

Science for a Better Life

A Global Leader in Health & Nutrition

**Investment Case** 

October 2021 / Bayer AG





# Cautionary Statements Regarding Forward-Looking Information

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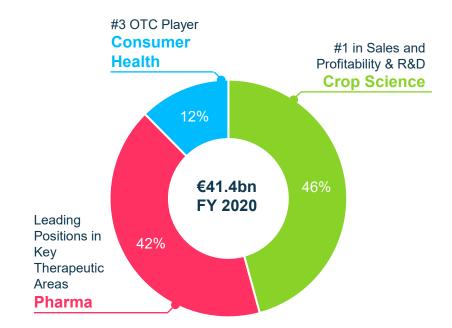


# Bayer: A Global Leader in Health and Nutrition

Well Positioned to Create Value in Growing Markets using Science to Address Societal Megatrends

# **Market Size Crop Science** ~€100bn<sup>1</sup> **Pharmaceuticals** ~€1,000bn<sup>2</sup> **Consumer Health** ~€150bn<sup>3</sup>

#### **Bayer Group Sales**



<sup>1</sup>Source: Company Estimates <sup>2</sup>Source: IQVIA MIDAS MAT Q3-20 <sup>3</sup>Source: Nicholas Hall & Company DB6



### Global Megatrends in Health & Nutrition

Attractive Macro Drivers of Our Strategy and Underpin the Need for Innovation

**Pharma/Consumer Health Crop Science Growing Population Aging Population Pressure on Ecosystems** People 60+ +2.2bn +50% -20% more than people<sup>1</sup> -17% doubling<sup>1</sup> more food and feed 2016 2050 Harvest losses from required to meet growing demand<sup>2</sup> climate change<sup>3</sup> Significant loss in >20% of total population<sup>1</sup> arable land per capita4 Preserve and Secure sufficient Use natural resources more efficiently and responsibly restore health supply of quality food

Societal

Needs

through

2050

Megatrends

Our Mission

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"

<sup>&</sup>lt;sup>4</sup> 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



### Leadership and Innovation Set the Course for Our Future Growth

#### **Key Growth Drivers**



Long-term megatrend tailwinds are propelling growing demand in the Life Sciences



Number one position in Ag inputs and leading positions in key Pharma and Consumer categories



World-class innovation: technological breakthroughs driven by the bio-revolution



Accelerated transformation and further efficiency gains in our operations



Focus on sustainability to create new value

#### **Crop Science Innovation Pipeline**

Annual R&D Investment:

**€2.0**bn

Key Current Launch Products:







Key Mid-/Late-Stage Pipeline Opportunities:

**Short Stature** Corn

SmartStax PRO

Soybean **Herbicide Trait** Stack with

Five-

Fox Supra (Indiflin®)1

**Tolerances** 

#### Annual R&D Investment:

**€2.7**bn

#### Key Current Launch Products:









Key Mid-/Late-Stage Pipeline Opportunities:

#### Finerenone

**Pharmaceuticals Innovation Pipeline** 

- Non-diabetic CKD
- Heart Failure

#### Factor XI(a) portfolio

Thrombo-embolic diseases

#### Elinzanetant (KaNDy NT-814)

Vasomotor symptoms during menopause

#### **P2X3 Receptor Antagonist**

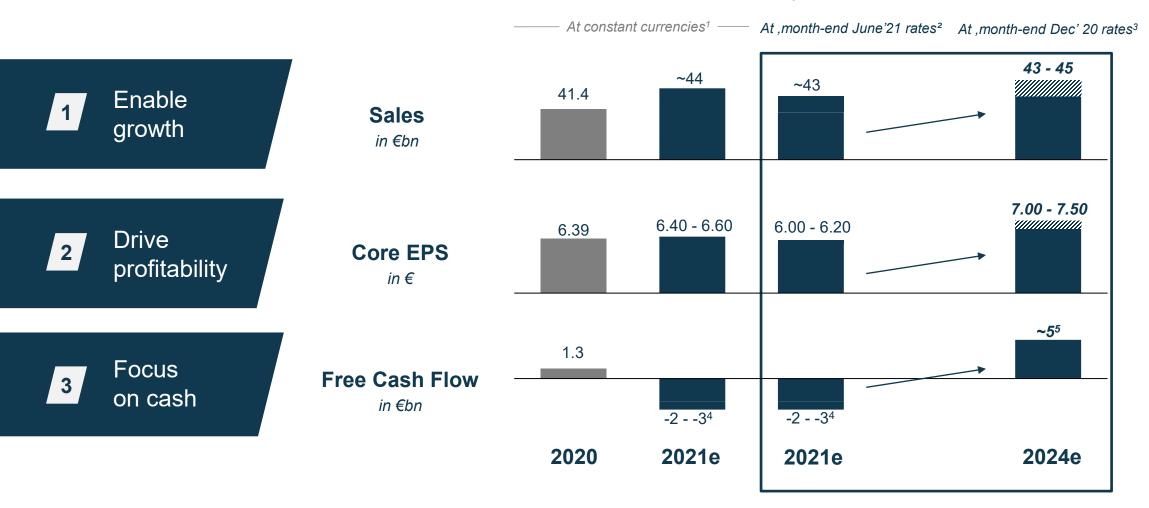
Multi-indication opportunity

Note: Subject to regulatory approvals and pending registrations. Represents a subset of the pipeline. <sup>1</sup> In collaboration with Sumitomo



### Profitable Growth Expected in the Mid-Term

Anticipate €43-45bn Sales and €5bn in Annual Free Cash Flow by 2024 for the Group



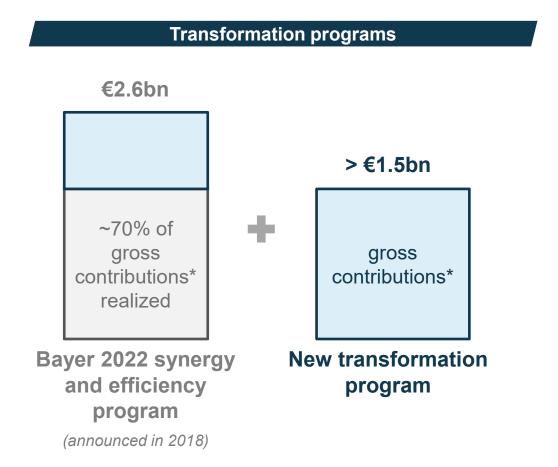
<sup>&</sup>lt;sup>1</sup> Reflects our 2021 plan at the average actual currencies for 2020; Acquisition of Vividion Therapeutics not included <sup>2</sup> Currency assumptions based on month-end June 2021 spot rates (1 EUR=) 1.19 USD, 5.90 BRL, 7.69 CNY, 131 JPY, 24.4 MXN, 86.8 RUB <sup>3</sup> Currency assumptions based on month-end December spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 7.98 CNY, 126 JPY, 24.4 MXN, 91.5 RUB

<sup>&</sup>lt;sup>4</sup> Settlement payouts of ~€7bn included <sup>5</sup> Settlement payouts and special items of ~€1bn included



# New Transformation Program with Gross Contributions of >€1.5bn

Expect Partial Reinvestment to Drive New Opportunities; Remainder to Drive Margin Expansion



#### **Delivery**

- Implementation of Bayer 2022 ahead of plan
- We accelerate our transformation to become leaner and more agile
  - Divisions and Enabling Functions
  - Improving our go-to-market models
  - Strengthening our digital and data capabilities
  - Structural measures and optimization of external spend
- Going forward, we will keep you updated and jointly implement and track both programs

<sup>\*</sup> Gross contributions will be partially re-invested to fuel growth and are included in our guidance for 2021-24 Note: One-time costs in same magnitude as for Bayer 2022 (1.7x the total contribution)



