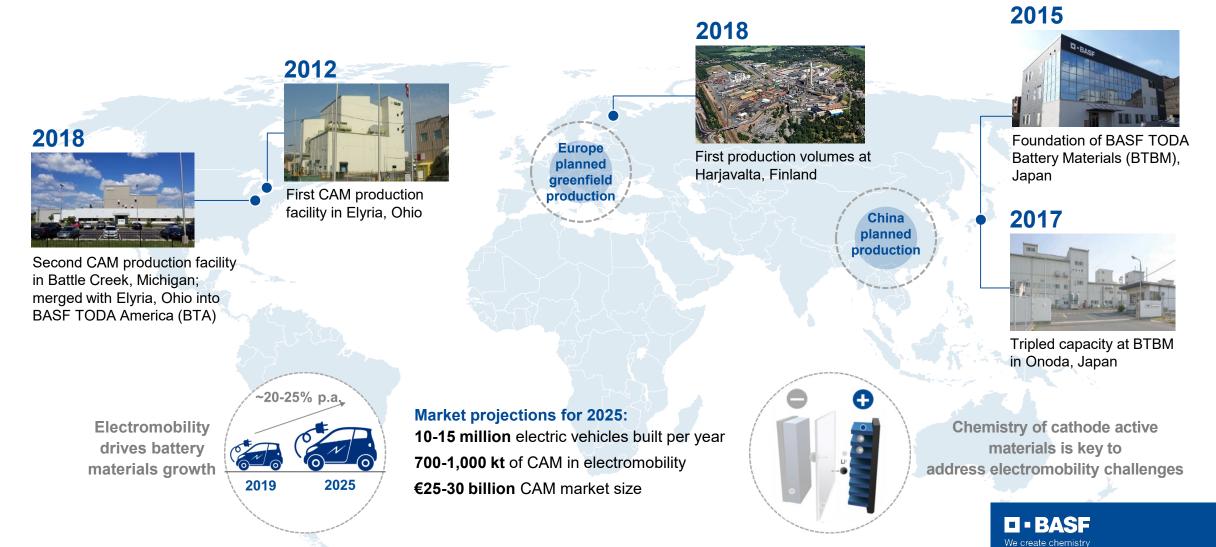
Battery

The battery pack is the heart of an electric car. To support next-generation battery technology, BASF is continuously improving its portfolio with new solutions.

Components	BASF materials
Battery cells	CAM¹ (HED™ product family), N-methylpyrrolidone (NMP), Ethylene carbonate
Battery housing	Oxsilan®, CathoGuard®, Ultramid®
Battery bearings	Cellasto®
Battery cooling	Glysantin®, Ultramid®
High-voltage plugs	Ultradur® HR, Ultramid®



Fast-paced buildup of global cathode active materials footprint





Implementing our strategy

- Continued investments in strategic growth regions and innovation-driven industries
- Leverage multiple Verbund strengths across the portfolio
- Transforming into an agile and customer-focused organization
- Set the tone with CO₂-neutral growth
- Capital allocation framework to maximize long-term shareholder value
- 6 Active portfolio management based on best-owner principle

D-BASE

We have refocused our portfolio towards innovative growth businesses¹

Acquisitions



- Functional crop care
- Personal care and food ingredients
- Omega-3 fatty acids
- Enzymes
- Battery materials
- Specialty plastics
- Refinish coatings
- Surface treatment
- Seeds and crop protection

~€7.8 billion sales in emerging and innovation-driven businesses

BASF core business

Selected transactions 2010-today



Divestitures

- Styrenics
- Fertilizers
- Natural gas trading and storage
- Custom synthesis business
- Textile chemicals
- Polyolefin catalysts
- Industrial coatings
- Leather chemicals
- Water and paper chemicals
- Oil & Gas

~€26.0 billion sales in businesses with decreased differentiation potential



Ongoing active portfolio management



BASF to acquire Solvay's non-European polyamide business

- Sales 2018: ~€1 billion
- BASF will acquire the global, non-European PA6.6 business from Solvay including its 50% share in Butachimie's adipodinitrile (ADN) production
- Purchase price of €1.3 billion¹
- Closing is expected in Q1 2020



DIC to acquire BASF's global pigments business

- Sales 2018: ~€1 billion
- BASF and DIC reached an agreement on the acquisition of BASF's global pigments business
- Purchase price of €1.15 billion¹
- Closing is expected in Q4 2020²



BASF to divest its construction chemicals business

- Sales 2018: ~€2.5 billion
- Structured divestiture process and carve-out on track
- Confirmatory bids received; negotiations ongoing
- Signing expected by the end of 2019



Clear acquisition criteria

Strategic acquisition criteria

We want to acquire businesses which ...

- create more value as part of BASF's Verbund
- help achieve relevant market positions
- drive innovation or technological differentiation
- enable new and sustainable business models

Financial acquisition criteria

We want to acquire businesses which ...

