

A microscopic image of several cells, likely cancer cells, showing a dense, irregular structure with many fine, hair-like projections extending from the surface. The image is rendered in a teal color scheme.

# Corporate Presentation

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May 2024

BIONTECH

# This Slide Presentation Includes Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, but not limited to, statements concerning: BioNTech's expected revenues and net profit/(loss) related to sales of BioNTech's COVID-19 vaccine, referred to as COMIRNATY where approved for use under full or conditional marketing authorization, in territories controlled by BioNTech's collaboration partners, particularly for those figures that are derived from preliminary estimates provided by BioNTech's partners; the rate and degree of market acceptance of BioNTech's COVID-19 vaccine and, if approved, BioNTech's investigational medicines; expectations regarding anticipated changes in COVID-19 vaccine demand, including changes to the ordering environment and expected regulatory recommendations to adapt vaccines to address new variants or sublineages; the initiation, timing, progress, results, and cost of BioNTech's research and development programs, including BioNTech's current and future preclinical studies and clinical trials, including statements regarding the timing of initiation, enrollment, and completion of studies or trials and related preparatory work and the availability of results, and the timing and outcome of applications for regulatory approvals and marketing authorizations; the targeted timing and number of additional potentially registrational trials, and the registrational potential of any trial BioNTech may initiate; discussions with regulatory agencies; BioNTech's expectations with respect to intellectual property; the impact of BioNTech's acquisition of InstaDeep Ltd. and its collaboration and licensing agreements; the development, nature and feasibility of sustainable vaccine production and supply solutions; and BioNTech's estimates of revenues, research and development expenses, selling, general and administrative expenses, and capital expenditures for operating activities. In some cases, forward-looking statements can be identified by terminology such as "will," "may," "should," "expects," "intends," "plans," "aims," "anticipates," "believes," "estimates," "predicts," "potential," "continue," or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words.

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# A Global Immunotherapy Leader

## COVID-19 VACCINE GLOBAL LEADERSHIP<sup>1</sup>

**>50 %** Comirnaty  
Market Share<sup>2</sup>

**>460 m** Doses distributed  
in 2023

Potential introduction of **combination respiratory vaccines in late 2025 or 2026**, if approved<sup>2</sup>

## STRONG FINANCIAL POSITION

**€ 16.9 bn**

total cash plus security investments<sup>3</sup>

## MULTIPLATFORM ONCOLOGY PORTFOLIO

**21** Clinical programs across

**11** Technology Platforms

## EXPANDING INFECTIOUS DISEASE PIPELINE

**7** Clinical programs in high unmet need indications

Growing **proprietary pipeline**

**Partnership with Pfizer** in respiratory and other high need indications

## BROAD COLLABORATION NETWORK



## LEADER IN ARTIFICIAL INTELLIGENCE

▶ InstaDeep™

**Aim for 10+ potentially registrational trials ongoing by year end 2024**

**Yearly oncology launches planned from 2026 onwards<sup>2</sup>**

Building a multi-product global biotechnology company to address the world's most pressing health challenges with pioneering technologies delivered at scale

1. Partnered with Pfizer; 2. Subject to successful clinical development and regulatory approval; 3. Consists of cash and cash equivalents of €8,976.6 million and security investments of €7,962.7 million, as of March 31, 2024.

# Our Vision: Harnessing the Power of the Immune System to Fight Human Disease

Elevating success beyond our historical achievement

**Sustainable respiratory  
vaccine business**

**Innovative precision  
medicine pipeline  
targeting multiple  
product approvals in  
oncology in the coming  
years**

