

Science for a Better Life

A Global Leader in Health & Nutrition

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Investment Case
August 2023 / Bayer AG





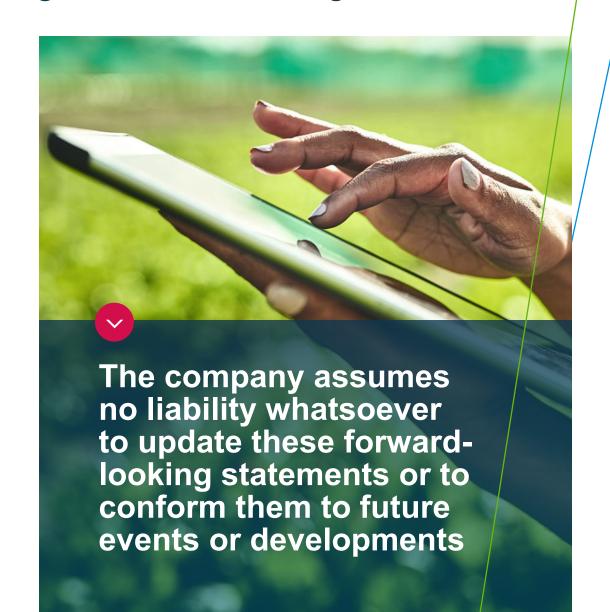
Cautionary Statements Regarding Forward-Looking Information



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

Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Bayer's public reports which are available on the Bayer website

► WWW.BAYER.COM





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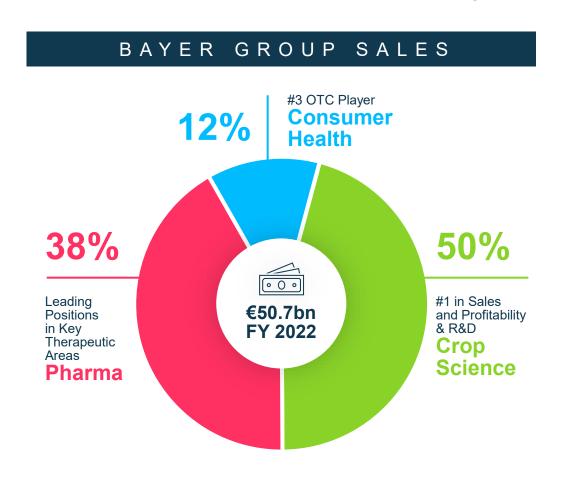
Sustainability





Bayer: A Global Leader in Health and Nutrition

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





¹Source: Company Estimates, >€200bn market opportunity by 2030 includes global Ag input market + related adjacencies

²Source: IQVIA Market Prognosis as of September 2022

³Source: Nicholas Hall

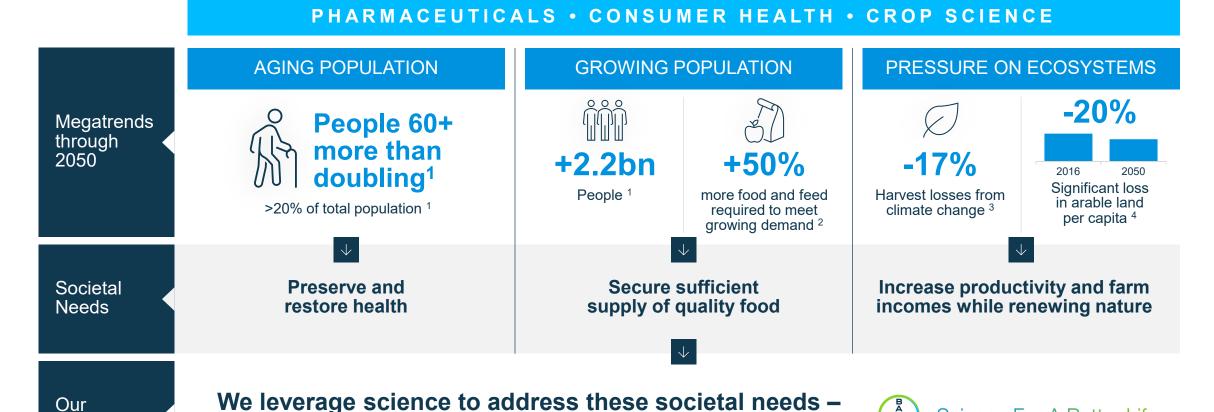


Science For A Better Life



Global Megatrends in Health & Nutrition

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



Mission

with the ultimate goal to improve people's lives

¹ UNDESA 2017 (United Nations Department of Economic and Social Affairs, Population Division (2017). World Population Prospects: The 2017 Revision)

² FAO 2017, (FAO Global Perspective Studies)

³ Nelson et. al. (2014): FAO 2016 "Climate change and food security"

⁴ 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:



€2.6bn1

Kev Current Launch **Products:**









Key Mid-/Late-Stage Pipeline Opportunities

- // Preceon Smart Corn System featuring Short Stature Corn
- // Soybean Herbicide Trait Stack with Five-Tolerances
- // New Herbicide Molecule
- // New Fungicide Molecules
- // Next Gen Corn Insect Traits (LEP4, 5, CRW4)

PHARMACEUTICALS INNOVATION PIPELINE

Annual R&D Investment:



Kev Current Launch **Products:**









Key Mid-/Late-Stage Pipeline Opportunities

Finerenone

// Non-diabetic CKD

// Heart Failure

Factor XI(a) portfolio

// Thrombo-embolic diseases

Elinzanetant (KaNDy NT-814)

// Vasomotor symptoms during menopause

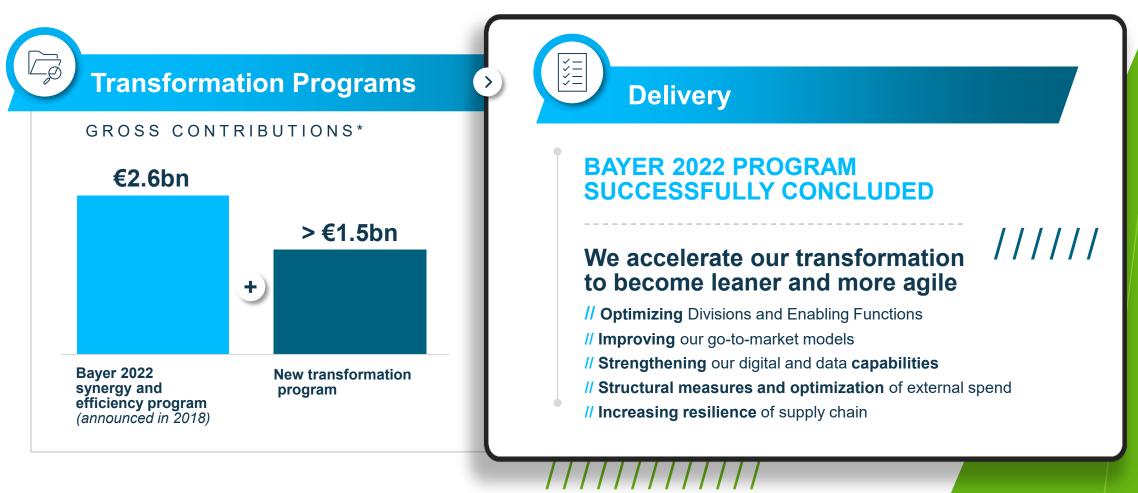






New Transformation Program with Gross Contributions of >€1.5bn

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



^{*} 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 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

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

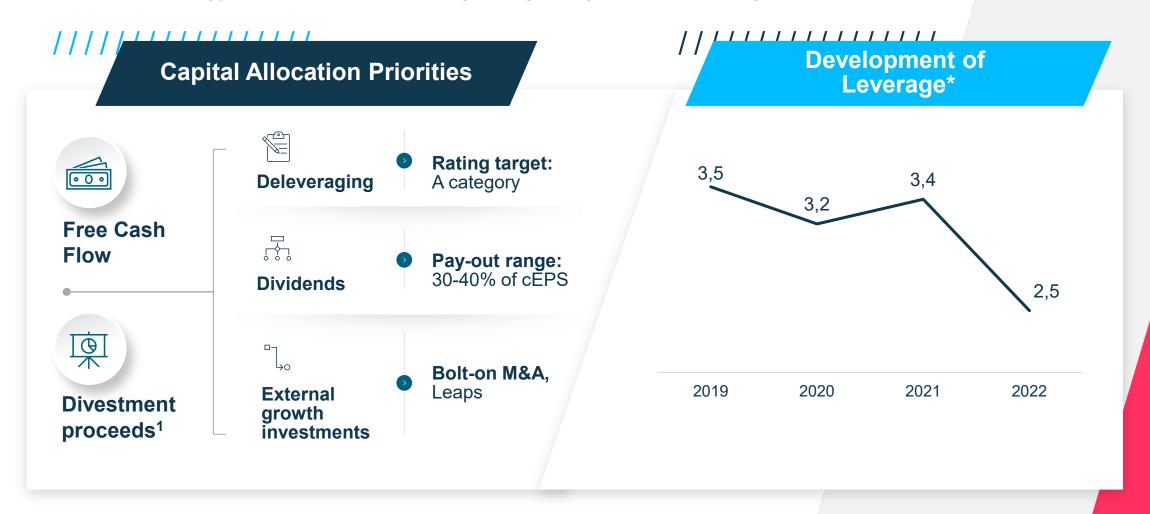






Disciplined Capital Allocation to Delever, Pay Dividends and Invest

Financial Strategy Directed Towards Regaining Long-Term "A" rating



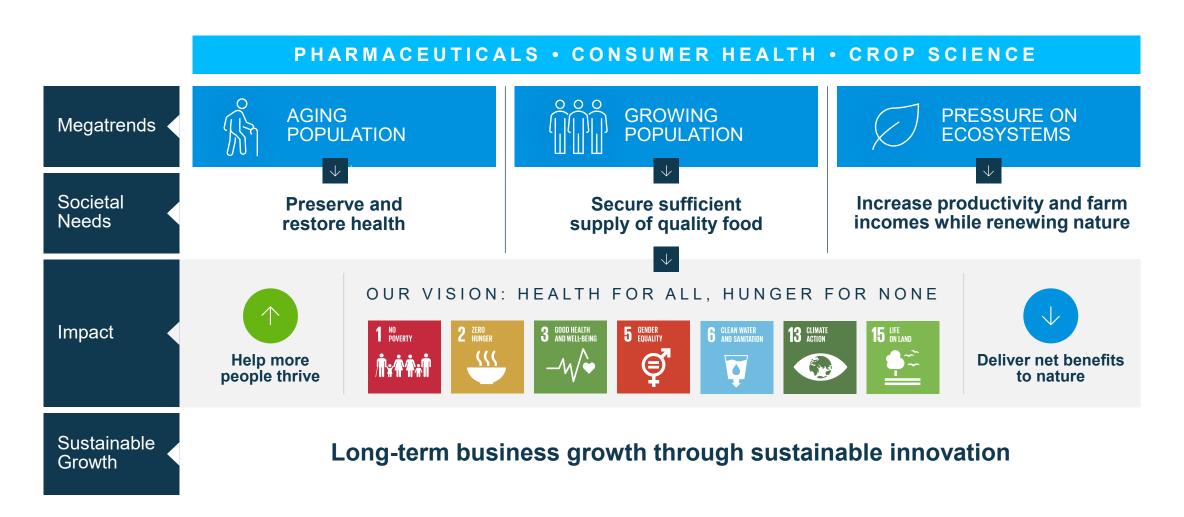
^{* (}Net Financial Debt + Pensions – 50% of Hybrid Volume) / reported EBITDA before special items





Sustainability is Integral to Our Values, Strategy and Operations

We intend to create bold impact and generate sustainable business opportunities







Investment Thesis

Key Takeaways

- 01
- We are a global leader in Health & Nutrition that addresses societal megatrends
- 02
- We are well-positioned to shape regenerative agriculture
- 03
- We expect to translate innovation into profitable mid-term growth
- 04
- We expect to improve our profitability by accelerating our transformation
- 05
- We have disciplined capital allocation priorities: delever, pay dividends and invest
- 06
- We have integrated sustainability in our business strategy and incentive systems



Science for a Better Life

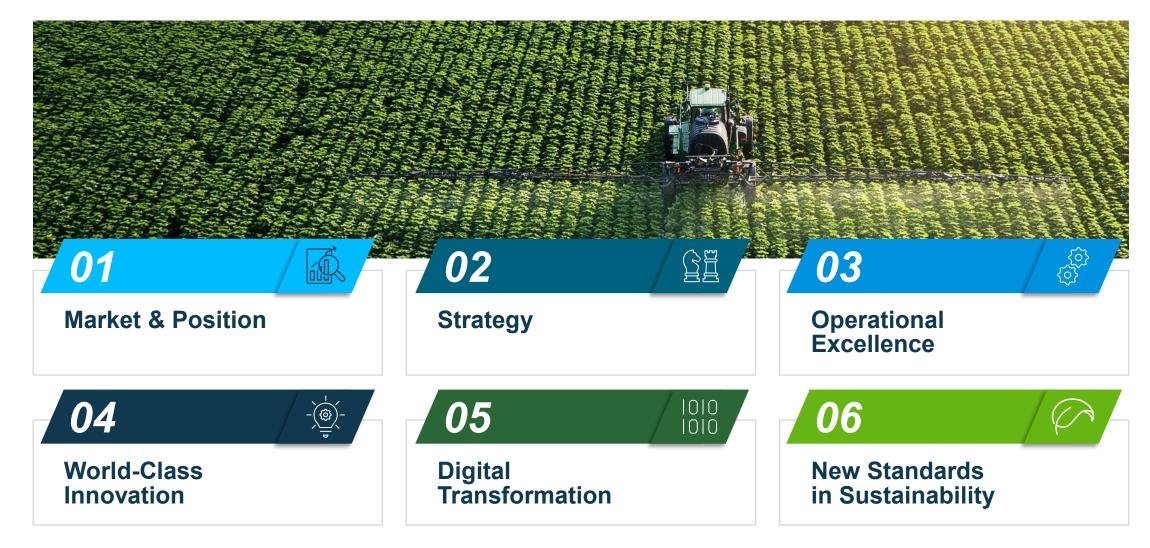
Shaping the Future of Regenerative Agriculture

Investment Case August 2023 / Bayer AG





Shaping the Future of Regenerative Agriculture

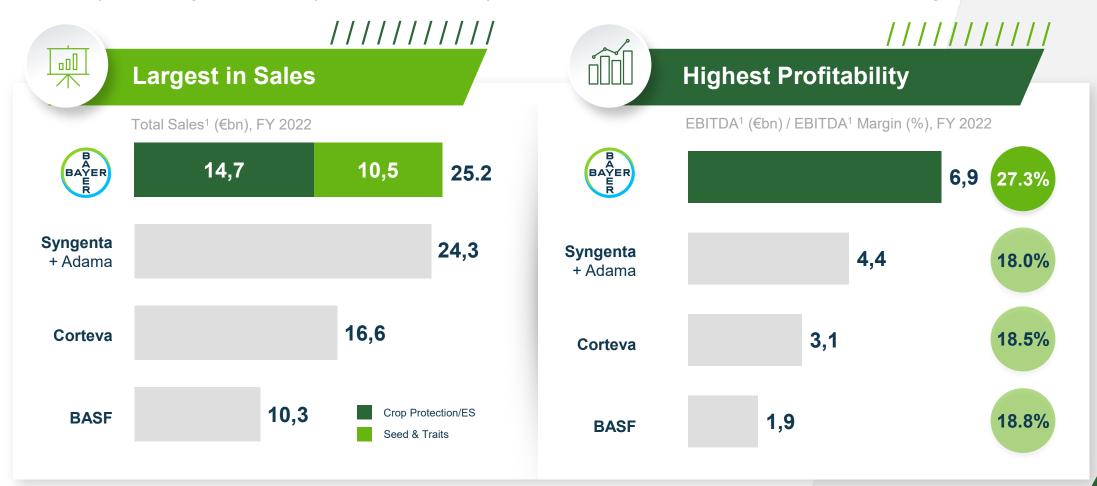




The Established Leader in Crop Science

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Industry Leading Profitability underpinned by ~€2.6bn in Annual Seed & Trait Licensing Revenue



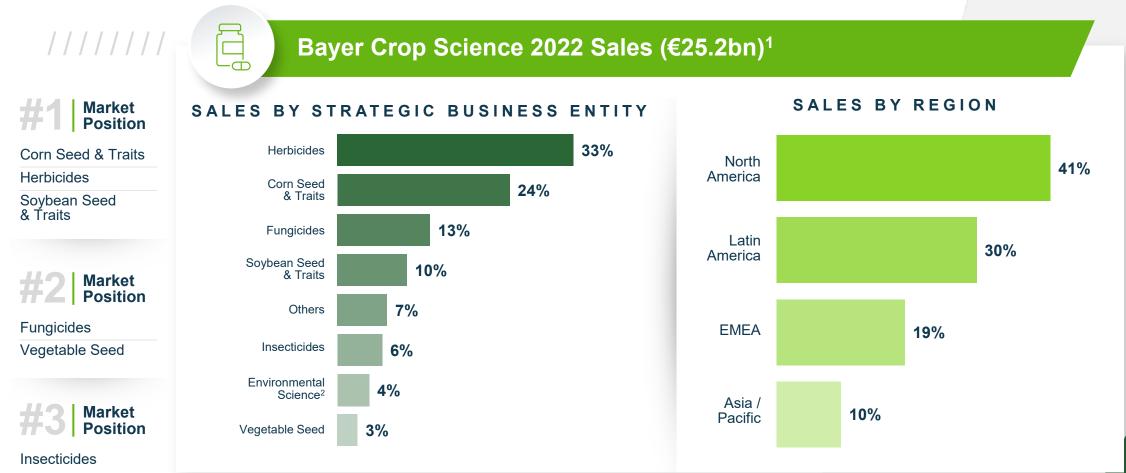
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¹ Company information; exchange rate: FY 2022 ~1.05 USD/EUR. EBITDA before special items; Representing the legacy Syngenta AG results plus Adama



Growers Worldwide Recognize the Value We Deliver

#1 in Seed & Traits with Leading Crop Protection Portfolio in €100bn Global Ag Input Market



Note: Market Position determined annually, as of Q1-2023

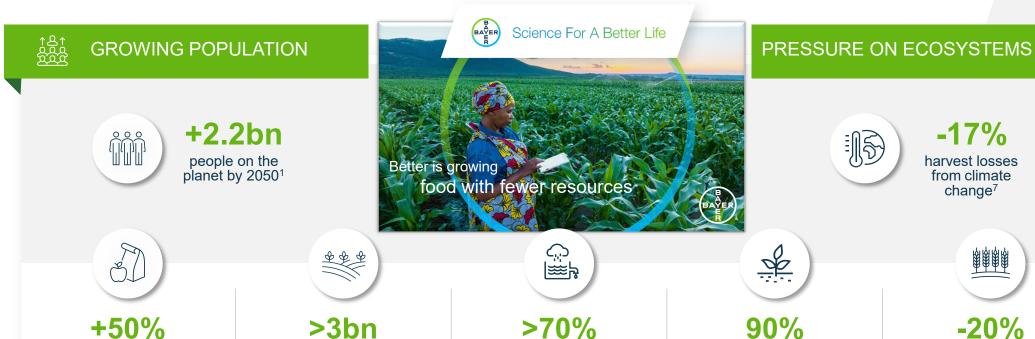
¹ Company information; exchange rate: FY 2022: ~1.05 USD/EUR.