- provide a return on capital employed above the WACC after full integration into BASF Group
- are EPS accretive by year three at the latest
- contribute to growth of EBITDA before special items





At a glance

Implementing BASF's Corporate Strategy

Q3 2019 Reporting

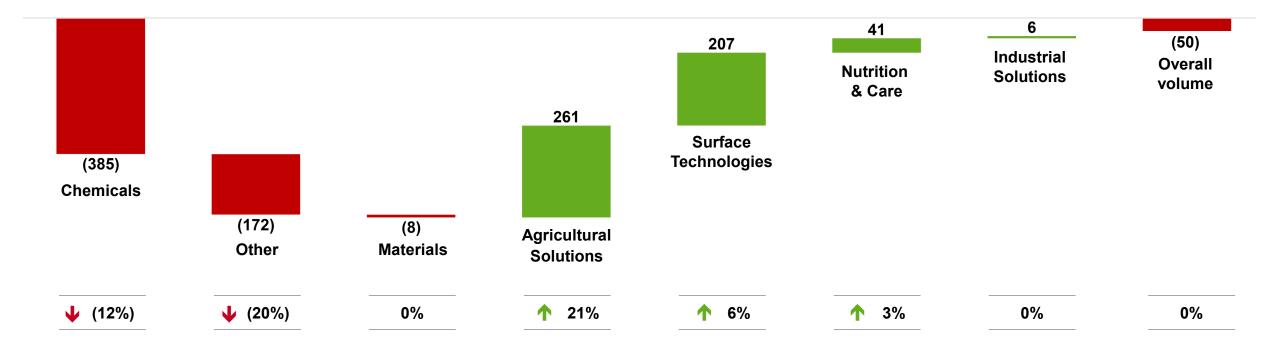
CMD Agricultural Solutions – Highlights



BASF Group Q3 2019 – Volume development

Volume development by segment Q3 2019 vs. Q3 2018

absolute (million €) terms

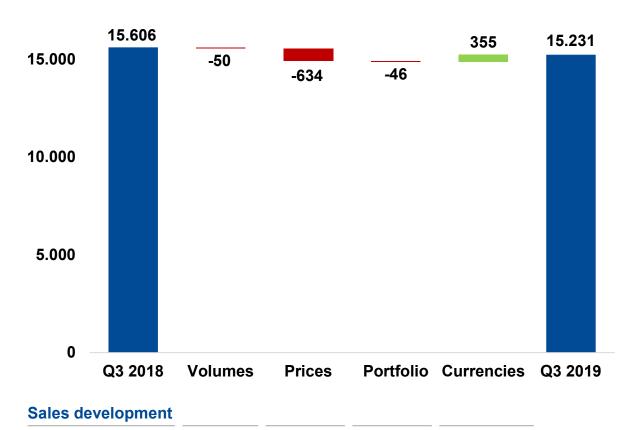


relative (%) terms



BASF Group Q3 2019 – Sales and EBIT before special items

Sales bridge Q3 2019 vs. Q3 2018 million €

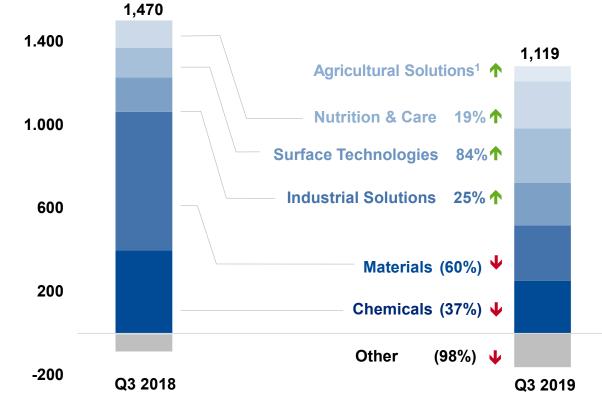


4 (4%)

0%

2%

EBIT before special items by segment Q3 2019 vs. Q3 2018 million €



0%

Q3 2019 vs. Q3 2018

BASF Group Q3 2019: Sales decreased slightly; EBIT before special items 24% below prior-year quarter

Financial figures	Q3 2019	Q3 2018	Change
	€	€	%
Sales	15,231 million	15,606 million	(2)
EBITDA before special items	2,084 million	2,263 million	(8)
EBITDA	2,339 million	2,190 million	7
EBIT before special items	1,119 million	1,470 million	(24)
EBIT	1,376 million	1,395 million	(1)
Net income	911 million	1,200 million	(24)
Reported EPS	1.0	1.31	(24)
Adjusted EPS	0.86	1.51	(43)
Cash flows from operating activities	1,998 million	2,930 million	(32)

Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	0%	4 (4%)	0%	1 2%



BASF Group Q1 – Q3 2019: Sales decreased slightly; EBIT before special items 32% below prior-year period

Financial figures	Q1 – Q3 2019	Q1 – Q3 2018	Change
	€	€	%
Sales	46,566 million	47,089 million	(1)
EBITDA before special items	6,722 million	7,985 million	(16)
EBITDA	6,754 million	7,830 million	(14)
EBIT before special items	3,896 million	5,723 million	(32)
EBIT	3,682 million	5,564 million	(34)
Net income	8,777 million	4,359 million	101
Reported EPS	9.56	4.75	101
Adjusted EPS	3.33	5.21	(36)
Cash flows from operating activities	4,317 million	6,385 million	(32)

Sales development	Volumes	Prices	Portfolio	Currencies
Q1 – Q3 2019 vs. Q1 – Q3 2018	4 (3%)	4 (3%)	1 3%	1 2%