**Multi-product  
immunotherapy pioneer  
addressing medical need  
worldwide**

**BioNTech's key objectives for the next phase**

Powered by breakthrough science, disruptive technologies & AI

# Our Multi-Platform Immuno-Oncology Pipeline Today

Phase 1	Phase 1/2	Phase 2	Phase 3
<b>BNT116</b> Adv. NSCLC	<b>BNT142</b> (CD3xCLDN6) Multiple CLDN6-pos. adv. solid tumors	<b>BNT111</b> <sup>2</sup> aPD(L)1-R/R melanoma, + cemiplimab	<b>BNT316/ONC-392 (gotistobart)</b> <sup>4</sup> (CTLA-4) anti-PD-1/PD-L1 experienced NSCLC
<b>Autogene cevumeran (BNT122)</b> <sup>1</sup> Multiple solid tumors	<b>BNT151</b> (IL-2 variant) Multiple solid tumors	<b>BNT113</b> 1L rel./met. HPV16+ PDL-1+ head and neck cancer, + pembrolizumab	<b>BNT323/DB-1303</b> <sup>5</sup> (HER2) HR+/HER2-low met. breast cancer
<b>BNT152 + BNT153</b> (IL-7, IL-2) Multiple solid tumors	<b>BNT211</b> (CLDN6) Multiple solid tumors	<b>BNT116</b> <sup>2</sup> 1L adv. PD-L1 ≥ 50% NSCLC, + cemiplimab	<b>BNT323/DB-1303</b> <sup>5</sup> (HER2) <b>PLANNED</b> HER2-expressing rec. endometrial cancer
<b>BNT221</b> Refractory metastatic melanoma	<b>BNT311/GEN1046</b> <sup>3</sup> (acasonlimab; PD-L1x4-1BB) Multiple solid tumors	<b>Autogene cevumeran (BNT122)</b> <sup>1</sup> 1L adv. melanoma, + pembrolizumab	
<b>BNT321</b> (sLea) Metastatic PDAC	<b>BNT312/GEN1042</b> <sup>3*</sup> (CD40x4-1BB) Multiple solid tumors	<b>Autogene cevumeran (BNT122)</b> <sup>1</sup> Adj. ctDNA+ stage II or III CRC	
<b>BNT322/GEN1056</b> <sup>3</sup> Multiple solid tumors	<b>BNT313/GEN1053</b> <sup>3</sup> (CD27) Multiple solid tumors	<b>Autogene cevumeran (BNT122)</b> <sup>1</sup> Adj. PDAC, + atezolizumab + mFOLFIRINOX	
<b>BNT326/YL202</b> <sup>6</sup> (HER3) Multiple solid tumors	<b>BNT314/GEN1059</b> <sup>3</sup> (EpCAMx4-1BB) Multiple solid tumors	<b>BNT311/GEN1046</b> <sup>3</sup> (acasonlimab; PD-L1x4-1BB) R/R met. NSCLC, +/- pembrolizumab	
	<b>BNT316/ONC-392 (gotistobart)</b> <sup>4</sup> (CTLA-4) mCRPC, + radiotherapy	<b>BNT316/ONC-392 (gotistobart)</b> <sup>4</sup> (CTLA-4) Plat.-R. ovarian cancer, + pembrolizumab	
	<b>BNT316/ONC-392 (gotistobart)</b> <sup>4</sup> (CTLA-4) Multiple solid tumors		
	<b>BNT321</b> (sLea) adjuvant PDAC, +mFOLFIRINOX		
	<b>BNT323/DB-1303</b> <sup>5</sup> (HER2) Multiple solid tumors		
	<b>BNT324/DB-1311</b> <sup>5</sup> (B7H3) Multiple solid tumors		
	<b>BNT325/DB-1305</b> <sup>5</sup> (TROP2) Multiple solid tumors		
	<b>BNT411</b> (TLR7) Multiple solid tumors		

**Legend**

- mRNA
- Cell therapy
- Next generation IO
- ADCs
- Small molecules

1. Partnered with Genentech, member of Roche Group; 2. Partnered with Regeneron; 3. Partnered with Genmab; 4. Partnered with OncoC4; 5. Partnered with DualityBio; 6. Partnered with MediLink Therapeutics.

\*Two phase 1/2 clinical trials in patients with solid tumors are ongoing in combination with immune checkpoint inhibitor +/- chemotherapy

NSCLC = non-small cell lung cancer; SCLC = small cell lung cancer; mCRPC = metastatic castration resistant prostate cancer; HPV = human papillomavirus; PDAC = pancreatic ductal adenocarcinoma; CRC = colorectal cancer; CLDN = claudin; IL = interleukin; 1L = first line; R/R = relapsed/refractory; HER2/HER3 = human epidermal growth factor 2/3; sLeA = sialyl-Lewis A antigen; TROP2 = trophoblast cell-surface antigen 2; TNBC = triple negative breast cancer.

## Our Oncology Approach

# Goals

Address the continuum of cancer

Bring novel therapies to cancer patients and establish new treatment paradigms

Open up novel options to combine platforms and therapies

# Strategy

Portfolio covering compound classes with synergistic mechanisms of action

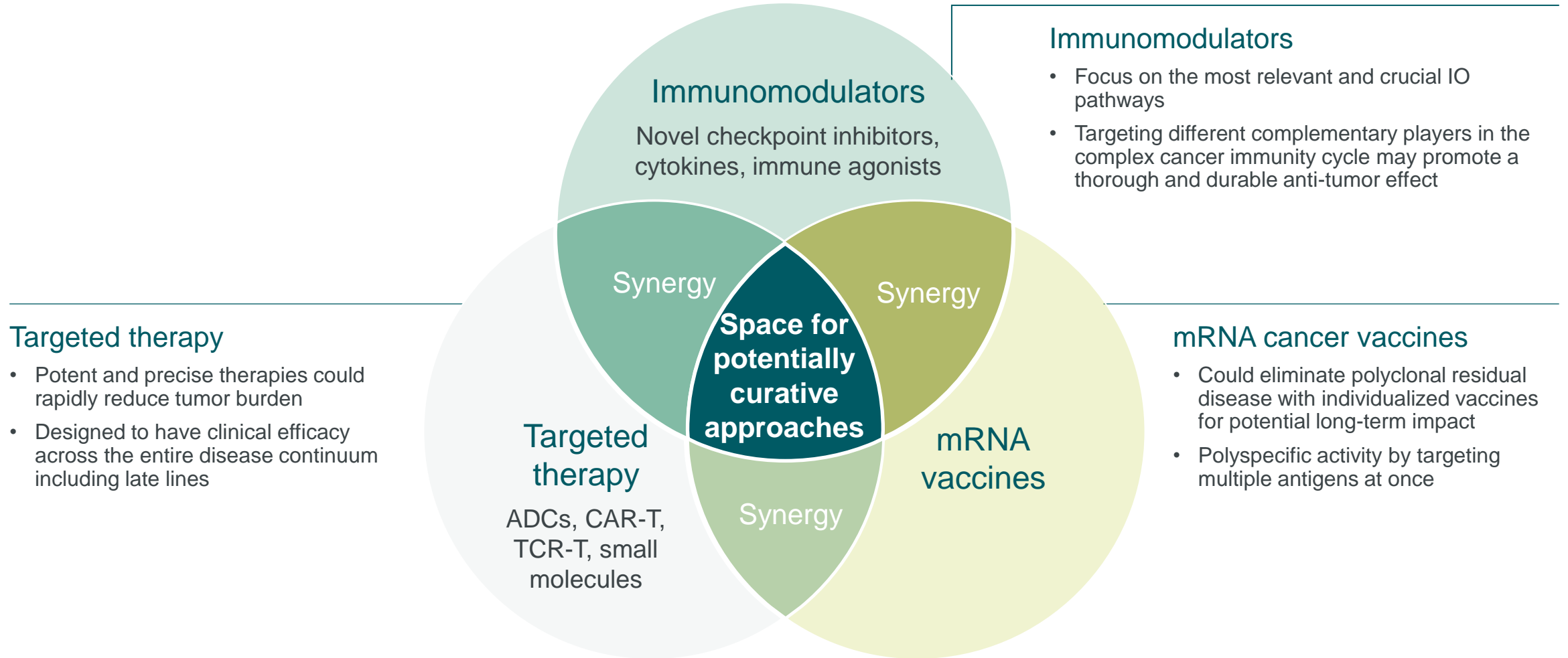
- Immunomodulators
- Targeted therapies
- Individualized and off-the-shelf mRNA vaccines

