

Science for a Better Life

A Global Leader in Health & Nutrition

**Investment Case** 

August 2022 / Bayer AG





# Cautionary Statements Regarding Forward-Looking Information

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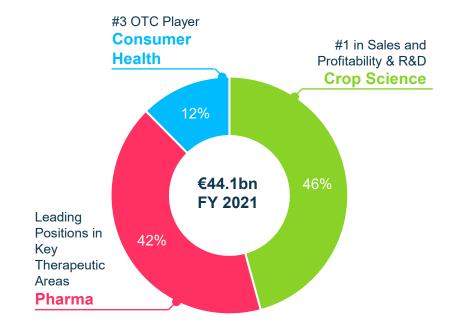


# Bayer: A Global Leader in Health and Nutrition

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

**Pharmaceuticals Consumer Health Crop Science Aging Population Growing Population Pressure on Ecosystems** People 60+ +2.2bn +50% more than people<sup>1</sup> doubling<sup>1</sup> more food and feed 2016 2050 required to meet Harvest losses from 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 restore health supply of quality food efficiently and responsibly

Megatrends through 2050

Societal Needs

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-

**Tolerances** 

Xivana

Fox Supra (Indiflin®)1

Annual R&D Investment:

**€3.1**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)

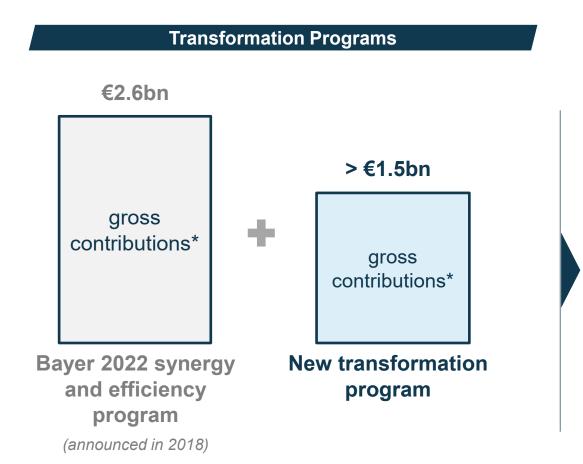
Vasomotor symptoms during menopause

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



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

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



#### **Delivery**

- Bayer 2022 program successfully concluded
- 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

<sup>\*</sup> Gross contributions will be partially re-invested to fuel growth and are included in our guidance for 2022-24 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

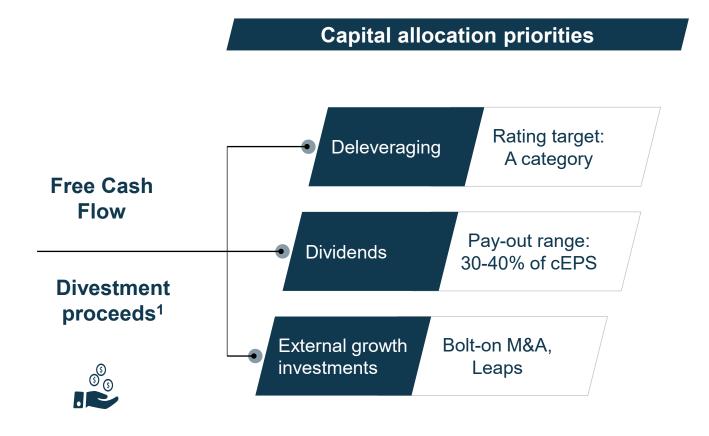
Our Free Cash Flow is impacted by **litigation** pay-outs and cash-effective **one-time costs** for transformation

ES: Environmental Science



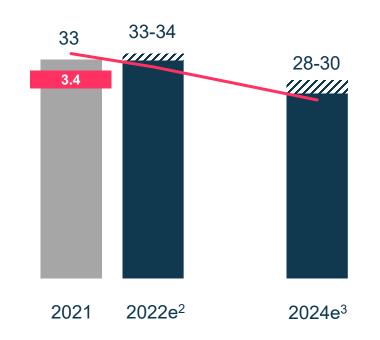
# Disciplined Capital Allocation to Delever, Pay Dividends and Invest

Expect Net Debt to Return to €28-30bn by 2024



#### Net financial debt development

In €bn



Net financial debt

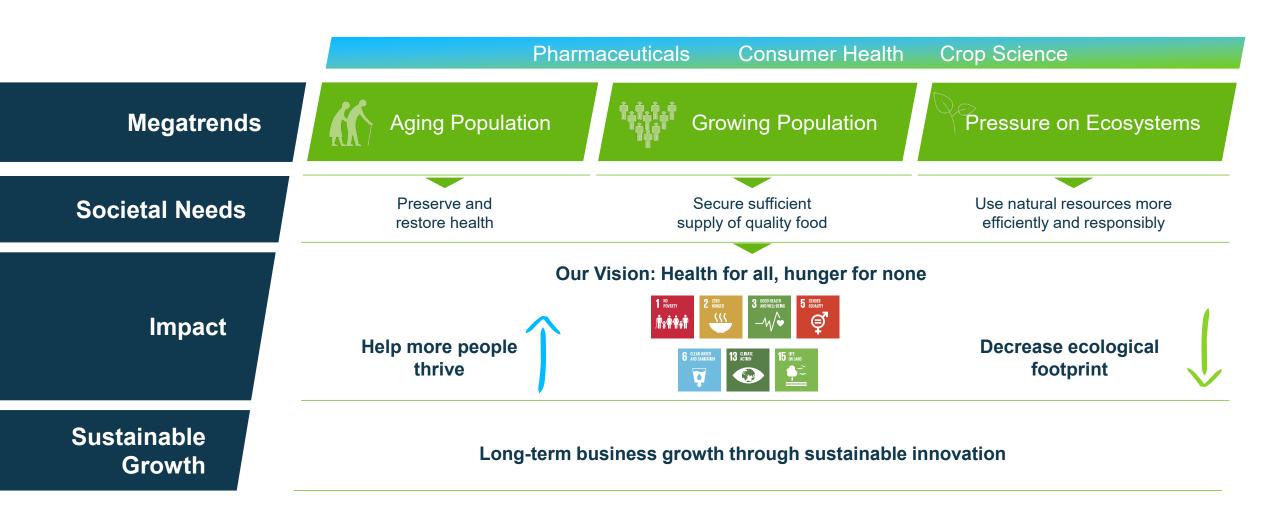
Leverage ratio

<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 Dec 2021 spot rates (1 EUR=) 1.13 USD, 6.31 BRL, 7.20 CNY, 130 JPY, 85.4 RUB <sup>3</sup> Currency assumptions based on month-end Dec 2020 spot rates (1 EUR=) 1.23 USD, 6.37 BRL, 7.98 CNY, 126 JPY, 91.5 RUB



# Sustainability is Integral to Our Values, Strategy and Operations

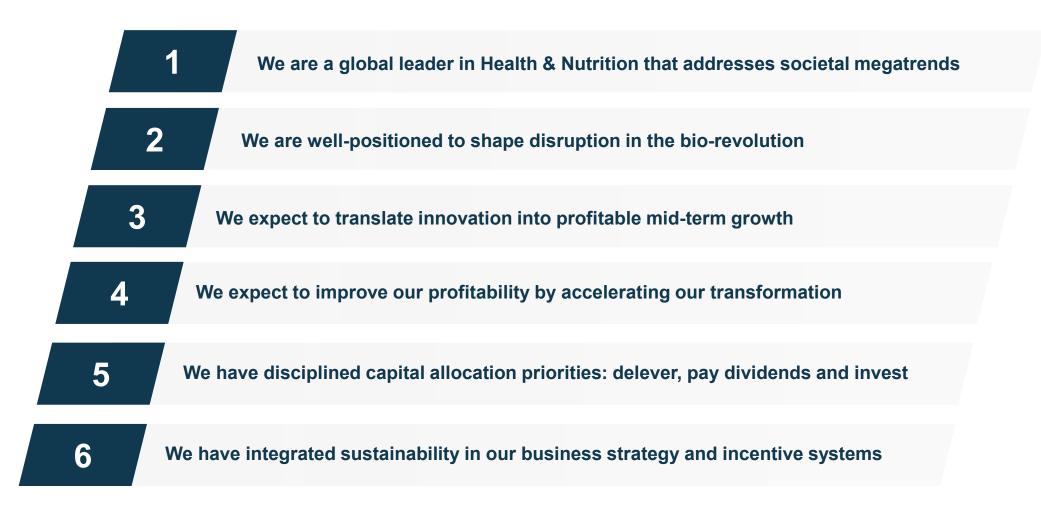
We intend to create bold impact and generate sustainable business opportunities





## **Investment Thesis**

#### Key Takeaways





Science for a Better Life
Shaping the Future
of Agriculture

**Investment Case** 

August 2022 / Bayer AG





# Shaping the Future of Agriculture

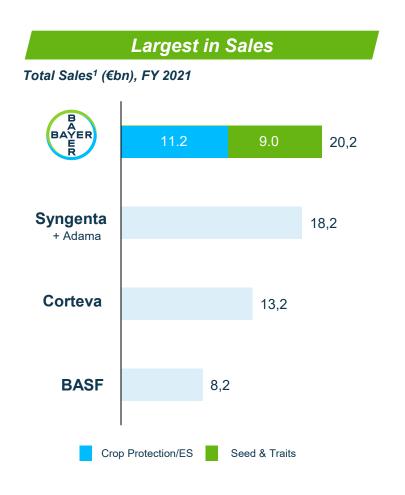
- 1 Market & Position
- 2 Strategy
- 3 Operational Performance

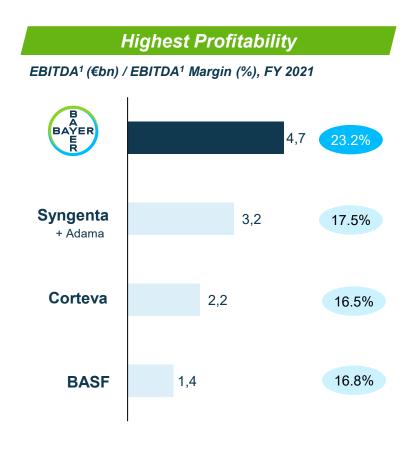
- 4 World-Class Innovation
- 5 Digital Transformation
- 6 New Standards in Sustainability



# The Established Leader in Crop Science

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

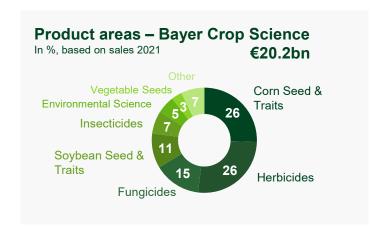


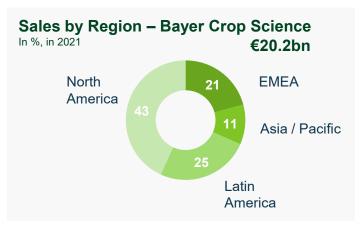


<sup>&</sup>lt;sup>1</sup> Company information; exchange rate: FY 2021: ~1.18 USD/EUR. EBITDA before special items. FY2021 sales Representing the legacy Syngenta results plus Adama of FY 2021