² Environmental Science Divestiture - October 2022



Our Global Food Systems are Under Increasing Pressure

Demand for Sustainably Sourced Food and Renewable Fuels Never Greater



of all available

freshwater is used

in agriculture4

people live in agricultural

areas with high to very

high water shortages³

more food and feed

required to meet

growing demand²



-17%

harvest losses from climate change⁷

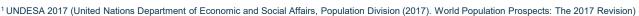
of all soils are

expected to be

degraded by 20505

-20%

loss in arable land per capita by 2050⁶



⁵ FAO Saving our soils by all earthly ways possible | FAO Stories | Food and Agriculture Organization of the United Nations

² FAO 2017, (FAO Global Perspective Studies)

³ FAO, 2020 (Water Scarcity | UN-Water (unwater.org))

⁴ UN-Water, 2021 Water Scarcity | UN-Water (unwater.org))

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

⁷ Nelson et. al. (2014): FAO 2016 "Climate change and food security"



Lead

with Regenerative Ag Solutions



Our Strategic Priorities





Maintain Leadership positions in our core markets



Shape Regenerative Ag by investing to increase food production, farm incomes and resilience in a changing climate, while renewing nature



Digitally Enable Our Sales to offer full crop system solutions, creating an outstanding customer experience



Invest in innovation to Win in new markets

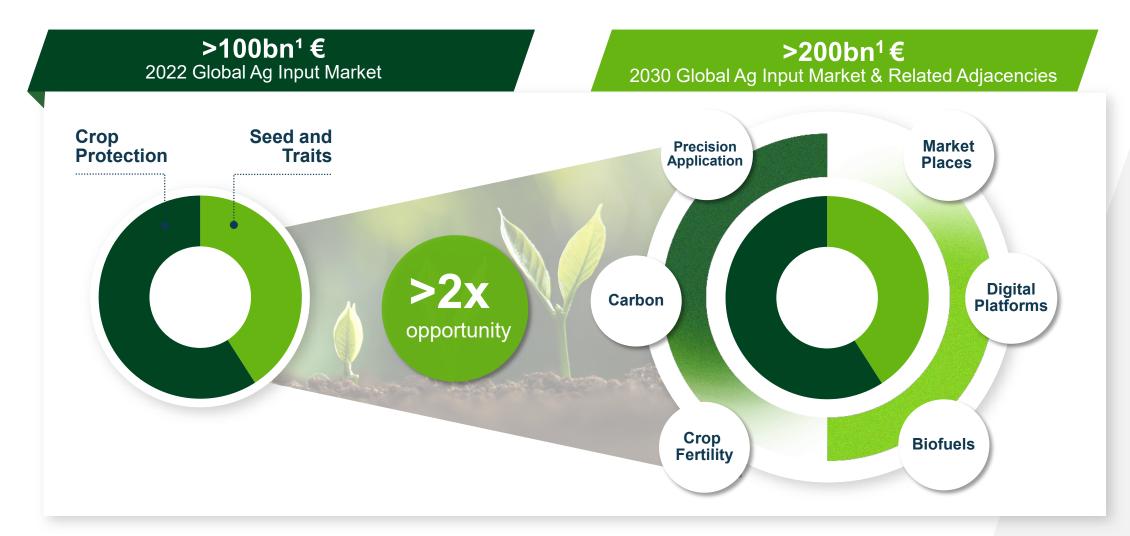


by being more grower centric



More than Doubling Our Accessible Market by Driving Productivity and Sustainability Together to Unlock Adjacent Spaces





¹ Company estimates



A Clear Operational Plan to Create New Value and Outperform the Market in the Mid-term

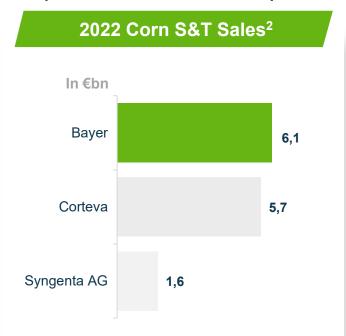


- Deliver growth in **crop protection** sales through **new products**, **integrated offerings** and effective management of **glyphosate-based herbicide dynamics**
- Grow corn seed & traits with annual portfolio refresh and new insect traits
- Upgrade the Americas to next-gen soybean trait technology
- Implement new vegetable seeds strategy and launch new traits in cotton to drive growth
- Execute **efficiency program** to reinvest in new opportunities and drive margin expansion



#1 Position in Global Corn Seed & Traits

Expect to Widen the Gap with Corn S&T Pipeline with €11bn of Peak Sales Potential¹



	Bayer 2022 Corn Seed Share ³						
		Seed Share & Position ⁴		Trait Share ⁵			
	U.S.	>55%	#1	~85%			
	Brazil	~35%	#1	~35%			
(8)	Argentina	~50%	#1	~50%			
	Mexico	~75%4	#1	NA			
****	Europe	~20%	#2	NA			
	South Africa	~75%	#1	~65%			

Key Seed Brands					
▲ CORN STATES	Í				
Channel.					
Kruger AGROESTE					
GOLD COUNTI SEED FOOTS, FIELD F					
agroceres Fontanelle					

Key Corn Traits in Bayer Pipeline – Underpinned by Annual Launch of >250 New Hybrids Globally









Short-Stature Corn – Biotech Trait 4th Gen Lepidoptera Trait

4th Gen Coleoptera Protection Trait

HT5 Corn

5th Gen Lepidoptera Trait

2022

2023

2024

2027

2030

¹ Expect ~50% of peak sales potential to be incremental and expect ~80% of the projects to reach peak by 2037; ² Source: Bayer and Corteva as reported in FY 2022, exchange rate FY2022: ~1.05 USD/EUR, Syngenta based on AgbioInvestor estimates; ³ Internal estimates; market position, seed (germplasm) share and trait share measured as of 2022 for U.S. and Europe and as of 22/23 season for Brazil, Argentina, Mexico and South Africa; ⁴ Includes the sum of branded plus licensed seed share in the respective countries/region; ⁵ Represents the percentage of corn acres planted in the country that contain at least one Bayer biotech trait



Rollout of Most Advanced Corn Rootworm Control Trait Continues

CRW3: Industry's Only RNAi-Based Corn Rootworm Trait Launched in Brazil in VTPRO4 and in the U.S. in SmartStax PRO; Expected 2024 Launch in VT4PRO in U.S. as Additional Offering

LAUNCHED / / / / / / / BRAZIL/ ARGENTINA 20/21



2023/2024e: >15m acres



- Most advanced technology for control of insects in Brazil corn
- Two modes below-ground insect control, including **CRW3**, plus three modes aboveground insect control and glyphosate tolerance

SmartStax PRO
LAUNCHED U.S. 2022
2022: ~100k acres
2023e: >1m acres

Average Root Rating: 0.30

Location: Ireton, lowa July 20, 2021

Average Root Rating: 1.20

- SmartStax PRO with RNAi
 Technology has less average
 corn rootworm damage in 100% of
 the trials vs. Corteva Qrome®
 products in 34 Bayer trials in
 medium to very high corn
 rootworm pressure environments¹
- For each root node damaged by CRW larvae, a yield loss of ~15% can be expected.³ Root injury score of **0.97 nodes** in a 200 bu/acre yield environment could result in **29 bu/acre yield loss**
- ~30m acres infested with CRW in the U.S.



VT4PRO with CRW3 expected 2024 launch in the US; additional offering with 5+ bu/ac advantage over Corteva Qrome products³

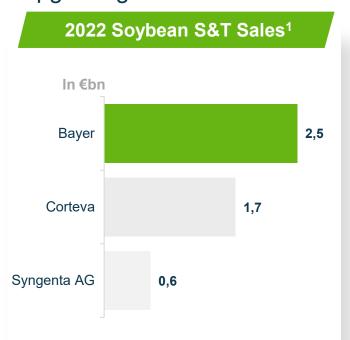
¹ Head-to-head comparisons across 34 Bayer trials in medium to very high corn rootworm pressure environments;

² Tinsley, N.A., Estes, R.E. and Gray, M.E. 2012. Validation of a nested error component model to estimate damage caused by corn rootworm larvae. Journal of Applied Entomology. DOI:10.1111/j.1439-0418.2012.01776.x ³ Based on 2022 Bayer breeding data generated over 253 locations, 2838 comparisons of 2024 launch class of VT4PRO with RNAi technology vs. key commercial Grome products within +/- 2 RM maturity range



Global Soybean Seed & Trait Sales Leader

Upgrading the Americas with Recent XtendFlex and Intacta 2 Xtend Trait Launches



Bayer 2022 Soybean Seed & Trait Share ²							
	Seed Share &	Seed Share & Position ³					
U.S.	>35%	#1	~50%				
Brazil	~15%	#2	>80%				



Key Soybean Traits in Bayer Pipeline – Underpinned by Annual Launch of ~150 New Varieties in the Americas



¹ Source: Bayer and Corteva as reported; Syngenta based on AgbioInvestor estimates – exchange rate FY'2022: ~1.05 USD/EUR; ² Internal estimates; market position and seed (germplasm) share measured as of 2022 for U.S and as of 22/23 season for Brazil; ³ Includes the sum of branded plus licensed seed share in the respective countries/region; ⁴ Represents the percentage of soybean acres planted in the country that contain at least one Bayer biotech trait.



Bayer Maintains #1 Leadership Position with XtendFlex Technology and XtendiMax Herbicide Performance



O3

Upgrade to >20m XtendFlex Acres in North America in 2022



In North America soybean performance¹



Only technology that includes **14-days residual activity**; Controls significantly more weeds than the Enlist system²

~45m acres in Bayer's soybean technology in 2022; retained leading position in 2022



- Provides tolerance to dicamba and glyphosate
- Recommended Herbicide Pairings:







- Proven performance, high-yield potential, strong agronomics
- Broadly licensed across the industry



- Adds glufosinate tolerance to the proven performance of Roundup Ready 2 Xtend Technology to provide additional flexibility to manage tough-to-control weeds
- Recommended Herbicide Pairings:





Glufosinate

- Reached >20m acres in the U.S. in 2022
- Over the last 4 years, RR2Xtend & XtendFlex soybeans saw a 2.9+bu/acre advantage vs. Enlist™ E3 soybeans

¹ Bayer internal estimates; ² Based on EPA labels of the chemistries; ³ Soybean Crop Trials (184 locations with 20 in 2019 (Roundup Ready® 2 Xtend), 57 in 2020 (Roundup Ready® 2 Xtend), 67 in 2021 (XtendFlex® Soybeans) and 40 in 2022 (XtendFlex® Soybeans) reporting data located with 22-IA, 24-IL, 23-IN, 11-KS, 1-KY, 7-MI, 30-MN, 10-MO, 1-MS, 5-ND, 17-NE, 15-OH, 1-OK, 11-SD, 4-PA and 2-WI,). Significant at P ≤ 0.10 LSD at 0.6 Bu/A as of 12/13/2022. Roundup Ready® Xtend Crop data = XtendFlex® soybeans with a farmer-selected (or in case of Bayer Trials, Bayer-selected) weed control program that may include dicamba, glyphosate, glufosinate and various residual herbicides. Enlist Tole on the program of Bayer Trials, Bayer-selected) weed control program that may include glyphosate, Enlist One® herbicide, Liberty® 280 SL herbicide and various residual herbicides.



Next-Gen Intacta Traits to Expand Leading Soybean Franchise

(§) (§)

Intacta 2 Xtend Successfully Launched; IP3 and IP4 in Pipeline to Deliver >€800m peak sales potential

1st Generation



2ndGeneration

INTACTA 2

3rd and 4th

INSECT PROTECTION

#1



- Excellent control of soybean loopers, velvetbean caterpillar and axil borer
- Olyphosate tolerance provides proven weed control and enables conservation tillage
- On ~**85m** acres in Brazil in 2022/23



- Industry-first with three proteins for insect control and resistance management, plus adds dicamba tolerance for tough-to-control weeds
- LAUNCHED in Brazil in 2021/22 season. Targeting >10m acres for the 2023/24 season
- Performance advantage of 2.89 bu/acre











- Delivering multiple modesof-action for insect control
- IP4 ADVANCED to Phase 2; focused on Brazil
- >€800m peak sales potential



June 2021

IP3 = 3rd generation insect protection trait in soybeans // IP4 = 4th generation insect protection trait in soybeans // 1 Data based on number of traited acres per Bayer internal estimates



Next-Generation Traits Further Enhance Cotton Productivity

Driving Sustainability and Profitability in our >€600m Cotton S&T Business¹

Global Leader in Cotton Seeds and Traits



U.S. Germplasm Share of Market: >60%



Trait Share of Market:

U.S. ~70% Brazil >40% Australia 100%



Next Generation Cotton Trait Technologies

Building on Bollgard 3 **XtendFlex Technology** with 2023 commercial launch of ThryvOn **Technology**

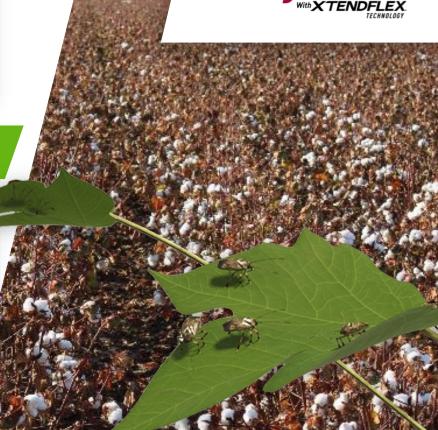
Phase 3:

4th gen herbicide tolerance, adding HPPD and PPO tolerance to XtendFlex

4th gen Bollgard 4 cotton also in Phase 3, offering multiple modes of action to control lepidopteran insects



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



^{1 2022} cotton seed & trait sales for Bayer Crop Science; shares measured as of 2022 for U.S and as of 22/23 season for Brazil and Australia 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.



Vegetable Seed Business on Path to Regain #1 Position



Seminis

Driving Vegetable Seed Profitability and Growth



- Expect above market growth across all **four customer segments**: protected, smallholder, open field and processing
- Deployed >90 new varieties in 2022; sell ~2,000 vegetable hybrids and varieties in 22 crops across 110 countries
- Developing innovative varieties to drive more sustainable and regenerative food systems and increase access to essential nutrients
- Portfolio well positioned to deliver on expanding markets in **EMEA** and **APAC**
- Focused on value creation by driving customer operations & innovation excellence
- Partnering across the value chain to deliver products for sustainability & consumer value

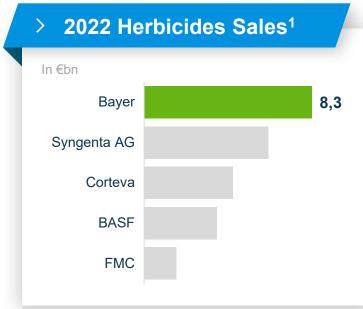




Leading Positions in Global Crop Protection

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Driving >€13bn in Sales in 2022









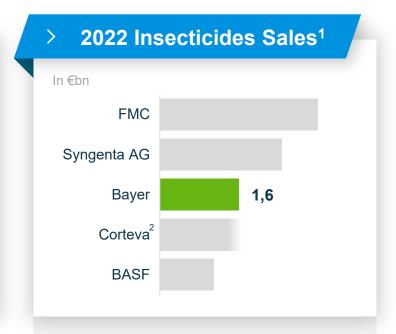




Chart shows comparison to strategic peer group

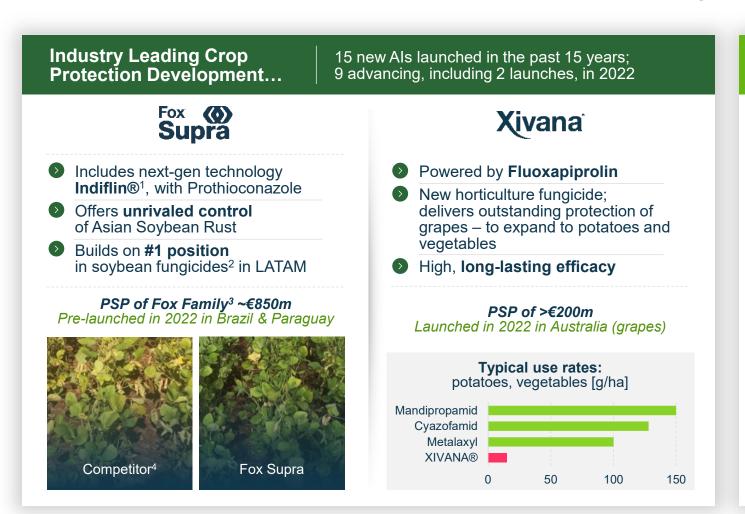
Source: Company reporting, exchange rate FY2022: ~1.05 USD/EUR

² Corteva Insecticides sales exclude non-crop business, internal estimates



Bringing New Crop Protection Innovation to Market

Launched Two New Actives, 10 New Formulations and >250 Registrations in 2022

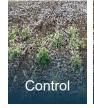


... drives our Life **Cycle Management**

10 new formulations launched in 2022

∲TriVolt

- Pre-emergence selective corn herbicide for U.S.
- Launched in 2022
- Contains 3 Als: Thiencarbazone. Flufenacet and Isoxaflutole to provide overlapping residual control of key broadleaf weeds and grasses





Mateno[®] Complete

- Includes Aclonifen, a new herbicide mode of action for Australia
- Launched in 2022
- Suitable for use in wheat and barley for hard-to-control grass and broadleaf weeds





Fox products also sold under Cripton brand name in other markets; 1 In collaboration with Sumitomo; 2 Internal estimates; 3 for soybeans in LATAM; 4 BASF Orkestra Ultra; PSP = Peak Sales Potentia





Building on the Leading Portfolio of Biological Solutions to Meet





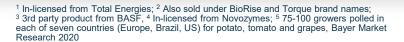
Leading Position





Select Key Product Offerings

- ▶ Bayer is the #1 Trusted Brand in Biologicals by Growers⁵
- Delivering ~€200m in annual sales in 2022
- Offering >20 commercial products





- > Acceleron portfolio offers advanced seed treatment solution in the industry (for corn, soybean and cotton)
- Designed to complement, protect, and enhance seeds including Bayer's **DEKALB** corn commercial hybrids from the outset (exclusive combinations of seed treatments merging chemical and biological products)



Biological Insecticide

- Natural product containing fatty acids derived from a by-product of extra virgin olive oil
- >) Consistent broad-spectrum activity across multiple fruit and vegetable crops and pests
- > In-licensed from AlphaBio Control

BAYER E



Serenade Soil Activ Tailored for Soil and Crop Health

(§),

Accelerate Growth in Emerging Global Soil Application Market Across Fruits & Vegetables





NEW Serenade Soil Activ propelling Serenade brands to >€170m peak net sales in next 10 years

Serenade brand family: the biological active bacillus amyloliquefaciens strain QST 713 delivers solutions in emerging soil treatment and expanding bacterial disease markets:

- Serenade ASO offers QST 713's combination of several modes of action to help control foliar bacterial and fungal diseases while reducing residues
- NEW Serenade Soil Activ with its higher concentration of QST 713 spores provides farmers handling efficiency with low use rates and less water consumption
 - The concentrated QST 713 spores, applied in furrow or via drip, can speed up root formation and uptake of nutrients, raising marketable qualities (skin, shelf life, nutrient content)
 - ▶ Launched in U.S., Canada & Australia, sales in all global regions expected with coming registrations



Higher proportion of big potatoes



Better skin finish, improved uniformity



~10% more premium class potatoes



Lower use of water/ac





Sustainably increases marketable yield with spores optimized for improved root colonization

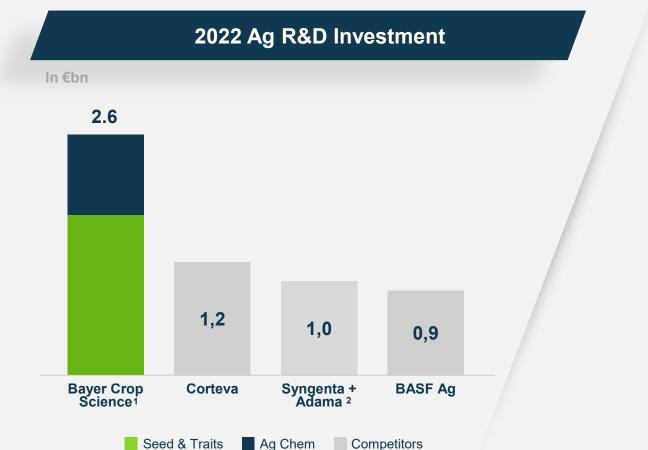


Always read and follow label instructions. Products not registered in all jurisdictions.



Building the Farm of the Future with €2.6bn Annual R&D Investment o4





>7,700

R&D employees³

>100

Key Collaborations

Providing Next Generation Solutions:

>500

Hybrids & Varieties Deployed in `22

New Biotech Traits in Development

>250

New Crop Protection Registrations in `22

30-60

New Molecules in Field Trials Annually



R&D Investment Powers Pipeline with >€30bn Peak Sales Potential 04

~€ 6

~€ 4

~€ 2

~€ 3

~50% of Peak Sales Incremental to Current Annual Sales

by Sales Reporting SBE

Corn S&T

Yellow Hybrid Wheat, ~€700m

Other SBE²

- Digital Platforms, HortiView
- ▶ 100's of cotton varieties, 1000's of vegetable varieties/hybrids, canola hybrids and rice hybrids

Insecticides

- Plenexos Insecticide, ~€500m
- Various LCM projects (formulations and mixtures)
- Digital Farming Solutions Franchise Value

Fungicides

- > Next generation Fungicide Small Molecules, >€1.2bn
- Various LCM projects (formulations and mixtures)
- Digital Farming Solutions Franchise Value

Herbicides

- New Herbicide Small Molecule, >€750m
- Various LCM projects (formulations and mixtures)
- Digital Farming Solutions Franchise Value



- Next Gen Corn Insect Traits (LEP4, 5, CRW4), >€1bn
- ▶ 5th Generation Herbicide Tolerance in Corn
- 1000's of new corn hybrids
- Digital Farming Solutions Franchise Value

Soy S&T

- y 4th and 5th Gen Herbicide Tolerance Trait in Soybeans, >€1bn
- > 3rd and 4th Gen Insect Protection Trait in Soybeans, >€800m
- ▶ 1000's of new soybean varieties Digital Farming Solutions Franchise Value

In €bn

~€ 4

>€30

Cumulative

PSP¹

Upside Opportunities:

- Direct Seeded Rice
- Corn Biotech Traits in new markets in Asia & Africa
- New Herbicide Small Molecule, over-the-top label
- Carbon Farming
- > ~€1.5bn Biologicals Sales Ambition

Phasing of €30bn PSP¹: **30**% by 2032, **80**% by 2037

¹Represents 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. Note that products are excluded from the pipeline PSP typically the year following launch. Projects listed are only a subset of the pipeline.