Programs across a wide range of solid tumors and stages of treatment

Programs with first-in-class and / or best-in-class potential

Unique therapeutic combinations

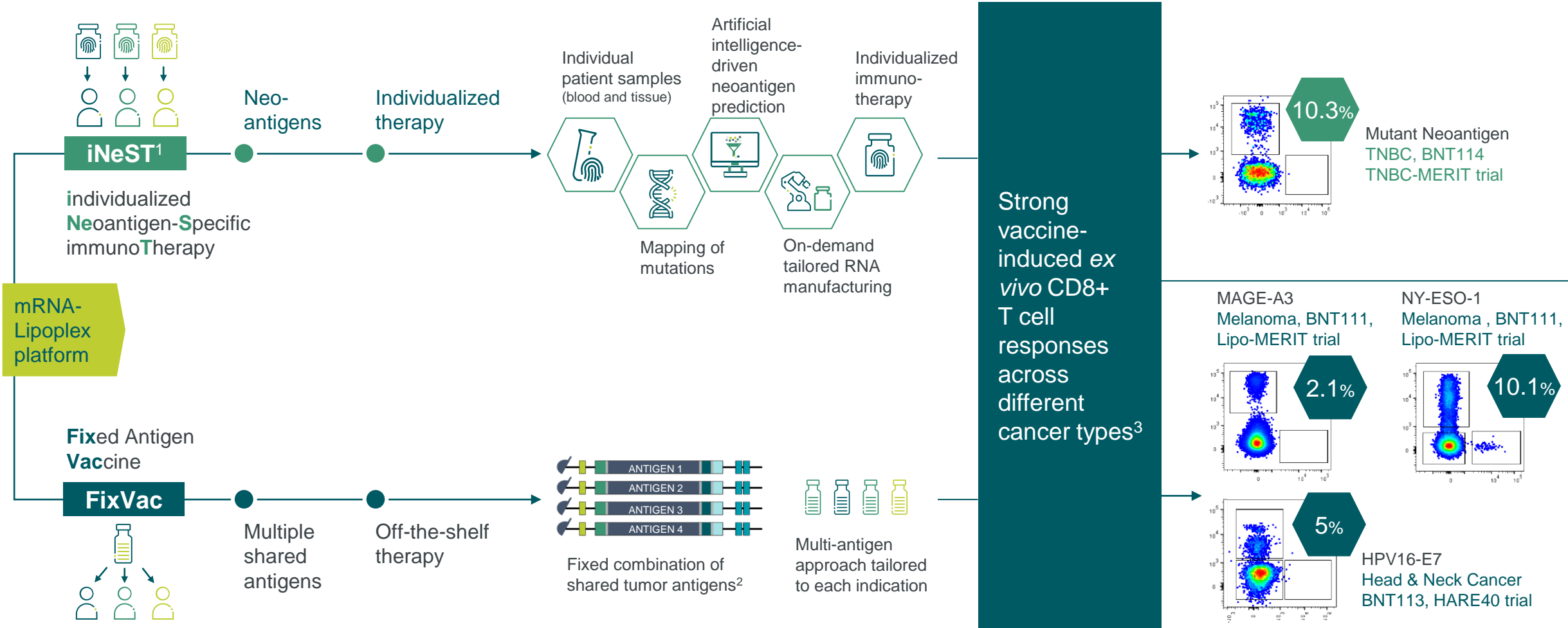
# Towards a Potentially Curative Approach to Cancer: Differentiated Combinations



ADC = antibody-drug conjugate; CAR = chimeric antigen receptor; TCR-T = T-cell receptor engineered T cell; IO = immune oncology.



# BioNTech – Full Exploration of Cancer Vaccine Target Space



1. iNeST, or autogene cevumeran (BNT122), is being developed in collaboration with Genentech, a member of the Roche Group. 2. Amount of tumor antigens varies across programs; 3. T cell responses analyzed by *ex vivo* multimer staining analysis in blood.

TNBC = triple-negative breast cancer; MAGE = melanoma-associated antigen; NY-ESO-1 = New York esophageal squamous cell carcinoma-1; HPV = human papillomavirus E7.