### Focus on Cash Generation Now Embedded in Incentive Plans

Improvements Expected from Sales Growth, Working Capital & Divestments; Litigation Pay-outs and One-Time Costs for Transformation Mitigating Factors



#### **Improve Free Cash Flow**

Optimize **working capital** focusing on overdue management, inventory and payables; prioritizing **CapEx** 



#### **Adapt incentive scheme**

Free Cash Flow integrated as a key performance metric in our **short-term incentive** plan for all managerial employees



#### **Capital Employed / Divestments**

Optimization of **fixed asset** portfolio, for example sale of property

Sale of businesses / brands below division level (e.g. ES professional)



#### Litigation pay-outs & special items

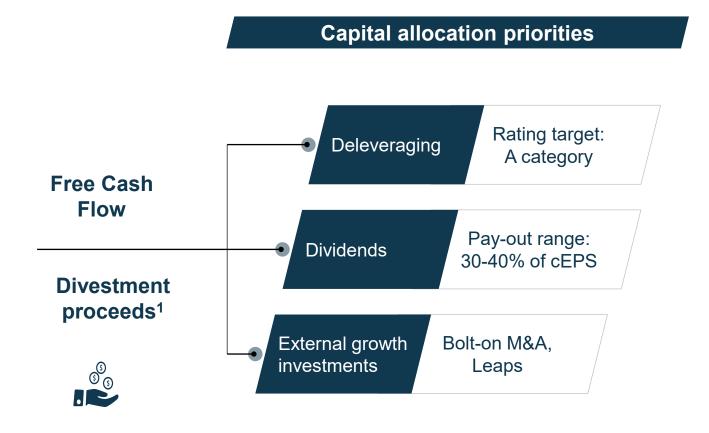
Our Free Cash Flow is impacted by **litigation** pay-outs and cash-effective **one-time costs** for transformation

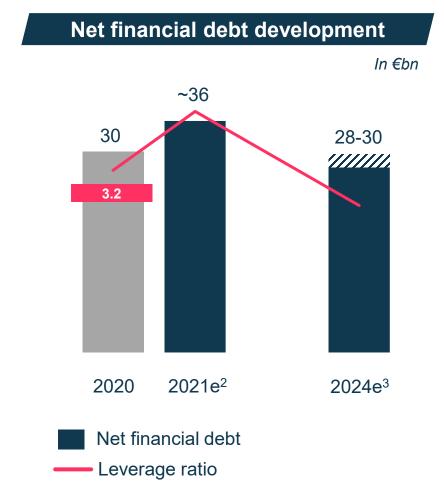
ES: Environmental Science



# Disciplined Capital Allocation to Delever, Pay Dividends and Invest

Expect Net Debt to Increase in 2021 with Planned Settlements and Return to €28-30bn by 2024





<sup>&</sup>lt;sup>1</sup> From non-strategic divestments below divisional level and sale of other fixed assets <sup>2</sup> Currency assumptions based on month-end June 2021 spot rates (1 EUR=) 1.19 USD, 5.90 BRL, 7.69 CNY, 131 JPY, 24.4 MXN, 86.8 RUB <sup>3</sup> Currency assumptions based on month-end December spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 7.98 CNY, 126 JPY, 24.4 MXN, 91.5 RUB

<sup>=</sup> Indicates corridor between high- and low case



# Ambitious Measurable Targets for Sustainable Development

2030 Targets in Line with UN SDGs and Our Vision; *Health for All, Hunger for None* 

Help more PEOPLE thrive: Drive growth in underserved regions



Support 100m<sup>1</sup> smallholder farmers in LMIC<sup>2</sup>



Provide 100m<sup>1</sup> women in LMIC with access to modern contraception



Expand access to self-care for 100m<sup>1</sup> people in underserved<sup>3</sup> communities



Decrease ECOLOGICAL footprint: Drive growth through sustainable resource use



Climate neutrality at own sites + reduced emissions in our supply chain

- // 42%<sup>1</sup> reduction target for Scope 1 & 2<sup>4</sup>
- // 12.3%¹ reduction target for Scope 3⁴
- + Net Zero emission target until 2050 in line with long term goal of Paris Agreement (Scope 1, 2 & 3)<sup>4</sup>

Established a Sustainability Council comprised of highly renowned experts to provide advice and review progress on sustainable business strategy and social innovation in consultation with our CEO and Boards

<sup>&</sup>lt;sup>1</sup> LMIC: low and middle income countries - All countries included in the World Bank list as per 1 July 2019.

<sup>&</sup>lt;sup>2</sup> Baseline(2019). Numbers reflect people; preliminary figures; pending external audit: ~42m smallholder farmers; ~38m women; ~41m people; 3.7m tCO<sub>2</sub>e for Scope 1&2; 10m tCO<sub>3</sub>e for Scope 3.

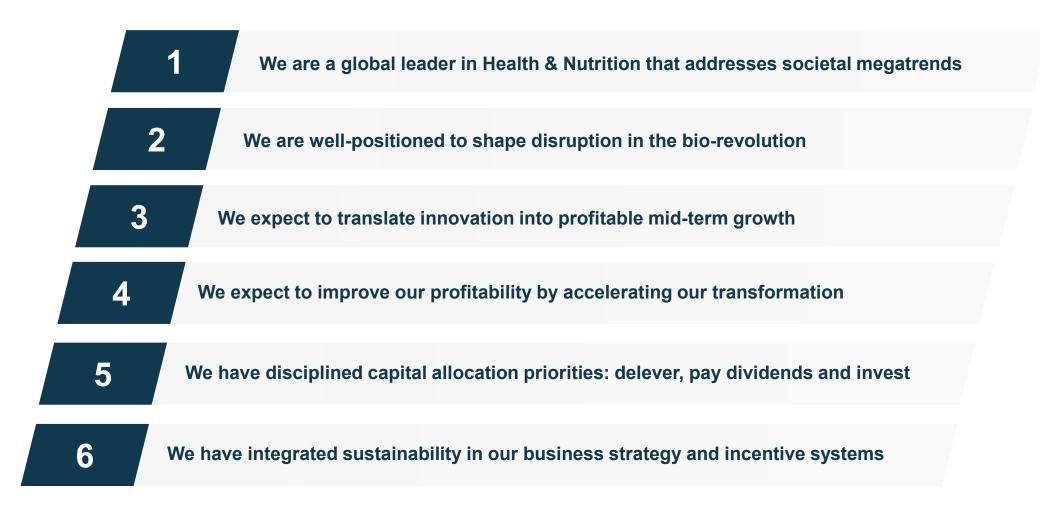
<sup>&</sup>lt;sup>3</sup> Underserved: Economically or medically.