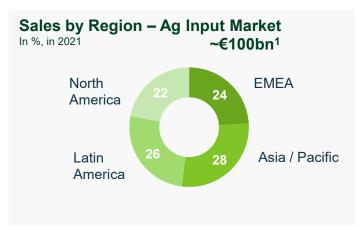
# Global #1 in Seed & Traits with Leading Crop Protection Portfolio













<sup>&</sup>lt;sup>1</sup> Source: Company estimates. Market positions based on 2021 data, AG Input Market – not including ES



# Vision / Health For All, Hunger For None



**Purpose:** Shaping agriculture for the benefit of farmers, consumers and the planet

#### Pillars:

- // Operational Excellence
- World Class Innovation
- // Digital Transformation
- // New Standards in Sustainability

#### **Strategic Ambition**

#### Perform:

Grow above market and deliver strong returns

#### **Transform:**

Achieve 100% digitally enabled sales by 2030

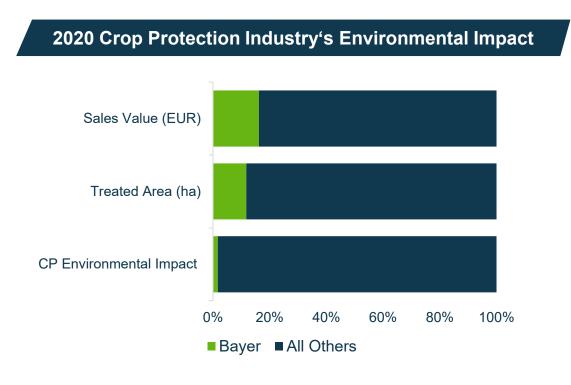


# A Clear Plan to Accelerate Growth and Outperform the Market

- 1 Deliver growth in crop protection sales through new products, integrated offerings
- 2 Grow corn seed & traits with annual portfolio refresh and new insect traits
- 3 Upgrade the Americas to next-gen soybean trait technology
- 4 Implement new vegetable seeds strategy and launch new traits in cotton to drive growth
- Achieved planned 2022 synergies in 2021; accelerate with new efficiency program until 2024



# Driving Higher Value with Lowest Estimated Environmental Impact Crop Protection Portfolio Relative to Sales and Treated Value



Bayer Crop Protection accounts for nearly 12% of the global treated area, yet less than 2% of the environmental impact



















Preliminary impact assessment has been conducted by Technical University of Denmark (DTU) based on the PestLCI/USEtox® models. PestLCI secondary distributions currently out of scope. Impact assessment limited to current scientific consensus of USEtox®: aquatic organisms and the substances which can be characterized in USEtox®. Terrestrial and pollinator impact assessment is currently not included in USEtoxf. CP application data mostly from third parties such as Kynetec/Kleffmann. In some countries based on Bayer estimates.



# Herbicides: Focused on Unlocking Greater Flexibility

Herbicide sales in 2021: **€5.3bn**, Pipeline Peak Sales Potential of **~€3bn** 

# Mateno° Complete

3 MoA

- Pyroxasulfone
- Diflufenican
- Aclonifen NEW
- Mateno Complete includes Aclonifen, a new herbicide mode of action for Australia
- Suitable for use in wheat and barley for hard-to-control grass and broadleaf weeds

#### PSP of >€50m Launched in Australia in 2022

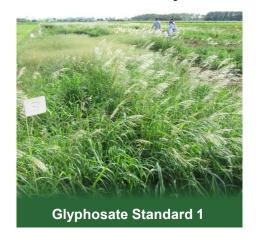




#### New Herbicide Molecule

- First new mode of action in post emergence weed control in 30 years
- Potential to build on #1 position in global herbicides<sup>1</sup>
- Allows use in various market segments, beyond traditional nonselective use
- Herbicide tolerance trait to be paired with this molecule currently in discovery

#### Project is currently in Phase 3





<sup>&</sup>lt;sup>1</sup> Internal estimates



# Fungicides: New Innovations Drive our Growth Potential

Fungicide sales in 2021: **€2.9bn**, Pipeline Peak Sales Potential of **~€4bn** 



- Adds next-gen technology Indiflin®1 to Fox Xpro
- Offers unrivaled control of Asian Soybean Rust
- Builds on #1 position in soybean fungicides<sup>2</sup> in LATAM
- **PSP of >€400m** Pre-Launch in 2022; full scale launch in 2023



<sup>1</sup> In collaboration with Sumitomo; <sup>2</sup> Internal estimates, <sup>3</sup> BASF Orkestra Ultra



- Highest performing foliar fungicide from Bayer
- Third MoA provides consistent control against Gray Leaf Spot, White Mold and Brown Spot
- Corn, soybeans
  - **PSP of >€100m** Launched in the U.S. in 2021

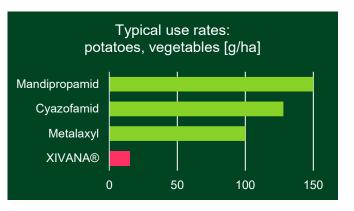


Use in soybeans in Frankenmuth, Michigan, 2019



- Powered by **Fluoxapiprolin**
- New global horticulture fungicide with best-inclass MoA; delivers outstanding protection of grapes, potatoes and vegetables
- Higher, longer-lasting efficacy above established standards

#### **PSP of >€150m** Pre-Launch in 2022; full scale launch in 2023





# Insecticides: New Launches Drive our Global Expansion

Insecticide sales in 2021: €1.4bn, Pipeline Peak Sales Potential of ~€2bn



- Fast-acting and long-lasting control of all important caterpillars and selected beetles and sucking pests
- **Diamide insecticide** with active ingredient Tetraniliprole
- Expansion in Asia Pacific; recently launched in key markets like China and Vietnam and now registered in 21 countries
- Use in key crops; corn, rice, potatoes, fruits & nuts and vegetables

Peak Sales Potential ~€300m



#### Plenexos

- First ketoenol insecticide expected to offer both foliar and soil uses against key sucking pests (aphids, white flies)
- **Spidoxamat**<sup>2</sup> is suitable for application in arable and horticulture crops (soybeans, cotton, fruits and vegetables)
- First regulatory submissions in key markets in 2022, approvals expected starting in 2024

#### Peak Sales Potential >€300m





# Biologicals Create New Value; Enable Crop Management Benefits

Leveraging the Power and Sustainability Derived from Microbes

Bayer is the #1 Trusted Brand in Biologicals by Growers<sup>4</sup>

The power of nature. Empowered by science.	SeedGrowth					Foliar & Soil applied			
	Corn Yield	Soy Yield	Nematicide	Fungicide	Other	Insecticide	Fungicide	Soilborn Disease/Pest	Crop Performance Enhancers
In-licensed / Commercial Products	<b>B</b> IO <b>R</b> ISE <sup>1</sup>	TagTeam <sup>®3</sup> Optimize <sup>®3</sup>	Poncho® Votivo® <sup>2</sup>	Integral® Pro <sup>2</sup>	TagTeam <sup>®3</sup> JumpStart <sup>®3</sup>	FLIPPER VYNYTY  ABP 111	SSNATA  Donjon  WINUET	BioAct	Ambition Account

<sup>&</sup>lt;sup>1</sup> Also sold under Acceleron® and Torque®<sup>3</sup> brand names; <sup>2</sup> 3rd party product from BASF, <sup>3</sup> In-licensed from Novozymes

#### **Business Opportunities**

- Reduction of environmental impact of Crop Protection
- Maximizing yield potential of high value germplasm
- Increasing nitrogen use efficiency
- Use in Tailored solutions to leverage our full portfolio, combining biologicals, chemistry, germplasm and digital to deliver new grower value

#### Vibrant Innovation Ecosystem

and licensing partners

Assets under evaluation for new collaborations or in-licensing

NEW

Pursuing agreement with Gingko Bioworks to become multi-year microbial strategic partner

Reaching >60m acres in row crops and high value horticulture and vegetables acres

<sup>&</sup>lt;sup>4</sup>75-100 growers polled in each of seven countries (Europe, Brazil, US) for potato, tomato and grapes, Bayer Market Research 2020, <sup>5</sup> Includes early research and collaborations



# Deployed >250 Corn Hybrids in 2021 to Expand Leading Position

Foundational to Expected Growth in Our >€5bn Global Annual Corn Seed & Traits Sales

#1 Market Position

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





Bayer branded hybrids capture #1 brand share position in the U.S. in 2021.

**United States** #1 Market Position **Market Size:** 

~93m acres

>55% Germplasm Share:

Mexico

#1 Market Position

Market Size: ~5m acres

Germplasm Share: >65%1

#1 Market Position

Market Size: ~50m acres

Germplasm Share<sup>1</sup>: ~30% Argentina

Market Size: ~20m acres

Germplasm Share<sup>1</sup>: ~60%

Europe #2 Market Position

Market Size<sup>2</sup>: ~60m acres

Germplasm Share: ~20%

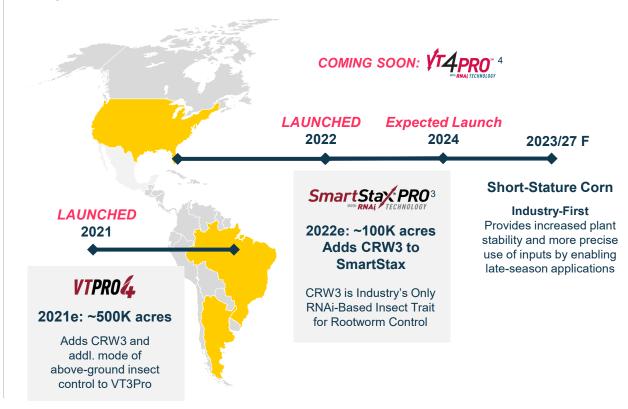
South Africa #1 Market Position

**Market Size:** ~6m acres

Germplasm Share: ~70%

Note: Size of market, market position and germplasm share measured as of 2021. Market size relates to planted hybrid acres. <sup>1</sup> In hybrid corn market only; <sup>2</sup> Eu27 +UK, Russia and Ukraine

Launching CRW3 as a part of VTPro4, SmartStax Pro and VT4Pro stacked offerings in the near-term; game-changing short-stature corn expected launch in the mid-term in the U.S. and Brazil.