# Growing Portfolio of Cancer Vaccine Candidates Across Multiple Solid Tumors




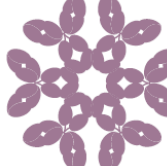

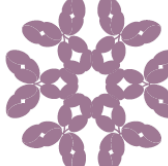

## Six ongoing Phase 2 trials with cancer vaccine candidates in multiple disease settings

Individualized vaccine: iNeST <sup>1</sup>				FixVac				
Adjuvant		1L	R/R	R/R	Post-adj.	Neo-adj, mCR	1L	Multiple settings
CRC Phase 2	PDAC Phase 2	Melanoma Phase 2	Solid Tumors Phase 1	Melanoma Phase 2	TNBC Phase 1	Prostate Cancer Phase 1/2	HPV16+ HNSCC Phase 2	NSCLC Phase 1 & 2
Autogene cevumeran (BNT122) Monotherapy	Autogene cevumeran (BNT122) + Atezolizumab	Autogene cevumeran (BNT122) + Pembrolizumab	Autogene cevumeran (BNT122) + Atezolizumab	BNT111 +/- Cemiplimab	BNT114	BNT112 Monotherapy & + Cemiplimab + ADT	BNT113 + Pembrolizumab vs. Pembrolizumab	BNT116 Monotherapy & Cemiplimab or CTx
Study ongoing	Study ongoing Data presented from investigator-initiated Ph 1 study at ASCO 2022 & AACR 2024 and published (Rojas et al. Nature.2023)	Enrollment completed, study is ongoing Analysis of PFS as primary endpoint will be based on events and define when we will report results	Enrollment completed, study is ongoing Data presented at AACR 2020 Manuscript in preparation	Enrollment completed, study is ongoing Data presented from Ph1 at SITC 2021 and published (Sahin et al., Nature 2020)	Study completed Data presented at SITC 2020 Manuscript in preparation	Discontinued Data presented at SITC 2021	Study ongoing Data presented at ESMO-IO 2022	Ph 1 study in multiple settings ongoing Data presented at SITC 2023 and AACR 2024 Ph 2 study in 1L NSCLC ongoing <sup>2</sup>

1. Partnered with Genentech, member of Roche Group; 2. Sponsored by Regeneron.

iNeST = individualized Neoantigen Specific Immunotherapy; 1L = first line; R/R = relapsed/refractory; CRC = colorectal cancer; PDAC = pancreatic ductal adenocarcinoma; TNBC = triple-negative breast cancer; HPV = human papillomavirus; HNSCC = head and neck squamous carcinoma; NSCLC = non-small cell lung cancer; ADT = androgen deprivation therapy; CTx = chemotherapy; PFS = progression-free survival; ASCO = American Society of Clinical Oncology; AACR = American Association for Cancer Research; SITC = Society for Immunotherapy of Cancer; ESMO-IO = European Society for Medical Oncology Immuno-Oncology.

# Therapeutic IO Candidates with Novel Modes of Action Across Multiple Solid Tumors

BNT316/ ONC-392 <sup>2</sup> (gotistobart)	BNT311/ GEN1046 <sup>1</sup> (acasunlimab)	BNT312/ GEN1042 <sup>1</sup>	BNT313/ GEN1053 <sup>1</sup>	BNT314/ GEN1059 <sup>1</sup>	BNT315/ GEN1055 <sup>1</sup>	BNT327/ PM8002 <sup>3</sup>
Anti-CTLA4	Anti-PD-L1 Anti-4-1BB	Anti CD40 Anti-4-1BB	Anti-CD27	Anti-EpCAM Anti-4-1BB	Anti-OX40	Anti-VEGF
						
Optimized Fc	Inert Fc	Inert Fc	Inert Fc	Inert Fc	Inert Fc	Inert Fc Anti-PD-L1 VHH
<b>Clinical status</b> <ul style="list-style-type: none"> <li>• Ph1/2 in multiple solid tumors</li> <li>• Ph2 in PROC</li> <li>• Ph3 in 2L+ mNSCLC</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• Ph1/2 in multiple solid tumors</li> <li>• Ph2 in mNSCLC</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• Ph1/2 trials in multiple solid tumors</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• Ph1/2 in multiple solid tumors</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• IND approved</li> <li>• FPD achieved in FIH in Q1 2024</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• IND approved</li> <li>• FIH planned</li> </ul>	<b>Clinical status</b> <ul style="list-style-type: none"> <li>• Several Ph2/3 in patients in China ongoing</li> <li>• Investigational New Drug Application accepted for further studies in the U.S.</li> </ul>

Additional trial starts and data readouts planned in 2024

1. Partnered with Genmab; 2. Partnered with OncoC4; 3. Partnered with Biotheus. CTLA4 = Cytotoxic T-Lymphocyte-Associated Protein 4; CD27, CD40, 4-1BB = members of the tumor necrosis factor receptor superfamily; PDL-1 = Programmed cell death ligand 1; HER2 = human epidermal growth factor receptor 2; ADCC = Antibody dependent cell-mediated cytotoxicity; ADCP = Antibody dependent cellular phagocytosis; PROC = platinum-resistant ovarian cancer; NSCLC = non-small cell lung cancer; EC = endometrial cancer APC = antigen presenting cells; VEGF = vascular endothelial growth factor; TME = tumor microenvironment; CTx = chemotherapy; IND = investigational new drug application; FIH = first in human.