<sup>&</sup>lt;sup>4</sup> Scope 1: emissions from own operations; Scope 2: emissions from purchased energy; Scope 3: emissions along the value chain



#### **Investment Thesis**

#### Key Takeaways





Science for a Better Life

Shaping the Future of Agriculture

**Investment Case** 

October 2021 / Bayer AG





# Shaping the Future of Agriculture

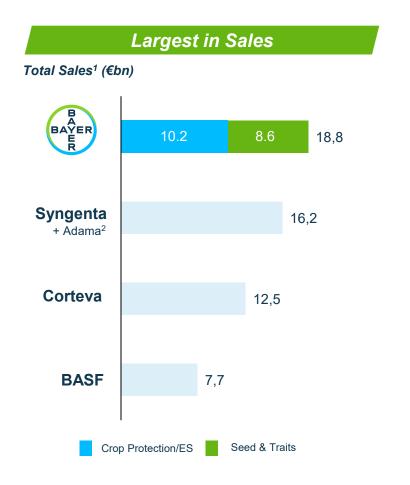
- 1 Market & Position
- 2 Strategy
- 3 Operational Performance
- 4 World-Class Innovation

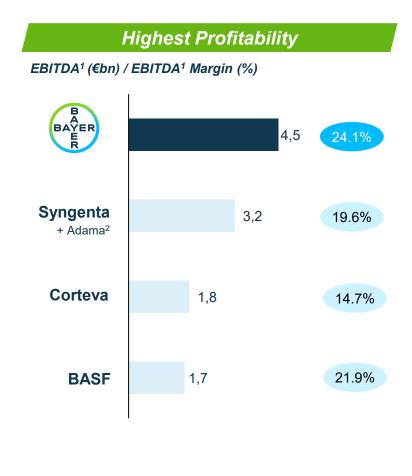
- 5 Digital Transformation
- 6 New Standards in Sustainability
- 7 Financial Targets



### The Established Leader in Crop Science

Industry Leading Sales, Profitability and Unmatched Investment in R&D to Fund Future Growth



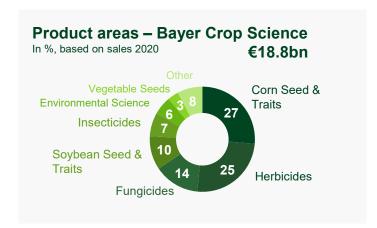


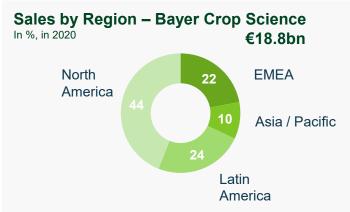
<sup>&</sup>lt;sup>1</sup> Company information; exchange rate: FY 2020: ~1.14 USD/EUR. EBITDA before special items. FY2020 sales

<sup>&</sup>lt;sup>2</sup> Represents the legacy Syngenta results plus Adama



### Global #1 in Seed & Traits with Leading Crop Protection Portfolio











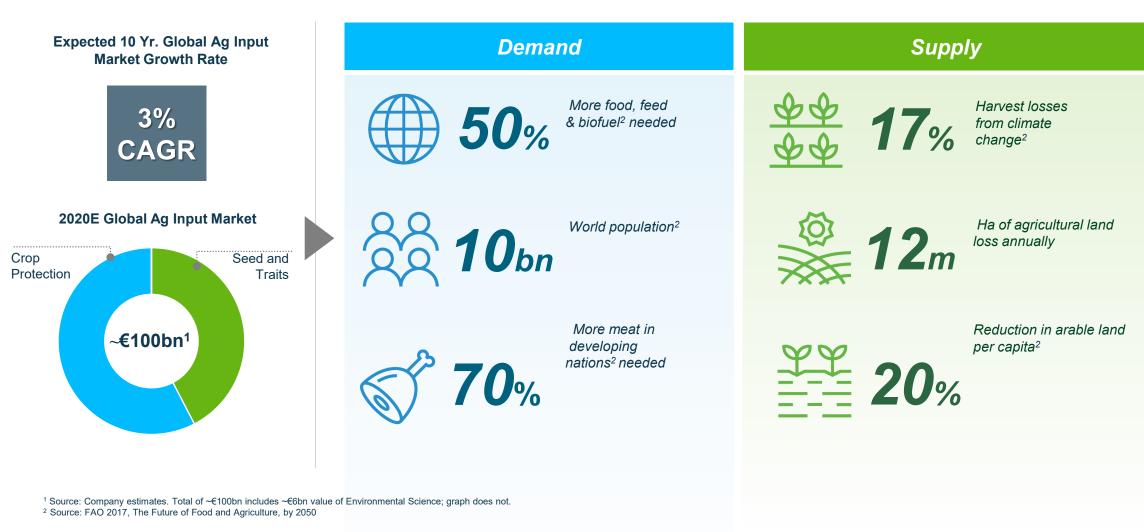


<sup>&</sup>lt;sup>1</sup> Source: Company estimates. Market positions based on 2019 data.



### Megatrends Drive Market Growth and Need for Innovation

Ag Market Remains Attractive with Expected ~3% CAGR¹ to 2030



<sup>///</sup> Bayer AG /// Investment Case /// October 2021



### Four Core Pillars Anchor our Vision to Shape Agriculture

Plan to Out-Perform the Market and Expand Leadership in Innovation, Digital and Sustainability





### A Clear Plan to Accelerate Growth and Outperform the Market

		2021:	Transition		2022-2024:	Acceleration	ı
		Sales Growth <sup>1</sup> ~ 7%	EBITDA Margin² ~23%		Sales Growth <sup>1</sup> 3% to 5%	EBITDA Margin <sup>3</sup> 27% to 29%	2024e
	1	Deliver growth in	crop protection sales	through new pro	oducts, integrated	d offerings	
	2 0	Grow corn seed &	traits with annual por	tfolio refresh and	I new insect traits	6	
3	Up	ograde the Americ	as to next-gen soybe	an trait technolog	gy		
4	Imple	ement new vegeta	able seeds strategy ar	nd launch new tra	aits in cotton to d	Irive growth	
5	Achieve	planned 2022 syı	nergies in 2021; acce	elerate with new	efficiency prograr	m until 2024	

<sup>1</sup> Common or and nortfolio adjustes

<sup>&</sup>lt;sup>2</sup> Before special items. Currency assumptions based on month-end June 2021 spot rates (1 EUR=) 1.19 USD, 5.90 BRL, 7.69 CNY, 131 JPY, 24.4 MXN, 86.8 RUB <sup>3</sup> Currency assumptions based on month-end December spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 8.00 CNY, 127 JPY, 24.4 MXN, 91.9 RUB



### Innovation, Integrated Offerings Drive Crop Protection Growth



<sup>&</sup>lt;sup>1</sup> Company estimates, currency and portfolio adjusted.



# Deploying New Corn Hybrids and Traits to Grow Sales

Expect 3-4%<sup>1</sup> Sales CAGR 2020-'24 in Corn Seed & Traits

#### **Mid-Term Key Growth Drivers in Corn**

Deploying >150 new hybrids annually around the globe to grow leading germplasm share in corn key growing regions.



United States #1 Market Pos.

Market Size: ~93m acres

Germplasm Share: >55%

Mexico#1Market Pos.Market Size:~20m acresGermplasm Share:>65%²

Brazil #1 Market Pos.

Market Size: ~52m acres

Germplasm Share¹: ~30%

Argentina #1 Market Pos.

Market Size: ~20m acres

Germplasm Share: ~60%²

Europe #2 Market Pos.

Market Size³: ~60m acres

Germplasm Share: ~20%

South Africa #1 Market Pos.

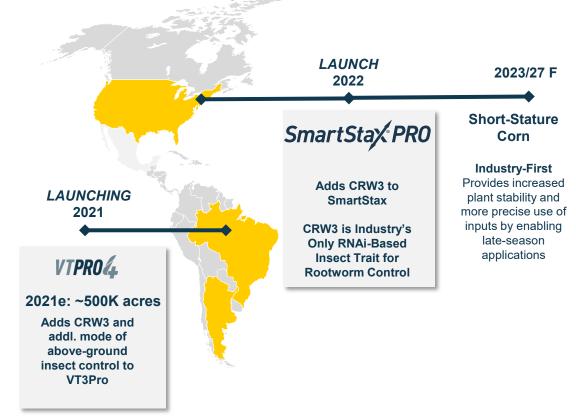
Market Size: ~6m acres

Germplasm Share: >70%

Note: Size of market, market position and germplasm share measured as of 2021.