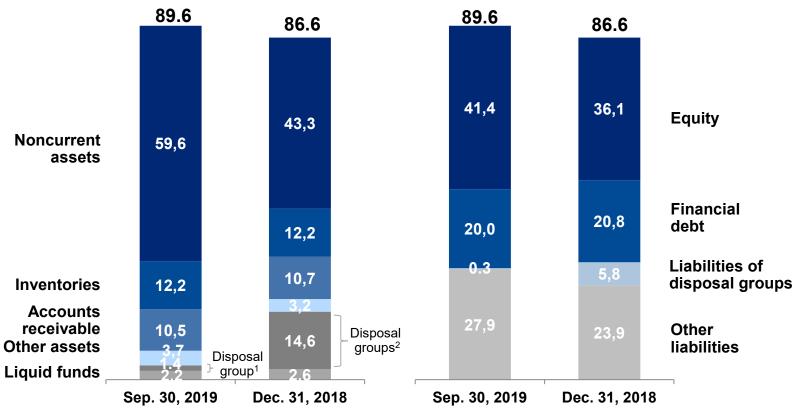
Cash flow development Q1 – Q3 2019

		Q1 – Q3 2019	Q1 – Q3 2018
		million €	million €
Cash flow	s from operating activities	4,317	6,385
Thereof	Changes in net working capital	(177)	(653)
	Miscellaneous items	(7,355)	(204)
Cash flow	s from investing activities	47	(10,036)
Thereof	Payments made for tangible / intangible assets	(2,648)	(2,428)
	Acquisitions / divestitures	2,254	(7,120)
Cash flow	s from financing activities	(4,745)	(127)
Thereof	Changes in financial and similar liabilities	(1,730)	2,926
	Dividends	(3,016)	(3,057)
Free cash	flow	1,669	3,957



Balance sheet remains strong

Balance sheet September 30, 2019 vs. December 31, 2018 billion €



- Total assets rose by €3.0 billion; more than one third of the increase was related to the new IFRS 16 standard on leases.
- Noncurrent assets increased by €16.2 billion, mainly due to the recognition of our participating interests in Wintershall Dea and Solenis
- Net debt decreased by €393 million to €17.8 billion
- The equity ratio increased from 41.7% (Dec. 31, 2018) to 46.2% (Sep. 30, 2019), mainly due to the book gain on the deconsolidation of Wintershall



Outlook 2019 for BASF Group

Outlook 2019 ¹	
Sales	Slight decline
EBIT before special items	Considerable decline of up to 30%
ROCE	Considerable decline

Underlying assumptions

- GDP growth: +2.5% (unchanged)
- Growth in industrial production: +1.5% (unchanged)
- Growth in chemical production: +1.5% (unchanged)
- Exchange rate: US\$1.15 per euro (unchanged)
- Oil price (Brent): US\$65 per barrel (previous assumption: US\$70 per barrel)

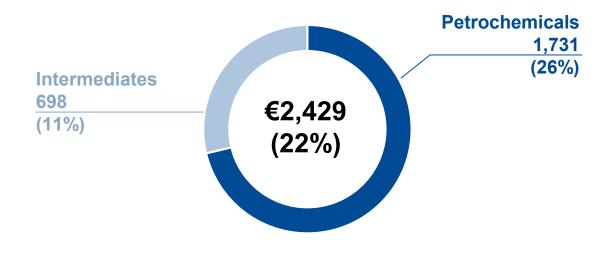




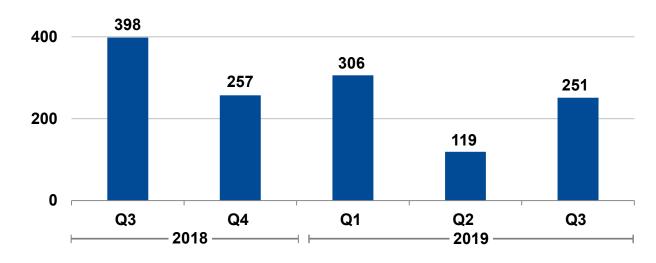
¹ For sales, "slight" represents a change of 1–5%, while "considerable" applies to changes of 6% and higher. For earnings, "slight" means a change of 1–10%, while "considerable" is used for changes of 11% and higher. At a cost of capital percentage of 10% for 2018 and 2019, we define a change in ROCE of 0.1 to 1.0 percentage points as "slight," a change of more than 1.0 percentage points as "considerable."

Chemicals

Sales Q3 2019 vs. Q3 2018 million €



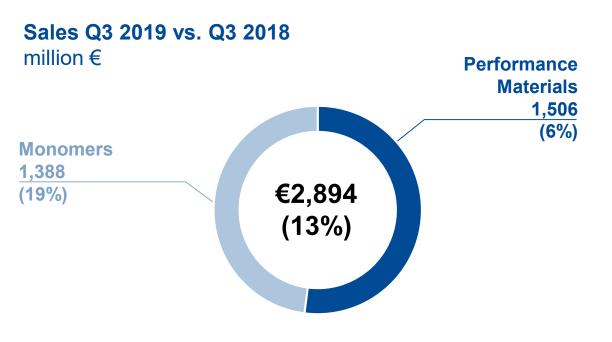




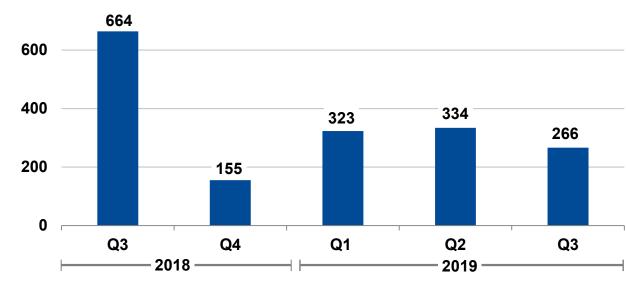
Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	↓ (12%)	• (12%)	0%	1 2%