# ADC Portfolio Constructed with Thoughtful Considerations

## Expression level by indication<sup>1</sup>

Target	NSCLC	SCLC	HER2+ BC	HR+ BC	TNBC	CRC	Gastric	Ovarian	PDAC	HNSCC	Prostate
HER2	Medium / Low	Very low / No-expression	High	High	High	High	High	High	High	High	High
TROP2	High	High	High	High	High	High	High	High	High	High	High
B7-H3	High	High	High	High	High	High	High	High	High	High	High
HER3	Medium / Low	Very low / No-expression	High	High	High	High	High	High	High	High	High

High Medium / Low Very low / No-expression

## Advanced asset on path to registration

- BNT323/DB-1303<sup>2</sup> in multiple pivotal studies

## Unique indication selection strategy

- Four clinical stage ADCs with broad, yet minimal overlapping, indication opportunities
- Innovative trial designs planned to open leapfrog path
- Fast-follower potential in large indications

Target	Program	Stage			Indications	Partner
		Ph1/2	Ph2	Ph3		
HER2	BNT323/DB-1303 <sup>2</sup>	→			HR+ HER2-low mBC	DualityBio
		→			HER2-expressing mEC, 2L+	
		→			Solid tumors with HER2 expression	
TROP2	BNT325/DB-1305 <sup>2</sup>	→			Solid tumors	DualityBio
B7H3	BNT324/DB-1311 <sup>2</sup>	→			Solid tumors	DualityBio
HER3	BNT326/YL202	→			Solid tumors	MediLink <sup>3</sup>

## Wider therapeutic window may enable novel combinations in earlier lines

- ADC combinations that are based on non-overlapping tumor antigens and different payload MoAs

1. RNAseq data from AACR Project GENIE; 2. Partnered with DualityBio; ADC = antibody-drug conjugate; MoA = mode of action; HR = hormone receptor; HER2/3 = human epidermal growth factor receptor 2/3; TROP2 = trophoblast cell-surface antigen; (N)SCLC = (non-)small cell lung cancer; BC = breast cancer; TNBC = triple-negative breast cancer; CRC = colorectal cancer; PDAC = pancreatic ductal adenocarcinoma; HNSCC = head and neck squamous cell carcinoma; EC = endometrial cancer.