<sup>1</sup>Currency and portfolio adjusted <sup>2</sup> In hybrid corn market only <sup>3</sup>Eu27 +UK, Russia and Ukraine

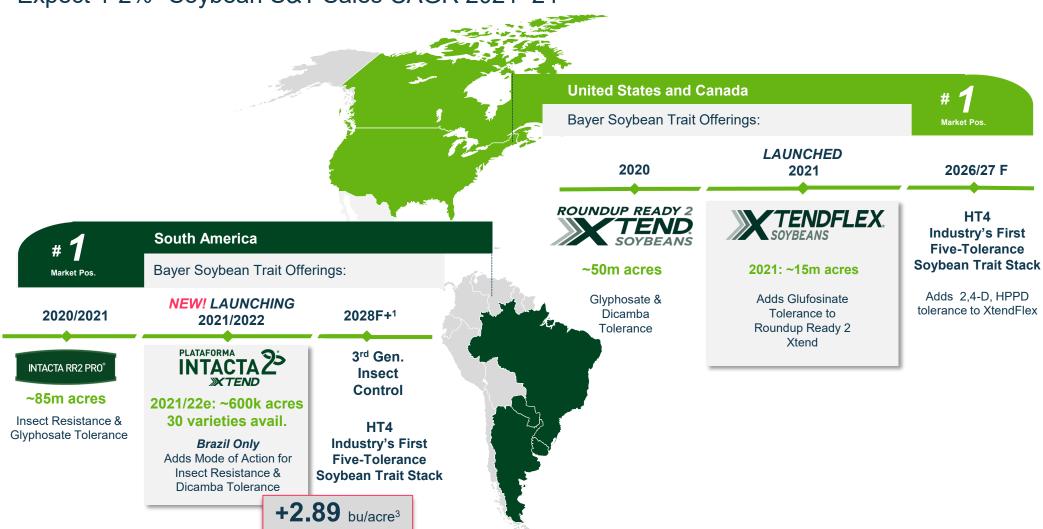
Launching CRW3 as a part of VTPro4 and SmartStax Pro stacked offerings in the near-term; game-changing short-stature corn expected launch in the mid-term in the U.S. and Brazil.





# Upgrading the Americas to Next-Gen Soybean Trait Technology

Expect 1-2%<sup>2</sup> Soybean S&T Sales CAGR 2021-'24



<sup>&</sup>lt;sup>1</sup> Launch timing reflects Brazil

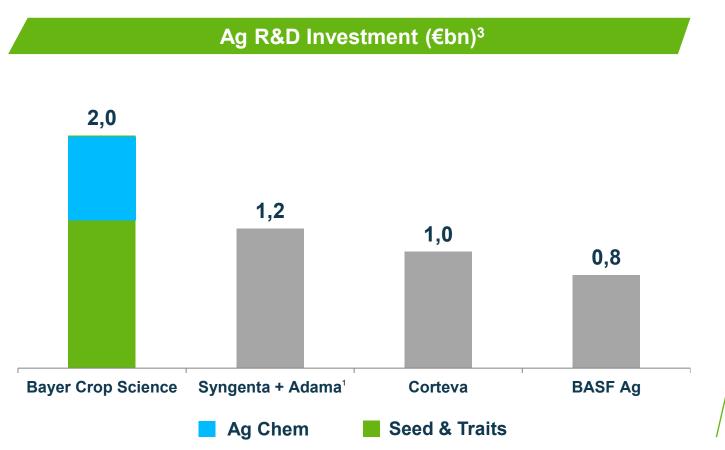
<sup>&</sup>lt;sup>2</sup>Currency and portfolio adjusted

<sup>&</sup>lt;sup>3</sup> Compared to similar varieties in checks across 500 locations in 2020/2021 crop year /// Baver AG /// Investment Case /// October 2021



# R&D Investment Powers Industry-Leading Portfolio

Shaping the Future of Agriculture with Sector's Most Productive Innovation Platform



#1 R&D Platform in Crop Science



Fueled by ~7,100 R&D
 employees<sup>2</sup> in >50 countries

<sup>1</sup> Represents the legacy Syngenta results plus Adama. Excludes non-agro business sales of ADAMA (nutritional supplements, aromatic products, industrial products). Syngenta Group formal reporting did not begin until H1 2020.

Includes permanent and temporary employees

<sup>&</sup>lt;sup>3</sup> Company information; exchange rate: FY 2019: ~1.14 USD/EUR. 2020 Reported results for all companies except Syngenta = 2019 reported results. Bayer R&D excludes impairment charges.



# Unmatched Innovation Pipeline is Set to Drive Growth

Total Pipeline Peak Sales Potential up to €30bn²; ~50% Incremental

	Corn S&T	Soybean S&T	Herbicides	Fungicides	Insecticides	Other, Vegetable Seeds, Environmental Science
Peak Sales Potential	~€10-11bn	~€4-5bn	~€3bn	~€3bn	~€2bn	~€5-6bn
Expected Ongoing Refreshment	150+ New Hybrids Commercialized Annually	150+ New Varieties Commercialized Annually	35+ New Formulation Launches in the next Decade	20+ New Formulation Launches in the next Decade	20+ New Formulation Launches in the next Decade	~130 Vegetable Hybrids/Varieties Commercialized Annually  20+ New Formulation Launches in the next Decade
ches <b>2024</b>	SmartStax PRO	TENDFLEX	INCELO°	<b>DELARO</b> Complete	Plenexos (Spidoxamat)	Thryvon"
-aunch	VTPRO4	INTACTA 25	<b>M</b> ateno <sup>°</sup>	iblon ໍ່ປ່າ(Isoflucypram)	Belt Smart	Carbon Business Model
Product Launches   <b>2021 – 2024</b>	Short Stature Corn Hybrids			Fox Supra (Indiflin®) <sup>1</sup> <b>Xivana</b> (Fluoxapiprolin) <sup>3</sup>		
Select Planned P 2025 – 2030	Short Stature Corn Trait	Soybean Herbicide Trait Stack with Five- Tolerances	New Non-Selective PPO Herbicide <sup>1</sup>	New Fungicide for Asian Soybean Rust <sup>3</sup>	Decis Phoenix	4 <sup>th</sup> Generation Bollgard Cotton Trait
Select F 2025 –	Next Generation Herbicide Tolerance Traits	3 <sup>rd</sup> Gen. Soybean Insect-Control Trait	New Mode of Action Herbicide		Novel Mite Solution	Dicamba-Tolerant Canola Trait
		nding registrations. Represents a subset of the estimate <sup>3</sup> . Products not registered in all jurisc				



### Short-Stature Corn Offers Transformational Shift in Production

Anticipated Fit on >220m Acres Enabled by Three Development Approaches

#### Field Plots Around the Globe Demonstrate Key Features and Benefits of Short-Stature Corn



#### **Game-Changing Innovation**

- Unparalleled production stability with improved standability in high winds and challenging weather conditions
- Annual yield losses due to stalk lodging in the U.S. range from 5% to 25%<sup>1</sup>



#### **Digitally Optimized System**

- Extended in-season crop access due to shorter height
- Supports tailored solutions with precise inseason crop protection



#### **More Sustainable Future**

- Potential to optimize use of key nutrients like nitrogen, as well as reducing land and water requirements
- Opportunity to plant at higher densities, as evidenced in Vitala commercial beta in Mexico

















# Digital Platform is Core To Driving Growth

Enabler of Tailored Solutions and New Business Models

1 Expand Industry-Leading Platform

NEW >180m subscribed acres in 2020

- #1 brand in digital ag
- Operates in 23 countries



- Largest database of grower and field trial seed performance data in industry
- >70 partners on platform

2 Unlock
Growth from
New Digital
Business
Models

# Tailored Solutions

NEW Showcasing portfolio strength; increased corn seed volume purchases from U.S. FieldView Plus users, compared to non-users, '18 to '20

- Predicting seed & chemistry performance
- Partnering on outcomes

# Carbon Farming

 Translating unique knowledge of on-farm practice into carbon credits

#### Smallholder Access

 Scalable, end-to-end smallholder support through value-chain partnerships & common data foundation