Materials





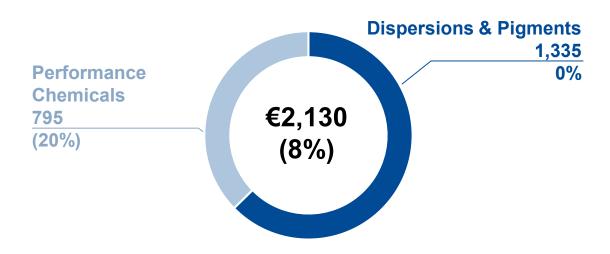


Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	0%	↓ (15%)	0%	1 2%

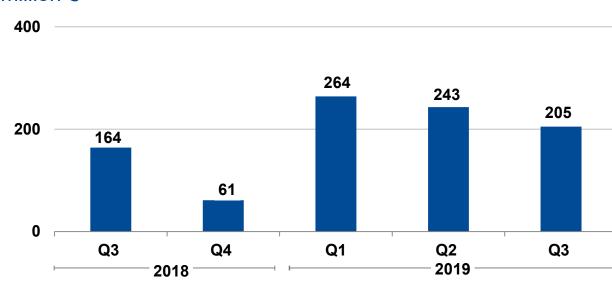


Industrial Solutions

Sales Q3 2019 vs. Q3 2018 million €





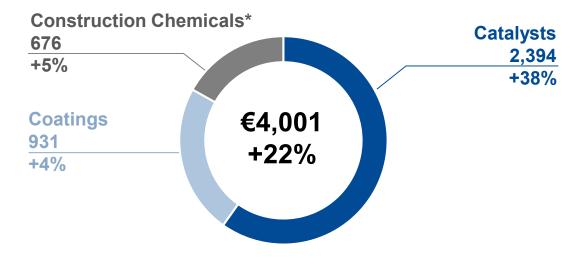


Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	0%	• (2%)	• (9%)	1 3%

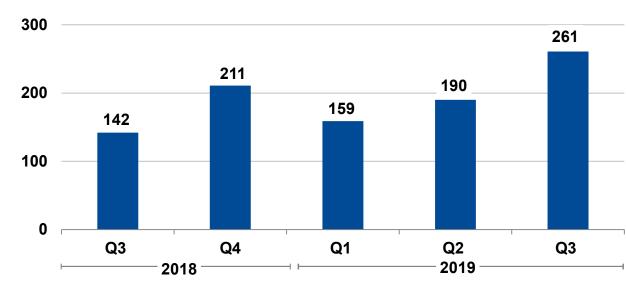


Surface Technologies

Sales Q3 2019 vs. Q3 2018 million €







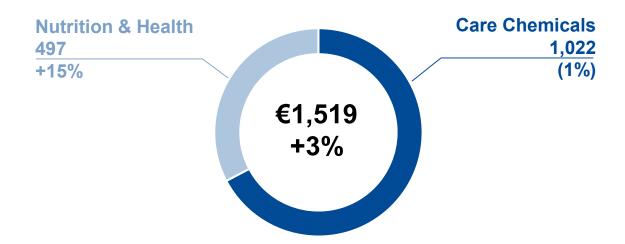
^{*} Until signing of a transaction agreement, Construction Chemicals will be reported under Surface Technologies

Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	1 6%	↑ 13%	0%	1 3%

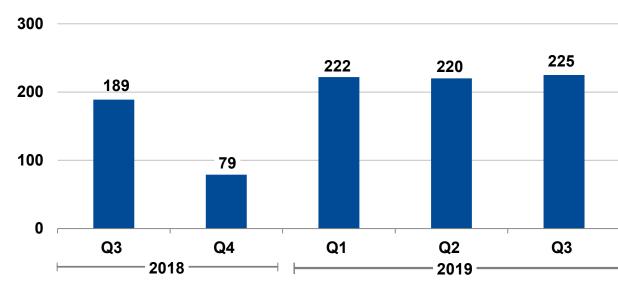


Nutrition & Care

Sales Q3 2019 vs. Q3 2018 million €



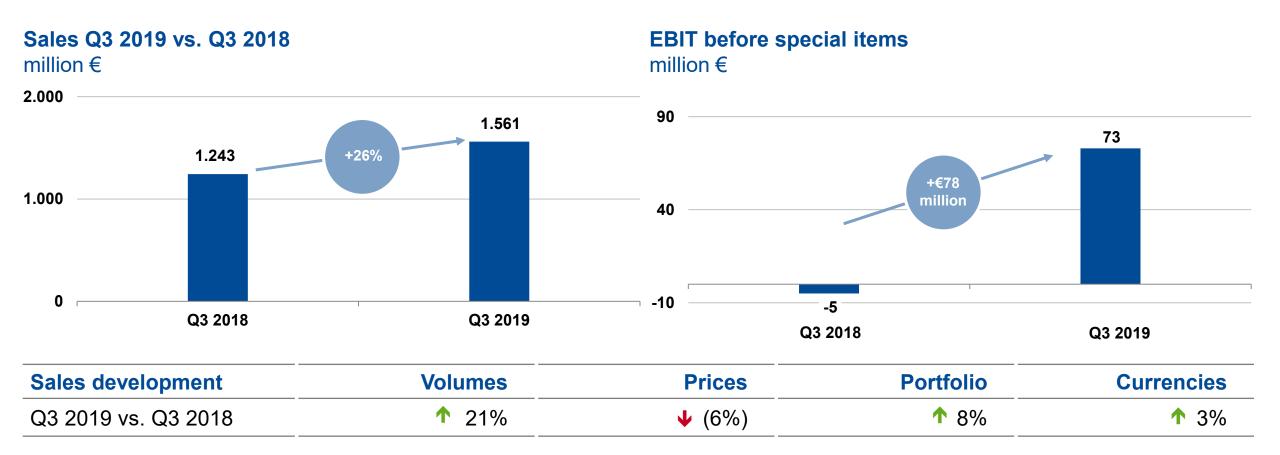




Sales development	Volumes	Prices	Portfolio	Currencies
Q3 2019 vs. Q3 2018	1 3%	↓ (2%)	0%	1 2%