# Investing in Our Oncology Growth Through 2030

## Mid- and late-stage programs



BNT323/DB-1303<sup>1</sup>



BNT316/ONC-392 (gotistobart)<sup>2</sup>



BNT311/GEN1046 (acasunlimab)<sup>3</sup>



BNT327/PM8002<sup>4</sup>



autogene cevumeran/BNT122<sup>5</sup>



BNT113



BNT211

## 2024

Aiming for **10+** potentially registrational trials by end of 2024

Multiple clinical updates planned for 2024

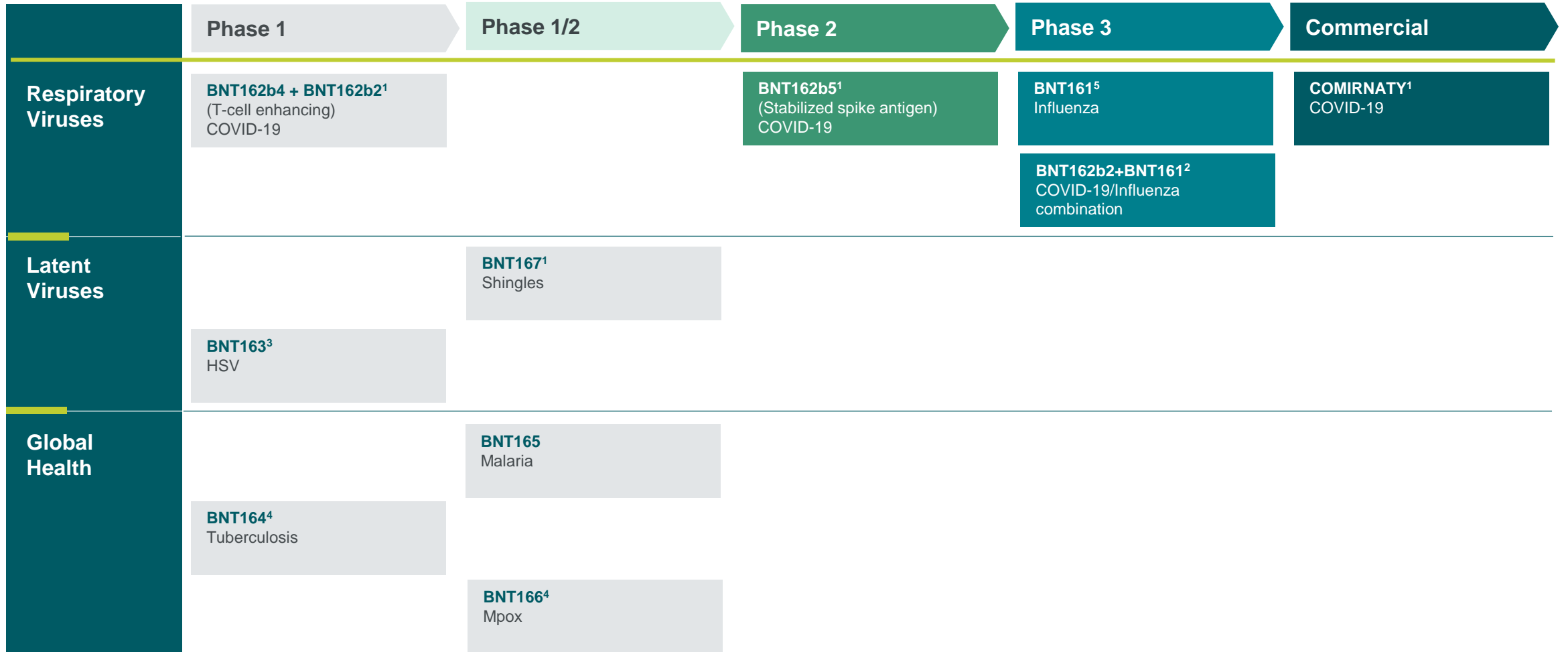
## Targets<sup>6</sup>

Yearly oncology launches planned from 2026 onwards

Goal of 10 indication approvals in oncology by 2030

1. Partnered with DualityBio; 2. Partnered with OncoC4; 3. Partnered with Genmab; 4. Partnered with Biotheus; 5. Partnered with Genentech, a member of the Roche group. 6. These targets are subject to the timing and successful outcome of clinical development, and regulatory approvals.

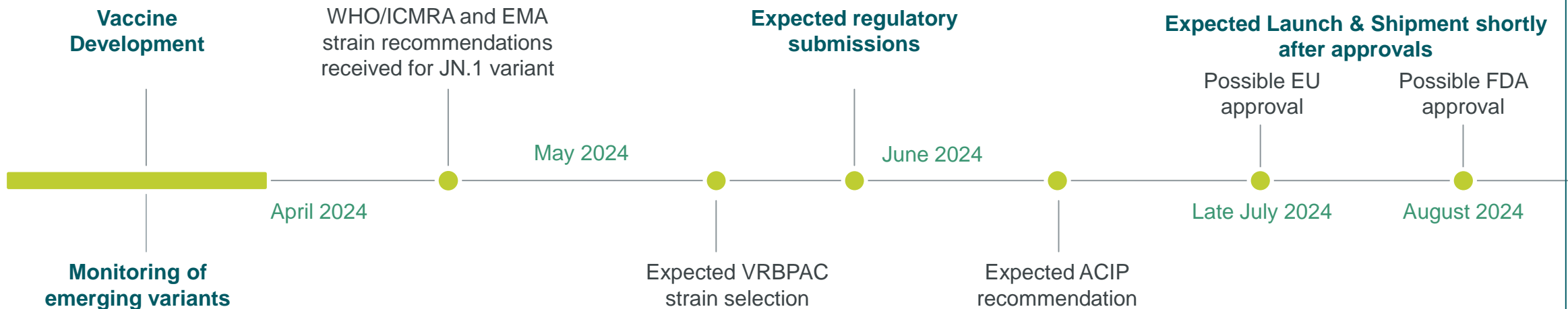
# Broad Infectious Disease Pipeline Built on Versatile mRNA Technology



1. Partnered with Pfizer; 2. Collaboration with Pfizer and subject to reaching agreement with our partners; 3. Collaboration with University of Pennsylvania; 4. In collaboration with Bill & Melinda Gates Foundation; 5. Exclusive license to Pfizer.  
 HSV = Herpes simplex virus.  
 Please find current product information for Comirnaty at [https://www.ema.europa.eu/en/documents/product-information/comirnaty-epar-product-information\\_en.pdf](https://www.ema.europa.eu/en/documents/product-information/comirnaty-epar-product-information_en.pdf) and <https://www.fda.gov/media/151707/download>.

# COVID-19 Vaccine Market Dynamics and Outlook<sup>1</sup>

## Potential expedited timeline for variant-adapted vaccine development



### Planning for:

Late summer launch in over 80 geographies of 2024 seasonally adapted vaccine<sup>2</sup>


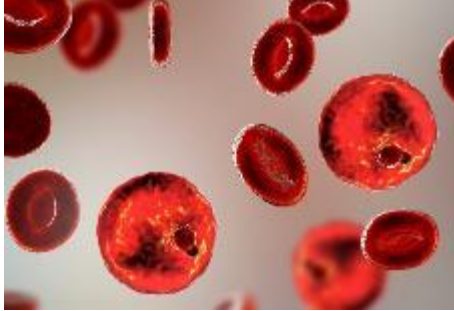

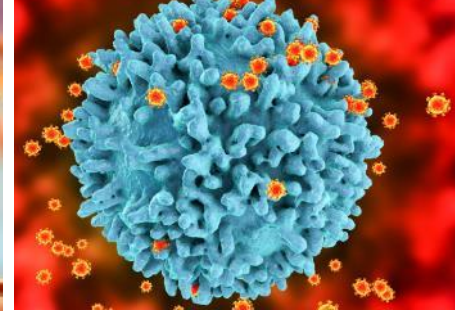
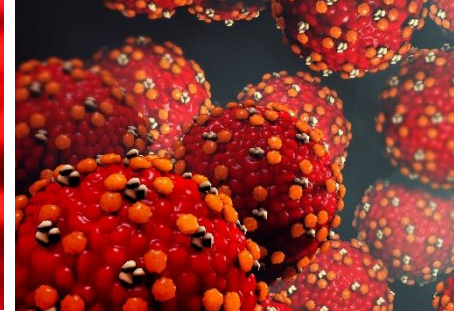
Opening of private markets in selected geographies

Significant increases in supply of pre-filled syringe doses

1. Partnered with Pfizer. 2. Subject to regulatory approvals.

WHO = World Health Organisation; ICMRA = International Coalition of Medicines Regulatory Authorities; EMA = European Medicines Agency; VRBPAC = Vaccines and Related Biological Products Advisory Committee; ACIP = Advisory Committee on Immunization Practices; FDA = Food and Drug Administration.