Envision 100% of 2030 Sales Enabled by Digital Enhancements and Increasingly Based on Partnered Outcomes



# Setting the Standard for Sustainability and Biodiversity in Agriculture

Bayer's 2030 Sustainability Commitments

Advancing a carbon-zero future for agriculture

**30**% Reduction of field greenhouse gas emitted per kg of crops produced

- Climate-smart practices:
  - Highly Productive Crops No-tillage
- Cover Crops Precision Agriculture
- Optimize use of synthetic fertilizers through the use of microbes



Produce higher-yielding crops with fewer natural resources and inputs

**30**%

**Reduction in Crop** Protection impact on the environment

Climate FieldView for precision application of crop protection



Resistant traits help to reduce INTACTA 25 crop protection use



Develop and promote crop protection solutions with lower environmental impact

**Empower 100 million** smallholder farmers to access sustainable Ag solutions

Smallholders benefit from access to products, services and partnerships

Enhancing social innovation (e.g. with Better Life Farming)



Digital transformation with **FarmRise** 



Introduce new, higher-yielding, resource efficient rice hybrids





### **Crop Science Mid-Term Targets**

A Clear Plan to Outperform the Market and Expand Industry-Leading Profitability

	Sales / Sales Growth			
	— Actual — 2020	— <i>сра</i> —— 2021е*	At month-end Dec. 20 rates <sup>2</sup> 2022-'24e	
Crop Science	€18.8bn	~ 7%	3% to 5%	

	EBITDA Margin (before special items)			
			At month end June 20 rates <sup>1</sup>	At month-end Dec. 20 rates <sup>2</sup>
		2020	2021e	2024e
Crop Science		24.1%	~ 23%	27% to 29%

<sup>\*</sup>As updated in August 2021 cpa: currency and portfolio adjusted

	Divisional Drivers					
	CAGR cpa 2020-'24 <sup>3</sup>	Sal	'es:			
	3-4%	•	<b>Herbicides</b> : Xtendimax with VaporGrip Xtra recovery, Bayer Plus and other integrated offerings, pricing			
	6-7%	•	Fungicides and Insecticides: New products like Fox Xpro, iblon, Luna and Vayego, integrated offerings			
	3-4%	•	Corn S&T: New hybrids, VTPro4 and SmartStax PRO traits			
	1-2%	•	<b>Soybean S&amp;T</b> : Transition in 2021, then grow thereafter with trait upgrades in the Americas			
	4-5%	•	Vegetable Seeds: New hybrids/varieties			
_	1-2%	•	Other: ThryvOn Technology, U.S.and Brazil cotton, offset by loss of TSA sales to BASF			

#### cEBITDA:

 Pricing lift from innovation and FX recovery in Brazil, augmented by new cost efficiency program; assumes Dec. 20 currency rates throughout plan.

<sup>&</sup>lt;sup>1</sup>Currency assumptions based on month-end June 2021 spot rates (1 EUR=) 1.19 USD, 5.90 BRL, 7.69 CNY, 131 JPY, 24.4 MXN, 86.8 RUB

<sup>&</sup>lt;sup>2</sup> Currency assumptions based on month-end December spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 7.98 CNY, 126 JPY, 24.4 MXN, 91.5 RUB

<sup>&</sup>lt;sup>3</sup> CAGR from 2020 base year.



Science for a Better Life

Transforming Pharma to Deliver Sustainable Long-term Growth

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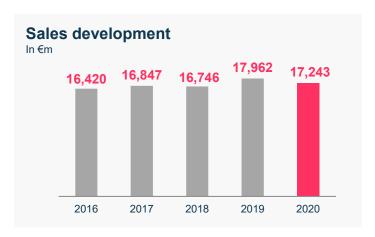
# Transforming Pharma to Deliver Sustainable Long-Term Growth

- 1 Market & Position
- 2 Strategy
- 3 Growth Drivers

- 4 Innovation
- 5 Sustainability
- 6 Financial Targets

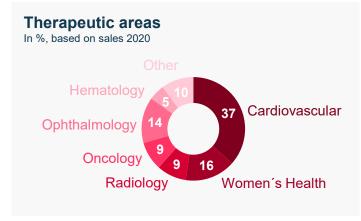


### Pharma: Focused on Therapeutic Areas with High Unmet Needs











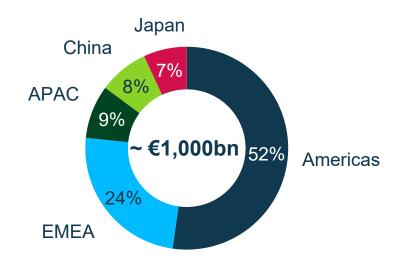




# We are Operating in a Rapidly Changing but Attractive Market Environment Driven by Megatrends and the Bio Revolution

#### **Pharma Market**

#### Market Size 2020<sup>1</sup>



#### Market CAGR 2020-24e<sup>2</sup>



#### **Market Dynamics**

#### **Opportunities**

- Aging and growing population megatrends
- Rising life expectancy and increased access to healthcare systems
- Accelerated digital transformation across the value chain
- Technological disruption by breakthrough science
- Shift from treatment to prevention and potential cure

#### **Challenges**

- Pressure on pricing
- Declining R&D productivity
- Increased pressure for value and real-world evidence

<sup>&</sup>lt;sup>1</sup> Source: IQVIA MIDAS MAT Q3-20

<sup>&</sup>lt;sup>2</sup> Source: IQVIA Market Prognosis as of September 2020



### The Transformation of Pharma is Underway



Management team focused on improving existing structures and processes



Realize full potential of products and pipeline to mitigate LoE impact and return to growth



Re-allocate resources and shape financial profile to post LoE future



Capitalize and build on investments in breakthrough innovation, espec. C&GT



Challenge strategic direction of R&D - enhance focus on external innovation



### Our Transformation is Guided by Five Strategic Focus Areas

#### **Strategic Focus Areas**

Portfolio and Pipeline



**Digital Health** 



Cell & Gene Therapy



Oncology



China & US

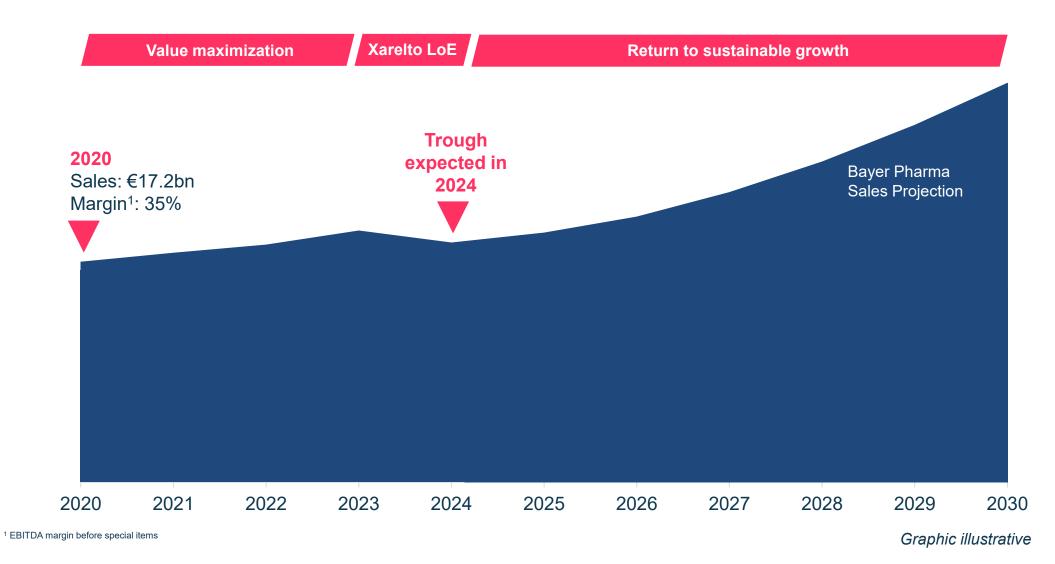


#### **Key Priorities**

- Maximize the value of the current portfolio and manage the loss of exclusivity for Xarelto & Eylea
- Deliver three new potential blockbusters from late-stage pipeline
- Build digital health solutions and capitalize on Cell & Gene therapy platform
- Build an at scale player in oncology in our areas of focus
- Evolve regional strategies in China and the US to sustain future growth