Agricultural Solutions





Review of "Other"

Financial figures		Q3 2019	Q3 2018
		million €	million €
Sales		697	845
EBIT befo	re special items	(162)	(82)
Thereof	Costs of corporate research	(92)	(96)
	Costs of corporate headquarters	(57)	(64)
	Foreign currency results, hedging and other measurement effects	(15)	31
	Other businesses	61	18
Special ite	ms	331	(18)
EBIT		169	(100)





At a glance

Implementing BASF's Corporate Strategy

Q3 2019 Reporting

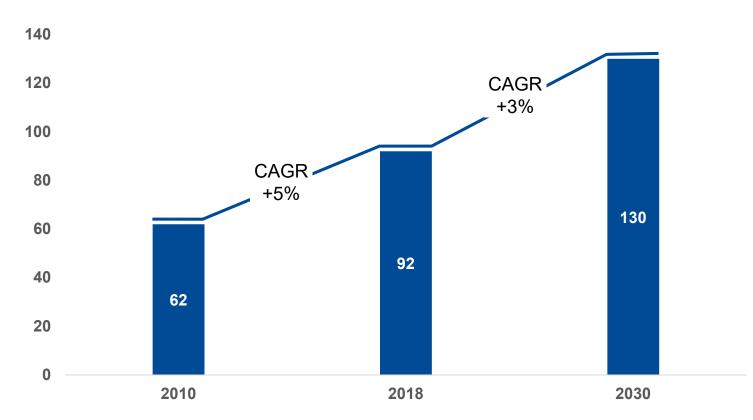
CMD Agricultural Solutions – Highlights



Agricultural solutions is an attractive market driven by increasing demand for food

Market size

billion €

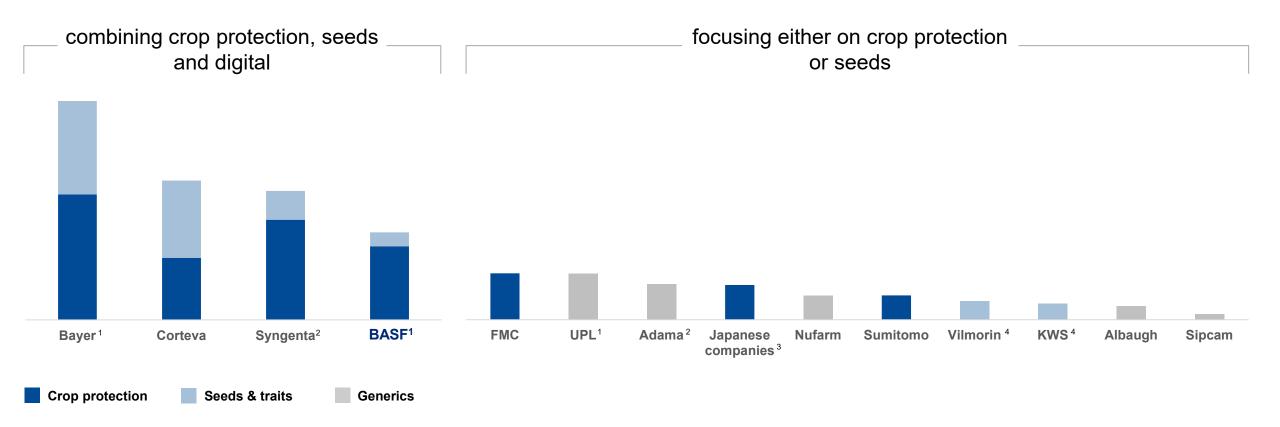


- Crop protection and seeds continue to grow
- Main drivers are increasing yields and growing technology adoption
- Lower growth in crop protection products due to higher regulatory pressure and increasing application of precision farming tools
- Digital applications market grows rapidly, potentially reaching €10 billion by 2030
- Farmers will look to combine crop protection, seeds, digital and application technologies while fulfilling societal requirements



BASF is well positioned in the group of market-leading companies

Competitive landscape, sales 2018

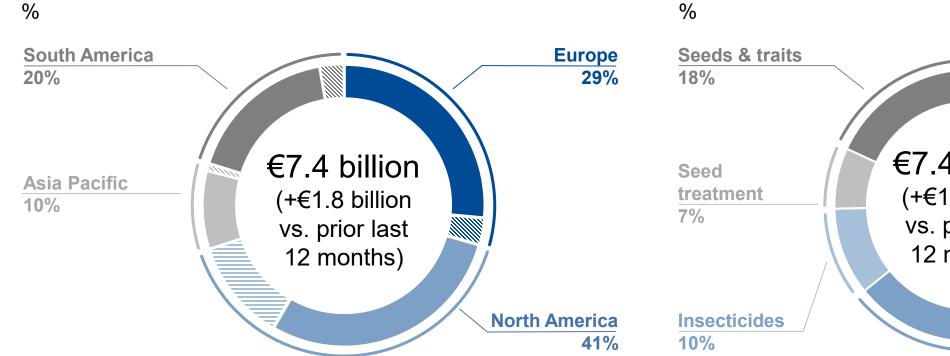


¹ Proforma sales; BASF Agricultural Solutions: legacy plus acquired business (FY) based on internal estimates ² Part of ChemChina