# Infectious Diseases: Important Growth Area Addressing High Medical and Global Health Need<sup>1</sup>

HSV	Malaria	Tuberculosis	Mpox	Shingles
				
<p><b>3.7 billion people under age 50</b> globally infected with HSV-2</p> <p><b>~491 million</b> people aged 15-49 infected with HSV-1 worldwide</p>	<p><b>~249 million cases</b> in 2022</p> <p><b>608,000 deaths</b> in 2022 in 85 countries</p> <p><b>Children under 5</b> accounted for <b>80%</b> of all malaria deaths</p>	<p><b>10.6 million cases</b> globally in 2022</p> <p><b>1.3 million deaths</b> globally in 2022</p> <p><b>2nd leading infectious killer</b> after COVID-19</p>	<p><b>95,000 cases</b> during 22/24 outbreak<sup>2</sup></p> <p>WHO warning about <b>high risk</b> for the general population in <b>DRC.</b></p>	<p>Individuals who live to 85 years old have <b>~50% risk</b> of developing shingles<sup>3</sup></p> <p>Incidence and severity of shingles <b>rise with age</b>, with a marked increase after age 50<sup>4</sup></p>

Additional preclinical programs to advance to the clinic in 2024 / 2025

1. All figures are from World Health Organization fact sheets unless otherwise referenced <https://www.who.int/news-room/fact-sheets> (accessed January 04 2024); 2. WHO 2022-24 Mpox outbreak: global trends accessed 09 May 2024 . [https://worldhealthorg.shinyapps.io/mpx\\_global](https://worldhealthorg.shinyapps.io/mpx_global) 3. Pan CX, et al. Ther Adv Vaccines Immunother. 2022; 4. Piot P. et al. Nature. 2019. WHO = World Health Organization; HSV = Herpes Simplex Virus; DRC = Democratic Republic of the Congo.



# 2024 Financial Year Guidance<sup>1</sup>

		<b>FY 2024 Guidance</b>
<b>FY 2024 revenues</b>	Total revenues	<b>€2,500 – €3,100 m</b>
	R&D expenses <sup>2</sup>	<b>€2,400 – €2,600 m</b>
<b>FY 2024 expenses, operating income and capex<sup>4</sup></b>	SG&A expenses <sup>3</sup>	<b>€700 – €800 m</b>
	Capital expenditure for operating activities	<b>€400 – €500 m</b>
<b>Revenue guidance considerations: Top-line sensitivity mainly dependent on the following factors</b>	<ul style="list-style-type: none"> <li>• Vaccination rates and price levels in markets where significant Comirnaty sales are expected</li> <li>• Inventory write-downs</li> <li>• Anticipated revenues related to service businesses, including InstaDeep, JPT Peptide Technologies, IMFS and from the German pandemic preparedness agreement</li> </ul>	

1. Excluding external risks that are not yet known and/or quantifiable, including, but not limited to, the effects of ongoing and/or future legal disputes or related activity.

2. Numbers include effects identified from additional in-licensing arrangements, collaborations or potential M&A transactions to the extent disclosed and are subject to update due to future developments.

3. Anticipated expenses related to external legal advice in connection with legal litigations is not reflected in SG&A but in other operating expenses for the 2024 financial year. Guidance does not include and may be impacted by potential payments resulting from the outcomes of ongoing or future legal disputes or related activity, such as judgments or settlements.

4. The Company does not expect to report a positive net income figure for the 2024 financial year and expects the majority of our 2024 global revenues for Comirnaty to be recorded in the second half of the year.

IMFS = BioNTech's Innovative Manufacturing Services

# Profitable COVID-19 Vaccine Business Supports Investment in Growth Drivers

## COVID-19 Vaccine Business – major value contributor

FY 2023

- Revenue of €3.8 bn
- Gross Profit of €3.2 bn
- COVID-19 associated R&D costs ~ €0.3 bn
- S&M costs < €0.05 bn
- COVID-19 vaccine business with lean cost structure expected to generate positive cash flows going forward






## Innovative Oncology Pipeline – potential future value driver

- Aiming for 10+ potentially registrational trials ongoing by the end of 2024
- First potential oncology launch estimated for 2026
- Diversified clinical pipeline offers multiple potential growth opportunities for the years to come

COVID-19 vaccine franchise and innovative oncology pipeline driving long-term value creation