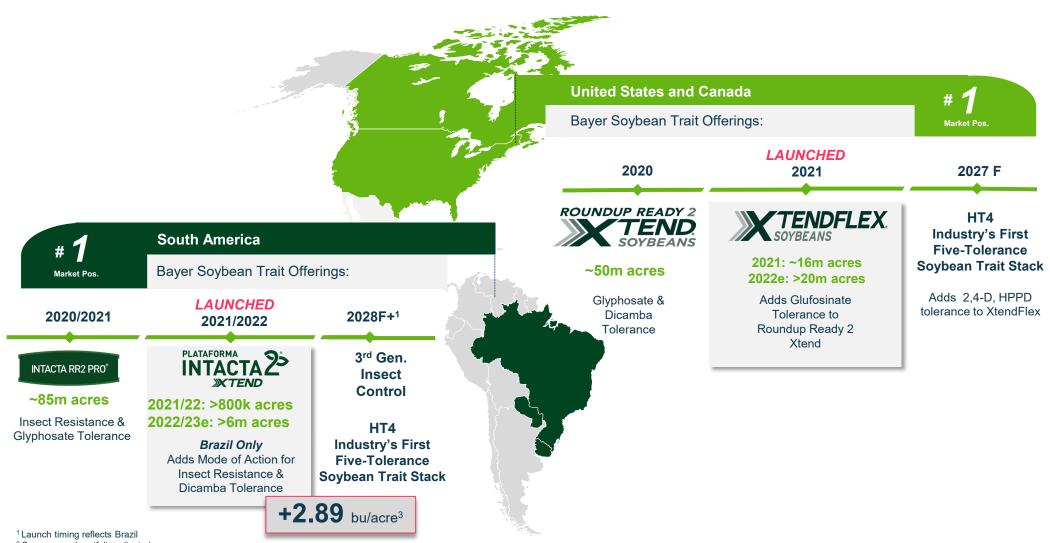


<sup>&</sup>lt;sup>3</sup> SmartStax® PRO corn products will be commercially available for the 2022 growing season.

<sup>&</sup>lt;sup>4</sup> VT4PRO with RNAi Technology is not currently available for commercial sale or commercial planting. Commercialization is dependent on multiple factors, including successful conclusion of the regulatory process. The information presented herein is provided for educational purposes only and is not and shall not be construed as an offer to sell.



# Upgrading the Americas to Next-Gen Soybean Trait Technology



<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 /// Bayer AG /// Investment Case /// August 2022



# Multiple Traits in Late-Stage Development for Cotton Farmers

Leading Innovation for Cotton Growers Driving Growth in >€500m¹ Cotton S&T Business

1st generation



First-ever biotech trait for piercing and sucking insect control 5 herbicide tolerances

HT4 Cotton

- Glyphosate HPPI
- Dicamba PPO
- Glufosinate

4th generation

Bollgard 4
Cotton

Season-long protection with multiple modes of action for key lepidopteran pests

#### Stewarded Commercial Launch in 2022 in the U.S.



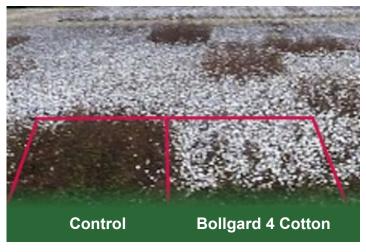
Scott, Mississippi, U.S. | Sep. 27, 2021

#### ADVANCED to Phase 3



2x 5-way tank mix at V3 stage in U.S. 2020 field trial in Scott, MS

ADVANCED to Phase 3



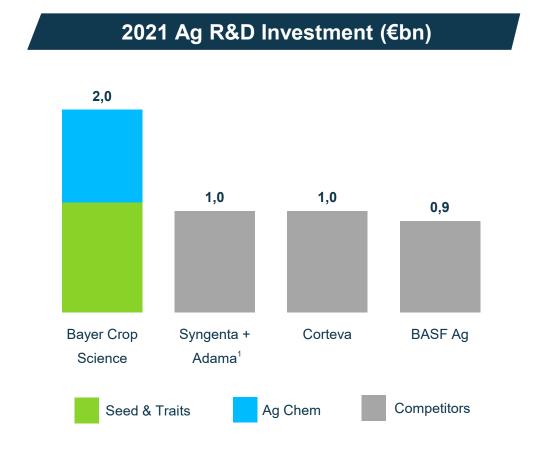
2019 Rocky Mount NCSU Results

<sup>&</sup>lt;sup>1</sup>2021 cotton seed & traits sales for Bayer Crop Science

ThryvOn™ Technology has received full approval for planting in the United States but, as of the date this material was published, is pending approval in certain export markets. Specific plans for commercialization depend upon regulatory approvals and other factors.



# Industry Leading R&D Investment Powers Pipeline Potential





#### **Top Talent:**

>7,100
R&D employees<sup>2</sup>

>100

**Key Collaborations** 

# Generating Next Generation Solutions:

>500

Hybrids &

Hybrids & Varieties Deployed<sup>3</sup>

**15** 

New Biotech Traits in Development

>300

New Crop Protection Registrations<sup>3</sup> 30-60

New Molecules in Field Trials Annually

2021 reported results, exchange rate: FY 2021: ~1.18 USD/EUR

<sup>&</sup>lt;sup>1</sup> Represents the legacy Syngenta results plus Adama

<sup>&</sup>lt;sup>2</sup> Includes permanent and temporary employees

<sup>&</sup>lt;sup>3</sup> 2021

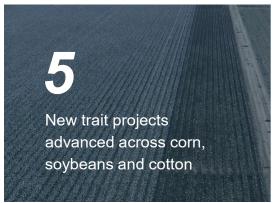


# Pipeline with Up to €30bn Peak Sales Potential Delivering for Farmers

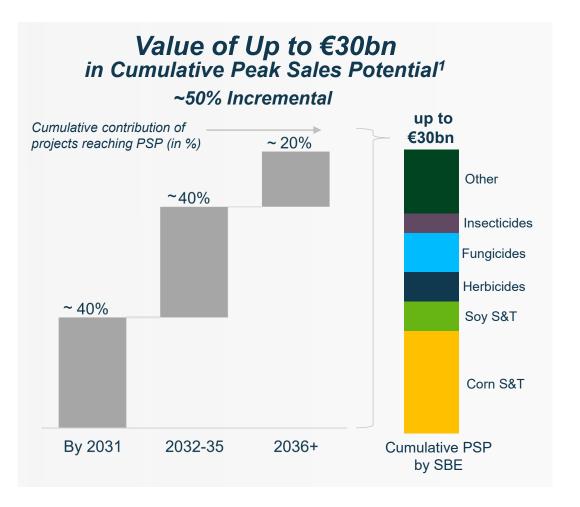
Eight Projects Advance, Eight New Formulations Launch and Hundreds of Seed Deployments in 2021











<sup>1</sup> Represents non-risk adjusted estimated peak sales for the combined breeding, biotech, crop protection and environmental science pipelines, as well as new business models and new value areas. PSP = Peak sales potential SBE = Strategic Business Entity



# Three Generations of Soybean Herbicide Tolerance Traits

Technologies Provide Solutions to Address Farmers' Needs, Herbicide Resistance Challenges

3 herbicide tolerances



LAUNCHED in 2021 on ~16m commercial acres

- Glyphosate
- Dicamba
- Glufosinate



5 herbicide tolerances

HT4
Fourth-Gen
Phase 3

Expected 2027

- Glyphosate
- Dicamba
- Glufosinate
- HPPD (Mesotrione)
- 2,4-D



July 14th, 2021 | Jerseyville, Illinois

6 herbicide tolerances

HT5
Fifth-Gen
Phase 2

- Glyphosate
- Dicamba
- Glufosinate
- HPPD (Mesotrione)
- 2,4-D
- PPO



July 14th, 2021 | Jerseyville, Illinois

Always read and follow label instructions. Products not registered in all jurisdictions.



## Short-Stature Corn Offers Transformational Shift in Production

Phase 4 Breeding Approach Expected in U.S. Pilot in 2023; Biotech Approach in Phase 3

#### Key Features and Benefits of Short-Stature Corn



#### **Reduced Crop Loss**

- 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>





#### **Precision of Crop Application**

- Improved in-season crop access due to reduced height
- Supports tailored solutions with precise inseason crop protection





#### **Increased Environmental Sustainability**

- Potential to optimize use of key nutrients like nitrogen, as well as reducing land and water requirements
- Shows promise in unlocking yield potential through increased opportunity to optimize crop inputs, planting densities, and field placement.



Anticipated Fit on >220m Acres and Incremental Peak Sales Potential of ~€1bn for NA

<sup>&</sup>lt;sup>1</sup> Purdue University (http://www.extension.purdue.edu/ay/ay-262.html)



# The Next Frontier: Evolution to Digitally Enhanced System Solutions

Illustration: NA Smart Corn System Featuring Short Stature Corn

# Win by being more grower centric Discrete Solutions

**CROP** 

**PROTECTION** 

**∲TriVolt** 

DELARO

Roundup

ACCELERON











SEEDS &

**TRAITS** 

Increased Value from Digital Enhancements to Grow Share of Farm

Inputs to Outcomes-

¹ Biotech approach in collaboration with BASF; ² VT4PRO™ with RNAi Technology corn products are expected to be commercially available for the 2024 growing season



# CoverCress: New Cash Cover Crop to Serve as Low-Carbon Renewable Feedstock for Growing Biodiesel Market

Bayer Acquires Majority Share (65%) in Sustainable Low-Carbon Oilseed Producer CoverCress Inc. (CCI)

Example: CoverCress seed fit in Bayer rotational corn/soy crop system



#### CoverCress:

- Low input rotational cash crop with ecosystem benefits of a cover crop and attractive economics of an oilseed crop
- Carbon sequestration and ecosystem services potential
- Developed through gene editing and advanced breeding tools; improved the oil profile, protein content and yield of field pennycress
- Niche market in U.S. Midwest initially; within draw area in proximity to crushing and refining facilities
- Expect to launch crush-ready CoverCress product mid-2020's

#### The Need:

- Majority of aviation and industrial transportation sector emissions reductions to come from sustainable low carbon intensity biofuels, due to lack of electrification options
- Expect demand for 6bn gallons of Renewable Diesel/Sustainable Aviation Fuel by 2030

#### The Business Model:

- Closed Loop Production Contract: Farmers paid a premium to contract produce CoverCress; Bunge delivers premium valued oil to Chevron to convert to Renewable Diesel/Sustainable Aviation Fuel
- CoverCress receives payment from crusher (e.g. Bunge) for the crop delivered; owners share profits: Bayer 65%; Chevron and Bunge 35%





# Climate FieldView Digital Tools Reach >200m Subscribed Acres in 23 Countries; Fueled by Grower and Field Trial Performance Data

#### **Climate Fieldview**

>200m subscribed acres

#1 brand in digital ag1

Operates in 23 countries



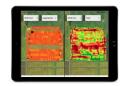
Largest database of grower and field trial seed performance data in industry

>70 partners on platform

#### In-cab visualization



#### **Performance Visualization**



#### **Performance Evaluation**



#### Field Health Images



#### **Prescription Delivery**





<sup>&</sup>lt;sup>1</sup> according to Kynetec December 2021 FieldView Brand Tracker



# Digital Farming Solutions Underpin and Enhance Our Ability to Bring Transformational Solutions to Agriculture



**Our Vision for Digital Agriculture** 

**Three Core Value Drivers** 

Increase yield and improve profitability

Glean insights from data to help manage risk and address variability

Manage fields down to the square meter, to farm more efficiently and sustainably

Seamlessly collect, visualize and analyze data to enable **more informed decisions** 



Franchise Value



**Downstream Value** 



**Platform Value** 



# Digital Unlocks Scalable Climate-Smart Business Models

Carbon Markets Valued at >\$200bn/year<sup>1</sup> and Growing with Consumers' Demand for Sustainability

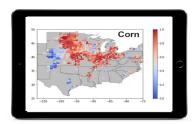
**FIEDVIEW** has the potential to streamline the way carbon is measured, verified and reported, to enable scalable, climate-smart business models

#### Quantification



CO<sub>2</sub>e Total

#### **Verification & Reporting**



Crop Rotation by Field

#### Carbon Initiative

**2,600** participating farmers in Brazil

10 countries covered

1.5m acre

acres globally

- Long-term program providing **annual incentives** to Climate FieldView enrolled growers for verified and validated **climate-smart practices** like no-till and cover cropping
- Ranked #1 in the U.S., scoring very high in terms of grower trust<sup>2</sup>

#### Enables 3 Expected Downstream Revenue Opportunities

Carbon Services

Product sales

Carbon assets

- Project Carbonview, collaboration with Bushel,
  The Andersons, and built on Amazon Web
  Services cloud infrastructure, expected to track
  carbon emissions across ethanol chain
- **CHS Inc.,** largest Ag Coop in the U.S., agreed to be our carbon program provider, providing advice to growers moving to sustainable practices.