# Bayer's Long-Term Sales Projection Reveals Limited LoE Impact and Return to Sustainable Long-term Growth





### We Laid The Foundation for Long-term Growth at Pharma

Main Building Blocks of Post LoE Growth

Late-stage Pipeline in CV & WH





Elinzanetant

(KaNDy NT-814)

PSP ≥ €1.0bn

**PSP ~ €0.5bn** 

PSP ≥ €1.0bn

**Oncology** 



PSP ≥ €1bn



PSP > €0.75bn

**Pipeline** 

eg. EGFRexon20 inhib., ATR inhib., TTCs

Cell & Gene Therapy Platform

C&GT platform expected to deliver significant sales contributions from ~2025 onwards





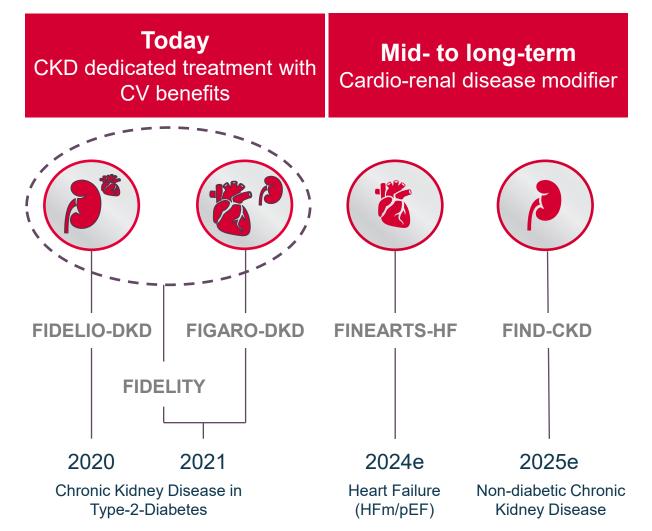
External Innovation and BD&L

>25 BD&L-transactions signed in 2020 Enhanced focus on external innovation to replenish pipeline

 <sup>&</sup>lt;sup>1</sup> In collaboration with Merck & Co. Inc., Kenilworth, NJ, USA
 <sup>2</sup> In collaboration with Orion Corporation
 PSP = Peak Sales Potential



# Kerendia may Become a Foundational Cardio-renal Disease Modifier with a Strong Scientific and Clinical Base



- Chronic Kidney Disease in Type-2-Diabetes
  - 160 mio patients
  - Shortens life expectancy by 16 years
  - #1 cause for dialysis / transplants
- Keredia provides kidney and heart protection for patients along the disease continuum in CKD and T2D
- New drug class on top of existing treatment paradigm
- Launched in the US
- Life-cycle management expanding into heart failure (HFm/pEF) and non-diabetic CKD



# Global Roll-out of Launch-Products Underway



### Darolutamide (AR-Antagonist)<sup>1</sup>

- Launched in nmCRPC global rollout underway
- Differentiated clinical profile 31%
   OS benefit & favourable safety profile (ARAMIS)
- Prim. completion of phase III trial in mHSPC with chemo in 2021e (ARASENS)
- New phase III trial in mHSPC without chemo (ARANOTE)
- Peak sales potential ≥€1bn



### **Larotrectinib (TRK-inhibitor)**

- First and only selective TRK inhibitor
- Tumor agnostic label unprecedented clincial benefit in 17 tumor types
- High overall response rate across adults (71%) and pediatric (92%) patients
- CNS efficacy demonstrated
- Peak sales potential >€750m



### **Vericiguat (sGC-stimulator)**<sup>2</sup>

- Launched in the US for the treatment of chronic heart failure (HFrEF)
- Absolute risk reduction of 4.2 per 100 patient years for the primary endpoint demonstrated in pivotal VICTORIA trial
- Submitted for marketing authorization in multiple countries worldwide.
- Peak sales potential ~€500m (as reported by Bayer)

<sup>&</sup>lt;sup>1</sup> In collaboration with Orion Corporation

<sup>&</sup>lt;sup>2</sup> In collaboration with Merck & Co. Inc., Kenilworth, NJ, USA



# We are Targeting to Significantly Expand our Presence in Select Areas of Oncology where One Blockbuster can Build a Franchise

### Key elements to achieve our growth aspiration



Key sales contributors, graphic illustrative

- Realize blockbuster potential of NUBEQA
- Expand prostate franchise with NUBEQA and Xofigo
- Continue to execute launch of VITRAKVI
- Expand into IO-combo opportunities with Stivarga
- Accelerate early pipeline projects
- Seek external growth opportunities through BD&L
- Continue to invest in next generation disruptive technologies



# Highlighting Late-/Mid-stage Pipeline Opportunities and Scientifically Appealing Early R&D Assets

### Late-/Mid-Stage Opportunities<sup>1</sup>



#### **Finerenone**

- Non-diabetic CKD
- Heart Failure



### Factor XI(a) portfolio

Thrombo-embolic diseases



### Elinzanetant (KaNDy NT-814)

Vasomotor symptoms during menopause



### **P2X3 Receptor Antagonist**

Multi-indication opportunity

### Scientifically Appealing Early Assets<sup>1</sup>



### **Precision Molecular Oncology**

- EGFRex20 inhibitor
- ATR inhibitor



### **Targeted Alpha Therapies**

Thorium conjugates



### **CAR T-Cell Immuno-oncology**

Collaboration with Atara Biotherapeutics



### **Gene Therapy**

AskBio AAV gene augmentation platform



### **Cell Therapy**

BlueRock iPSC technology platform

<sup>&</sup>lt;sup>1</sup> selected examples



# External Innovation to Accelerate Replenishment of Pipeline and Broaden Modalities

Selected High-Level Overview

### **Momentum Significantly Increased**

### >25 Transactions signed in 2020

- Deals covering the entire spectrum from equity investments (with LEAPS), over licensing agreements to acquisitions
- Active portfolio management taking internal assets outside (eg. Vincera Pharma)

### **Strategic Focus**

- Venturing into new modalities (Cell & Gene Therapy)
- Broadening the Oncology pipeline (eg. Systems Oncology, Atara)
- Commercial partnerships in China (eg. Hua Medicine)
- Deals in the Digital Space (eg. R&D: Schroedinger, Exscientia, Recursion; Commercial: OneDrop)
- Continued augmentation of core therapeutic areas: (WHC: KaNDy Therapeutics)
- Strengthening the Cardiovascular pipeline (Curadev, Broad Institute)



# Our Cell & Gene Therapy Strategy Builds on Four Integrated Platforms to Drive the Next Wave of Innovation at Pharma

### **Gene Augmentation**



- Industry-leading AAV vector gene augmentation platform
- Monogenic & pathway diseases
- CDMO business (Viralgen) already generates revenues

### **Stem Cells**



- Creating induced pluripotent stem cells (iPSC) with broad differentiation
- Create an entirely new generation of cellular medicines
- Ph 1 for lead program in Parkinson's disease