SBE = Strategic Business Entity; LCM = Life Cycle Management; PSP = Peak sales potential

² "Other SBE" category includes seeds and traits, such as cotton, canola, wheat, OSR, rice, vegetable seeds and sugarbeets, plus digital platforms



Convergence of Leading R&D Platforms to Unlock Next Layer of Value Creation in Agriculture





SEEDS & TRAITS



CROP PROTECTION

DIGITAL FARMING





BIOTECH



CHEMISTRY



BIOLOGICALS



DATA SCIENCE

- > Leading germplasm libraries paired with advanced breeding and data science technology application
 - >3,500 unique field-testing locations
 - >500 deployments in 2022:
 - >250 in corn
 - ~150 in soybeans
 - >90 in vegetables
 - >10 in cotton

- Leading protein optimization technology with extensive protein libraries
- First-ever biotech trait for piercing and sucking insect protection
 - >65 traits products in 27 years reaching ~300m acres annually
 - ~3bn datapoints generated by Precision Genomics team to deliver biotech traits and accelerate genetic gain
 - 12 next-gen. traits in development

- > Strong discovery platform for molecules with new modes-of-action and differentiated profiles
 - 100% Novel Mode of Action in early discovery
 - **30-60** molecules selected for field trials per year

Expect ~90-100

new formulations to launch in the next decade

Launched 15 new actives in past 15 years

- Open Innovation Model to deliver innovative and sustainable solutionsto growers
 - >40 assets under evaluation for new collaborations or in-licensing
 - >1,300 trials in 46 countries in 2022
 - 2 Multi-year strategic partnerships with Ginkgo Bioworks and Kimitec
 - >60m acres in row crops, plus additional high value horticulture and vegetables acres

- database
 of grower and field
 trial seed performance
 data in the industry
 - >115bn

data points of product performance under real-world farmer management practices

>220m

subscribed acres across 23 countries



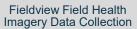
Data Connected Plant Breeding Advantage





Data & analytics driving decisions & Al connected pipeline - enabling a dynamic breeding pipeline







Seed Chipping Technology for accelerated discovery



Marana, AZ Protected Culture Design Center



Cassette Planter delivers large scale field testing



Drone Sensors; globally connected data ecosystem

Phase Three



Seed Bulk-Up for Pre-Launch testing

Customer Insights

Data & Insights

Customer driven quantitative economic indices

Discovery

Population Selection

Population simulation and human supervised, model driven selection for desired characteristics

ery Phase One

Early Design

Advanced genomic selection including future environmental challenges

ne Phase Two

Intermediate Development

Large-Scale Field Testing, Trait Integration and prescriptive data collection to inform models and feed pipeline

Advanced Product Understanding

Traited Testing, Early
Tailored Solutions data
generation, and preparation
of digital data package
for Climate models

Phase Four

Pre-Launch

Broad product testing by R&D and Market Development, Seed Bulk-Up, System Testing and Pre-Marketing

Competitive Advantages

- Extensive environmental and on-farm data driving targeted discovery
- Unique data-driven bio-economic models that allow precise fitting of product concepts
- Industry-leading global germplasm libraries across crops and markets- 100X larger
- Decades of field and genomic data combined with industries leading data science platform
- Ability to rapidly sample and genetically evaluate millions of seeds- 15X faster
- Advanced Product Design facilities that enable multiple cycles of planting per year
- Industry leading Trait Integration programs stack traits into elite germplasm
- Largest global field-testing footprint & digital field-testing twin capabilities diversifies geographic data insights
- Fully automated seed distribution centers prescriptively sample diverse growing environment
- Traited-Testing evaluates products as they would be experienced by the growers
- Most advanced and distributed network of field testing in the industry
- Evaluation of agronomic systems for product deployment & customer recommendations



Deploying >250 Corn Hybrids in 2022 to Expand Leading Position

Foundational to Expected Growth in Our >€6bn Global Annual Corn Seed & Trait Sales

Extensive Corn Germplasm Delivers

- >100m acres of Bayer Corn Germplasm grown in 2022
- Deployed >250 new hybrids globally in 2022; offer **>1,500** hybrids globally
- >7 bu/acre U.S. yield advantage with leading hybrids in like-for-like trait package hybrid comparisons¹
- Best NCGA Yield Performer² in 2022, **winning >70% of the** ~National Spots, with 20 of the 27 spots from Bayer germplasm



Annual yield advantage calculated each year by comparing 3 leading DEKALB products within each state having a minimum of 100 comparisons to national competitor products containing similar crop protection traits as of 2022. All comparisons are head-to-head using +- 2RMs and weighted average calculated using 15% moisture: 2 NCGA = National Corn Growers Association - National Corn Yield Contest.



Soybeans, Cotton and Vegetable Seed Businesses Annual Germplasm Refresh to Drive Sales Growth









- Deployed ~150 new varieties in 2022; offer >850 varieties in North America
- Over last 4 years, RR2Xtend & Xtend Flex Soybeans saw a 2.9 bu/acre advantage¹ over Enlist™ E3 Soybeans
- Deployed >10 varieties in 2022; offer >30 Deltapine varieties in the U.S.
- U.S. lint/acre yield advantage with leading varieties; 2022 was ~70 lbs/ac advantage for Deltapine² vs. top-planted competitor varieties

- Deployed >90 varieties in 2022; sell
 ~2,000 vegetable hybrids and varieties in 22 crops across 110 countries
- Innovative varieties of fruits and vegetables can help develop more sustainable and regenerative food systems and increase access to essential nutrients

¹ Soy Trials: (184 locations with 20 in 2019 (Roundup Ready® 2 Xtend), 57 in 2020 (Roundup Ready® 2 Xtend), 67 in 2021 (XtendFlex® Soybeans) and 40 in 2022 (XtendFlex® Soybeans) reporting data located with 22-IA, 24-IL, 23-IN, 11-KS, 1-KY, 7-MI, 30-MN, 10-MO, 1-MS, 5-ND, 17-NE, 15-OH, 1-OK, 11-SD, 4-PA and 2-WI,). Significant at P ≤ 0.10 LSD at 0.6 Bu/A as of 12/13/2022. Roundup Ready 2 Xtend or XtendFlex® soybeans planted with a farmer-selected (or in case of Bayer Trials, Bayer-selected) weed control program that may include dicamba, glyphosate, glufosinate and various residual herbicides. Enlist Sow Soybeans planted with a farmer-selected (or in case of Bayer Trials, Bayer-selected) weed control program that may include glyphosate, glufosinate and various residual herbicides; ² Cotton 3-year average: 2600 trials comparing top DP varieties within a region vs. the top 3 planted competitors based on market survey data (Kynetec).





Hybrid Wheat: New Production System for the World's Largest Crop

Potential to Shape Transformation of Wheat Production by End of the Decade

Resilient Hybrid Wheat System

- Hybrid wheat expected to provide higher yield and yield stability, with potential fit on a significant portion of the ~555m acres of wheat grown globally and ~€700m PSP
- Envision a more sustainable and resilient system with better nitrogen use efficiency, disease, drought and heat tolerance
- Advancements in **genomic tools** and the **cytoplasmic male sterility system** are enabling the development of hybrid wheat at competitive cost
- 'Blue ocean' market potential to drive value of market for Wheat seed and technologies, which has already happened in crops like corn



Hybrid Wheat Row Configuration Testing Nampa, Idaho | June 2022



Hybrid Wheat Nursery Filer, Idaho | June 2022

Market Leaders in Hybrid Wheat

Different climatic zones in key regions Europe and North America require **distinct approaches**:

Europe

- In 2021, we launched a strategic R&D partnership with RAGT, the European market leader in varietal wheat, leveraging strong complementarity of partners:
 - RAGT: Best-in-class germplasm and rich portfolio of native traits
 - Bayer: Wide array of R&D assets, seed production know-how; leader in CP

US

Hybrid wheat program based on our leading U.S. WestBred germplasm position



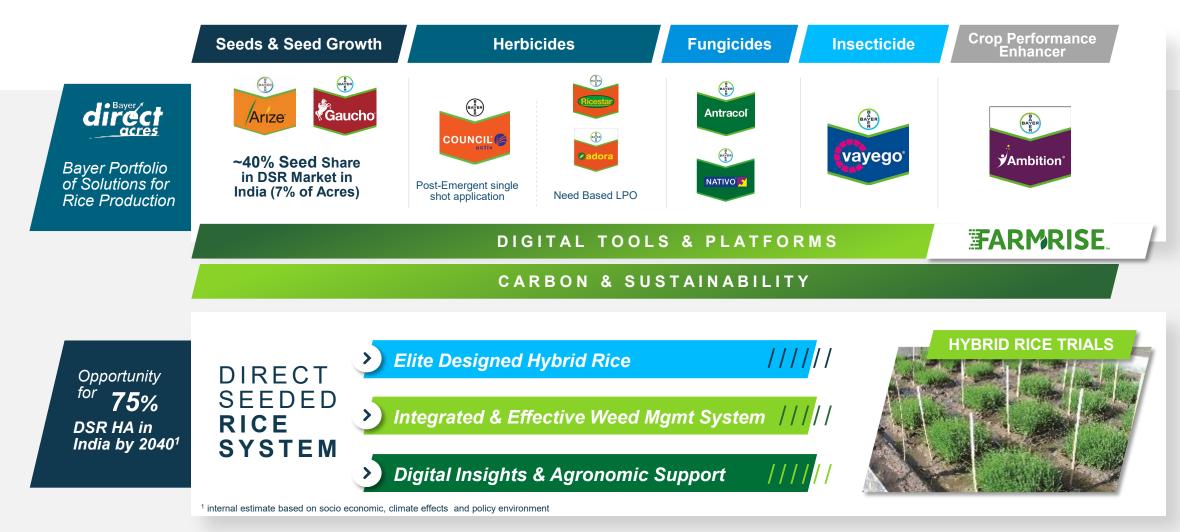
Our Vision

A digitally enabled sustainable hybrid wheat system offering



Bayer Direct Acres: Direct Seeded Hybrid Rice System

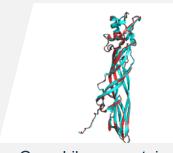
Elite Rice Germplasm, Effective Weed Mgmt. and Digital Tools to Drive Sustainable, Operational Efficiency







Biotech Trait Development Process (12-15 years)



Gene Library contains Millions of Unique Proteins



Gene to Phenotype Optimization



Commercial Candidate Selection



Field Trials for Trait Approval



Phase 0



Phase 1



Phase 2



Phase 3



Phase 4

Trait Discovery

High-Throughput Screening Identifies Desired Characteristics

Proof of Concept

State-of-the-Art Gene and Protein optimization capabilities Drive Product Concept Demonstrations In-Crop

Early Development

Large-Scale Transformation, Commercial Candidate Selection, Pre-Regulatory Data Generation

Advanced Development

Trait Integration, Regulatory Data Generation

Pre-Launch

Regulatory Submissions & Approvals, Seed Bulk-Up, System Testing and Pre-Marketing

Competitive Advantages

Industry-leading microbial gene libraries enable new trait areas and novel MOAs

Application of **cutting-edge RNA** technologies to develop targeted innovative products

Industry leading <u>genome</u> editing toolkits drives novel trait discovery

Best-in-class **synthetic biology gene** expression toolkits drive precision in gene to phenotype optimization

High throughput, Al-driven protein design drives rapid iteration to optimize new MOAs

Development of <u>multi-gene</u> stacks that enable a multitude of solutions for growers

CRISPR technology for targeted insertion to enable product development flexibility

Largest global field-testing footprint diversifies geographic data insights New traits are introgressed into the most elite germplasm, and stacked with the industry's leading traits

Experience successfully launching traits globally

Identification of **optimal agronomic systems** (trait, germplasm, chemistry) for product deployment & customer recommendations



Offers Transformational Shift in Production

Powered by Short Stature Corn Hybrids and FIELDVIEW



Key Features and Benefits Enhance Profitability and Environmental Sustainability of Corn Production



Protection

- 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%¹





Access

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



Spray Rig in Short-Stature Corn Plot Jerseyville, IL August 2019



Yield potential

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



Nitrogen Y-Drops for Precise In-Season Application

¹ Purdue University (http://www.extension.purdue.edu/ay/ay-262.html)



Global On-Farm Trials for PRECEON Smart Corn System

Powered by Short Stature Corn Hybrids and FIEDVIEW



New era in corn production to help farmers manage risk and protect yields



300 on-farm trials on **30,000** U.S. acres



Trialing with large key customers in Brazil, Argentina and Mexico

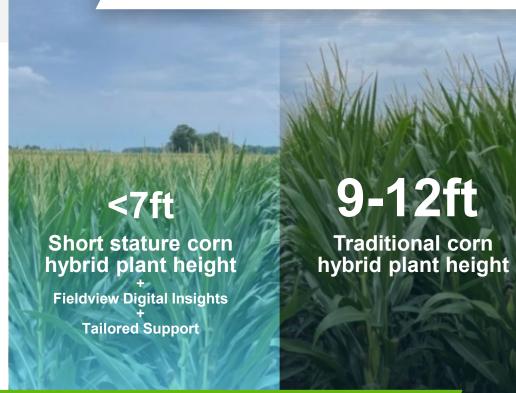


80 trials in 2 countries

APAC

Early phase testing in multiple countries





Highest likelihood to plant a new trait in the history of our trait introductions¹

¹ Source: Online farmer survey Feb./Mar. 2020 (n=900)

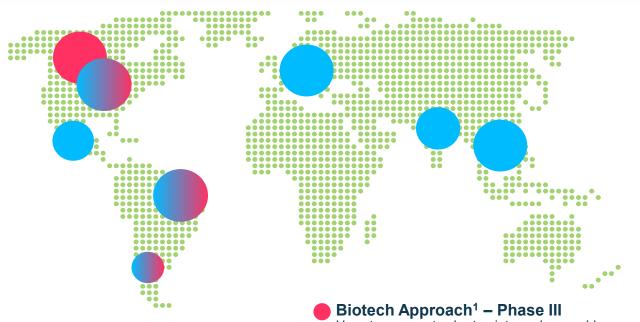


Planning Regional Tailored Approaches

Holistic Smart Corn System Powered by Short Stature Corn Developed via Three Technology Approaches



Planned Technology Approach for Launch of Preceon Smart Corn System



Breeding Approach – Phase IV 2023 Ground Breaker Trials in the U.S. Native Trait: advanced breeding used to introgress naturally occurring short stature characteristics into elite germplasm Uses transgene to shorten internodes; enables applicability across wide array of germplasm

Gene Editing Approach - Discovery Location of launch will be dependent upon regulatory environments

¹ in collaboration with BASF

>220m

Corn Acres Global Potential

Americas Alone Account for 140m Acres

>€1.5bn

Global Peak Sales Potential



Next Gen Soybean Herbicide Tolerance Traits to Provide Industry Leading Flexibility

Drives **~€1bn Peak Sales Potential** by Addressing Farmers' Herbicide Resistance Challenges

4th Gen Herbicide Tolerance (HT4)

In Phase 3

Expected 2027 launch

Adds 2 additional herbicide tolerances:

HPPD (Mesotrione) + 2,4-D



Potential Opportunity Across

>180m Soybean Acres **5**th Gen Herbicide Tolerance (HT5)

Advanced to Phase 3

Adds 1 additional herbicide tolerance:

PPO



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

BAYER



Developing Novel Cash Cover Crop with Potential for Low-Carbon

CoverCress

Bayer Acquires Majority Share (65%) in CoverCress Inc. (CCI)

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

Unique Rotational Agronomic System to Deliver Renewable Fuels to the Market 3 Crops in 2 Seasons to provide growers sustainable benefits and new cash cover crop



CoverCress

- Low carbon intensity rotational cash crop that can deliver many ecosystem benefits of a cover crop and attractive economics of an oilseed crop
- Carbon sequestration 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

Renewable Feedstock

Expect to launch crush-ready CoverCress product mid-2020's

The Need

- 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 (i.e. Farmers will be paid a premium to produce CoverCress; Bunge delivers oil to Chevron to convert to Renewable Diesel/Sustainable Aviation Fuel; CoverCress receives value from crusher (i.e. Bunge))
- CoverCress ownership: Bayer 65%; Chevron and Bunge 35%



Industry-Leading Expertise in Chemical Crop Protection R&D

Designing Molecules to Safely & Sustainably Address Needs of Farmers and Society

Chemical Crop Protection R&D timeline (10-14 years)



Phase 0

Phase 1

Phase 4

Mode of Action & Hit Identification

Al-supported molecular target & hit identification toward designing of potent and sustainable molecules

Competitive Advantage

Powerful target-based discovery platform

Unique early safety assessment with in vitro tests and in silico prediction tools & models

Focus on novel Mode of Action & novel chemical spaces

Proof of Concept

Profiling of best candidates addressing market needs; field trials; chemical & formulation optimization; mammalian & environmental toxicology assessment

Competitive Advantage

Al-supported design of molecules to create desired properties

World-class biology testing

Combined regulatory and chemical expertise allow early decisions to maximize probability of success

Early Development

Commercial candidate selection and product concepts; process development; pre-regulatory data generation

Competitive Advantage

Largest global field-testing footprint diversifies geographic data insights

Industry-leading formulation expertise with locations in Europe, NA, APAC

CoGs leadership ensured by cutting edge science and Al-supported synthesis and route design

Advanced Development

Commercial proof of concept. regulatory data generation

Competitive Advantage

Largest portfolio of assets and digital capabilities to define digitally enabled tailored solutions (CP, Breeding, Plant Biotech, Data Science)

Scientific and agronomic knowledge to design best resistance-breaking products

Pre-Launch

Regulatory Submissions & Approvals, Production, Application Optimization, Pre-Marketing

Competitive Advantage

Unrivaled global regulatory experience advising

Evaluation of agronomic systems for product deployment & customer recommendations



Plenexos... Where Healthier Fields Meet Higher Yields

Our Next Generation Ketoenol Insecticide with ~€500m Peak Sales Potential

> Plenexos will be the first ketoenol insecticide expected to offer both foliar and soil uses

Plenexos will enhance ketoenol insecticides by offering:

- High plant mobility, which will ensure high efficacy against key sucking pests (aphids, whiteflies, scales, mealybugs) at low dose rates for foliar and soil uses
- Featuring a **broad crop scope**, Plenexos will be suitable for application in **arable and horticulture** crops (soybeans, cotton, fruits and vegetables)
- Favorable pollinator and beneficial toxicological profile which will ensure broad flexibility and fit to Integrated Pest Management programs, as well as low residue levels for several uses
- Targeted markets: LATAM, NA, APAC and TAMECIS¹
- First regulatory submissions in key markets in 2022, first launches expected from 2025 onwards²





Increases productivity per acre and field health through improved insect control

Always read and follow label instructions. Products not registered in all jurisdictions. Plenexos is the brand name of the ketoenol insecticide Spidoxamat

1 TAMECIS stands for Turkey, Africa, Middle East, Commonwealth of Independent States; 2 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, or a recommendation to use, any unregistered pesticide for any purpose whatsoever. It is a violation of federal law to promote or offer to sell an unregistered pesticide



New Broad Spectrum Fungicide¹ with a PSP of >€1bn

A New Fungicide with Broad Geographical, Crop and Disease Scope, Currently in Phase 3

New broad-spectrum Fungicide with blockbuster potential



- For global use confirmed in cereals, corn, fruits & vegetables with upside potential in numerous other crops
- Proven Mode of Action in a highly competitive future market
- Favorable regulatory profile
- Providing farmers worldwide with a reliable tool to ensure healthy crops and robust resistance management
- Excellent fit with Bayer's fungicide portfolio, helping to strengthen our leading position

¹ in collaboration with 3rd party; PSP = Peak Sales Potential



Enriching Our Pipeline with Novel and Sustainable Modes of Action of Action

First representatives of CropKey approach are being brought from conception to reality in record time

New Herbicide Molecule

- /// First new mode of action in post emergence weed control in 30 years, based on CropKey approach
- Securing farmers production in situations with tough to control grasses
- Allows use in various new market segments, as well as potential for precision application

PSP of >€750m

Project is currently in Phase 3



Glyphosate Only

Mix Partner + New Herbicide Product concept with new active

New Fungicide Molecule

- Broad-spectrum Horticulture fungicide with a new mode of action, based on CropKey approach
- Control of key leaf spot fungi (incl. Anthracnose) across key regions
- Opportunities to extend beyond horticulture to cereals (barley), oil seed rape and seed treatment1

PSP of >€200m¹

Project is currently in Phase 2







New Fungicide



¹ Expansion into oil seed rape and seed treatment not yet included in PSP; PSP = Peak Sales Potential



Industry-Leading Technology for the Next Generation of Biologicals



Partner of Choice to Bring the Next Generation of Biologicals to Growers



Discovery

Access to a variety of diverse technologies through our Open Innovation Network

Competitive Advantage

Strategic research partners with in-depth understanding of innovative modes of action resulting in novel products

Accelerate competencies in fermentation and formulation optimization of microbial products for agriculture

Optimization

Competitive Advantage

Market leading end use products with ease of handling for customer and good shelf life for distribution

Worldwide network of fieldtesting capabilities for early screening and development of application programs

Development

Competitive Advantage

Understanding of geographic product range with precise guidance on practical

Dedicated resources to understand compatibility, rainfastness and stability of biologicals in jug and on seed

Competitive Advantage

Exceptional customer support with market leading biological products

Sustaining today's leading lineup and pioneering next generation of biologicals

portfolio

Competitive Advantage

Ability to address untapped markets and work within challenging regulatory constraints worldwide



Biologicals Market Expected to More than Double to €30bn by 2035

We aim to Outgrow the Market with a 17% CAGR



consumers' demand for low- and no-residue food products and retailer food sourcing standards drive growers to look for

new innovations in crop protection

Source: Global Agricultural Biologicals Market, Forecast to 2030, Frost & Sullivan, 2022 and internal estimates



Expanding a World Class Biological Platform with Open-Innovation

Partner of Choice with Industry Leading Capabilities in Development, Regulatory and Commercialization

Open Innovation Ecosystem



Robust asset evaluation for in-licensing or distribution of commercial or late stage products

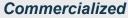


Pipeline advancements through development of internal assets and codevelopment with selected partners



Multi-year strategic research partnerships with technology leaders to develop proprietary portfolio of next generation biologicals

January 2023







- Scouting to meet short to mid-term portfolio needs
- M2i: partner to supply fruit and vegetable growers around the world with pheromone-based crop protection products
- Ecología y Protección Agricola: commercialized Vynyty Citrus

SeedGrowth Corn Yield PHASE 3

SeedGrowth **Bird Repellant** PHASE 3

- Evaluating opportunities for mid-term portfolio differentiation
- Actively advancing products in our pipeline
- Establishing preferred partners for co-development and commercialization





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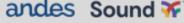




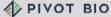
- **Driving next-generation** biological concepts
- Ginkgo: 3-year collaboration on nitrogen optimization, carbon sequestration, and next generation crop protection
- **Kimitec**: strategic partnership to accelerate the development and commercialization of biological crop protection solutions and biostimulants

Complementing efforts with academic partnerships and Leaps by Bayer investments, such as:











Comprehensive Open-Innovation Strategy for Nitrogen Fixation



The Need

- Synthetic nitrogen fertilizer has helped feed >3.5bn people¹
- But accounts for ~3% of global greenhouse gas emissions

Regulatory requirements are

increasing around the globe

Our Approach



In-licensing or distribution



Pipeline advancements



Strategic research partnerships



Transformational Partnership with



- Enhance nitrogen fixing bacteria through synthetic biology
- Leverage Ginkgo's expertise in microbial discovery, our expertise in agronomics, product development and commercialization
- > Exclusive commercialization rights to programs already started at Bayer and/or Joyn Bio
- Aiming to reduce use of added synthetic fertilizers while maintaining the yield potential of the crops