<sup>1</sup> Source: https://www.reuters.com/article/us-carbontrading-turnover/global-carbon-trading-turnover-at-record-214-billion-last-year-research-idUSKBN1ZN1RN; 2 Forward Group Research Carbon Credit Program Perceptions & Evaluation, July 2021



# **Enabling New Digital Platforms in Ag**

Opens Access to Participate in Broader B2B AgTech Value Pools; Expanding into Digital Marketplaces



- Combines Bayer's ag expertise and leading digital farming platform with Microsoft's cloud technology and unrivaled B2B solutions, to enhance digital infrastructure
- Cloud-based set of digital tools and data science solutions for agriculture and adjacent industries
- Seeking to create and commercialize off-the-shelf opportunities for other companies to enter and innovate directly in ag and other industries.
- Solutions to address farming operations, sustainable sourcing, manufacturing and supply chain improvement, and ESG monitoring and measurement

### Orbia: First Digital Ag-Marketplace



- JV between Bayer, Bravium, Yara and Itau; Bayer with ~60% stake
- Connects growers, input providers and grain traders to a network to expand their reach, secure financing, redeem rewards from Bayer's Impulso loyalty program, purchase and sell inputs
- Established in 2019 in Brazil, later expanded to Argentina, Colombia and Mexico
- ~300 distributors with inputs such as pesticides, seeds and fertilizers
- >200,000 registered growers
- Covers ~75% of planted area

<sup>&</sup>lt;sup>1</sup> Brazil-based marketing agency



# Innovative, Sustainable Solutions to Address Global Challenges

Global Challenges

Our Goals

Our Priorities

Our Solutions -

In the Field Today

**Growing Population Increasing Protein** Demand

**30**%

Reduction in Crop Protection impact on the environment

**Producing & Protecting Higher-Yielding** Seeds

· High-yielding, disease-resistant seeds

 Next-generation biotech traits and crop protection to protect yield







**Water Quality** Soil Health

**30**%

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

Using Fewer **Natural** Resources

· Novel small molecules and biological solutions with reduced environmental impact

• Short stature corn provides the opportunity to unlock additional yield potential by optimizing crop inputs







**Climate Change** Sustainable Energy Sources

Reduction of field areenhouse aas emitted

per kg of crops produced

Advancing a **Carbon Smart Future** For Aq

Digital tools for carbon sequestration measurement, precise input application

Next-generation herbicide-tolerant traits to support no-till/ conservation tillage systems









Solutions must serve growers large and small; Empowering 100m smallholders by 2030



Science for a Better Life

Pharmaceuticals: Driving Continued Long-term Growth

**Investment Case** 

August 2022 / Bayer AG





## Pharmaceuticals: Driving Continued Long-Term Growth

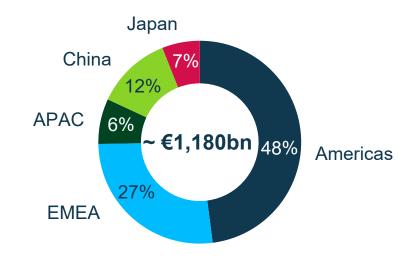
- 1 Market & Position
- 2 Strategy
- 3 Growth Drivers
- 4 Innovation



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

#### **Pharma Market**

#### Market Size 2021e<sup>1</sup>



#### Market CAGR 2021-25e<sup>1</sup>



#### <sup>1</sup> Source: IQVIA Market Prognosis as of September 2021

### **Market Dynamics**

#### **Opportunities**

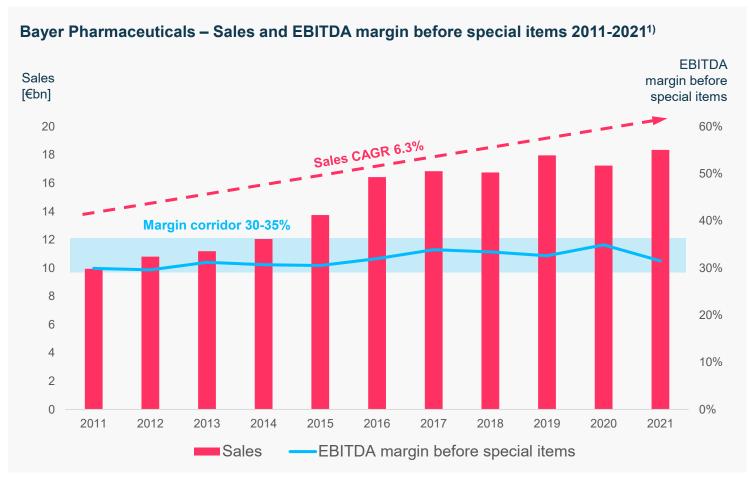
- Aging and growing population megatrends
- Rising life expectancy and increased access to healthcare systems
- Accelerated digital transformation across the value chain
- Technological disruption by breakthrough science
- Shift from treatment to prevention and potential cure

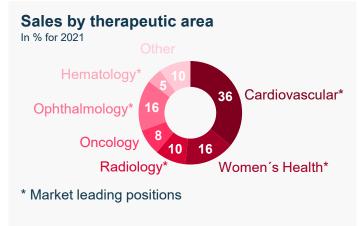
#### Challenges

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



# Bayer Pharmaceuticals Holds Strong Positions in Areas of High Unmet Medical Needs, Generating Growth and Attractive Returns



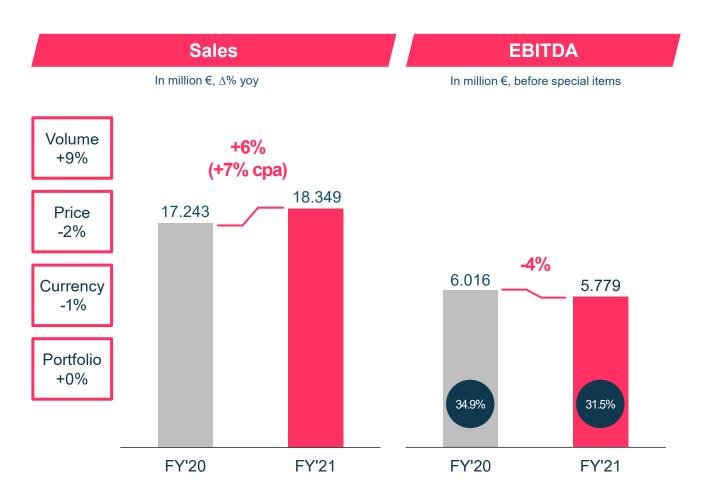




<sup>1)</sup> as reported in the respective fiscal years



## Strong Volume Expansion in FY 2021



#### Key Messages

- Solid topline growth after COVID-19 related restrictions in prior year
- Flagship products performed particularly well, contributing ~60% to higher sales:
  - Eylea<sup>TM</sup> +19%
  - Xarelto<sup>TM</sup> +6%
- Successful launch of Kerendia<sup>TM</sup> and continued rollout of Nubeqa<sup>TM</sup> and Verguvo<sup>TM</sup>
- Lower earnings reflect continued investments into R&D and marketing of new products

<sup>■</sup> EBITDA Margin before special items, cpa = currency and portfolio adjusted



## Our Strategy is Geared Towards Continued and Sustainable Longterm Growth, also Addressing Loss of Exclusivity of Major Products



Capture the value of the current portfolio and manage LoE for Xarelto & Eylea



**Grow new potential blockbusters** 



**Build digital health solutions** 



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



# Over the Last Three Years we Successfully Launched Four New Drugs and Strengthened Pipeline and Technologies

Main Building Blocks of Post LoE Growth

Late-stage Pipeline in CV & WH



**PSP ~ €0.5bn** 

launched in 2021



## **Elinzanetant**

(KaNDy NT-814)

PSP ≥ €1.0bn launched in 2021 PSP ≥ €1.0bn potential launch in 2025

**Oncology** 



PSP ≥ €3bn

launched in 2019



**PSP > €0.75bn** launched in 2019

**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

>40 BD&L transactions signed since 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



## Capturing the Full Commercial Potential of Market Leading **Therapies**



#### **Guidance FY2022**

Higher volumes to largely offset 12 months impact of VBP in China

#### New indications & label updates in 2021

Pediatric VTE: approved in EU, Japan, Canada (EINSTEIN Jr) and the US (EINSTEIN Jr & UNIVERSE)



Symptomatic peripheral artery disease (VOYAGER PAD): label update approved both in the EU & US





#### **Guidance FY2022**

Mid-single digit growth

#### 2 Phase III studies with high-dose formulation (initiated 2020)

PHOTON (DME)



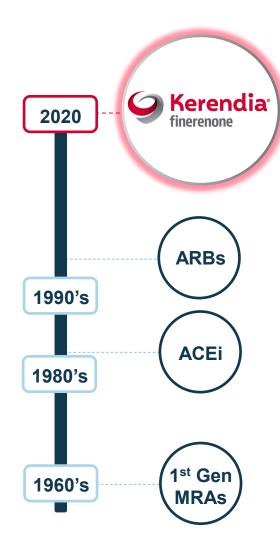
Goal: Prolongation of injection intervals

**PULSAR** (neov. AMD)

Prefilled syringes launched in 2020 in EU and JP



## Kerendia is a Game Changer for CKD and Type 2 Diabetes Patients



#### Next milestone in renal disease treatment, continuing our RAAS-centric treatment history

## Largest clinical program with unparalleled data<sup>1</sup>

**Novel MOA** intensifies RAAS inhibition (gold-standard for treatment)

**Treatment continuity** for HCPs with trust in RAASi for CV and kidney outcomes

## **>>>**

# Successful launch trajectory — Entresto — Kerendia finerenone Weekly TRx (US) 3.000 2.000 1.000 Week 22

#### **Characteristics of CKD/T2D**

- # 160m patients globally
- Shortens life expectancy by 16y
- #1 cause for
  dialysis/transplants