### **Allogeneic Cell Therapy**

# Collaboration with Atara Biotherapeutics

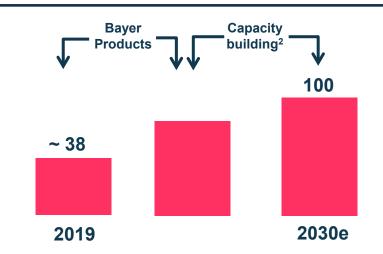
- Next-generation, mesothelin-directed CAR T-cell therapies
- Focus on potential allogeneic, "off the shelf" tumor therapies

Gene Editing as cross-functional enabling technology



## Sustainability is Fully Embedded in our Strategy

Providing 100m women in LMIC¹ with access to modern contraception



Implementing patient affordability programs around the world

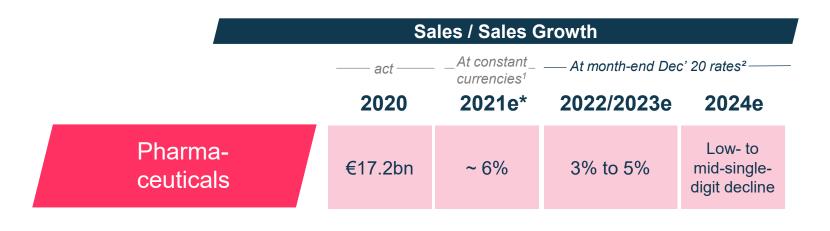
We aim to broaden access to our pharmaceutical products to 100m people in low- and middle-income countries

- "Health for All Hunger for None" are core to our raison d'être at Pharma
- Measurable targets linked to incentive scheme
- Adopting an equitable pricing approach that incorporates country-level affordability.
- Focus on LMIC as priority in terms of pricing flexibility and patient affordability program implementation.

Numbers reflect women using modern contraception (millions) <sup>1</sup> LMIC: low and middle income countries <sup>2</sup> Capacity building refers to the development of knowledge, skills, commitment, structures, systems and leadership to enable and strengthen self-reliance and resilience of the local health systems and of the key players towards family planning and sexual reproductive health. We aim to do leverage partnerships to create impact at scale.



# Mid-term Targets for Pharma Reflect Limited Impact from the LoE for Xarelto



#### 

#### **Divisional Drivers**

- Top-line trough due to Xarelto LoE expected in 2024 - returning to growth thereafter
- New launches (eg. Nubeqa, Verquvo, Finerenone) to drive growth

- Continued focus on tight expense control
- Investing in new launches

cpa: currency and portfolio adjusted

<sup>\*</sup> As updated in August 2021

<sup>1</sup> Reflects our 2021 plan at the average actual currencies for 2020 2 Currency assumptions based on month-end December spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 7.98 CNY, 126 JPY, 24.4 MXN, 91.5 RUB



Science for a Better Life

Winning in Consumer Health

**Investment Case** 

October 2021 / Bayer AG



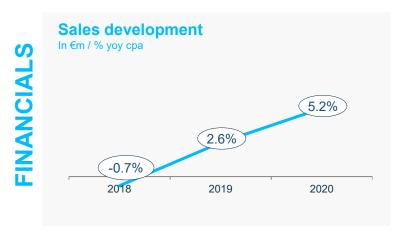


# Winning in Consumer Health

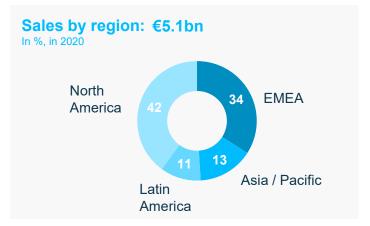
- 1 Market & Position
- 2 Strategy
- 3 Sustainability
- 4 Financial Targets

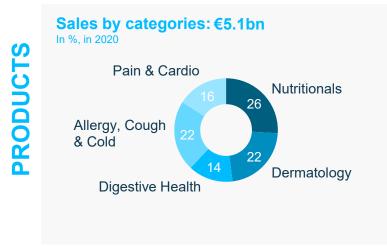


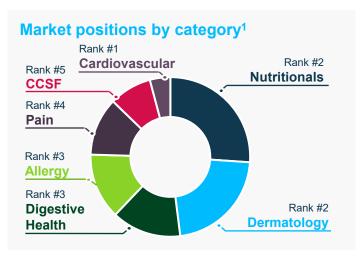
## Consumer Health: A Leading Global OTC Player