"Pulling fertilizer out of thin air" | |



¹ Source: Our World in Data



Leaps by Bayer Technology Investments Expand R&D Reach

-

18 Distinct Investments in Sustainable Productivity and Improved Nutrition

Leap 03/ Reduce environmental impact of agriculture















Leap 07/ Provide next-generation healthy crops















Digital Platform Optimizing Through the Farm into the Value Chain

Enabling Sustainable Solutions from Farm to Fork

FROM DATA TO VALUE

(>)



Digital shifting from data collection and visualization to an essential tool for all farming operations



Digital is transforming to enable new opportunities across the value chain



Lab & Greenhouse

Farm

Value Chain //

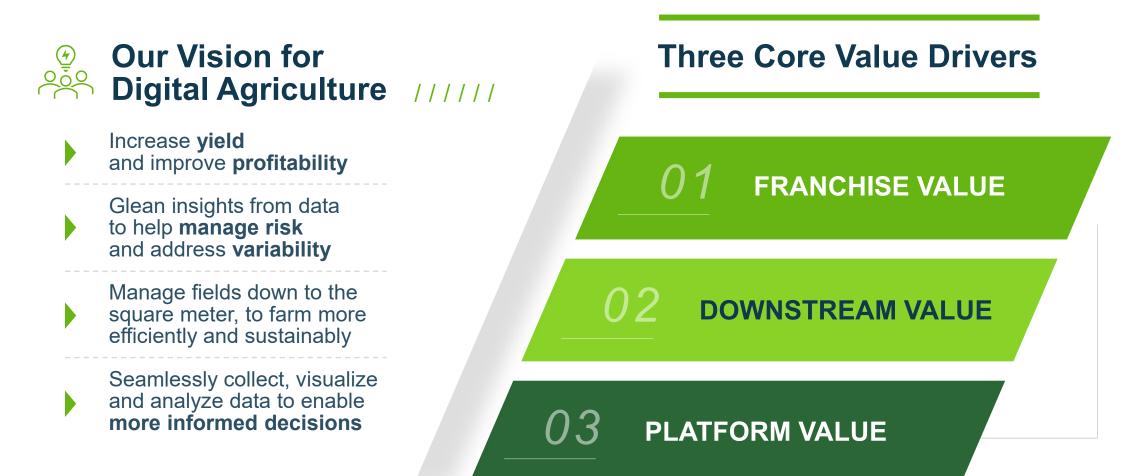
DRONE-BASED APPLICATION
TIMING RECOMMENDATIONS
PEST DETECTION
HYBRID RECOMMENDATIONS

AG MARKETPLACES
DOWNSTREAM VALUE
RISK SHARING
SUSTAINABILITY & CARBON





Digital Farming Brings Transformational Solutions While Driving Significant Franchise Value and Opportunities Downstream and in Value Chain







Fieldview Digital Insights Maximizing Smart Corn System





Comprehensive Digital Agronomic Support

- Hybrid Selection & Placement
- **Planting Density**
- **Planting Date**
- Fertility Recommendations & Timing
- Crop Protection Recommendations & Timing



Spray Rig in Short-Stature Corn Plot Jerseyville, IL August 2019











Advancing Climate Smart Practices on Farm to Achieve Carbon Goals for Growers and Businesses; Creating New Revenue Stream

ForGround by Bayer

Digital platform that helps farmers transition to climate-smart practices and connects growers, acres, and buyers to more meaningful opportunities.



Growers have access to tools, resources, discounts and financial benefits (through Bayer Carbon Program)



Companies have access to carbon assets and services powered by FIEIDVIEW platform to support their sustainability goals

Our Commitment: 30% Reduction of Field Greenhouse Gas Emissions by 2030

Builds on Success with our Existing Bayer Carbon Program

~2,600 participating farmers

10 countries covered

~1.5m acres globally

- // Long-term program providing annual incentives to FIEDVIEW users, enrolled in the program, for verified and validated climate-smart practices like no-till and cover cropping
- // Enables 3 Expected Downstream Revenue Opportunities in >\$200bn/year market1

Carbon Services

Product Sales

Carbon Assets

First revenue generating carbon asset in 2023

Creates new opportunities for growers and businesses alike



- > First food value chain B2B collaboration on ForGround platform spanning across Perdue's entire grain network
- > Perdue grain farmers may be compensated for adopting regenerative practices, allowing Perdue to decarbonize their supply chain



- > Supports Nori in advancement of the carbon marketplace
- Pave the way for price discovery of carbon removal credits on the open market
- Bayer Carbon Program grower payments will be reassessed in accordance with carbon credit market price fluctuations

¹ Source: https://www.reuters.com/article/us-carbontrading-turnover/global-carbon-trading-turnover-at-record-214-billion-last-year-research-idUSKBN1ZN1RN



Industry First Collaboration Offering B2B Digital Solutions that Connect the Farm to the Value Chain





- Azure Data Manager for Agriculture is the **largest connection** point of agricultural data and services **driving interoperability** across the value chain including food, feed, fiber and fuel
- Combines Bayer's ag expertise and leading digital farming platform with Microsoft's cloud technology for unrivaled B2B solutions
- Bayer AgPowered Services, based on proprietary capabilities, now available to the industry on Azure Data Manager's robust infrastructure
 - Imagery Insights

- Smart Boundary Detection¹
- Crop Water Use Maps
- Crop Growth Models¹
- Growing Degree Days
- Provides cloud-based digital tools and data science solutions for ag and agri-food businesses to license and use for internal platforms or customer-facing digital solutions
- Will provide solutions to address farming operations, sustainable sourcing, manufacturing and supply chain improvement, and ESG monitoring and measurement

Enabling Transparency and Sustainability for Companies and Consumers;
Advancing New Opportunities for Farmers

Disorderly Data in Today's Food and Ag Supply Chains Microsoft Azure Data Manager for Agriculture

¹ Additional offerings in development



Orbia JV is the Largest Digital Ag-Marketplace in LATAM

In Combination with **FIEDVIEW**, Provides an Integrated Digital Grower Experience



¹ Brazil-based marketing agency who managed Bayer's loyalty program in Brazil, prior to the formation of Orbia.

² Orbia is named "Nucle" in Mexico // ³ GMV means Gross Merchandise Value, the most common metric for marketplace development



Future of Farming

Broadening our sustainability approach with a regenerative focus



Sustainability

Focus

"Producing more with less"

We're supporting food security while reducing agriculture's impact on nature

We're committed to: (1) minimizing the climate footprint of farming, (2) reducing the environmental impact of crop protection, (3) enabling smallholder farmers and (4) improving water use

Reducing and mitigating:

Increasing productivity while reducing the impact on nature

Regenerative

Focus

"Producing more and restoring more"

We're supporting food security and securing farm incomes while delivering net benefits to nature

We're committed to: (1) minimizing the climate footprint of farming, (2) reducing the environmental impact of crop protection, (3) enabling smallholder farmers and (4) improving water use

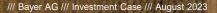


We're delivering nature-positive outcomes by improving soil health, restoring biodiversity and protecting habitats, conserving water and sequestering carbon

We're helping farmers increase productivity and incomes with climate adaptation solutions and new sources of revenue

Adapting and regenerating:

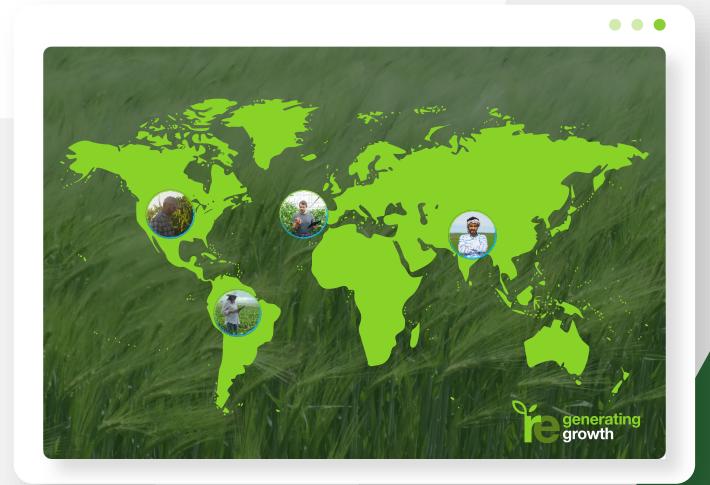
Increasing productivity and incomes while renewing nature





Broadening our Reach to Shape Regenerative Ag on >400m Acres

- // Today our seed & trait technologies reach ~340m acres globally, anchoring our vision for regenerative system solutions
- By the middle of the next decade, we envision broadening our reach to >400m acres
- // Hybrid wheat, direct seeded rice, corn traits in Africa & Asia and carbon farming enable potential in new crops and markets
- // Preceon Smart Corn System and next-gen herbicide tolerance in soybeans build out our base





Delivering Regenerative Ag Benefits and Improved Profitability

00

Example: 130 HA Bayer Forward Farm Agricola Testa, located in Pergamino, Argentina 2019-2022

Increased farmer roi¹

+13%

grain productivity +22%

gross margin/HA

.....And more sustainable agriculture¹

65%

Improvement in carbon balance (CO2 eq kg/ha)

+40%

system biomass production

+1,512 carbon sequestration

carbon sequestration (Kg CO2/HA)

-15% less sprays



Graphical depiction of Bayer Forward Farm in Pergamino, Argentina

Farmer expanded regenerative farming practices to 1,000 HA rented land after seeing these results

¹Since 2015, Agricola Testa has been certified in Good Agricultural Practices in sowing, spraying and harvesting. Results shown here depict the improvements achieved from adoption of no-till agriculture, crop rotation, inclusion of winter & cover crops, implementation of digital agriculture, selection of top performing germplasm, biotechnology traits, a balanced fertilization strategy and monitoring pests for defined control timing practices, from 2019 to 2022 at Bayer's Forward Farm, Agricola Testa, located in Pergamino, Argentina.



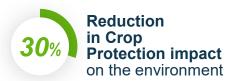
Innovative, Sustainable Solutions to Address Global Challenges

Global Challenges:



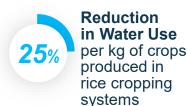
Climate Change Sustainable Energy Sources **Growing Population Increasing Protein** Demand

Our Sustainability Goals:





Reduction in Field Greenhouse gas emitted per kg of crops produced



Empowering 100m smallholder farmers by 2030, to become more productive and profitable

Our Solutions:

- · Novel small molecules and biological solutions with reduced environmental impact
- Short stature corn to unlock additional yield potential by optimizing crop inputs



- Digital tools for carbon sequestration measurement, precise input application
- Next-gen herbicide tolerant traits to enable no-till/ conservation tillage systems
- Covercress cover crops



CoverCress

- · High-performing rice seed
- Digital precision farming
- Innovative crop protection solutions for weed control in lieu of field flooding



- Arize dry-seeded rice varieties and hybrids
- Better Life Farming
- FarmRise Mobile App
- Food Value Chain Partnerships and BayGAP







Science for a Better Life

Shaping the Future of Agriculture



01

Investment Case August 2023 / Bayer AG



Crop Science: Seed & Traits and Digital R&D Pipeline (Annual Update Feb 2023)



Phase I		Phase II		Phase III		Phase IV		PSP	
Corn Disease Shield - NA 2nd Generation Seed Density Digital Tool - NA Annual Germplasm Upgrades	<u> </u>	5th Generation Lepidoptera Protection 5th Generation Herbicide Tolerance w/ (RHS2 Digital Disease Mgmt. – NA Seed Placement Digital Tool - NA) 90	Short Stature Corn – Biotech Trait ² 4th Generation Coleoptera Protection	Ø Ø	Short Stature Corn – Breeding Approach 4th Generation Lepidoptera Protection Seed Density Digital Tool – EMEA Seed Density Digital Tool – LATAM	§	~€11bn	
Annual Germplasm Upgrades	<u>×</u>	Annual Germplasm Upgrades	义	Annual Germplasm Upgrades	义	Annual Germplasm Upgrades	义		
Digital Disease Mgmt NA		Seed Placement Digital Tool – NA 4th Generation Insect Protection	□ ĕ	3rd Generation Insect Protection 2nd Generation Soy Cyst Nematode resistance 4th Generation Herbicide Tolerance (HT4) (5 Tolerances –Adds 2, 4-D and HPPD) 5th Generation Herbicide Tolerance	20€ 20€ }≪ 20€	Vistive Gold Xtend	300	~€4bn	
Annual Germplasm Upgrades Soybean Native Resistance	<u>*</u>	Annual Germplasm Upgrades Soybean Native Resistance		(6 Tolerances – Adds PPO) Annual Germplasm Upgrades Soybean Native Resistance	<u></u>	Annual Germplasm Upgrades Soybean Native Resistance	丛		
Canola/OSR Digital Disease Mgmt NA		Wheat Digital Disease Mgmt EMEA		Canola Dicamba Tolerance Sugarbeets 2nd Generation Herbicide Tolerance ¹ Cotton 4th Generation Herbicide Tolerance (HT4) (5 tolerances – Adds 2, HPPD and PPO) Cotton 4th Generation Insect Protection	20C 20C 20C 20C	Lygus and Thrips Control (ThryvOn Technology) - Stewarded Commercial Launch	ğ	pn	<u>≱</u> Br ∑ Tr
Wheat Annual Germplasm Upgrades Wheat Disease Package Upgrades Cotton Annual Germplasm Upgrades Canola/OSR Annual Germplasm Upgrades Veg- Annual Germplasm Upgrades Rice Annual Germplasm Upgrades	发 	Wheat Annual Germplasm Upgrades Wheat Disease Package Upgrades Cotton Annual Germplasm Upgrades Canola/OSR Annual Germplasm Upgrades Veg- Annual Germplasm Upgrades Rice Annual Germplasm Upgrades	义 义 义 义 义 义	Wheat Disease Package Upgrades Cotton Annual Germplasm Upgrades Canola/OSR Annual Germplasm Upgrades Veg- Annual Germplasm Upgrades		Wheat Annual Germplasm Upgrades Wheat Disease Package Upgrades Cotton Annual Germplasm Upgrades Canola/OSR Annual Germplasm Upgrades Veg- Annual Germplasm Upgrades Rice Annual Germplasm Upgrades		± ± ± advan	□ Dig

Projects listed here and included in the peak sales potential by segment do not include projects funded by our LEAPS investments; includes all advancements made in FY'22, updated Feb'23
PSP = Peak Sales Potential, 50% incremental; Expected to reach 30% of PSP by 2032, 80% of PSP by 2037 and remainder in 2038+; Note that products are excluded from the pipeline PSP typically the year following launch

1 In collaboration with KWS; 2 In collaboration with BASF; 3 "Other" category includes seeds and traits, such as cotton, canola, wheat, OSR, rice, vegetable seeds and sugarbeets, plus carbon and digital Models



Crop Science: Crop Protection R&D Pipeline

€9bn PSP

(Annual Update Feb 2023)

	Phase I	Phase II	Phase III	Phase IV	Life Cycle Management ¹					
HERBICIDES	New Al Development New Herbicide ✓		New Herbicide ✓ ✓ ✓ New Herbicide ✓ New Herbicide³ ✓ \$\frac{1}{4}\$		Non-Selective Glyphosate LCM Selective Merlin Flexx / Adengo LCM Balance Flexx LCM Council Family Convintro New over-the-top herbicide Mesosulfuron LCM Mesosulfuron LCM Mesosulfuron LCM	~€4bn				
FUNGIC.	New Fungicide ✓ 🦏	New Fungicide ✓ ೄ♣ೄ	New Fungicide³ ✓✓✓ ೄ ೄ		Luna Flexx Super Nativo Delaro Forte ✓	~€3bn				
INSECT.	New Insecticide ✓ ✓ ೄ ೄ			Plenexos √ √ √ oÅ,	Vayego Duo Velum LCM Rice Plant Hopper ✓	~€2bn				
SEED GROWTH 2			New Seed Treatment ✓ ⅓, New Seed Treatment ✓ ⅙,		INS FUN ready mixture ✓ Redigo FS 25 ✓					
	✓ Corn	✓ Soybeans ✓ Fruits and ve	egetables 🗸 Cereals, oilseed rape, sugart	peets, cotton and rice 3, Biologica	Small Molecule	_				

¹ Shown here is a subset of Bayer's total life cycle management activities; focused on new formulation developments which have the potential to bring significant innovation to customers compared to currently marketed product; Products shown may not yet be fully registered in all jurisdictions; includes all advancements made in FY'22, updated Feb'23; ² SeedGrowth is currently reported within other SBEs; ³ 3rd party collaboration

PSP = Peak Sales Potential, 50% incremental; Expected to reach 30% of PSP by 2032, 80% of PSP by 2037 and remainder in 2038+; **Note that products are excluded from the pipeline PSP typically the year following launch.**

ced to next phase Selection of projects listed here and included in the peak sales potential by segment do not include projects in early research or discovery



Science for a Better Life

Pharmaceuticals: Driving Continued Long-term Growth

Investment Case August 2023 / Bayer AG





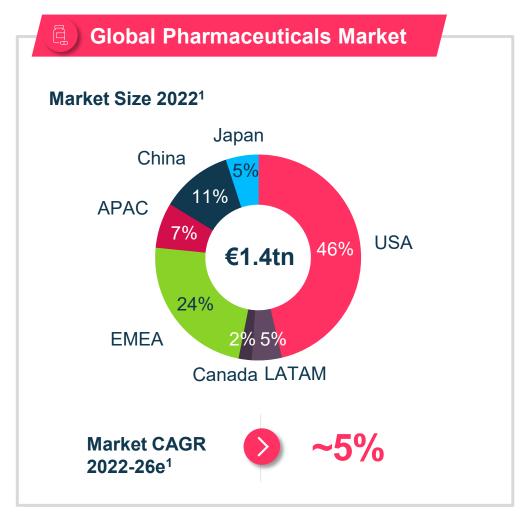
Pharmaceuticals: Driving Continued Long-Term Growth





Pharma Is An Attractive And Dynamic Market With Significant Opportunities Ahead







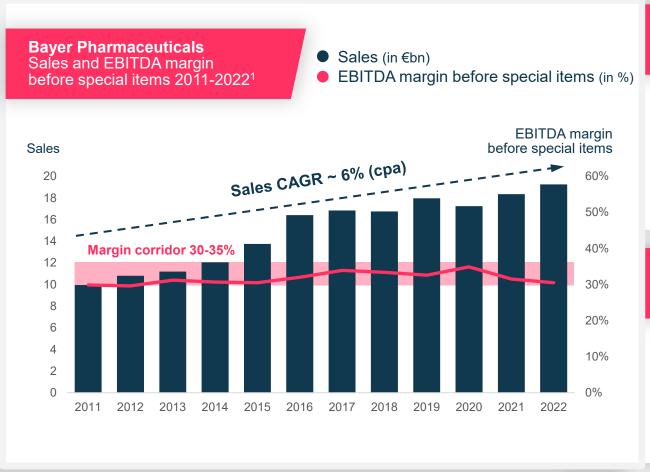
¹ Source: IQVIA Market Prognosis as of March 2023

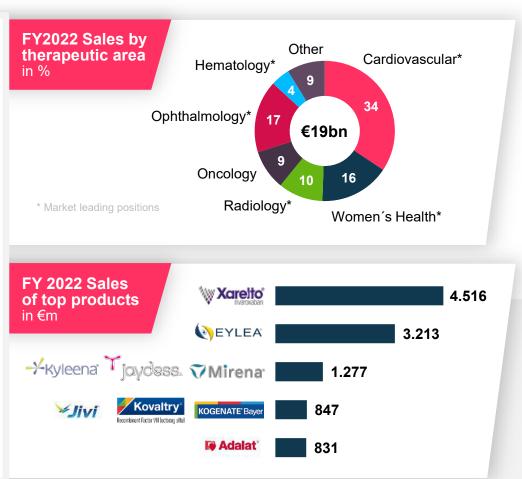


Bayer Holds Strong Positions In Areas Of High Unmet Medical Needs, Generating Attractive Returns



01





¹ As reported in the respective fiscal years

Driving our strategic agenda





Grow potential blockbusters

Capture the full commercial value of the current portfolio

Reallocate resources

Build & grow US business

Shift in marketing & R&D towards growth drivers

Rebuild pipeline

Progress late-stage pipeline

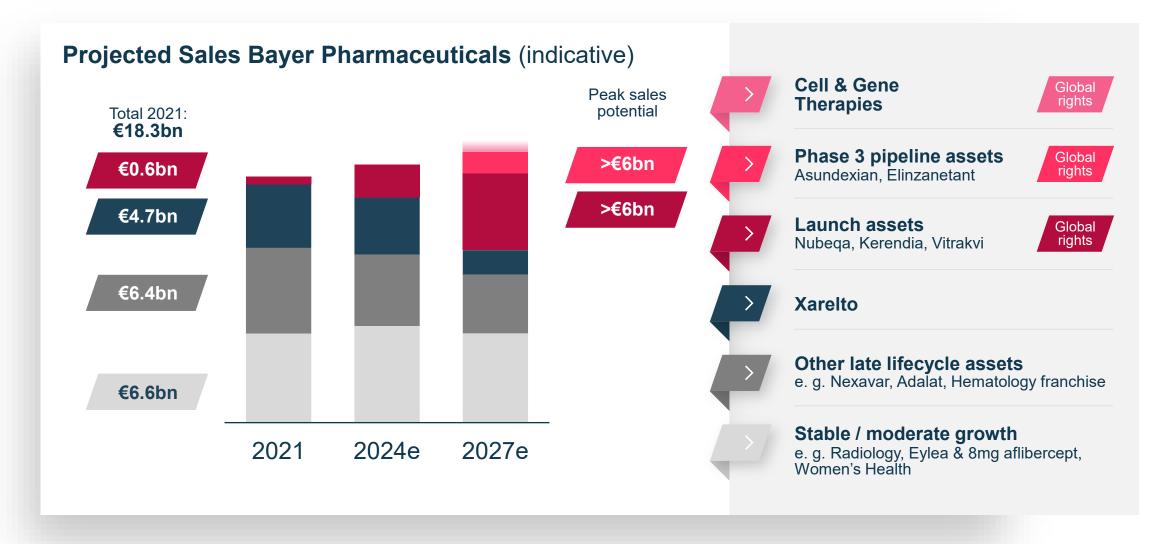
Strengthen early pipeline

through increasing contributions from platform companies as well as partnering





Launch Assets And Late-stage Pipeline Expected to More than Offset LoE and Drive Long-Term Growth