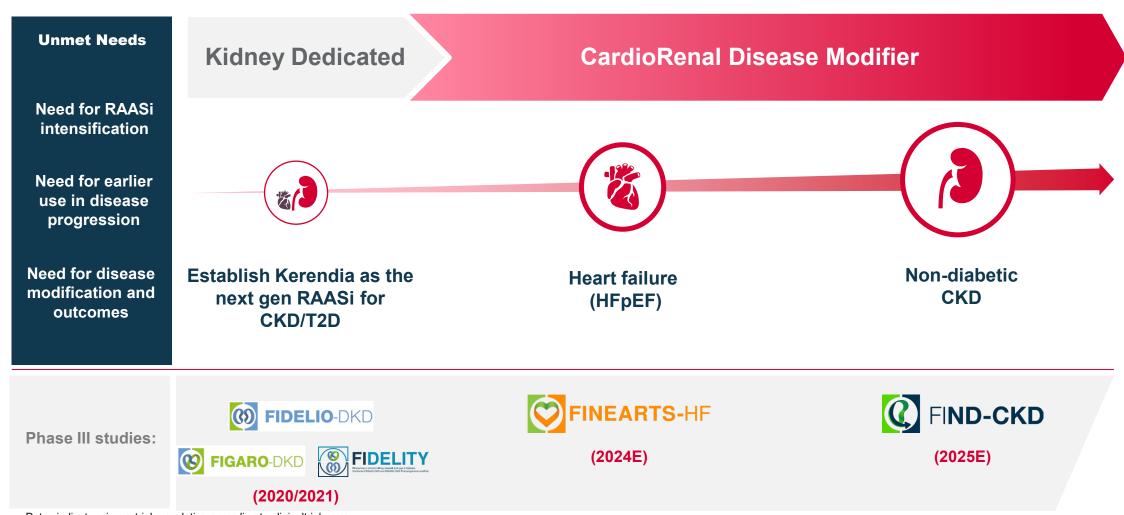
- Full global rights including the US
- Broad early adoption following US launch in Q3 2021
- // Updated ADA guidelines
- Approved in EU in Feb. 2022

Phase III trials in 2 additional indications (HFpEF, non-diabetic CKD) with results in 2024/25

<sup>&</sup>lt;sup>1</sup> 13,171 patients early in DKD progression



# Kerendia sets the stage for a long-term cardio-renal vision and targets to deliver blockbuster potential



Dates indicate primary trial completion according to clinicaltrials.gov



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

## NUBEQA® Stivarga (regorafenib) tablets **Pipeline** Xofigo Xofigo BD&L leaps (BAÝER) 2020 ~10+ years out

Key sales contributors, graphic illustrative

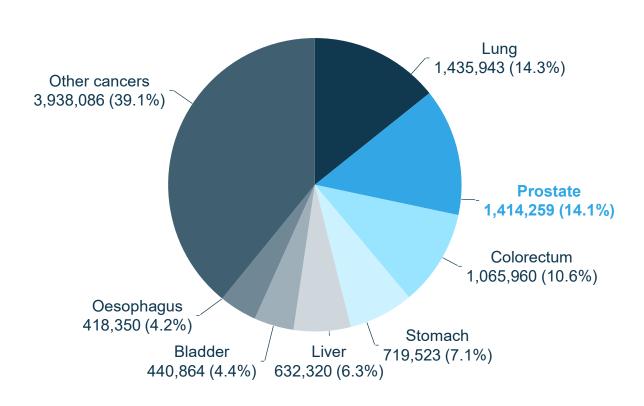
## Key elements to achieve our growth aspiration

- Continue to build strong prostate cancer franchise with NUBEQA and Xofigo
- Realize >€3bn peak sales potential of NUBEQA
- 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



# Prostate Cancer is at #2 of the Most Common Cancer Types in Men Worldwide with Significant Unmet Medical Need

## Estimated number of new cases in 2020, worldwide, males, all ages



#### **Characteristics of Prostate Cancer**

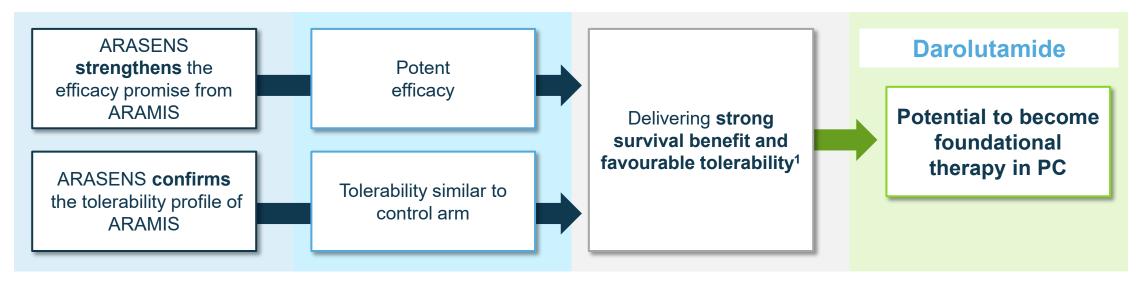
- Usual onset: age >50 years
- Diagnostic method: PSA testing, tissue biopsy, medical imaging
- Prognosis: long-term survival in early-stage, significant higher morbidity in late-stage

Source: International Agency for Research on Cancer, https://gco.iarc.fr/today/online-analysis-table



# Two Highly Consistent Phase 3 Studies Confirm Nubeqa's Strong Clinical Profile in Prostate Cancer Treatment

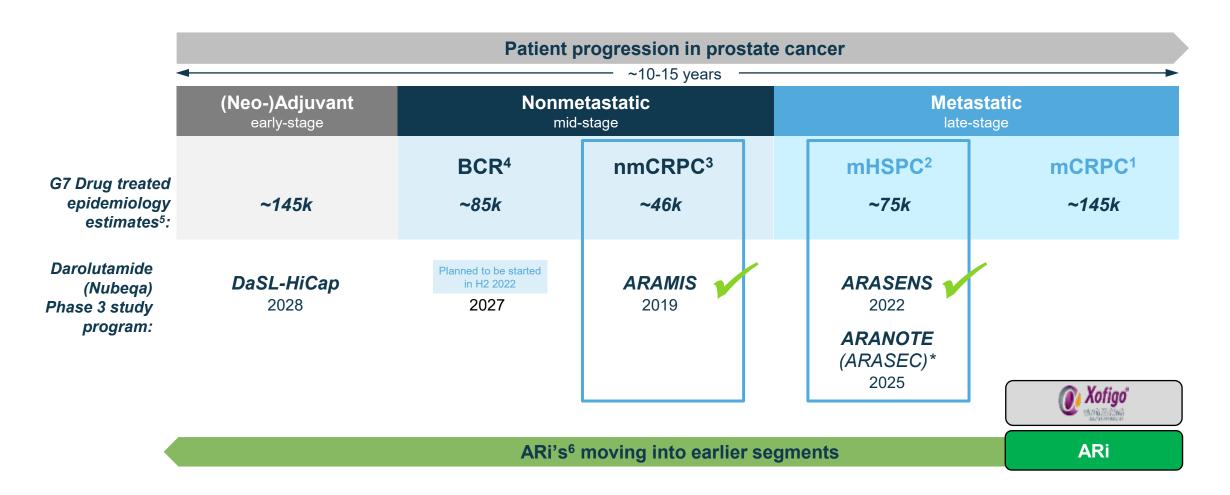
	Efficacy		
Study	Primary endpoint	Selected secondary endpoints	Tolerability
ARAMIS nmCRPC	Metastasis free survival prolongation by 22.0 months, 59% risk reduction (HR=0.41, p<0.001)	Overall survival 31% risk reduction (HR=0.69, p=0.003)  Time to pain progression prolongation by 14.9 months, 35% risk reduction (HR=0.65, p<0.001)	favourable tolerability profile
<b>ARASENS</b> mHSPC	Overall survival 32.5% risk reduction (HR=0.675, p<0.0001)	Time to castration resistant PC 64% risk reduction (HR=0.357, p<0.0001	



<sup>&</sup>lt;sup>1</sup> compared to control arm



# We Are Committed to Make Nubeqa Available to a Broad Spectrum of Prostate Cancer Patients



<sup>&</sup>lt;sup>1</sup>Metastatic castration resistant prostate cancer <sup>2</sup>Metastatic hormone sensitive prostate cancer <sup>3</sup>Non-metastatic castration resistant prostate cancer <sup>4</sup>Biochemical relapse <sup>5</sup>G7: US, EU5, JP <sup>6</sup>Androgen receptor inhibitor \*Not label generating; supports ARANOTE submission



# Nubeqa With the Chance to Become a Foundational Drug to Treat Prostate Cancer – Peak Sales Potential of >€3bn

## **Efficacy**

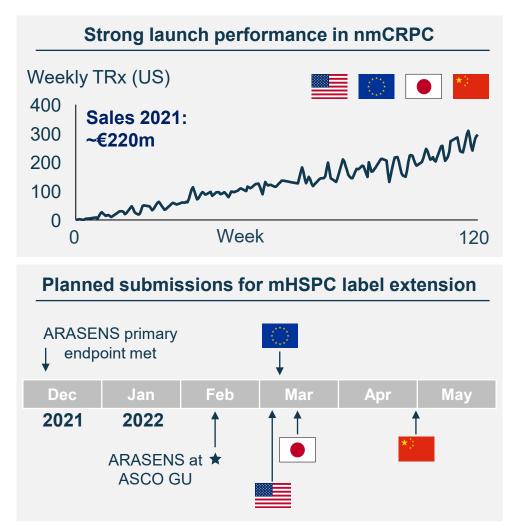
- Highly efficacious ARi<sup>1</sup>
- Very consistent set of data from two Phase 3 studies
- First to show more than 30% risk reduction of death in nmCRPC and mHSPC

## **Safety**

- Well tolerated safety profile
- Limited potential for drug-interactions
- Early data indicate limited blood-brain barrier penetration

## Lifecycle Management

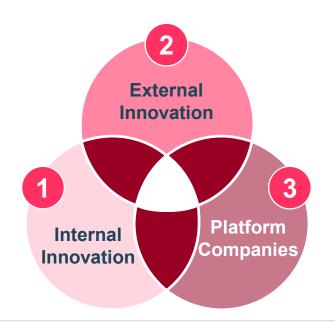
- Approved in nmCRPC in the US (2019),
   Europe + Japan (2020) and China (2021)
- Become agent of choice in prostate cancer
- Combination opportunities



<sup>&</sup>lt;sup>1</sup> Androgen receptor inhibitor



## Our Innovation Engine is Delivering





**Global R&D** organization









Collaborations. in-licensing, M&A

Elinzanetant







CGT

**SMOL** 









Committed and experienced new leadership team



Advancing leading cell and gene therapy business



World leading science added through new platforms



Unlocking value for patients in the highest need areas



# External Innovation to Accelerate Replenishment of Pipeline and Broaden Modalities

Selected High-Level Overview

## **Momentum Significantly Increased**

#### >40 Transactions signed since 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)



## Elinzanetant Addresses High Unmet Needs for Non-hormonal Treatment of Vasomotor Symptoms in Menopausal Women

## Typical Vasomotor Symptoms **During Menopause**



Sleep disturbance



Hot flashes



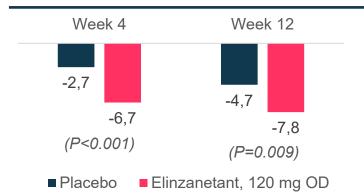
Night sweats

About 16m women in the U.S. and another 16m in Europe suffer from menopause symptoms