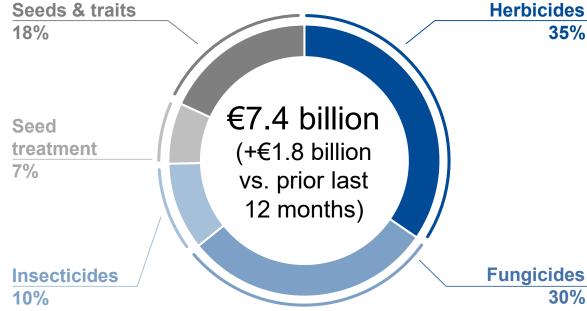


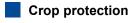
³ R&D-driven Japanese companies within TOP 30 AgChem companies and sales <€1bn; ⁴ incl. 50/50 AgReliant Genetics JV split; Source: AgbioInvestor 2018

Well-balanced portfolio with significant presence in all regions, indications and sectors







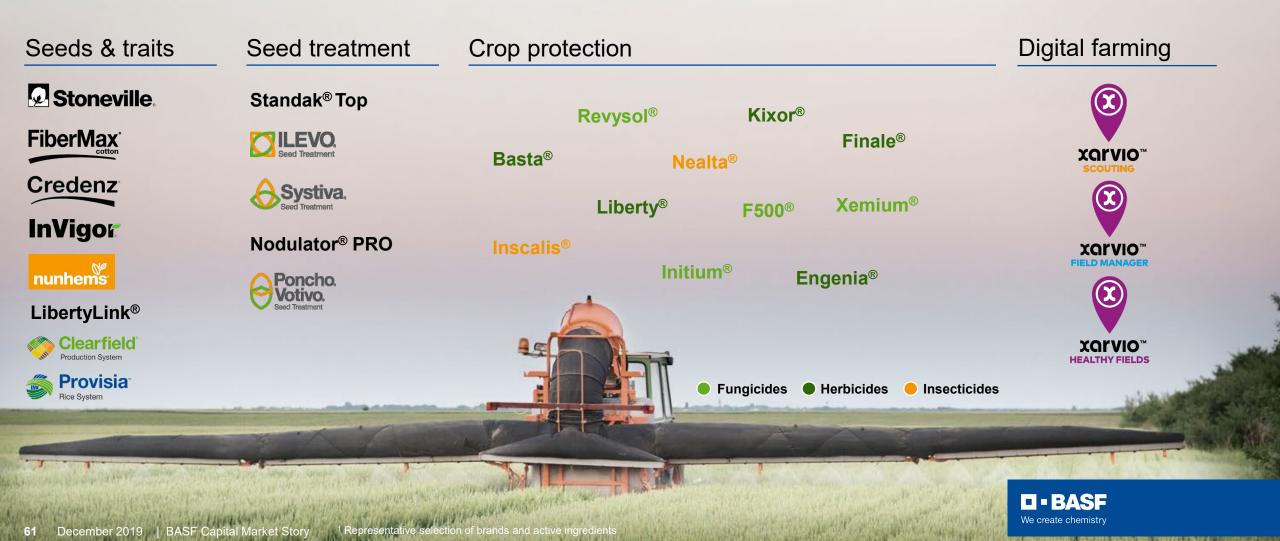


Seeds & traits



Sales by region, last 12 months¹

Following the acquisition, BASF is fully enabled to offer innovative solutions with strong brands in all indications and sectors¹



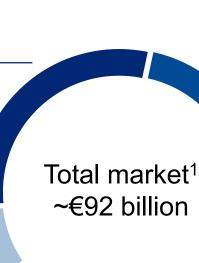
BASF Agricultural Solutions to strategically focus on four crop systems, covering ~70% of the total market



Crop system soybean - cotton - corn

30% in the Americas

BASF ambition: Strong innovator



Others

Crop system wheat - canola - sunflower

12% in Europe, North America

BASF ambition: Market leader





Crop system rice

8% in Asia

BASF ambition: Recognized

player in Asia



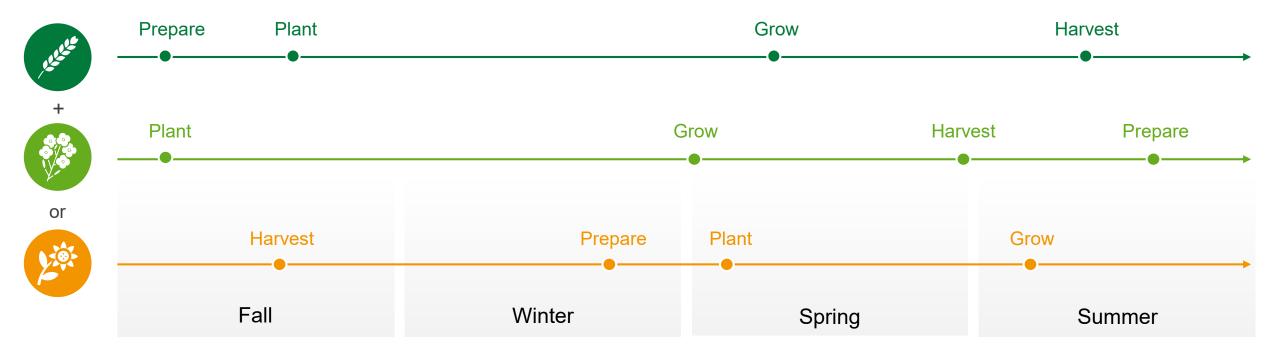
BASF ambition: Global number 3





Seasonal patterns are the basis for crop systems

Example: Wheat – canola / wheat – sunflower crop system



Crop systems enable long-term yield

- Optimize: deployment and availability of labor and machinery
- Minimize risks: climate, weed/pest pressure, price fluctuations
- Maximize: yields and profits in the combination of all crops



Crop systems approach enables BASF to support farmers in selected crops and geographies



soybean cotton corn



wheat canola sunflower



fruit and vegetables



rice

Key challenges for farmers

- Profitability and income volatility
- Pests, weeds, diseases resistant to existing technologies