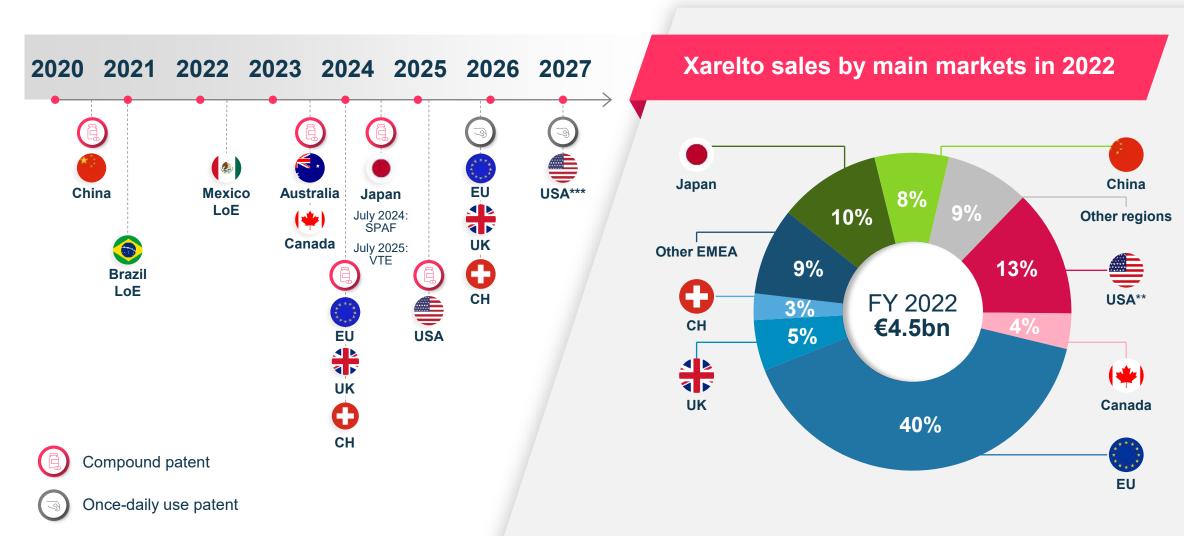


BAYER



Xarelto's Main Patent Expirations* and Losses of Exclusivity (LoE)



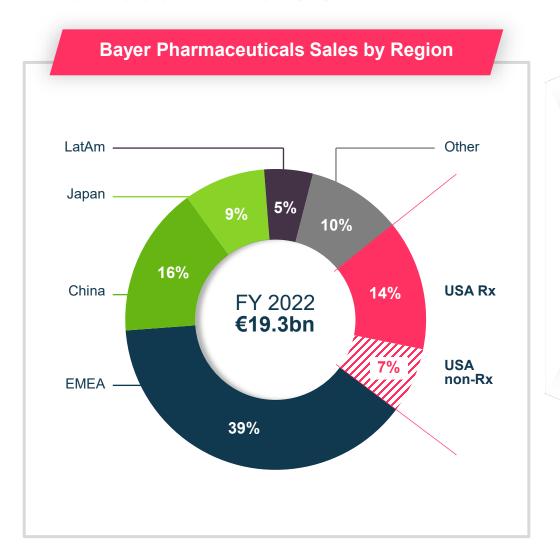


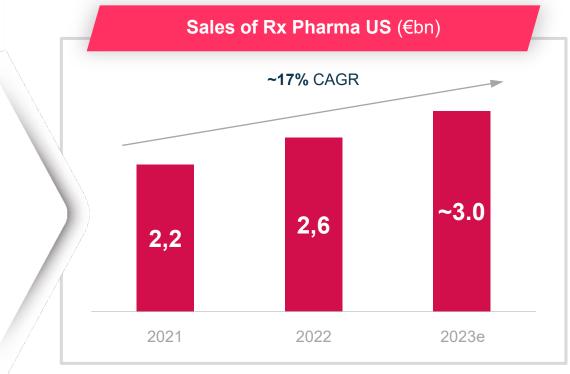
^{*} Additional IP rights with later expiration dates exist in some countries; ** Bayer royalty income; *** Gx entry on once-daily patent





Nubeqa & Kerendia Driving Growth of our Innovative Medicines Business in the US





// Market share of Nubeqa in the US expanded to >40% in nmCRPC¹, being #1² in 2nd generation ARIs³; #2² in mHSPC⁴

// Re-entering cardio-renal with Kerendia & Verguvo: significant investments made to build up an appropriate marketing and sales organization, headcount increased by ~50% in past 3 years

¹ nmCRPC: non-metastatic castration resistant prostate cancer, 2 adjusted to reflect nmCRPC and mHSPC only, 3 ARI: Androgen Receptor Inhibitor, 4 mHSPC: metastatic hormone sensitive prostate cancer



A Focused R&D Strategy to Deliver an Innovative, Differentiated and Sustainable Pipeline





> Our focus



Core Therapeutic Areas

// Oncology

// Neurology & Rare Diseases

// Cardiovascular+

// Immunology



Modalities

Small molecules, Protein Therapeutics, Radiotherapy, Chemoproteomics, Cell Therapy, Genetic medicine

Platform Companies

AskBio, BlueRock, Vividion



> Our priorities

Science & Portfolio

Productivity

- // Launch elinzanetant and asundexian
- // Progress and accelerate high-value assets
- // Focused investments in BD&L
- // Maximize impact from platform companies
- // Unlock full potential of precision medicine

- // Excellence in execution to generate more value and improve capital efficiency in R&D
- // Shift to asset-centric operating model
- // Increase agility and dynamic resource allocation
- // Accelerate data science & AI across R&D value chain



Refined Focus Areas with Highest Impact and Value Potential



Clear Strategic Mandates Guiding Decision Making and Resource Allocation











Drive leadership in focus areas, accelerate growth through competitive early-stage pipeline Remain Top player, shift to precision medicine

Enhance our leadership in precision cardiovascular, nephrology and acute care

Advance a competitive Cell & Gene therapy pipeline

Drive and de-risk platform with focus on first-in-market potential

Build expertise and portfolio

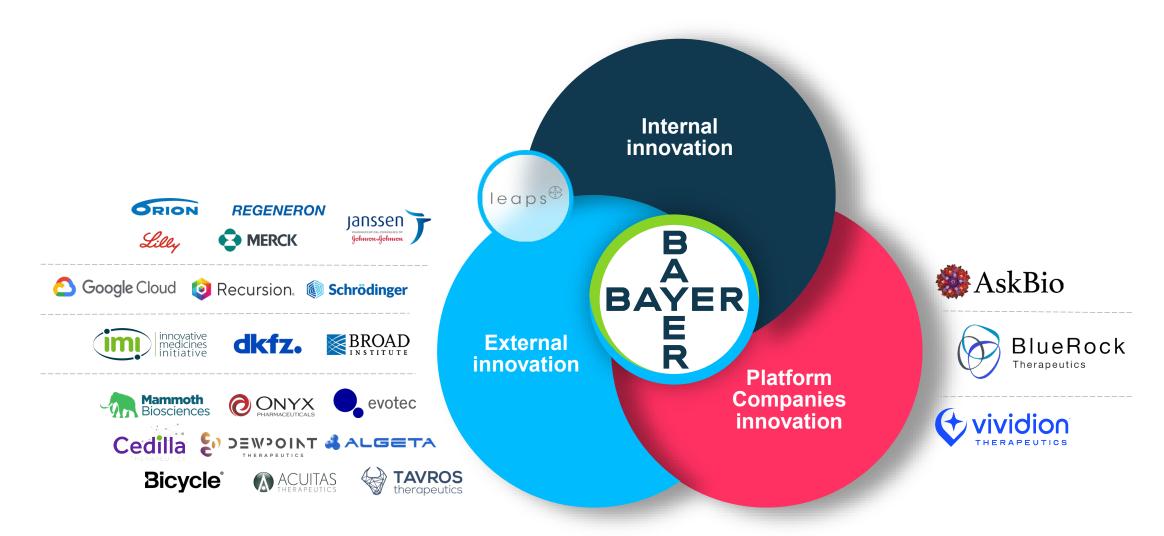
Advance our pipeline to build a presence and support other focus areas

¹ including Precision Cardiovascular, Nephrology & Acute Care



A Multi Faceted Innovation Engine to Unlock Value for Patients

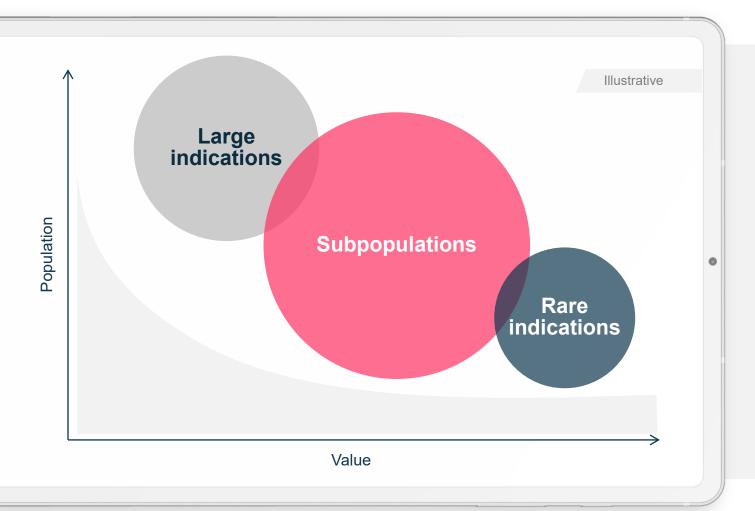
Addressing Need for Breakthrough Science with Diverse Research Capabilities, Technologies and Talents





Targeting the Sweet Spot of Precision Medicine Across our Focus Areas

Through Disease Understanding and Value Potential Assessment



- Address individual patients' needs to achieve improved and sustainable health by delivering transformative medicines: the right treatment, to the right patient, at the right time
- **Optimized outcomes** by focusing on highest unmet needs, value potential, differentiation and risk mitigation
- Open for disruption in large indications



Moving to Higher, Sustainable Level of R&D Productivity

Supported by Key Levers





Increase in pts

Moving toward precision medicine

Improved validation of targets and translation to patient - target disease link

Strategic investments in new biomarker approaches

Improved patient profiling and selection using advanced Data Science/Al approaches

Reduction of costs

Digitization of clinical trials

Lean, innovative, adaptive clinical trial design in stratified population, as well as platform studies

Reduction of in-vivo/wet lab work by applying prediction tools

New ways of working leveraging organizational synergies

Decrease in cycle times

Improved governance and decision making (fail / accelerate fast)

Accelerate development from IND to launch through tailored development approaches

Unlock the potential of Real-World Data with AI and Machine learning. Automation and digitization enabling decentralized trails



A Diverse and Innovative Modality Toolkit to Deliver our Ambition

Delivering Innovative and Competitive Medicines in our Focus Therapeutic Areas

			Oncology	Cardiovascular+ ¹	Neurology & Rare Diseases	Immunology
Small Molecules	Small Molecules (SMOL) RNA targeting Protein degraders Peptides Conjugates	B A B A Y E R E R				
Protein Therapeutics	Antibody Conjugates Multispecific antibodies Monoclonal antibodies	BAYER BAYER E				
Radiotherapy	Targeted Radiotherapy Antibody SMOL peptide	B BAYER R				
Chemoproteomics	Covalent binders Heterobifunctional degraders Molecular glues	VIVIDION				
Cell Therapy	Pluripotent Stem Cells (PSCs)	BlueRock				
	Adeno-Associated Virus (AAV) based gene therapy	AskBio				
Genetic Medicine	CRISPR-based gene editing	Mammoth Biosciences				
	Non-viral gene delivery	ACUITAS THERAPEUTICS Combined with Bayer in-house innovation capabilities				

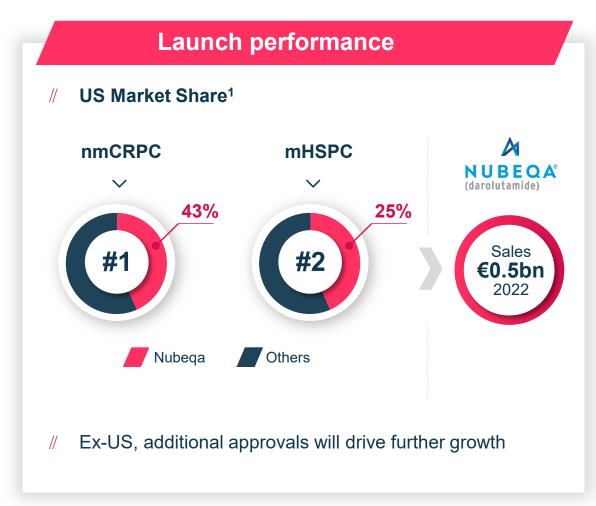
¹ including Precision Cardiovascular, Nephrology & Acute Care

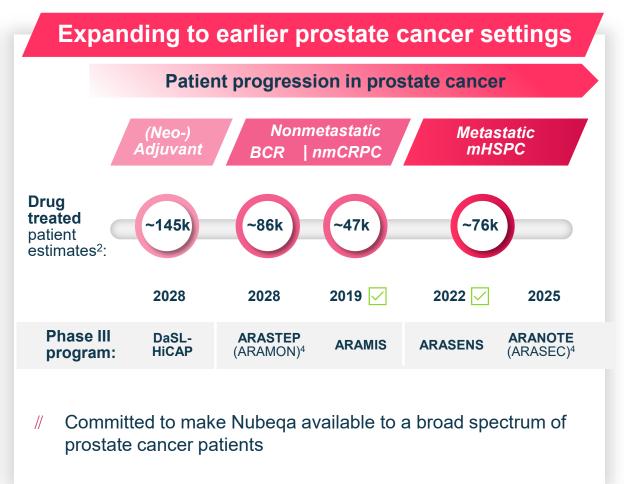
Bayer innovation capabilities



Nubeqa Has The Potential to Become The New Standard of Care in Prostate Cancer Across Indications







¹ Source: IQVIA January 2023 3-month rolling market share, adjusted to reflect nmCRPC and mHSPC only 2 2030 Treated Estimates G7: US, EU5, J 3 Peak Sales Potential



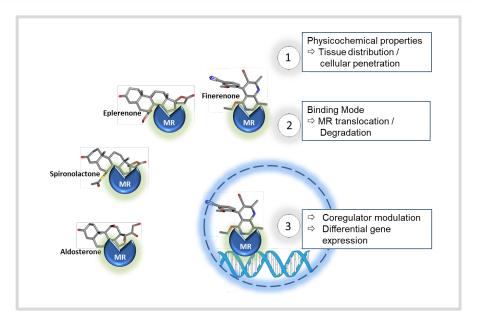
⁴ Not label generating; supports ARASTEP/ARANOTE submission



Finerenone is a Potent, Highly Selective Non-Steroidal Mineralocorticoid Receptor Antagonist (MRA) with Differentiated Profile

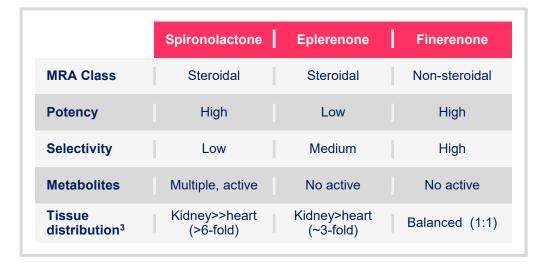






Finerenone and steroidal MRAs differ in their molecular receptor binding mode resulting in distinct effects on gene expression





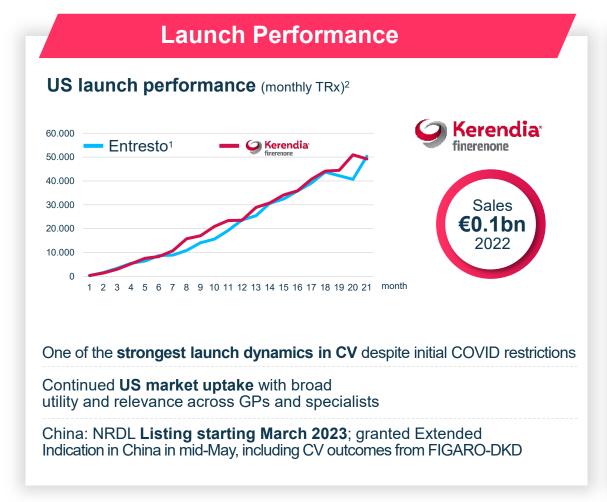
- No sexual side effects including gynecomastia
- > Balanced kidney safety
- Low incidence of hyperkalaemia-related adverse events with clinical impact and permanent treatment discontinuation⁴

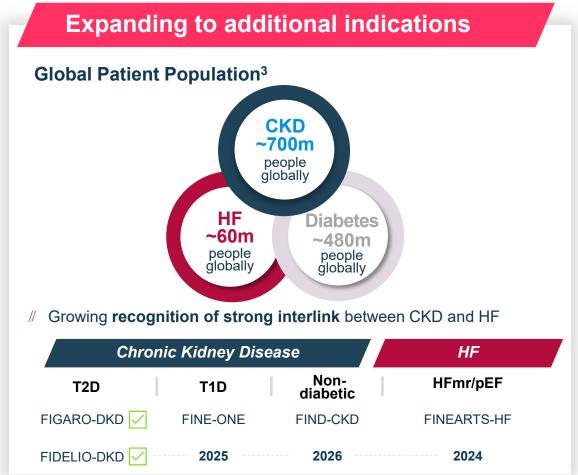
Source: ¹Kolkhof P, Nowack C, Eitner F. Curr Opin Nephrol Hypertens. 2015;24:417-424. ²Modified from: Kolkhof B, Borden SA. Mol Cell Endocrinol. 2012;350:310-317. ³Determined in rodents. ⁴Agarwal R, Filippatos G, Pitt B, Anker SD, Rossing P, Joseph A, Kolkhof P, Nowack C, Gebel M, Ruilope LM, Bakris GL; FIDELIO-DKD and FIGARO-DKD investigators. Cardiovascular and kidney outcomes with finerenone in patients with type 2 diabetes and chronic kidney disease: the FIDELITY pooled analysis. Eur Heart J. 2022 Feb 10; 43(6):474-484. doi: 10.1093/eurhearti/ehab777. Erratum in: Eur Heart J. 2022 May 21;43(20):1989.



Kerendia With Strong Launch Dynamics And The Option to Broaden The Use in CKD And to Expand into HF









¹ Entresto developed and commercialized by Novartis

² Source: IQVIA TRx April 2023 ³ Source: Vijay et al, 2021 ⁴ Peak Sales Potential



Existing Phase III data support potential expansion into Heart Failure





Unmet medical need

- > HF is the **fastest-growing global CV disease** with approximately ~60m HF patients worldwide
- About 50% of HF patients have HF with LVEF ≥ 40%. They suffer from a high **CV mortality** rate (42% within 5y of diagnosis) despite SoC
- Renal dysfunction and HFmrEF/pEF frequently coexist, due to shared comorbidities and factors impacting macrovascular and microvascular circulation



Upcoming development milestones

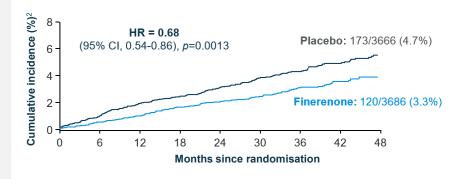
> FINEARTS-HF Phase III data expected in 2024



Clinical data suggest benefit of Finerenone in Heart Failure

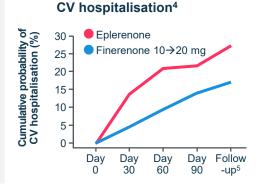
Phase III FIGARO-DKD:

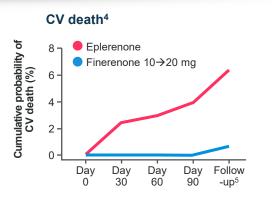
Reduced risk of HF-related death or first HHF¹



Phase III ARTS-HF3:

Reduced risk of CV hospitalization and CV death vs eplerenone





¹ First hospitalisation for HF defined as first event after randomisation; ² Source: cumulative incidence calculated by Aalen–Johansen estimator using deaths due to other causes as competing risk. Filippatos G, *et al. Circulation* 2022;145:437–447 ³ Both phase 2a study ARTS and phase 2b study ARTS-HF were in HFrEF, ⁴ Source: Kolkhof P, *et al.* Handb Exp Pharmacol 2017;243:271–305; 2. Filippatos G, *et al.* Eur Heart J 2016;37:2105–2114; ⁵ 30-day period after cessation of study drug



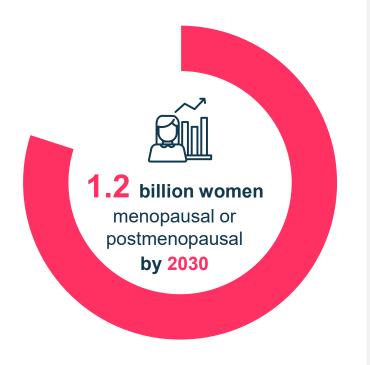
Elinzanetant as Investigational Non-hormonal Treatment Option in The Menopause Market With Peak Sales Potential of >€1bn



Market Characteristics

80% of women will experience vasomotor symptoms, with over half reporting moderate or severe symptoms

∼60%¹ of women with menopausal syptoms are not treated



Elinzanetant

// First, non-hormonal, once-daily, oral neurokinin-1,3 receptor antagonist

// Differentiated, double mode of action

// Phase II indicated significant and rapid improvement in VMS and positive safety profile

Current Status

// Four Phase III studies (OASIS-1 – OASIS-4)

// First Phase III data expected in H2 2023

// Potential launch: 2025

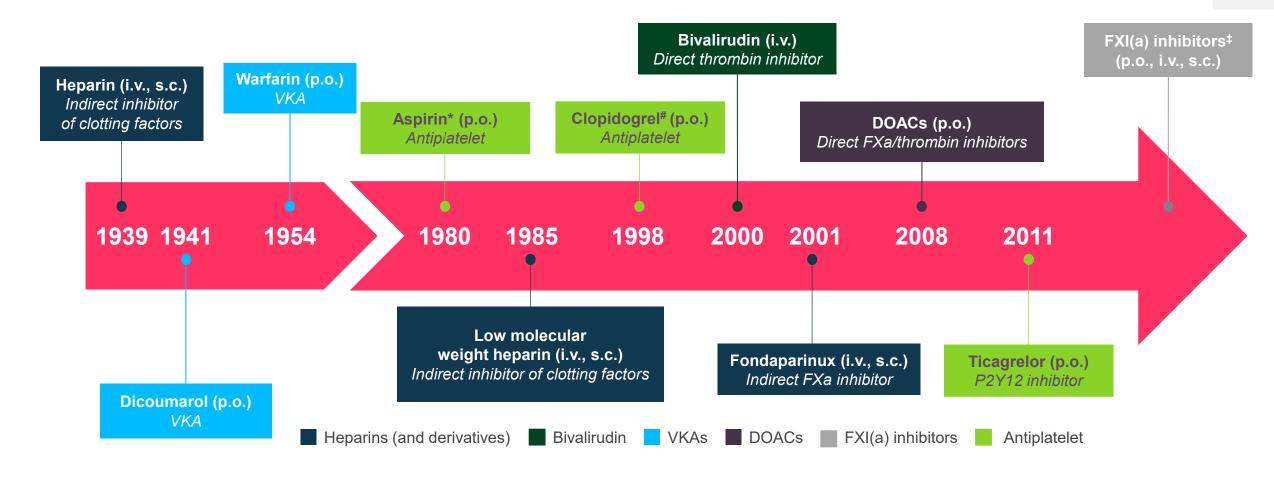


¹ Source: Market Research - IPSOS - Global VMS Women Segmentation ² Peak Sales Potential

Antithrombotic Therapy Timeline¹⁻⁹



J3



^{*}Year aspirin approved for stroke prevention. #EU approval in 1998, FDA approval in 1997. ‡FXI(a) inhibitors are a class of antithrombotics that are currently being investigated in clinical trials; they are not approved for use in any country. DOAC, direct oral anticoagulant; FDA, US Food and Drug Administration; FXa, activated factor X; FXI(a), activated Factor Xi; i.v., infravenous; p.o., oral; s.c., subcutaneous; VKA, vitamin K antagonist.