#### Elinzanetant

- A first-in-class, non-hormonal, once-daily, oral neurokinin-1,3 receptor antagonist
- Differentiated, double mode of action
- Well tolerated no serious AEs related to treatment
- Efficacy data compare well with BSC

## Reduction in moderate/severe VMS per day from baseline (Phase IIb results)



Phase III study started in 2021, data expected in H1 2023



# Significant Progress Has Been Achieved in Anti-coagulation Therapy but Medical Need Still Exists

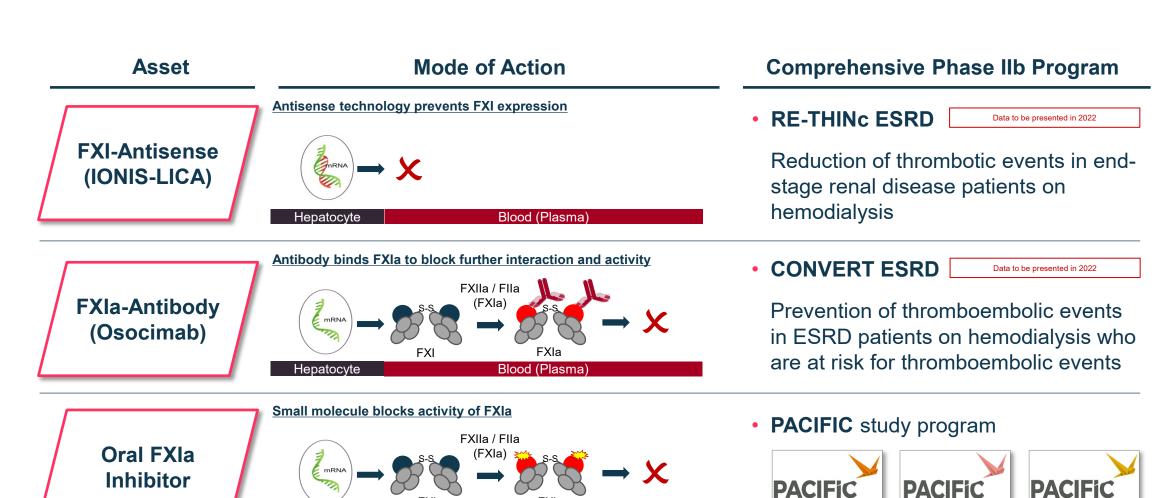


- Heparin and VKAs were the only anticoagulants available for most of the 20th century
- Guidelines now prefer New Oral Anticoagulants (NOACs) over VKAs for many indications
- NOACs are contraindicated in ESRD patients and in patients with mechanical heart valves
- Need remains for anticoagulants with a reduced bleeding risk especially in specific patient populations

Data to be presented in 2022



# Bayer Has a World Leading Factor XI(a) Portfolio – Next Class of Anticoagulation Drug Candidates with Disruptive Potential



Blood (Plasma

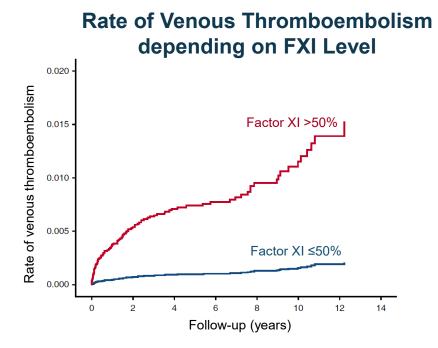
Data to be presented at

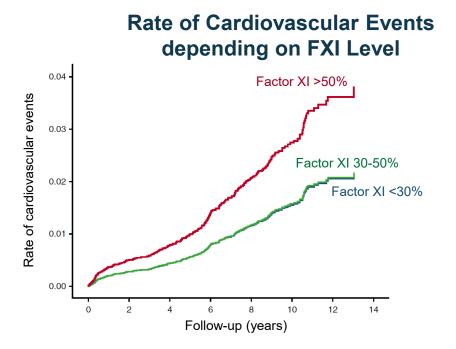
ACC on April 3, 2022

Hepatocyte



# Hereditary Factor XI Deficiency is Associated with Lower Risk for Cardiovascular and Venous Thromboembolic Events





- Subjects with hereditarily reduced levels of blood coagulation factor XI have a reduced risk of thrombotic disorders without suffering the risk of spontaneous bleeds
- Factor XI inhibition could achieve greater anti-coagulation without increased bleeding risk



## Advancing Leading CGT Platform with Strong Clinical Pipeline

## Diverse tech platforms and capabilities

- // AAV platform (AskBio and Bayer established)
- // BlueRock's iPSC
- // CAR-T
- // Gene-editing (+ Mammoth)

**CDMO business** with strong momentum

## Industry leading CGT clinical pipeline

- // 7 clinical projects
- // >15 projects at pre-clinical stage

## **Example: Two-pronged approach to deliver transformative therapies to treat Parkinson's**





Successful administration of first dose of DA01¹ to a Parkinson's disease patient in open-label Phase 1 clinical study







Ongoing recruitment and evaluation of patients in the US for AskBio's Phase 1b clinical study to assess safety and preliminary efficacy



Photo: Dr. Viviane Tabar, Chair of the Department of Neurosurgery, Memorial Sloan Kettering Cancer Center

<sup>&</sup>lt;sup>1</sup> Pluripotent stem cell-derived dopaminergic neurons



## Pharmaceuticals – Overview Development Portfolio (as of August 4th, 2022)

#### Phase II (12) Phase III (10) **Phase I (17)** Elimusertib (ATR Inhibitor) (BAY 1895344) Regorafenib (combi Nivolumab) (BAY 734506) Darolutamide (AR Inhibitor) /// Prostate Cancer (mHSPC) (ARANOTE) /// Solid tumors (recurrent or metastatic) SLFN12 Complex-Inducer (BAY 2666605) /// Adjuvant Prostate Cancer (DASL-HiCaP) Regorafenib (combi Pembrolizumab) (BAY 734506) mEGFR Inhibitor (BAY 2927088) /// Hepatocellular Carcinoma (HCC) Copanlisib (PI3K Inhibitor) /// Non-Hodgkin Lymphoma (CHRONOS-4) HER2-TTC (HER2-Targeted Thorium Conjugate) (BAY 2701439) Asundexian (FXIa Inhibitor) (BAY 2433334) /// Stroke Prevention in Atrial Fibrillation (PACIFIC-AF) Regorafenib (multi-Kinase Inhibitor) Bapotulimab (ILDR2 fb Antibody) (BAY 1905254) /// 2º Stroke Prevention (PACIFIC-STROKE) /// Glioblastoma (GBM AGILE) /// Major Adverse Cardiac Events Prevention (PACIFIC-AMI) AhR Inhibitor (BAY 3176803) Finerenone (MR Antagonist) Fesomersen (FXI-LICA) (BAY 2976217) /// Heart Failure (HFmr/pEF) (FINEARTS-HF) Congestive Heart Failure Gene Therapy /// Thrombosis Prevention in ESRD (RE-THINC ESRD) /// Non-diabetic CKD (FIND-CKD) sGC Activator 4 (BAY 3283142) Osocimab (anti-FXIa Antibody) (BAY 1213790) Vericiquat (sGC Stimulator) /// Thrombosis Prevention in ESRD (CONVERT ESRD) /// Heart Failure (HFrEF) (VICTOR\*) P2X4 Antagonist (BAY 2328065) Runcaciquat (sGC Activator) (BAY 1637108) Elinzanetant (Neurokinin-1,3 Rec Antagonist) BDKRB1 Receptor Antagonist (BAY 2599210) /// Vasomotor Symptoms (OASIS) /// Chronic Kidney Disease (CKD) (CONCORD) Peboctocogene Camaparvovec (FVIII Gene Therapy) (BAY 2599023) /// Non-prolif. Diabetic Retinopathy (NPDR) (NEON-NPDR) Aflibercept 8MG Pompe Disease Gene Therapy Adrenomedullin Pegol (PEG-ADM) (BAY 1097761) /// Diabetic Macular Edema (DME) (PHOTON\*\*) /// Acute Resp. Distress Svn. (ARDS) (SEAL TRIAL) /// Neovasc. Age-rel. Macular Degen. (nAMD) (PULSAR) Parkinson's Disease Gene Therapy BDKRB1 Receptor Antagonist (BAY 2599210) Parkinson's Disease Cell Therapy /// Neuropathic Pain (BRADiNP) sGC Activator 3 (BAY 1211163) Gadoquatrane (High Relaxivity Contrast Agent) (BAY 1747846) /// Magnetic Resonance Imaging (HRCA-PAT) ADRA2C Antagonist (BAY 2925976)



<sup>\*</sup> Trial conducted by Merck & Co.

Zabedosertib (IRAK4 Inhibitor) (BAY 1834845)

<sup>\*\*</sup> Trial conducted by Regeneron Pharmaceuticals



Science for a Better Life

Winning in Consumer Health

**Investment Case** 

August 2022 / Bayer AG



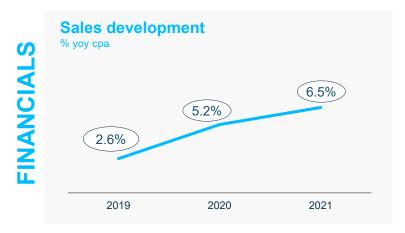


## Winning in Consumer Health

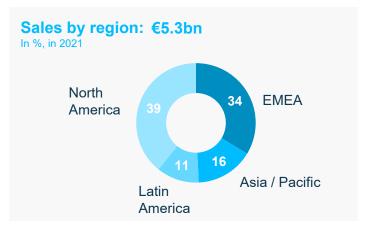
- 1 Market & Position
- 2 Strategy
- 3 Sustainability

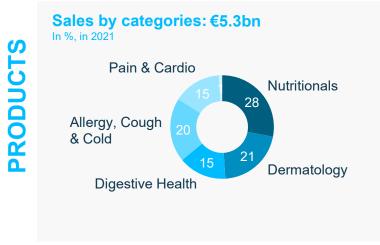


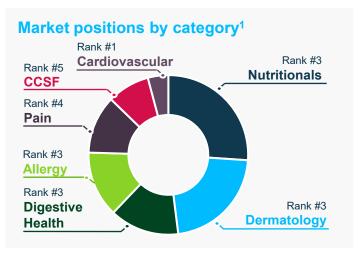
## Consumer Health: A Leading Global OTC Player