- Secure farm profitability and efficient farm operations
- Address socio-political requirements, e.g., EU greening policy

- Higher quality standards from food value chain and consumers, e.g., low residues
- Capture crop value during seasonal price volatility

 Farm modernization and automation due to labor shortage or higher costs

BASF contribution

- Differentiated traits in soybean and cotton
- New active ingredients in crop protection
- Best agronomic data-based digital recommendations

- R&D pipeline in crop protection and wheat traits
- Launch hybrid wheat
- Digital tools to address farmer needs
- Customer-consumer approach for food value chain orientation in seeds
- Superior digital tools addressing farmer and food value chain requirements
- Educate farmers about BASF's offerings
- Use sustainability to promote new, innovative crop protection technologies



BASF will differentiate versus peers with four strategic levers



Customer experience



Innovation



Digital



Sustainability



Crop system example: Why Western Canadian canola and wheat farmers choose BASF

High yields

- Top yielding seeds
- Competitiveness in the global grains market
- Quality and strict grading standards

Seasonal challenges

- Safeguard yield
- Risk management
- Establish strong, healthy crop
- Control difficult/resistant diseases, weeds and pests
- Maintain crop quality

BASF's connected offer to keep market leadership...

InVigor[®] hybrid canola Hybrid wheat (in future) xarvio[™] FIELD MANAGER xarvio[™] SCOUTING

Heat® herbicide
Tirexor® herbicide
Nexicor® fungicide
Caramba® fungicide
Broflanilide insecticide

Heat® LQ
CleanFARMS®
Sustainability in Practice
Pod Shatter
Reduction technology

... integrated into the farmers' operations and practices driven by their crop system

Wide range growing conditions

- Agronomic decision support
- Application optimization

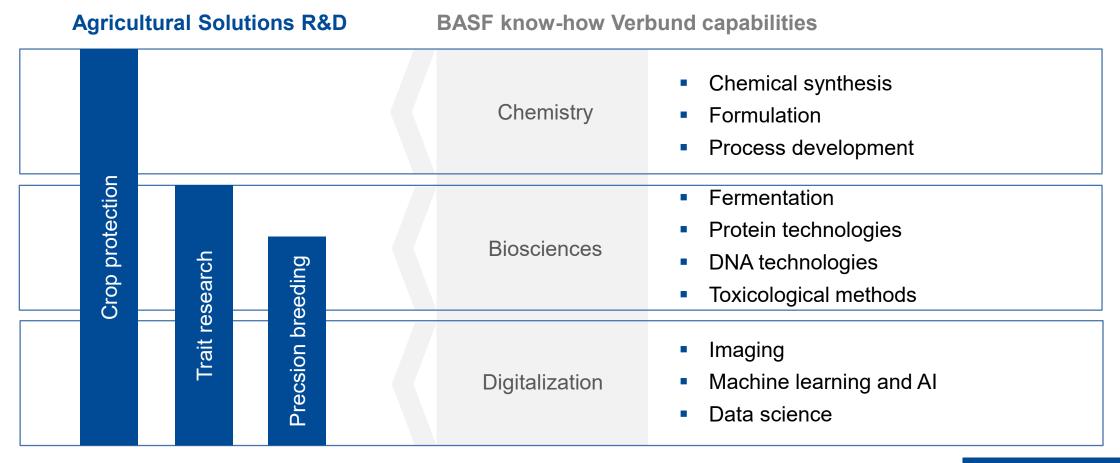
Shifting the way of farming

- Greater harvest flexibility, manage workload during busy harvest season
- Tighter rotations
- High-performing production practices
- Sustainability and environmental protection





Leveraging the BASF know-how Verbund gives a competitive advantage in Agricultural Solutions





Strong pipeline with peak sales potential of >€6 billion¹ (1/2)

	Crops	In launch	Development (2020 – 2025)	Advanced research (launch after 2025)	Early research
		Engenia [®]	Tirexor®	•	•
	Soybean Cotton Corn	Revysol [®]	Pavecto [®]	•	•
		Inscalis®	Broflanilide	•	•
			Two in development		
			Pavecto® seed treatment		•
			Teraxxa™		
		LibertyLink®GT27™	Herbicide tolerance trait	•	•
		xarvio™ SCOUTING	xarvio [™] SCOUTING		
		xarvio™ FIELD MANAGER	xarvio™ FIELD MANAGER		
			xarvio™ HEALTHY FIELDS		
		Provisia [™] herbicide	Luximo®		•
		Revysol®			•
		Inscalis [®]	One in development		•
	Rice				•
		Provisia™ rice trait system			•
		xarvio™ SCOUTING	xarvio™ SCOUTING		
			xarvio™ FIELD MANAGER		

Herbicide Fungicide Insecticide Seed treatment Seeds & traits Digital

^{■ •} BASF
We create chemistry

Strong pipeline with peak sales potential of >€6 billion¹ (2/2)

	Crops	In launch	Development (2020 – 2025)	Advanced research (launch after 2025)	Early research
	Wheat Canola Sunflower	Revysol [®]	Luximo [®] , Tirexor [®]	•	•
			Pavecto [®]	•	•
			Broflanilide		•
			One in development		I I I
		Relenya™	Pavecto® seed treatment		
			Teraxxa™		
		InVigor® podshatter reduction	Hybrid wheat		•
		InVigor® clubroot	LibertyLink® yellow canola		I I I
			PUFA		
		xarvio™ SCOUTING	xarvio™ SCOUTING		
		xarvio™ FIELD MANAGER	xarvio™ FIELD MANAGER		
			xarvio™ HEALTHY FIELDS		
	Fruit and vegetables		Tirexor®	•	•
		Revysol [®]	Pavecto [®]	•	
		Inscalis®	Broflanilide; one in development	•	
			Pavecto® seed treatment		
			Teraxxa™		
		Vegetable seeds innovations	Vegetable seeds innovations		•
		xarvio™ SCOUTING	xarvio™ SCOUTING		I I I
			xarvio™ FIELD MANAGER		