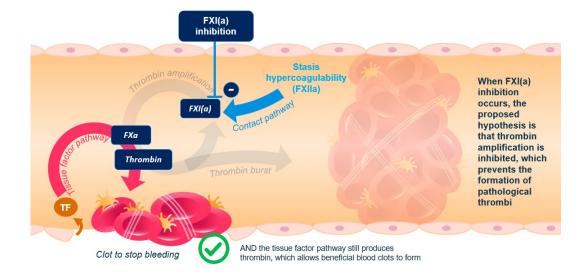
^{1.} Weitz JI, Fredenburgh JC. Arterioscler Thromb Vasc Biol 2018;38:304–310. 2. Franchini M et al. Blood Transfus 2016;14:175–184. 3. Heestermans M et al. Cells 2022;11:3214. 4. Campello E et al. J Clin Med 2022;11:6314. 5. Ugurlucan M et al. Recent Pat Cardiovasc Drug Discov 2012;7:71–76. 6. FDA. 1997. https://www.accessdata.fda.gov/drugsatfda_docs/nda/97/020839_plavix_toc.cfm. 7. MarketScreener. 2021. https://www.marketscreener.com/amp/quote/stock/SANOFI-4698/news/Sanofi-New-indication-for-Plavix-now-approved-in-the-European-Union-32407078/. 8. European Pharmaceutical Review. 2010. https://www.ptca.org/news/2011/0720_TICAGRELOR.html.

FXI(a) Inhibitors Are a Promising And Distinct New Class of Drugs For Thrombosis Prevention



Separating Thrombosis Protection from Haemostasis via Selective Modulation of the Coagulation System

Mode of Action¹⁻³



Paradigm shift in thrombosis prevention, with the potential to uncouple efficacy from bleeding risk

Patients with genetically higher FXI levels show increased risk of ischemic stroke⁴

Ischemic stroke subtype^x	Cases (N)	Controls (N)	OR 95% CI	<i>p</i> -value		
Cardioembolism	3,071	28,722	-	0.0003		
Large artery atherosclerosis	2,454	28,880	-	0.02		
Small vessel occlusion	2,736	27,588	—	0.69		
Undetermined cause	4,755	25,292	-	0.0002		
	0,1 1 10 Favors control Favors genetically higher FXI levels					

FXa, activated Factor X; FXI(a), activated Factor XI, FXII(a), activated Factor XII; TF, tissue factor.

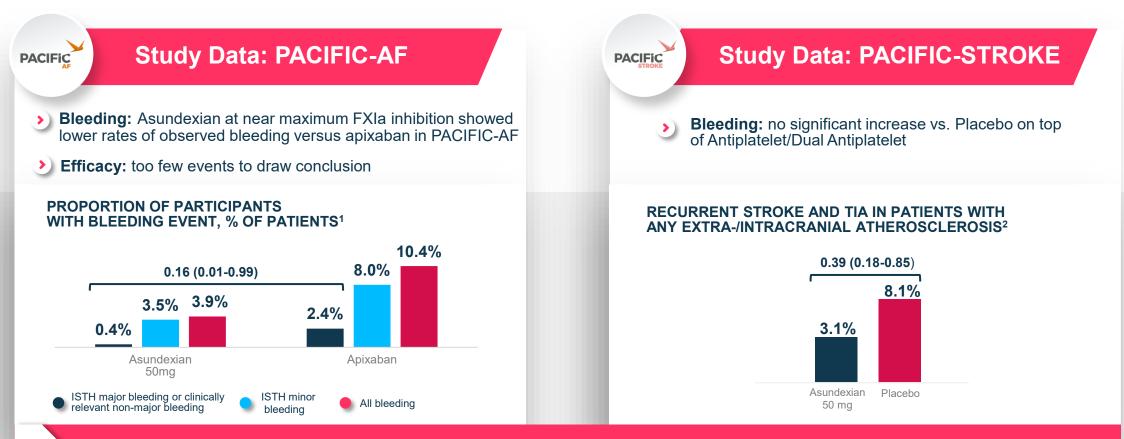
Source: ¹ Piccini JP et al. Lancet 2022;399:1383–1390. ² Fredenburgh JC, Weitz JI. Hamostaseologie 2021;41:104–110. ³ Gailani D et al. J Thromb Haemost 2015;13:1383–1395. ⁴ Gill D et al. Stroke 2018;49:2761–2763



Phase III Decision for Asundexian Strongly Backed by Results From PACIFIC Phase II Program



Innovative, Once-daily, Oral Small Molecule FXIa Inhibitor



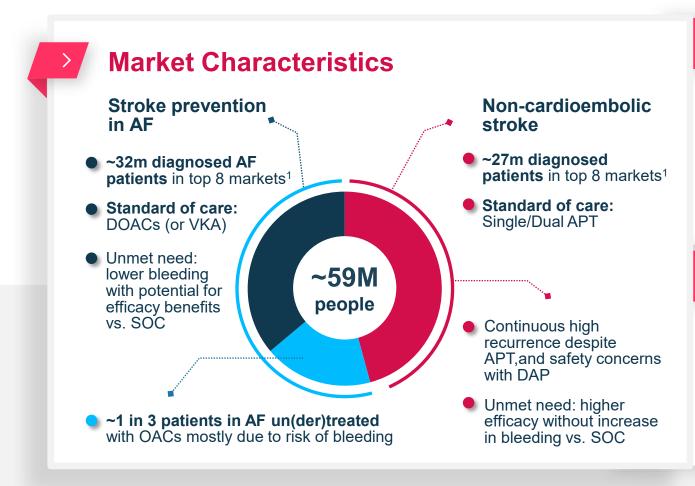
Broad Phase II study program PACIFIC confirmed consistent safety at near maximum FXIa inhibition¹

Source: ¹ Piccini JP, Caso V, Connolly SJ, Fox KAA, Oldgren J, Jones WS, Gorog DA, Durdil V, Viethen T, Neumann C, Mundl H, Patel MR; PACIFIC-AF Investigators. Safety of the oral factor XIa inhibitor asundexian compared with apixaban in patients with atrial fibrillation (PACIFIC-AF): a multicentre, randomised, double-blind, double-dummy, dose-finding phase 2 study. Lancet. 2022 Apr 9;399(10333):1383-1390. doi: 10.1016/S0140-6736(22)00456-1. Epub 2022 Apr 3. PMID: 35385695. Data presented at ACC 2022 and ESC 2022. ² Data presented at ESC in August-2022 in Barcelona, and ESOC May-2023 in Munich (data on file)



Currently Un(der)treated Patients May Provide Asundexian a Strong Entry Point Into The Anticoagulation Market





Asundexian

- // Innovative, once-daily, oral small molecule FXIa inhibitor
- Paradigm shift in thrombosis prevention, with the potential to uncouple efficacy from bleeding risk
- Broad Phase II study program PACIFIC confirmed consistent safety and near maximum FXIa inhibition

Current Status

- // Two Phase III studies (OCEANIC-AF and OCEANIC-STROKE)
- // U.S. FDA Fast Track Designation granted for both indications
- Phase III data expected in H2 2025

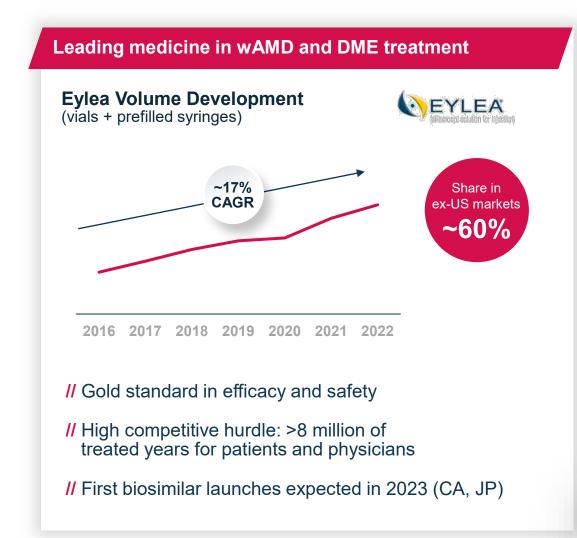


¹ Top 8 markets: US, CN, JP, EU5;

² Peak Sales Potential



Strong Aflibercept 8mg Data Reinforce Leading Clinical Profile of Eylea Franchise



Unparalleled clinical data further raising the bar Aflibercept 8mg Aflibercept Share of patients maintaining 8mg on dosing interval⁽¹⁾ Photon (DME) Injection **PULSAR (wAMD)** every 12 weeks 91% 79% every 16 weeks 89% 77% 1) after 48 weeks: comparator arms: Eylea eyery 8 weeks // Significant prolongation of injection intervals without compromising efficacy and safety // Set to become new standard of care despite increasing competitive dynamics // Submissions in major markets in 2023, launch by 2024

Commercial potential substantially strengthened

DME: diabetic macular edema; wAMD: wet age-related macular degeneration



Oncology will Remain a Major Segment of the Pharma Market and we have a Strong Foundation to Build on

ONCOLOGY



Oncology Opportunity

MARKET ATTRACTIVENESS

High unmet need

- // Growing health burden, with cancer being the second leading cause of death at present
- // 30M new cases annually expected by 2040

One of the largest and fastest growing segments

2021-28 CAGR of 12%, expected to reach >€300bn by 2028

Disruptive innovation in Oncology

// Access to "undruggable" targets, new biomarker approaches & diagnostic tools create numerous opportunities for new precision therapeutics

BAYER'S KEY STRENGTHS

Scientific and clinical expertise

- // SMOL chemistry and peptide therapeutics
- // Vividion as leaders in chemoproteomics
- // Targeted Radiotherapy (TRT)
- // GI, GU (notably prostate) and other high unmet need cancers

Commercial capabilities

// Successfully launched several assets













Approved medicines €1.8bn

2022 Oncology Revenue

Source: EvaluatePharma (July 2022), Pharmaprojects (Oct 2021); IQVIA Pharma Deals (January 2021); McKinsey analysis



Focus Where External Opportunity Meets Internal Strength



Scientific focus: PRECISION DRUG DEVELOPMENT



Targeted Radionuclide Therapies (TRT)



Precision Molecular Oncology (PMO)



Next Generation Immuno Oncology (IO)

(Projected) Unmet need



Genitourinary (GU)Prostate, Bladder,
Renal cancers



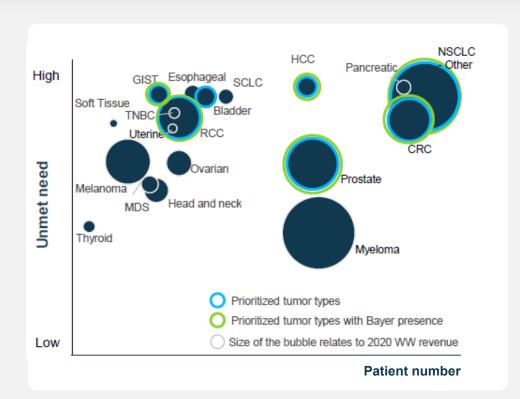
Gastrointestinal (GI) Colorectal, Liver, Gastric cancers



Lung Cancer (NSCLC)



Other Tumors with high unmet need



Bayer to Continue Leadership Position in CV



BAYER'S KEY STRENGTHS

MARKET ATTRACTIVENESS

High unmet medical needs

- // Leading cause of death
- // Increasing disease burden and rising comorbidities
- // Huge impact on healthcare systems and workforce

Emerging trends

- // Novel drug modalities offer new opportunities
- // Advanced tools like multi-omics enable precision medicine
- // Digital solutions enable early diagnosis and targeted treatment

Attractive growth market

- // Worldwide market value of €65bn (2022) continuing to grow at a steady pace
- // Pharma industry underinvests in CV R&D in relation to disease burden
- // Huge opportunity in precision CV due to scientific progress



CARDIOVASCULAR+1

Record of success

- // Industry leader in cardiovascular
- Expertise along the entire value chain
- // Established global commercial footprint

Exciting recent and near-term launches

- // Late-stage pipeline asset asundexian: Innovative, once-daily, oral small molecule FXIa inhibitor
- // Successful launch of Kerendia with LCM potential

Strategic focus on precision CV

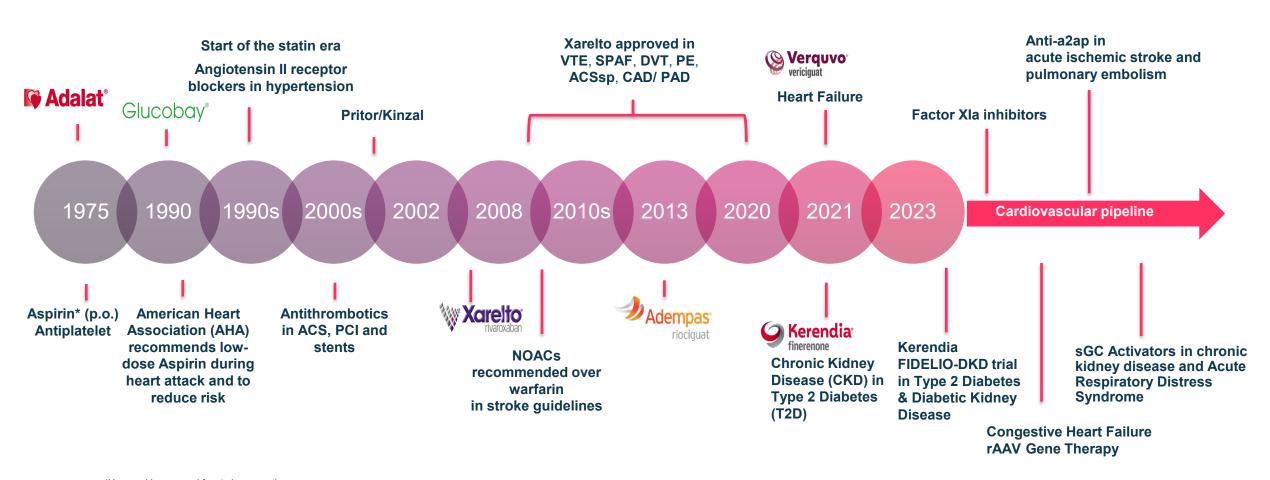
- # Expertise available to address and internalize scientific progress
- # External collaborations & platform companies further enhance our transition into precision CV

¹ including Precision Cardiovascular, Nephrology & Acute Care



Bayer's Heritage in Cardiovascular Disease





^{*}Year aspirin approved for stroke prevention.

Acute coronary syndrome (ACS), acute coronary syndrome secondary prevention (ACSsp), coronary artery disease (CAD), deep vein thrombosis (DVT), novel oral anticoagulants (NOACs), peripheral artery disease (PAD), percutaneous coronary intervention (PCI), pulmonary embolism (PE), stroke prevention in atrial fibrillation (SPAF), venous thromboembolism pharmacoprophylaxis (VTEp),

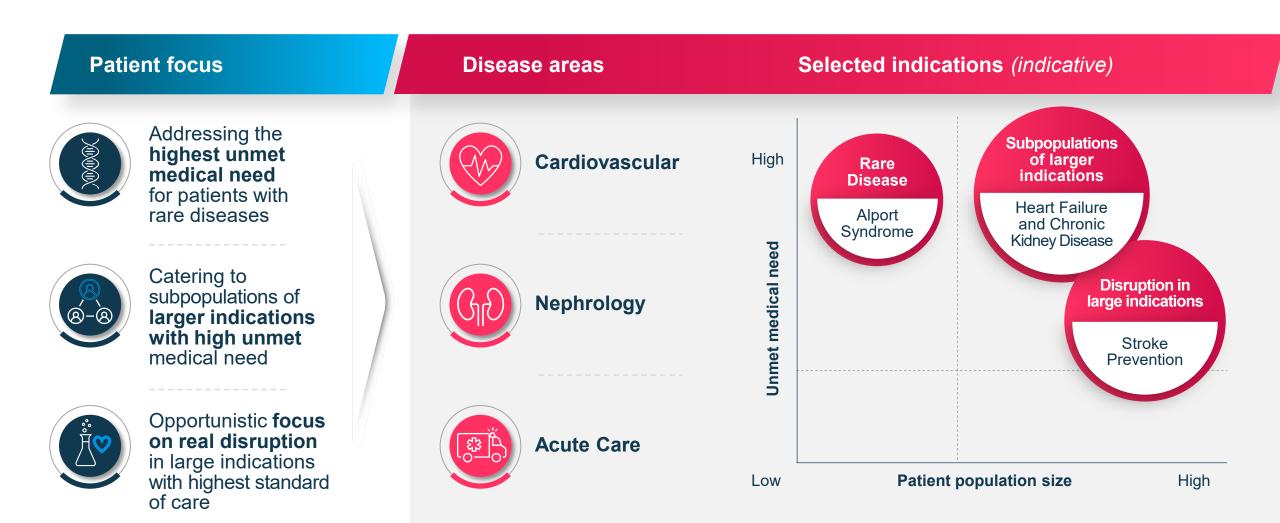


We Focus on Three Value Pools to Build on our Leadership in CV



04

Gradual Shift from Large Indications to High Value Subpopulations and Rare Indications





Bayer in Neurology & Rare Diseases

Opportunity to Become Leaders in Transforming Patient Care

MARKET ATTRACTIVENESS

High unmet medical needs

Many underserved or previously intractable diseases with high unmet need

Paradigm shift in patient treatments

Transition from symptomatic treatment to transformative therapies addressing disease root causes with long-lasting clinical benefit

Attractive growth market

- # Exciting scientific breakthroughs in Neurology and rapid advances in new modalities including CGT
- // ~7,000 known rare disease, 80% of which are genetic in origin



NEUROLOGY & RARE DISEASES

BAYER'S KEY STRENGTHS

Enabled by our existing capabilities

- State-of-the-art technology platforms for cell and gene therapy
- # Bundling capabilities of strong in-house teams, platforms and partnerships in key technologies such as gene editing and lipid nanoparticles
- # Bayer know-how and experience across the value chain
- // Infrastructure and upscaling know-how

Synergies with other therapeutic areas

Opportunity to address unmet needs at the intersection of cardiovascular and ophthalmology to leverage synergies



Bayer Entering Immunology

Significant Unmet Medical Need Despite Rapid Scientific Advances



MARKET ATTRACTIVENESS

High unmet medical needs

- Many underserved diseases
- Globally increasing incidence & prevalence

Robust research innovation

Advancing disease understanding, biomarker research to drive future precision therapies

Potential for long-lasting remission

Novel precision targets empowered by new technology (incl. Machine Learning & AI) for better disease understanding

Attractive growth market

- Among top-growing pharma markets
- Efficient clinical trials and attractive PTS



BAYER'S KEY STRENGTHS

Enabled by our existing capabilities

- Access to highly differentiated Vividion's chemoproteomics platform
- Highly differentiated small molecules library
- Covalent and non-covalent small molecules, direct functional modulators, degraders
- Rapidly accelerating assets in preclinical and clinical development

Synergies with other therapeutic areas

Relevant expertise enabling Bayer's other strategic focus areas

AskBio is a Pioneer in AAV-based Gene Therapy with Unparalleled Pipeline, Talent and Manufacturing Capabilities



- Founded in 2001 by **R. Jude Samulski, Sheila Mikhael** and Xiao Xiao who pioneered the AAV gene therapy field
- Dedicated to developing life-saving medicines that can potentially cure genetic diseases