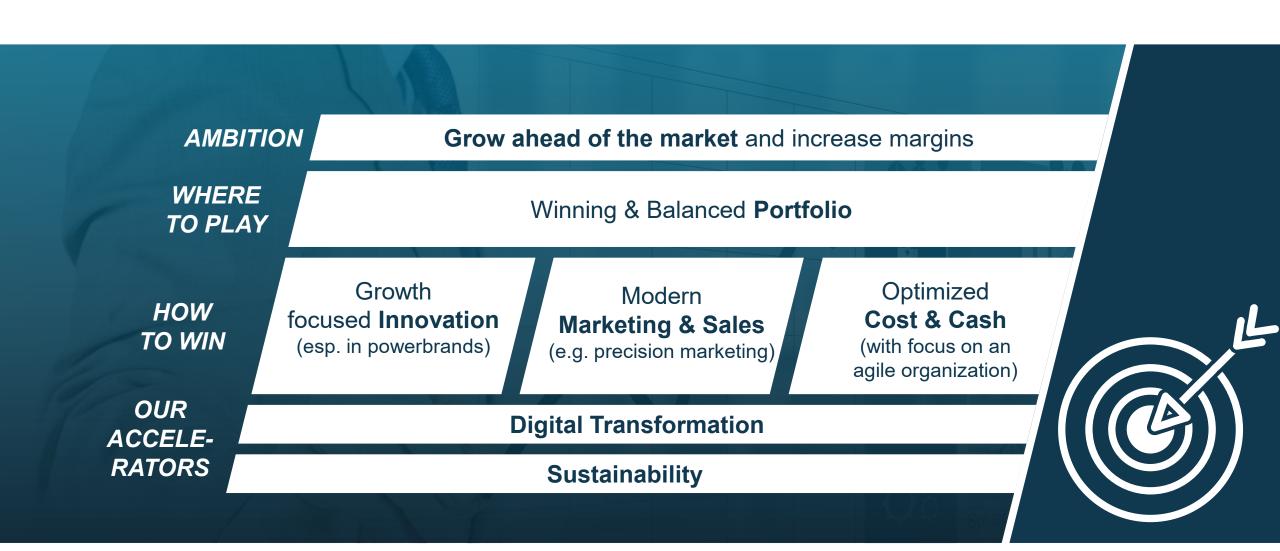


<sup>&</sup>lt;sup>1</sup> Source: Net Sales FY2021, TABS Market Share MAT Aug 2021





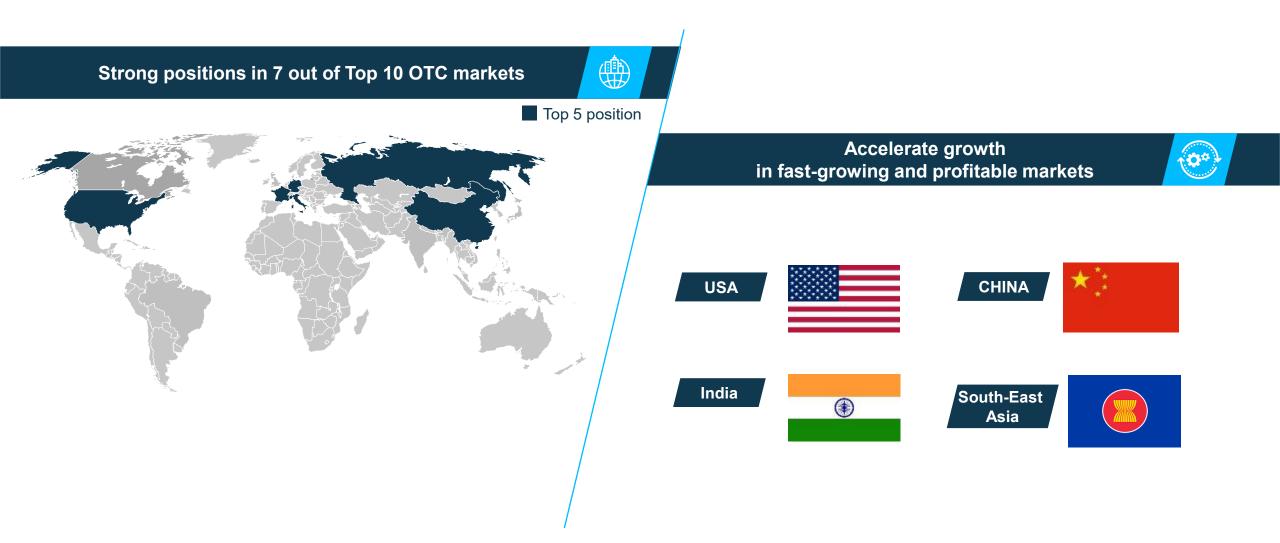
## A Multifaceted Plan to Drive Further Growth







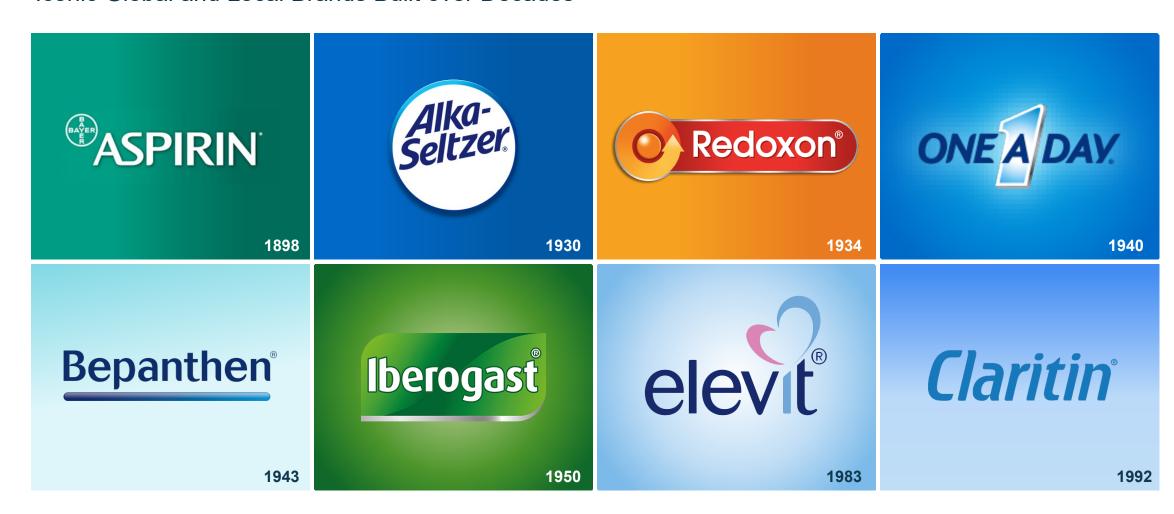
## Driving Disproportionate Growth in Attractive Segments and Markets





## 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

**58%** 

80%

2024 - Ambition

Accelerating E-commerce



% Net Sales<sup>2</sup>

**3%** 2018

10%

2021

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



Science for a Better Life

Sustainability @Bayer

**Investment Case** 

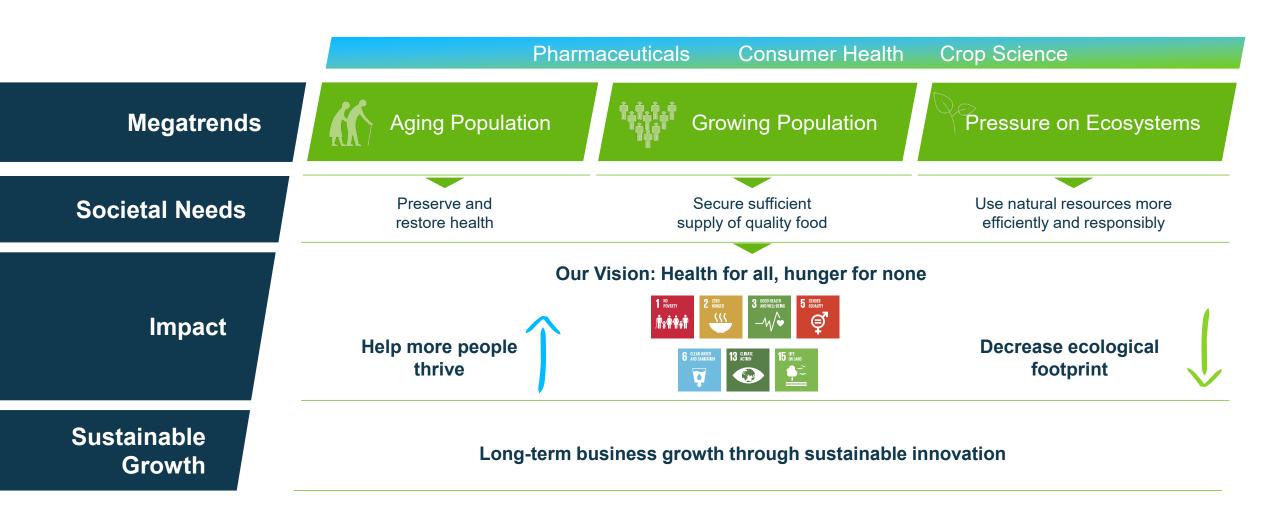
August 2022 / Bayer AG





## Sustainability is Integral to Our Values, Strategy and Operations

We intend to create bold impact and generate sustainable business opportunities





## Sustainable Innovation as Foundation for Business Opportunities

Co-Shaping the Bio-Revolution

We are among the companies that help to shape the ongoing bio-revolution. Our extensive knowledge of human and plant science, supported by our expertise in regulatory processes and a global footprint ultimately bring innovations from labs to market

Sustainable Solutions in Agriculture

We develop solutions with improved sustainability profiles: seeds/traits and related farming practices (e.g. short stature corn, direct seeded rice), crop protection products & irrigation systems (e.g. lower environmental impact), digital farming and precision agriculture, climate-smart practices

Breakthrough Technologies in Pharmaceuticals

We foster innovation and portfolio extension in important therapeutic areas with an increasingly strong setup in the cell & gene sphere and the potential to meet undruggable targets

Better Access to Health & High-Quality Nutrition

Our access targets bear chances of meaningful inclusive growth with recipients as potential future market participants while addressing global megatrends in health and nutrition



## Ambitious Measurable Targets for Sustainable Development

Our 2030 Targets are in line with UN SDGs and the Science Based Targets Initiative

### Decrease ECOLOGICAL footprint



- // 42% reduction target<sup>1</sup> for Scope 1 & 2
  - // 500m € CapEx for emission reduction
  - 50m-200m € OpEx for offsetting projects
- // 12.3% reduction target<sup>2</sup> for Scope 3
- Net Zero emission target until 2050 in line with Paris Agreement (Scope 1, 2 & 3)

CS: -30% greenhouse gas emissions produced by key crops in the main regions we serve and -30% environmental impact of crop protection

CH: Sustainable production and transition to circular options (reduce, recycle, reuse, replace)



#### Help more PEOPLE thrive



Support 100m smallholder farmers in LMIC<sup>3</sup>







PH: Increase the availability and affordability of our products in LMIC via equitable pricing and patient affordability programs, with the ambition of reaching an additional pool of 100m patients