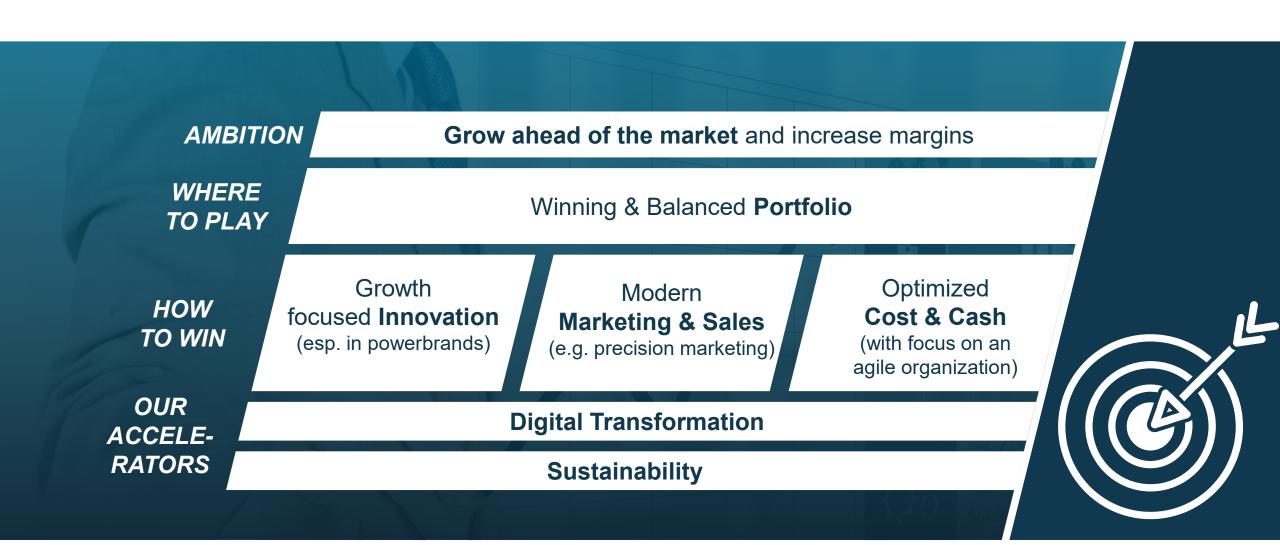


<sup>&</sup>lt;sup>1</sup> Nicholas Hall & Company DB6 October 2020



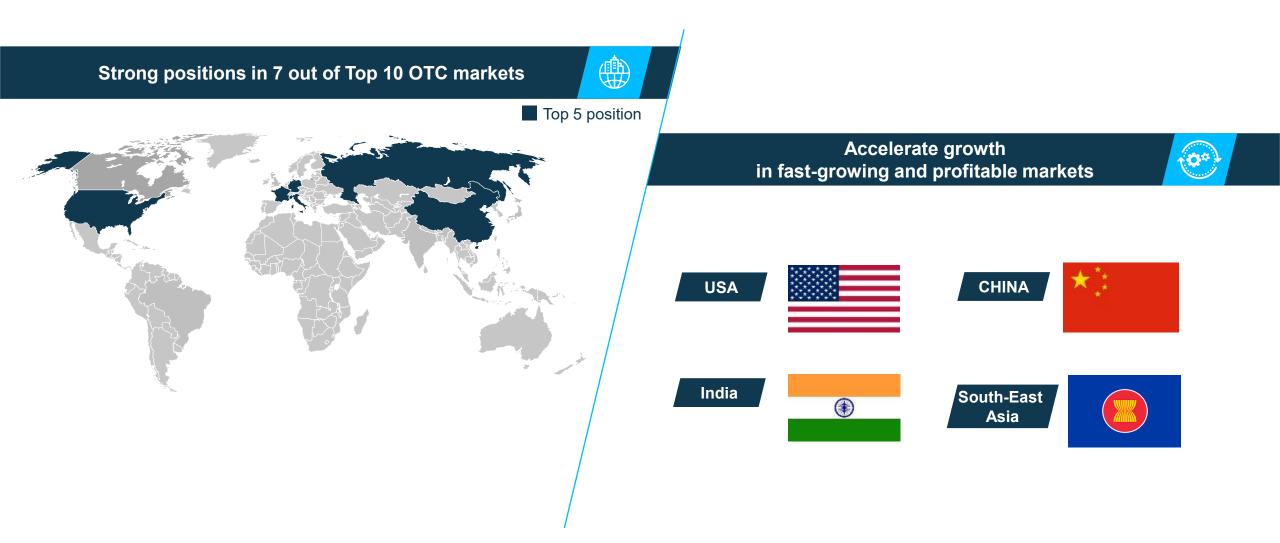


### A Multifaceted Plan to Drive Further Growth





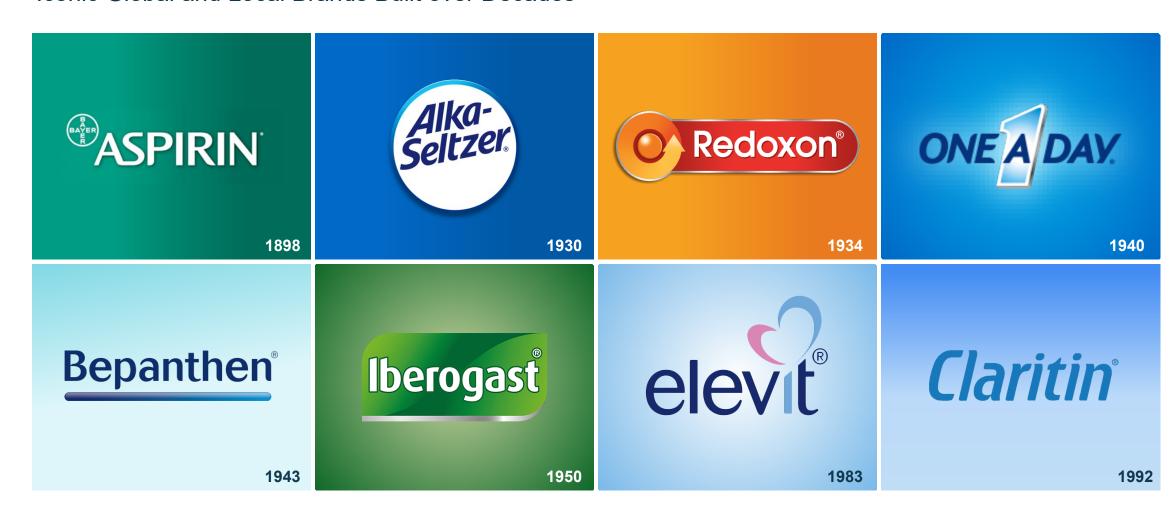
# Driving Disproportionate Growth in Attractive Segments and Markets





## Accelerating Growth from Innovation

Iconic Global and Local Brands Built over Decades





## Modernizing Our Brand Building and Sales Capabilities

Brands with Purpose









From Mass to Precision Marketing



% Precision marketing<sup>1</sup>

**25%** 2018

**50%** 

2020

80%

2024 - Ambition

Accelerating E-commerce



% Net Sales<sup>2</sup>

**3%** 2018

**7%** 

2020

15%+

2024 - Ambition

<sup>&</sup>lt;sup>1</sup> Percentage of digital media which is data-driven precision marketing

<sup>&</sup>lt;sup>2</sup> Percentage of net sales which is through e-commerce channels



## Taking Bold Steps on Sustainability

**2030 Goal** 

**Expand access to everyday health for 100 million underserved consumers** 



### **Societal**



### **Environmental**

### **Health Literacy**

Partnerships & brand purpose activations for underserved



Vitamin Angels, Kirk Humanitarian

### **Accessible Products**

Affordable formats, innovations, and go-to-market (GTM) models



Accessible SKUs & relevant GTMs

### **Carbon Neutral Production**

CO2 reduction: Energy efficiency and renewable energy projects



Removal of ozone depleting liquids from HVAC plants

### **Sustainable Products**

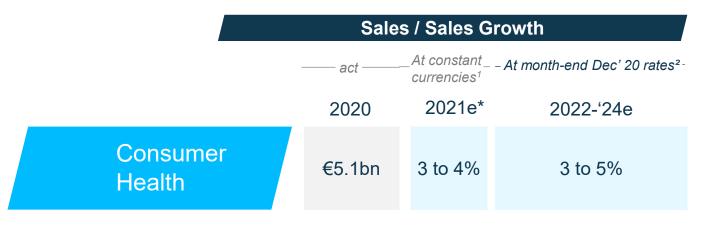
Sustainable packaging

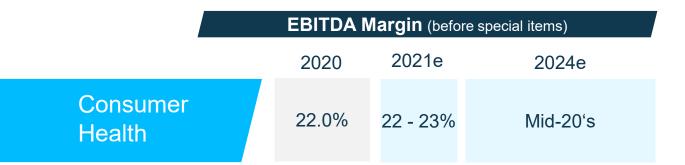


Baselining of environmental impact of packaging & finding alternatives



### Consumer Health: Sustainable Profitable Growth





### **Divisional Drivers**

- Net Sales to grow above market
- cEBITDA improvement through growth acceleration and continued efficiency gains
- Focus on continued Cash Flow improvement

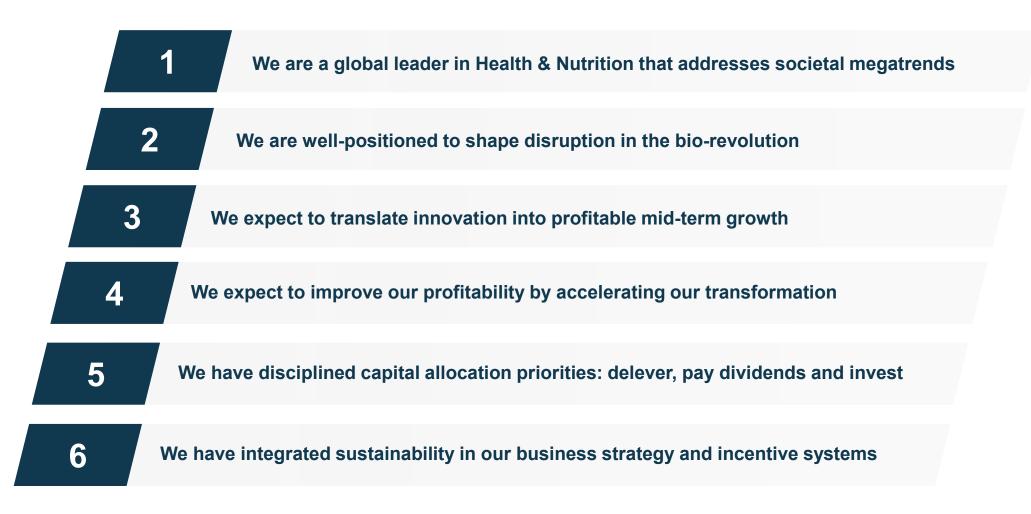
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### **Investment Thesis**

### Key Takeaways





Science for a Better Life

A Global Leader in Health & Nutrition

**Investment Case** 

October 2021 / Bayer AG