// ~7,000 rare diseases are known to date; ~80% of rare diseases are genetic in origin

FIRST



to clone AAV for therapeutic purposes



to deliver AAV intrathecally



to treat **DMD** and **Pompe** patients



to deliver AAV to the brain

PILLAR I



PILLAR II



PILLAR III



TRANSLATE INTO

Technology

Renowned toolbox (capsids, regulatory elements, gene editing)

Manufacturing

Distinguished manufacturing capabilities (cell line/infrastructure)

Clinical development

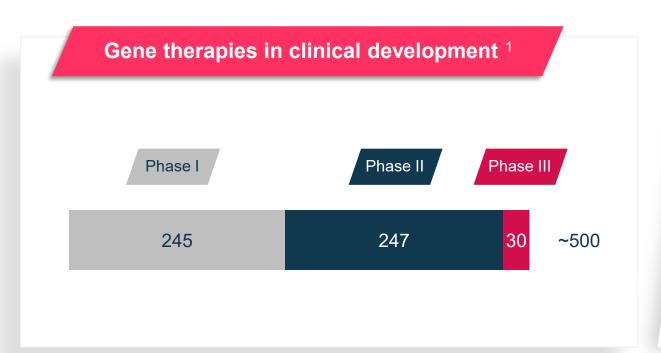
Strong translational expertise, combined with academic network

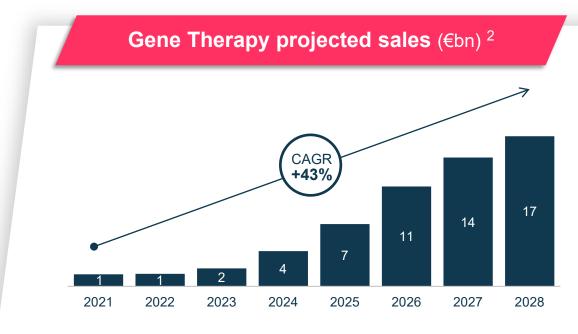
Promising therapeutic pipeline



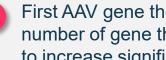
The Gene Therapy Market is Expected to Reach €17bn in 2028











First AAV gene therapy approval in 2017; number of gene therapy approvals is expected to increase significantly until 2030, resulting in strong anticipated sales growth



Shaping of access models, policies and payer environment are crucial to sustainable success

Source: 1ASGCT Q1/2023 report; 2 Evaluate Pharma Feb 2023, Fx rate based on central financial 1.01US\$ = 1€



AskBio's Balanced Portfolio is Addressing Monogenic and Pathway Disorders





Monogenic disorders

- // Mutation occurs in the **DNA sequence of a** single gene
- // Most monogenic disorders are rare diseases such as Pompe disease, Huntington's disease, hemophilia and cystic fibrosis.
- // Historically the first to be targeted by gene therapy
- // Smaller patient populations

Pathway disorders

- // Caused by mutations in several genes and can be compounded by environmental factors such as smoking or diet
- // Common examples include heart disease, cancer and type 2 diabetes
- // Require more complex therapeutic approaches than monogenic disease-targeting therapies, which are mainly gene addition (or augmentative) gene therapies
- **// Larger** patient populations



BlueRock Therapeutics is a Leader in PSC Biology, Bringing Therapies From Bench to the Clinic



MISSION: To discover and develop new cell therapies that change the way disease is treated and improve patients' lives



Founding science





FOUR SITES ACROSS USA, Canada and Germany

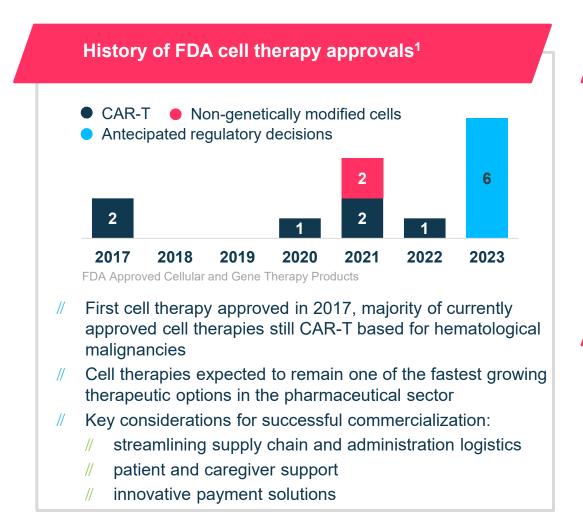


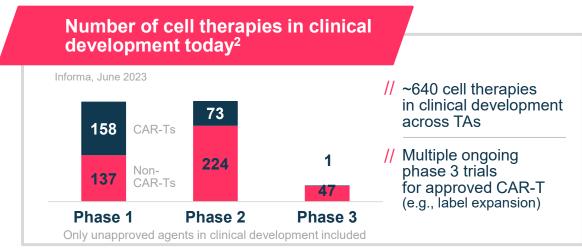
Focus on four disease areas (Neurology, Cardiology, Immunology, Ophthalmology)

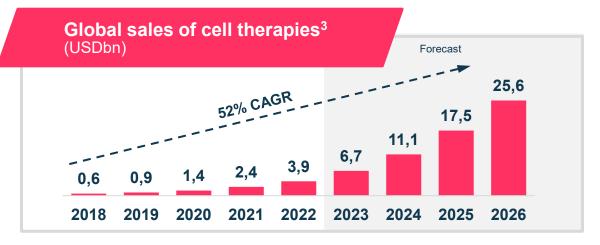


The Cell Therapy Market Is Expected to Reach >USD25bn by 2026









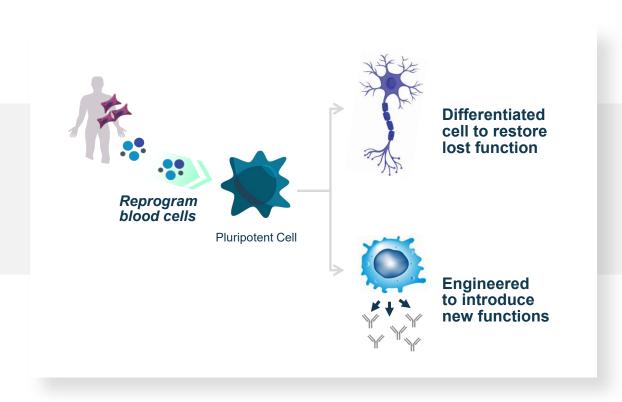
Cord Blood approvals not included in approved therapies

Sources: ¹ FDA Approved Cellular and Gene Therapy Products ² Pharma Intelligence, Informa ³ EvaluatePharma, Oct. 2022 for pipeline and sales/ forecast



Pluripotent Stem Cells (PSCs): Potential to Restore Lost Cellular Function and Introduce New Functions to Address Multiple Diseases

Therapeutic potential of PSCs



Examples of target disease areas

```
// Parkinson's Disease
// Heart Failure
// Retinitis Pigmentosa
// Geographic Atrophy (AMD)

// Oncology
// Alzheimer's Disease
// Metabolic Diseases
// Autoimmune Diseases
```

Source: El-Kadiry 2021. Frontiers in Medicine, p.2340

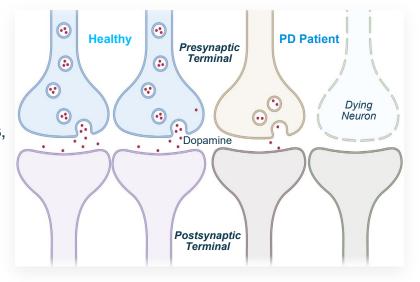


Parkinson's Disease is a Progressive, Neurodegenerative Condition Defined by Dopaminergic Neuron Loss and Motor Impairment

PD motor symptoms caused by loss of DA neurons

// Healthy dopamine neurons (DA) in the brain make the neurotransmitter dopamine critical for several brain functions including movement

// Loss of DA cells results in less dopamine and leads to Parkinson's Disease



Current treatments and unmet need

- // PD is the second most common neurodegenerative disorder in the US
- // Limited treatment options available as patients progress
- **// Medications**, effective at early stages, become less and less effective with disease progression
- // Significant unmet need for longer-lasting therapies that will alter the disease trajectory



The goal is to alter disease progression and reverse symptoms over time, so patients remain independent and live a life that is not defined by their diagnosis

Source: Song 2016. Frontiers in aging neuroscience, 8, p.65.; Kalia 2015. The Lancet. 386(9996), 896-912.; Bridi 2018. Frontiers in neuroscience, 12, p.80





Bemdaneprocel is the First PSC-derived Dopaminergic Cell Therapy with Positive Data in Parkinson's Disease



Topline Phase I results

- // The study met the primary endpoint; bemdaneprocel was well tolerated with no major safety issues by all twelve patients in both the low and high dose cohorts through one year
- // Feasibility of transplantation, and evidence of transplanted cell survival and engraftment in both cohorts was demonstrated through one year
- // Detailed phase 1 trial data from primary and secondary endpoints will be presented at the 2023 International Congress of Parkinson's Disease and Movement Disorders (MDS) taking place in Copenhagen from Aug. 27 – 31, 2023

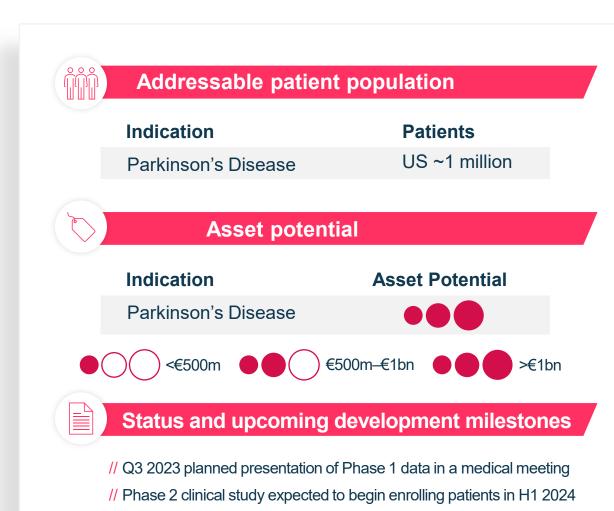
Phase I study endpoints

Primary Endpoint:

// Safety and tolerability at 1-year post-transplant

Secondary Endpoints (1- and 2-year post transplant):

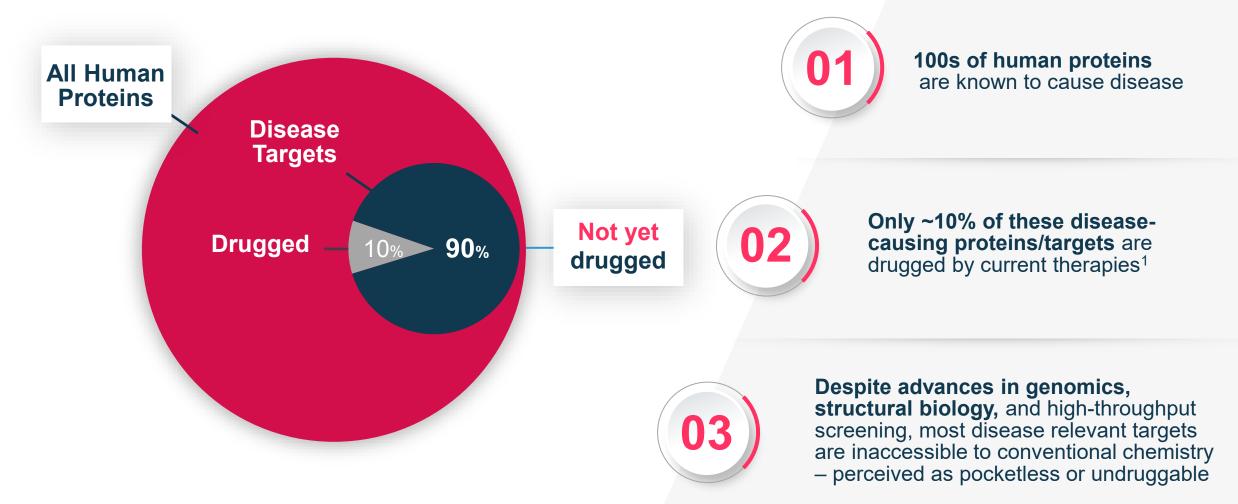
- // Evidence of cell survival F-DOPA PET
- // Changes in motor function Changes in MDS-UPDRS III
- // Changes in waking hours in "OFF" state
- **//** Continued safety and tolerability





Vividion Adresses Limitations of Conventional Small Molecule Drug Discovery



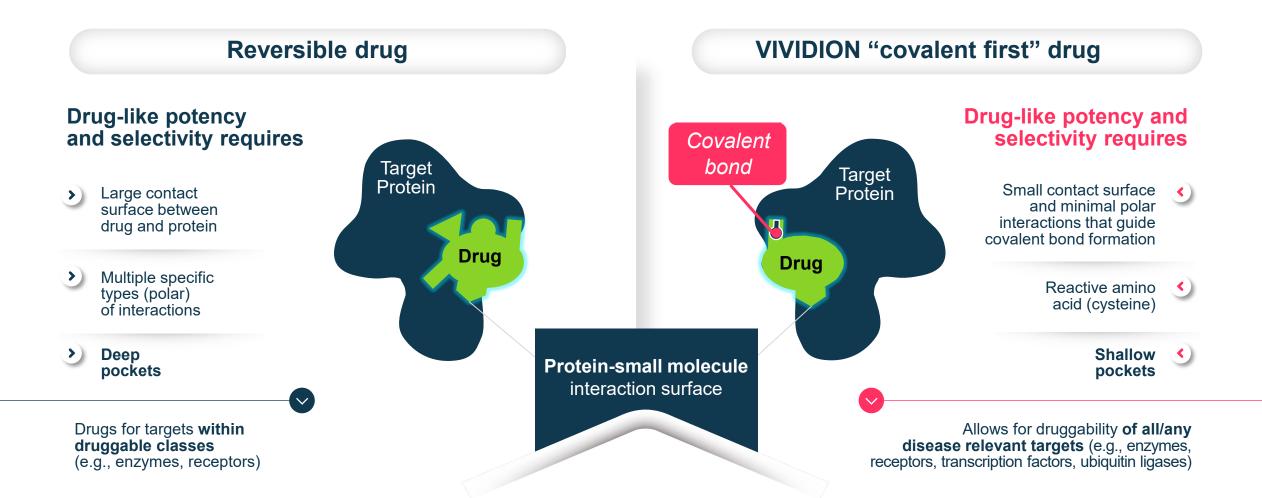


¹ Source: Oprea et al., Nature Reviews Drug Discovery, 17: 317-332, 2018.



Vividion's "Covalent First" Platform Expands Druggable Space





¹ Source: Market Research - IPSOS - Global VMS Women Segmentation

108

² Peak Sales Potential

Foundations of the Vividion Platform

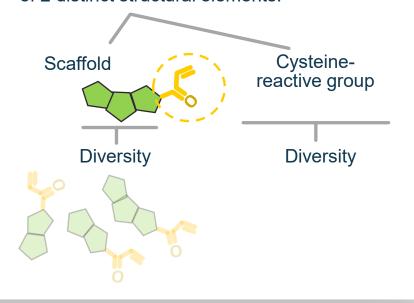


04

The chemistry

Unique Covalent Small Molecule Library

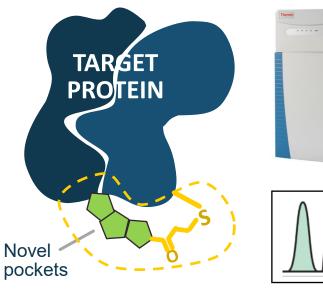
VVD compounds are comprised of 2 distinct structural elements:

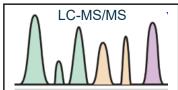


102 The platform (assay)

Proteome-wide Footprinting of Small Molecule-Target Interactions in Native Systems

CELLS / LYSATES / TISSUE

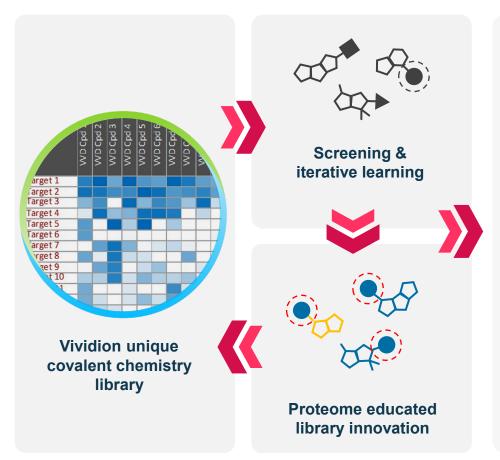


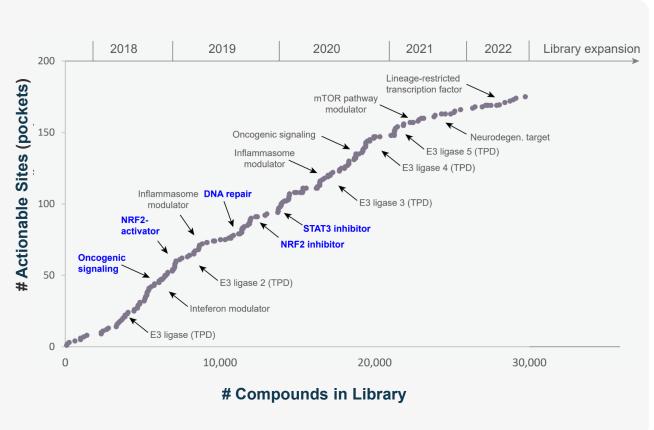




Vividion's Continuous Library Expansion Allows for Pipeline Growth and Durable Competitive Advantage







Pharmaceuticals – Pipeline Overview¹ (as of July 31, 2023)



0	A
U	4

Phase 0 ²	Phase I		Phase II		Phase III	
DGKalpha Inh (BAY 2862789)	Elimusertib (ATR Inhibitor) (BAY 1895344)	, i. •	Regorafenib (combi Nivolumab) (BAY 734506) // Solid tumors (recurrent or metastatic)	.i. O	Copanlisib (PI3K Inhibitor) // Non-Hodgkin Lymphoma (CHRONOS-4)	<u>ئ</u> ه 0
PSMA TAC (BAY 3546828)	AhR Inhibitor (BAY 2416964)	, i.	Asundexian (FXIa Inhibitor) (BAY 2433334)	i 👝	Darolutamide (AR Inhibitor) // Prostate Cancer (mHSPC) (ARANOTE) // Adjuvant Prostate Cancer (DASL-HiCaP)	å, O
PSMA SMOL TAC (BAY 3563254)	mEGFR Inhibitor (BAY 2927088)	, i.	// Major Adverse Cardiac Events Prevention (PACIFIC-AMI)	0-50		
VVD STAT3 Inh (BAY 3630914)	DGKzeta Inhibitor (BAY 2965501)	,i. (Zabedosertib (IRAK4 Inh.) (BAY 1834845) // Atopic Dermatitis (DAMASK)	♣. ●	// Adjuvant Prostate Carlot (DASE-PICAP) // Prostate Cancer with Biochemical Recurrence after Curative Radiotherapy (ARASTEP)	
Anti-coagulant (BAY 3389934)	CCR8 Ab (BAY 3375968)	3	Runcaciguat (sGC Activator) (BAY 1101042)	1 🛋	Finerenone (MR Antagonist)	<u>ئ</u> ه ٥
Next Generation Liver MRI (BAY 3393081)	VVD KEAP1 Act (VVD-13307 aka NRF2 Inh, BAY 3605349)	<u>ه</u> . •	// Non-prolif. Diabetic Retinopathy (NPDR) (NEON-NPDR)	•~•	// Heart Failure (HFmr/pEF) (FINEARTS-HF) // Non-diabetic CKD (FIND-CKD)	3 ² 0
, , , , , , , , , , , , , , , , , , ,	Congestive Heart Failure rAAV Gene Therapy (AB-1002 aka NAN-101)	ğ •			Vericiguat (sGC Stimulator) // Heart Failure (HFrEF) (VICTOR³)	<u>ئ</u> ه 0
	sGC Activator Oral (BAY 3283142)	,i, (Asundexian (FXIa Inhibitor) // Stroke Prevention in Atrial Fibrillation (OCEANIC-AF)	,i. •
	Anti-a2AP (BAY 3018250)	3			// 2º Stroke Prevention (OCEANIC-AF)	
	sGC Activator Inhale (BAY 1211163)	.i. •			Elinzanetant (Neurokinin-1,3 Rec Antagonist) // Vasomotor Symptoms (OASIS)	<u>ه</u> •
	SEMA 3a (BAY 3401016)	3,			Aflibercept 8mg (VEGF Inhibitor)	ئ 0
	Bemdaneprocel (Parkinson's Disease Cell Therapy) (BRT-DA01)				// Retinal Vein Occlusion (QUASAR) Gadoquatrane (High Relaxivity Contrast Agent)	<u> </u>
	Parkinson's Disease rAAV Gene Therapy (AB-1005 aka AAV2-GDNF-PD)	ğ •			// Magnetic Resonance Imaging (QUANTI-CNS, QUANTI-OBR))	
Oncology	Multiple System Atrophy rAAV Gene Therapy (AB-1005 aka AAV2-GDNF-MSA)	ğ •			Submissions	
Cardiovascular+ ⁵	Pompe Disease rAAV Gene Therapy (ACTUS-101)	ğ •			Aflibercept 8mg (VEGF-Inhibitor) // EU, JP, US4: Diabetic Macular Edema (DME)	5 O
Neurology & Rare Diseases	Huntington's Disease rAAV Gene Therapy (AB-1001 aka BV-101)	ğ •			# EU, JP, US ⁴ , CN: Neovasc. Age-rel. Macular Degen. (nAMD)	, 0
Immunology	LGMD2I/R9 rAAV Gene Therapy (AB-1003 aka LION-101)	ğ •				
Others	GPR84 Antagonist (BAY 3178275)	, i.		Full pipeline	package available for download u	nder:
New molecular entity		•		https//www	v.bayer.com/en/pharma/development-pipel	<u>ine</u>
Life cycle management						