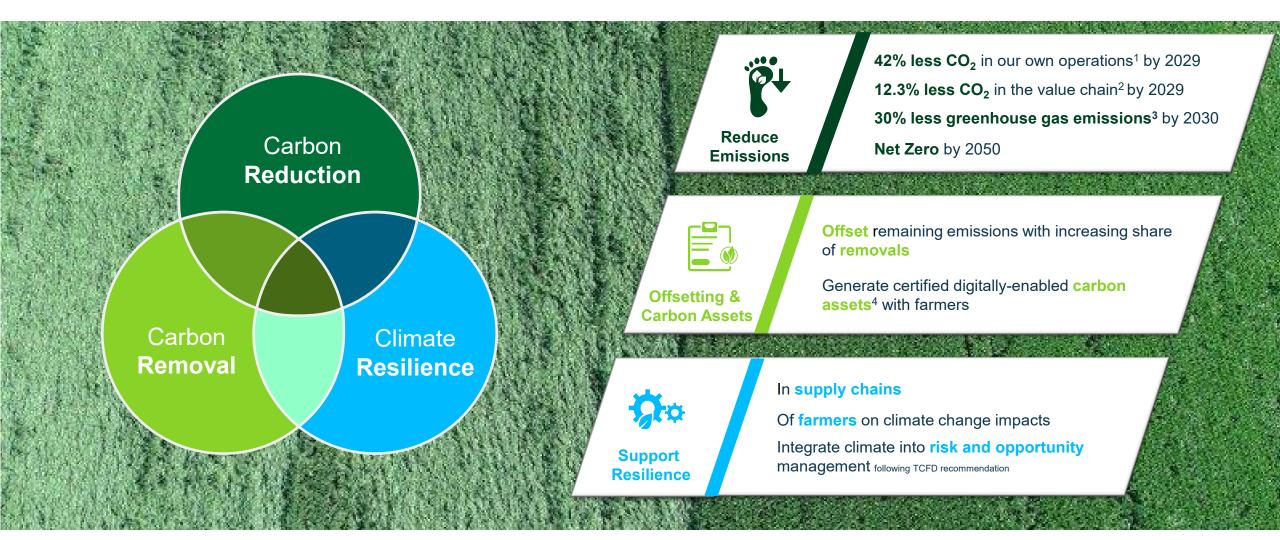
<sup>&</sup>lt;sup>1</sup> By 2029 from a 2019 base year is in line with limiting global warming to 1.5 C°

<sup>&</sup>lt;sup>2</sup> By 2029 from a 2019 base year is in line with limiting global warming to below 2 C°

<sup>&</sup>lt;sup>3</sup> LMIC: low and middle income countries - all countries included in the World Bank list as per 1 July 2019 <sup>4</sup> Underserved: economically or medically



## We Take Broad Climate Action Along the Value Chain







## We Are on Track in our Decarbonization Journey

Scope 182

SCIENCE BASED TARGETS

**42% less CO<sub>2</sub>** in our own operations by 2029 & **Net Zero** by 2050

- Reduced emissions by 11.5% or around 410,000 tons compared to 2020
- Reduction mostly due to increase of renewable energy share to approx. 25% of total purchased energy
- Additionally, offsetting of 300,000 metric tons of greenhouse gas emissions<sup>1</sup>



<sup>2</sup>equivalent to 42% reduction

Sope 3



**12.3% less CO<sub>2</sub>** in the value chain by 2029

- Reduced emissions by 0.6% or 50,000 tons vs. prior year
- Collaboration with CDP Supply Chain Initiative, TfS and WBCSD to standardize calculation for product-related carbon footprint



<sup>3</sup>equivalent to 12.3% reduction

30% less greenhouse gas emissions by 2030<sup>6</sup>

- Continued efforts in Carbon Initiative: 17 months since launch in 2020, >2,600 growers enrolled in 10 different countries, >1.4M acres added & 500,000 tons of carbon sequestered in soil
- Innovative, profitable and tailored solutions through integrated environmental metrics in field trials
- Active partner in advancing carbon neutrality in ag (e.g., EU Carbon+ Farming Coalition, Global Soil Health Program)











## Support 100m Smallholder Farmers

Accessing smallholders improves lives and creates business opportunities



~550 M Smallholder Farmers worldwide



Lack of access to Limited access to new technologies knowledge



productivity of their crops



Climate change



Feed developing countries



Exposed to the markets; Lack of access to price volatility and fluctuations



markets and capital



malnutrition



Additional challenges caused by Covid-19

**Commercial operations:** 

Regional commercial strategies focused on smallholders' needs

Value-Chain-Partnerships:

'Better Life Farming' centers and integration into other value chain ecosystems

**Digital Solutions:** 

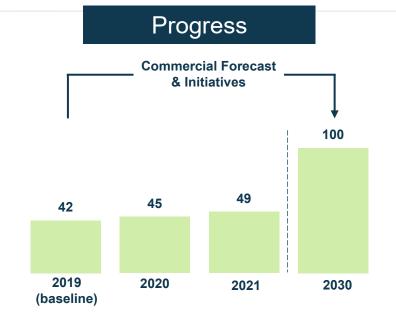
Digital Incubator & Innovation Hub in APAC

Portfolio Differentiation:

Better & affordable crop protection products, tailored to local farmer needs

License-to-Operate & Biotech Approvals:

Large regulatory approval pipeline in Africa and APAC to enter new markets



#### Progress in 2021:

- Strong business expansion in regions
- Key initiatives continued (e.g. partnerships, rapid Better-Life-Farming expansion, piloting of new digital ventures)

Numbers reflect people (millions)

How to get there



## Access for 100m Women to Family Planning

## Catalyst for important societal and economic impact

## >200 million women in developing regions who want to avoid pregnancy are not using safe and effective family planning methods, central to women's empowerment

- Reducing poverty, protecting maternal and child health, driving economic development, and achieving sustainable development
- Gender inequality is still high, teenage pregnancy and maternal death are serious health concerns, especially in LMICs
- The need to provide reproductive supplies and services will further increase
  - By 2030, an additional 130 million women in LMICs will have entered reproductive age

## **Additional supply capacity**, most importantly for long-acting contraceptives: >400m€ investment into Costa Rica and Finland facilities

- Capacity building<sup>1</sup>, e.g. cooperation with urban health project 'The Challenge Initiative' (TCI)
- Route to women in rural areas and humanitarian settings in cooperation with partners (e.g. UNFPA)
- Long-term: Innovation, e.g. non-hormonal contraceptive technologies



#### Progress in 2021:

- // Two partnerships integrated: TCI & UNFPA Egypt
- Major funding cut by UK government to UNFPA's supplies partnership

Numbers reflect women using modern contraception (millions)

Challenges



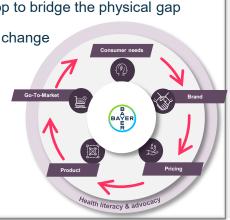
## Access to Self-Care for 100m People in Underserved Communities

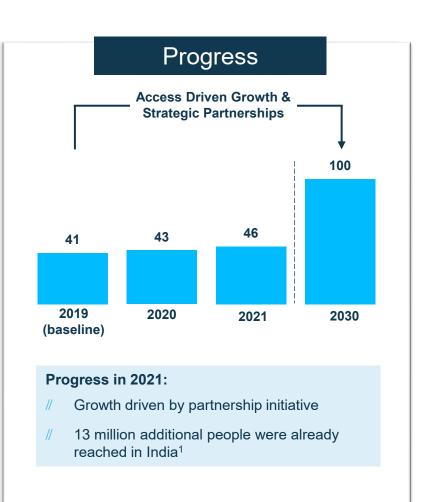
#### Everyday health as the first and last line of care

#### Ageing population, a rise in lifestyle related diseases and a constantly increasing level of healthcare costs

- Expanding access to self-care solutions helps with early intervention and lowers healthcare costs for society
- Consumers are 4-6 times more likely to purchase, protect, champion or trust brands with a strong purpose

- **Appropriate Portfolio**: adapting our science-based portfolio to design everyday health solutions with the underserved in mind, from formula to pricing
- Deeper Penetration: meeting low-income consumers where they shop to bridge the physical gap
- Self-Care Education initiatives form the basis for shaping behavioral change to empower consumers to manage their own health better
- Partnerships and Initiatives, e.g. the Nutrient Gap Initiative
- Activating our trusted OTC brands and end-to-end value chain
- Focus on high impact markets: US, LATAM, ASEAN, METAP





#### Numbers reflect people (millions)



## Strong Governance Measures Accompany our Strategy

## Our CEO is Chief Sustainability Officer



#### **Established Governance Bodies**

• Supervisory Board ESG Committee advises & monitors management, systematically assesses contribution to SDGs

• External Sustainability Council<sup>1</sup> as institutionally anchored independent expert advisory



#### **Sustainability Goals Part of Compensation**

- Group-wide goals (access & scope 1-3 targets) have a 20% weighting in the long-term incentive
- · Additional qualitative goals are reflected in the short-term incentives



#### Focus on Transparency<sup>2</sup> Engagement and Reporting

- Group Positions<sup>3</sup> published on important sustainability matters
- Science Collaboration Register launched
- Reporting in line with sustainability frameworks (SASB, TCFD)



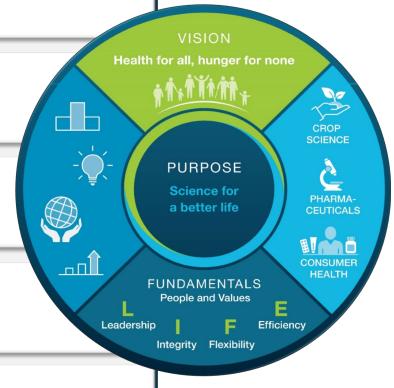
#### **Group-Wide Regulations as Mandatory Framework**

• BASE<sup>1</sup> principles guide our interactions with all stakeholders



#### Sustainability as Integral Part of Bayer Processes

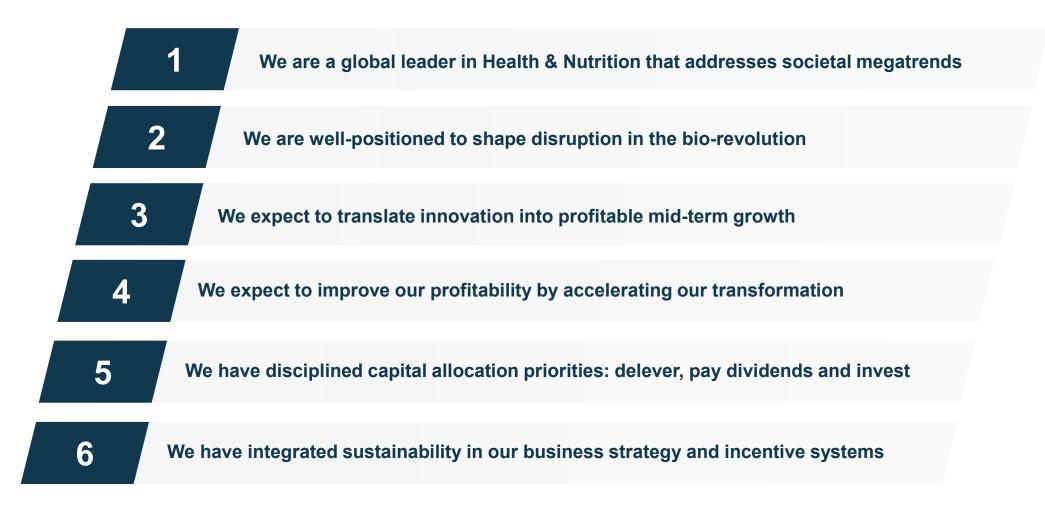
• Gradual <u>integration in processes</u> of functions & divisions such as Strategic Planning (e.g. internal CO2 price of €100 per metric ton for CAPEX projects), Risk Management, Procurement, Research & Development and Human Resources





## **Investment Thesis**

#### **Key Takeaways**





Science for a Better Life

A Global Leader in Health & Nutrition

**Investment Case** 

August 2022 / Bayer AG