Herbicide Fungicide Insecticide Seed treatment Seeds & traits Digital



Investments into digital products support growth in crop protection and seeds, new income streams will be established

Smartening crop protection and seeds

- Digitally enabled product launches
- Stewardship (e.g., Engenia[®] tool)
- Digitally enabled sales force









Enhanced digital market access

- Establish data relationships with growers and channel partners
- 1.2 million users today in >100 countries





New digital business models

- xarvio™ SCOUTING
- xarvio[™] FIELD MANAGER
- xarvio[™] HEALTHY FIELDS (launch 2020)

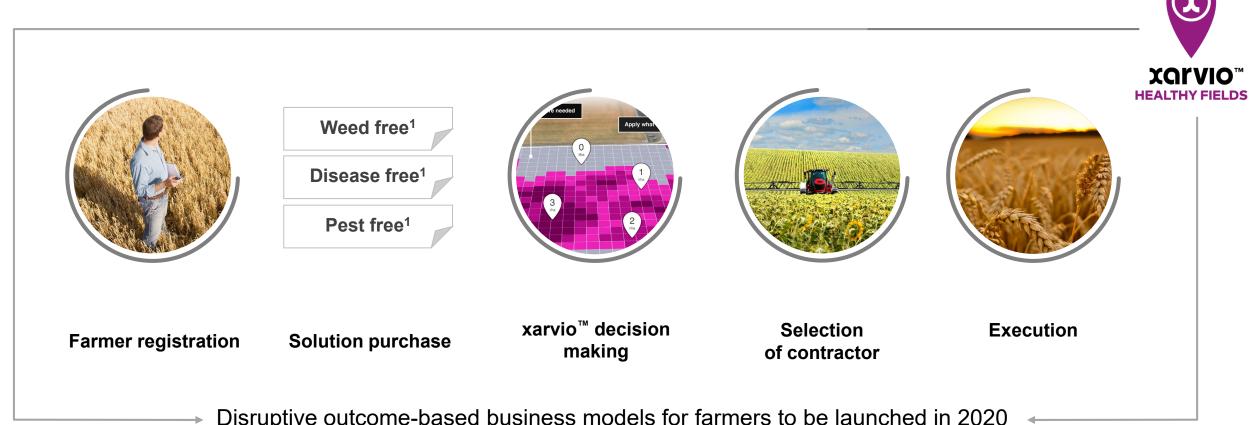








Combination of unique agronomic system with high-resolution plant protection allows for disruptive business models



Disruptive outcome-based business models for farmers to be launched in 2020



Smart Stewardship: Digital farming technologies will contribute to sustainability in agriculture



Use of digital technologies for targeted applications



Ensure good agricultural practices



Consider current environmental conditions



Online documentation and transparency of application

Example: Buffer zone tool

- Automatic mapping and consideration of no-spray buffer zones to sensitive areas (e.g., water bodies)
- Automated control of spraying equipment (e.g., avoiding vulnerable areas)
- Responsible application of crop protection products



Sustainable Solution Steering: Accelerator product examples in Agricultural Solutions



Revystar®
Revysol®-based fungicide



Best foundation for farmer income and optimized farm management

- Satisfies the highest approval standards
- Essential tool for resistance management
- Outstanding biological performance

Biological seed treatment system

- Improves root nodulation for more nitrogen-fixation potential
- Improved root architecture and nutrient uptake
- Greater plant rigor and optimized yield



Burndown herbicide in key row crops

- Lower use rates
- Very effectively controlling resistant weeds
- Increased yield and resource efficiency



Achievement of defined milestones will drive strong performance during the next decade



Key measures

- Implement crop systems approach
- Launch eight crop protection active ingredients
- Launch new soybean trait platform
- Launch hybrid wheat (by mid 2020s)



- Enable existing business with digital tools
- Establish data relationships with customers
- Introduce and grow outcome-based digital business models



- Introduce Revysol®based products with excellent sustainability profile
- Connect digital tools and crop protection to improve sustainability



- Meet evolving customer needs based on continuous dialogue
- Provide winning offers based on results of systematic use of CRM and customer feedback tools



- Mid triple-digit million euro sales synergies to be realized by 2025
- Efficiency program started in 2019, to contribute ~€200 million by 2022



Agricultural Solutions contributes strongly to achieving BASF Group's targets

BASF targets

Grow sales volumes faster than global chemical production every year

Increase EBITDA before special items by 3% to 5% per year Achieve a return on capital employed (ROCE) considerably above the cost of capital percentage every year

Achieve €22 billion in Accelerator sales by 2025

Grow CO₂-neutrally until 2030

Contribution of Agricultural Solutions

- Grow one percentage point above market to increase market share
- Increase sales by 50% by 2030
- Grow EBITDA before special items by on average 5% per year
- Restore EBITDA before special items margin level of ~23% within next years with high R&D intensity
- ROCE currently impacted by asset step up after acquisition
- Restore ROCE above the cost of capital percentage
- R&D pipeline with peak sales potential of >€6 billion¹
- Accelerators account for approximately half of the R&D pipeline
- CO₂-optimized production processes
- Offer solutions to reduce CO₂-emissions in agricultural production



We create chemistry