¹ Bayer and partner sponsored + 3rd party label enabling studies with first patient first visit 2 Pre-clinical selected assets on path to IND 3 Conducted by Merck & Co 4 US submission made by Regeneron 5 Including Precision Cardiovascular, Nephrology & Acute Care













Science for a Better Life

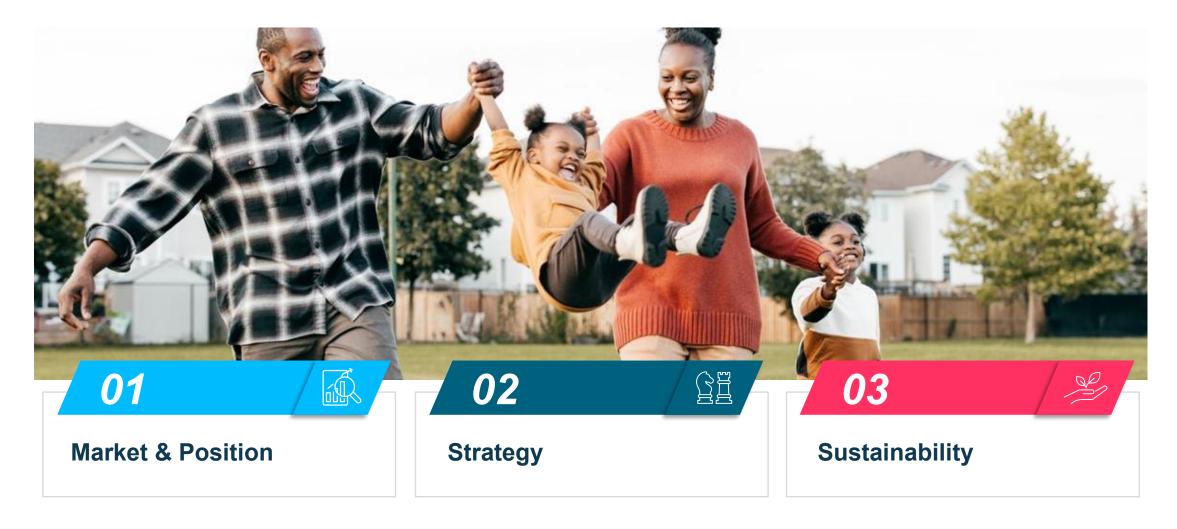
Driving Sustainable Outperformance in Consumer Health

Investment Case August 2023 / Bayer AG





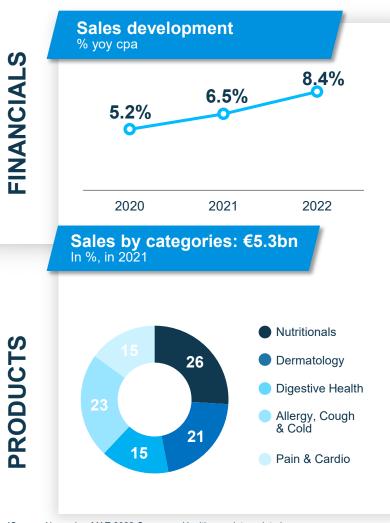
Driving Sustainable Outperformance in Consumer Health

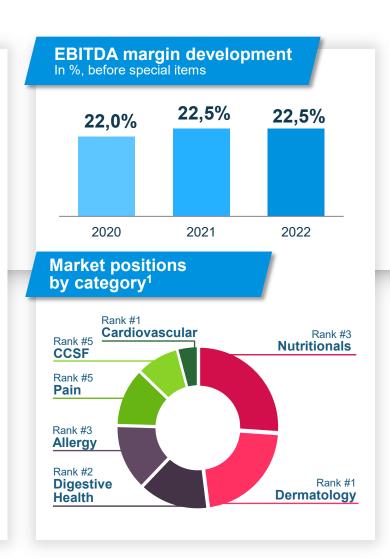


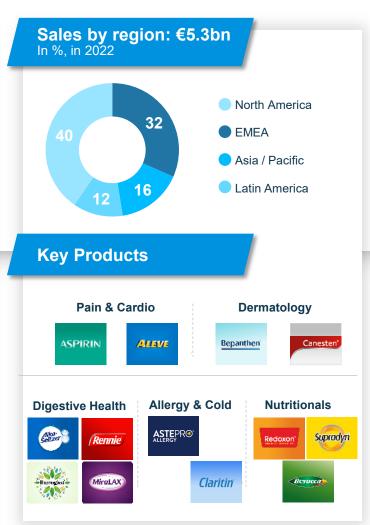


Consumer Health: A Leading Global OTC Player









¹Source: November MAT 2022 Consumer Health proprietary data base



A Clear Game Plan to Sustain Outperformance



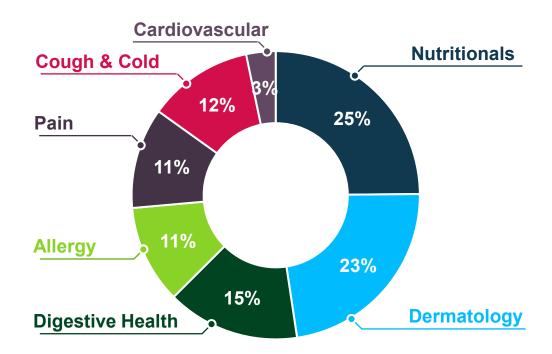




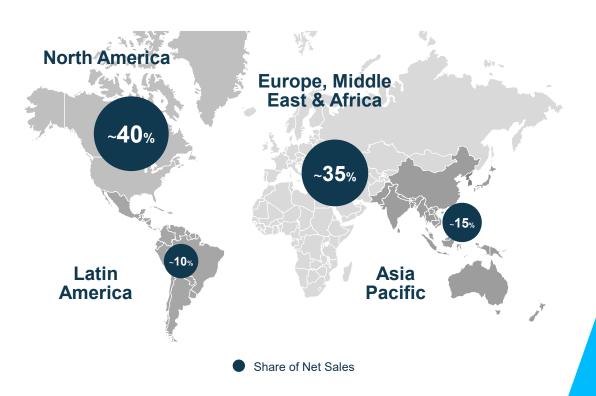
A leading Consumer Health Player with a Well-Balanced Portfolio



Category Portfolio



Geographic Footprint



Sources: Bayer CH Portfolio - Company BD, IQVIA, IRI, & Nielsen, May MAT 2022; Bayer Geographic Footprint - Net Sales 2021



Focused portfolio on Core Consumer Health Where We Can Win

Core Consumer Health

54%

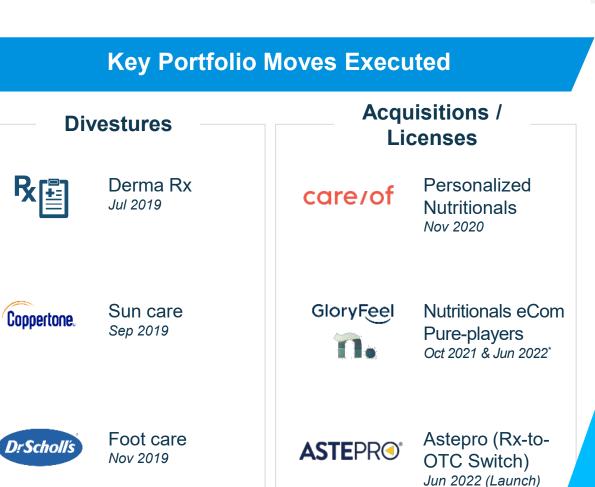
Over-The-

Counter

Coopertone.

Clear Focus on Core CH Market

~170 B€



Vitamins, Minerals.

Supplements

25%

Other CH

categories

(e.g. Oral care; Sun care)

^{*} Strategic minority stake in Natsana Sources: OTC, VMS - Nicholas Hall DB, Global CHC Sales 2021; Others - Euromonitor Retail Value MSP, 2021



Accelerating Growth from Innovation

<u>G</u>

Iconic Global and Local Brands Built Over Decades





Key levers to sustain above-market growth



Attractive Demand Spaces

High-growth Markets

Rx-to-OTC **Switches**

Digital Commerce & Health Platforms









amazon Walmart.com

- // Premium Nutritionals
- // Healthy Aging
- // Stress and Sleep
- // Medicated Skin

- // China
- // India
- // Mexico
- // ASEAN

- // Astepro
- // Switch #2
- // Switch #3





ada

- // eCommerce
- // Digital Diagnostics
- // Digital Therapeutics



Modernizing Our Brand Building and Sales Capabilities

















From Mass to **Precision Marketing**

% Precision marketing¹

25%

) 58%

080%

2018

2021

2024 - Ambition

Accelerating E-commerce

→ % Net Sales²

04%

C 11%

C 15%+

2019

2022

2024 - Ambition

¹Percentage of digital media which is data-driven precision marketing

² Percentage of net sales which is through e-commerce channels

Accelerating Use of Data to Personalize Consumer Engagement



UZ

Data & Digital First

Leading in Digital Platforms

Contextual Engagement

2019 - 2022

Share of Digital Media¹





























Share of Personalized Creatives¹







¹ Bayer internal data



Doubling Down on e-Commerce and Growth Platforms



Winning in Key eCom Platforms

2019

2022

2024

care/of

GloryFeel

Strategic Portfolio Moves



Share of Digital Commerce¹







eCom Growth FY'21¹





















Nov. 2020



Hyaluron+



June. 2022*







Digital Engagement Mechanisms





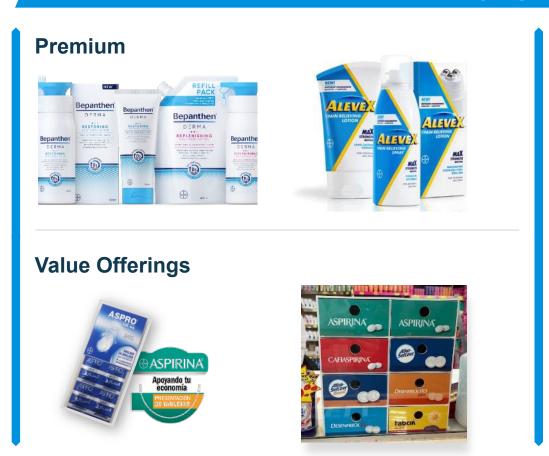


¹ Bayer internal sales data * Strategic minority stake in Natsana



Pricing and Trade Excellence to Drive Value Creation with Customers

Innovations Playing Across Different Value Tiers







Consumer Health as a Force for Good

Expand Access to Everyday Health



- Million people with improved access to self-care in underserved communities
- // Investing in accessible and more sustainable products
- // Reached 4+ Million underserved women and babies through the Nutrient Gap Initiative

Path to Climate Neutrality



35% CO₂ emissions reduction achieved across our operations

- // Investing in energy efficiency projects and increasing green energy across our sites
- // Advancing sustainable packaging

Note: 2021 Health access and environmental footprint achievements vs 2019 baseline

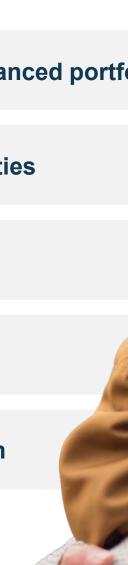


Driving Sustainable Outperformance in Consumer Health





- > World-class science, consumer and HCP capabilities
- > Clear strategy to sustain outperformance
- > Track record of execution excellence
- > Attractive growth profile and cash flow generation





Science for a Better Life

Sustainability

04 Investment Case

Investment Case August 2023 / Bayer AG





Sustainability @Bayer



O3

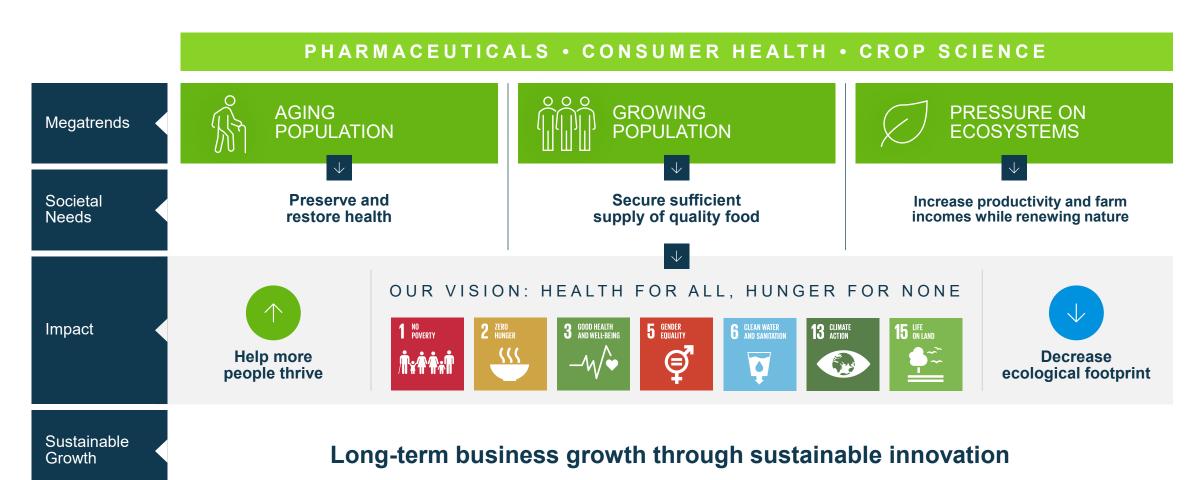
Governance

04
Ratings



Sustainability is Integral to Our Values, Strategy and Operations

We Intend to Create Bold Impact and Generate Sustainable Business Opportunities



/// Baver AG /// Investment Case /// August 2023



Ambitious Measurable Targets for Sustainable Development

Our 2030 Targets positively contribute to today's pressing challenges

Decrease ECOLOGICAL footprint



- 42% reduction target¹ for Scope 1 & 2 500m € CapEx for emission reduction 50m-200m € OpEx for offsetting projects
- 2 12.3% reduction target² for Scope 3
- Net Zero emission target until 2050 in line with Paris
 Agreement (Scope 1, 2 & 3)
 - Water strategy addressing our own operations and up-/downstream activities

CS: -30% greenhouse gas emissions in key agricultural crops in main regions; -30% environmental impact of our crop protection products

CH: Transition all Consumer Health products to 100% recyclable or reusable packaging

Food Security Climate & Health Equity

Help more PEOPLE thrive









PH: Increase **availability** and **affordability** of our innovative pharma products in LMICs³

¹ By 2029 from a 2019 base year is in line with limiting global warming to 1.5 C°

² By 2029 from a 2019 base year is in line with limiting global warming to below 2 C°

We Are on Track in Our Decarbonization Journey – Need to Work Harder with Our Supply Chain

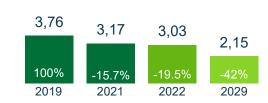


42% less CO₂ in our own operations by 2029 & **Net Zero** by 2050

Reduced emissions by 4.5% or around 140,000 metric tons compared to 2021 (-19.5% compared to base year)

Reduction mainly due to a greater share of **electricity** being purchased from renewable energy sources

Additionally, offsetting of 450,000 metric tons of greenhouse gas emissions¹



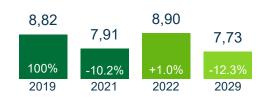
in mio metric tons of CO₂ equivalent; % change vs. base year 2019



12.3% less CO₂ in the value chain by 2029

Emissions increased by 12.5% or 990,000 tons vs. prior year

Increase was largely attributable to business growth, replenishment of inventories and an increase in air freight and business travel



in mio metric tons of CO₂ equivalent; % change vs. base year 2019

30% less greenhouse gas emissions by 2030²

Continued efforts in Carbon Initiative Program supported by our digital application Climate FieldView™ Digital platform was used on >220m acres of farmland in 23 countries in 2022 Carbon Program was further expanded in 10 countries in 2022 Launched "For Ground" in the U.S.

¹Find our offsetting approach here and more info here: https://www.bayer.com/en/sustainability/clima

²30% less in our farming customers' in-field GHG emissions per kg of crop yield in the most emitting cropping systems in the regions we serve; baseline calculated based on 2020 data



Ambitious water strategy aiming at transformational impact beyond own operations

Contribution to climate resilience and a more sustainable water usage

05

Valuation of water

We plan to develop a method to value water

We aim to start to incorporate in 2024 water quality and quantity into business decisions and investment

02

Own operations

We are committed to provide safe drinking water, sanitation and hygiene to all our employees

We apply safe discharges limits for active ingredients into wastewater at all sites where they are produced

By 2025 we aim to set context-relevant water targets for own operations to be achieved by 2030 03

Upstream activities

We updated our Supplier Code of Conduct with strengthened and dedicated topics addressing water and wastewater

We evaluate the sustainability performance of all Key and of selected high-sustainability-risk suppliers, using a classification that includes water-risks with a priority-weighting

We aim to continuously raise suppliers' sustainability awareness by leveraging sustainability initiatives TfS and PSCI.

We aim to continue to drive improvements in water use efficiency with growers across the seed production footprint

Downstream

We strive for driving positive change in water productivity in water scarce regional cropping systems – starting with rice where we aim to improve water use per kg of crop by 25% in 2030 by transforming rice cropping system for our smallholder customers in the relevant regions where Bayer operates.

By 2030, we target to reduce the environmental impact of our crop protection portfolio by 30%, which contributes to water quality.





Support 100m Smallholder Farmers

02

Accessing Smallholders Improves Lives and Creates Business Opportunities





~550M

Smallholder farmers worldwide



// Lack of access to new technologies



// Limited productivity of their crops



// Limited access to knowledge



// Climate Change



Feed >50% of population in developing countries



// Exposed to the markets; **price volatility** and fluctuations



// Hunger & malnutrition

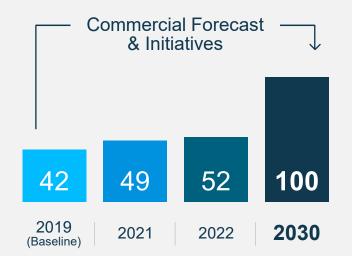


// Lack of access to markets and capital



// Additional challenges caused by Covid-19





How to get there

// 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



Access for 100m Women to Family Planning

Catalyst for Important Societal and Economic Impact



Challenges

// >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



Progress













2021

2022

2030



How to get there

// Capacity building¹, 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

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

¹ 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



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

Everyday Health as the First and Last Line of Care

Challenges

// 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

How to get there

// 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

// Partnerships and Initiatives, e.g. the **Nutrient Gap Initiative** // Activating our trusted **OTC** brands and end-to-end value chain



Progress



^{//} Self-Care Education initiatives form the basis for shaping behavioral change to empower consumers to manage their own health better

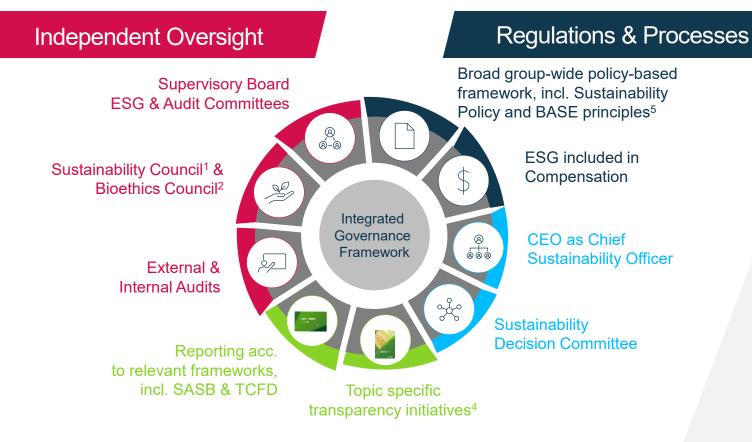
¹ We successfully integrated the consumer business in India, which was previously managed by a third party. India is reported separately and will be included in 2024. We reached 21 million people in India in 2022 in addition.





Bayer's Sustainability Governance framework

Holistic approach ensuring sustainable execution and advancement



Reporting & Transparency³

Organizational Setup

Latest updates (selected):

- // Reports on GMOs, UNGC adherence, and Crop Science Sustainability Progress
- // New Bioethics Council established
- // Extension of Bayer Science
 Collaboration Explorer with US
 launch
- // OpenLabs 360° launched
- // Progress on climate sphere
 (e.g., publication of offsetting
 approach, updated supplier code of
 conduct, and industry association
 climate review)

https://www.bayer.com/en/sustainability/sustainability-council

https://www.bayer.com/en/sustainability/the-bayer-bioethics-council

https://www.bayer.com/en/sustainability/transparency

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https://www.haver.com/en/sustainahility/hase



Bayer with strong results in ESG ratings and assessments

Removal of Red Flags at MSCI and ISS ESG Norm-Based Research in 2021/2022

	Agency	Score Type	Latest Score	Year*	Δ	Explanatory information
	MSCI 🌐	ESG Score Controversy level**	A (industry average) severe (GMO)	2022	A	Improvement of rating from BB to A ► (GMO) removed
G Ratings	ISS ESG ≥	ESG Score Norm-Based Research	C+ (1 st decile of industry) ► (Neonics)	2022		► (Neonics) removed New assessment in progress
Major ES	SUSTAINALYTICS	Risk Score Controversy level**	27.4 (medium) 5 (severe)	2023	A	Overall high exposure & above subindustry average Impacted by Glyphosate litigation, outlook positive
	Moody's analytics	ESG Score	55 / 100	2023	A	Above industry average and sector average performance
ments	access to medicine FOUNDATION	Index of pharmaceutical companies worldwide	3.36 / 5 (Rank 1: 4.06) #9 out of 20	2022	A	Bayer entered the top 10 of the 2022 ATM ranking
focus assessi	ecovadis Business Sustainability Ratings	Supply Chain Sustainability Assessment	76 / 100	2023	A	Top 2% of all evaluated companies Strong improvements in environmental score
Other	DISCLOSURE INSIGHT ACTION	Climate Change Forests Water Security	A B A-	2022	>	Score maintained on high level New assessment in progress

^{*} year of latest rating/scoring publication

^{**} evaluation of controversial issues related to the company within the last 3 to 5 years through media and press releases