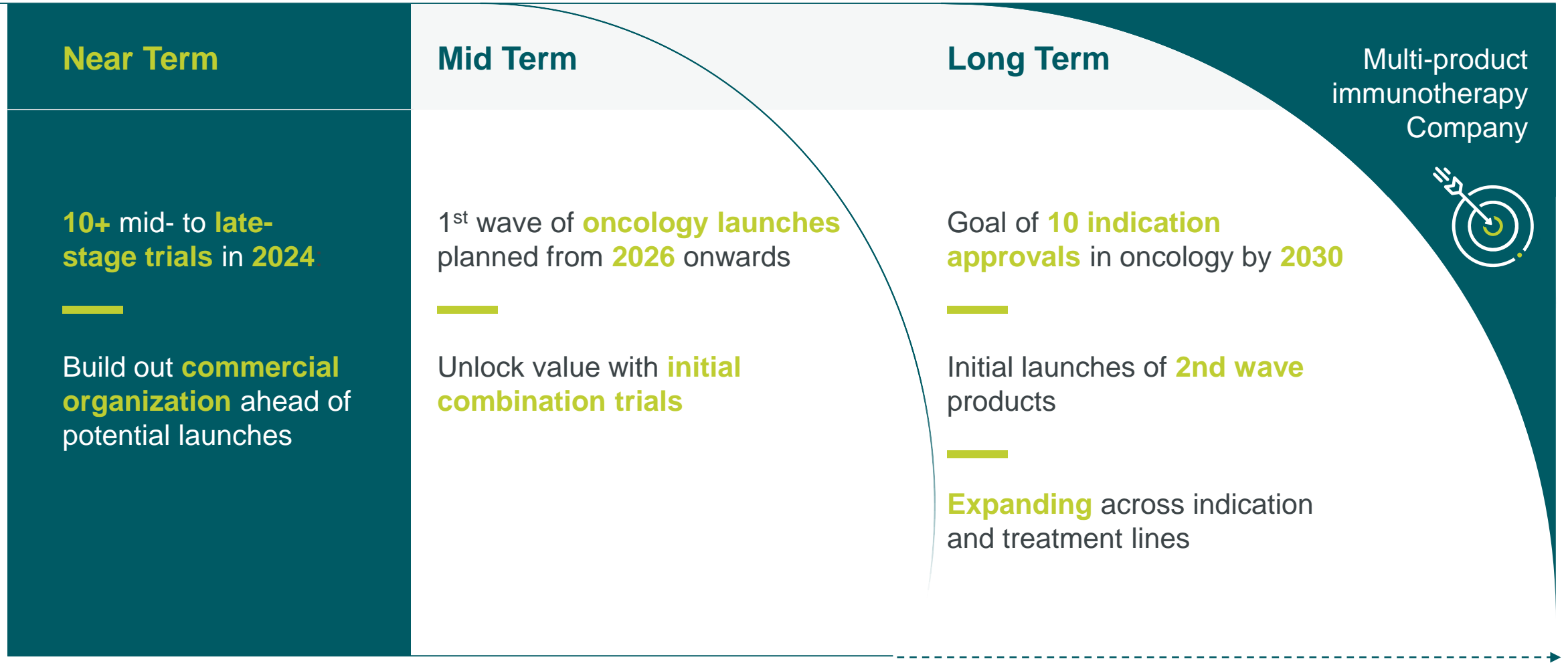
# Innovative and Diversified Pipeline Poised to Drive Long-Term Growth

## Investing in innovative therapies across drug classes with blockbuster potential

Drug Class	Data Update(s) Expected in 2024 or 2025	Potential First Submission Year	Potential Market Opportunity <sup>1</sup>
 mRNA cancer vaccines	✓	2027	Establish new pillar of individualized and off-the-shelf treatments with potential to address adjuvant and metastatic stage cancers, incl. CRC, PDAC, melanoma and NSCLC
 Immunomodulators	✓	2027	Multiple potential next generation checkpoint immunomodulator backbones with potential to address NSCLC, HNSCC, TNBC, and SCLC
 ADCs	✓	2026	Multiple fast follower and first-to-market opportunities with potential to address BC, NSCLC, EC, and PROC patients
 Cell Therapies <sup>2</sup>	✓	2027	First-in-class potential for CAR-T + mRNA vaccine combination therapy with potential to address CLDN6+ testicular, ovarian and lung cancers
 Infectious Disease (Non-COVID)	✓	2028	Infectious Disease vaccines with potential to address shingles, HSV, malaria, TB, mpox and HIV

1. Listed indications reflect indications currently included in ongoing or planned clinical trials conducted by BioNTech or partners, including some indications only in Phase 1/2 clinical trials. Potential commercial opportunities of investigational programs are subject to the timing and successful outcome of clinical development, regulatory approval, and commercialization. BNT programs considered in each drug class: mRNA cancer vaccines: autogene cevumeran (BNT122), BNT116, BNT111, BNT113; Immunomodulators: BNT316, BNT311, BNT312, BNT327, BNT321; Antibody Drug Conjugates (ADCs): BNT323, BNT325, BNT324, BNT326; Cell Therapies: BNT211; Non-Covid ID: BNT163, BNT164, BNT165, BNT166, BNT167.

# Investing Through Waves of Innovation with the Aim to Transform Medicine



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# Appendix

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## Advancing our Pipeline: Select Data Milestones in 2024

	Program	Indication	Targeted Milestone
<b>Oncology</b>	BNT311/GEN1046 (acasunlimab) <sup>1</sup>	R/R met. NSCLC, +/- pembrolizumab	Phase 2 data
	BNT312/GEN1042 <sup>1</sup>	Multiple solid tumors	Ph1/2 expansion cohort data
	BNT316/ONC-392 (gotistobart) <sup>2</sup>	Multiple solid tumors	Ph1/2 expansion cohort data
	BNT323/DB-1303 <sup>3</sup>	Multiple solid tumors	Ph1/2 expansion cohort data
	BNT325/DB-1305 <sup>3</sup>	Multiple solid tumors	Ph1/2 data
	BNT327/PM8002 <sup>4</sup>	Multiple solid tumors	Phase 2 data
<b>Infectious Disease</b>	BNT162b2 <sup>5</sup>	COVID-19, Omicron XBB.1.5 monovalent vaccine	Phase 2/3 data
	BNT167 <sup>5</sup>	Shingles	Phase 1 trial update

1. Partnered with Genmab; 2. Partnered with OncoC4; 3. Partnered with DualityBio; 4. Partnered with Biotheus; 5. Partnered with Pfizer.  
NSCLC = non-small cell lung cancer, R/R = relapsed/refractors.