UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

FOR THE MONTH OF JANUARY 2023

COMMISSION FILE NUMBER 001-39081

BioNTech SE

(Translation of registrant's name into English)

An der Goldgrube 12
D-55131 Mainz
Germany
+49 6131-9084-0
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F: Form 20-F \boxtimes Form 40-F \square Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): \square Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): \square

DOCUMENTS INCLUDED AS PART OF THIS FORM 6-K

On January 10, 2023, BioNTech SE (the "Company") CEO and co-founder Ugur Sahin presented at the JP Morgan Healthcare Conference 2023. 99.1.	The presentation is attached hereto as Exhibit

SIGNATURE

Pursuant to the requirements of the Exchange Act, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BioNTech SE

By: /s/ Dr. Sierk Poetting

Name: Dr. Sierk Poetting Title: Chief Operating Officer

Date: January 10, 2023

EXHIBIT INDEX

<u>Exhibit</u> <u>Description of Exhibit</u>

99.1 BioNTech Presents at JP Morgan Healthcare Conference 2023



Forward-Looking Statements and Disclaimer

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 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 including partners, particularly for those figures that are derived from preliminary estimates provided by BioNTech's incling and coverage negotiations with powermental authorities, private health insurers and other third-party payors after BioNTech's initial sales to national governments; the future commercial demand and medical need for initial or booster doses of a COVID-19 vaccine, or not activate third-pay payors after BioNTech's initial sales to national governments; the future commercial demand and medical need for initial or booster doses of a COVID-19 vaccine, or not provided third or provided the provided of the product candidates, including those reliating, to make a provided third or third payor and provided third provided th



Safety Information

COMENTATIVE VIEW Plaze Blastrick COVID-19 section is above granted standard marketing advication (AM) by the European Commission to your expensed commission to your expensed commission to your expensed commission to your expensed commission to your expense and provided and provided and provided and provided and provided and your expensed your expensed on the provided and your expensed your expenses and your expensed your expenses and your expensed your expensed your expenses and yo

severely welfared immune system. The European Medicione Agency's (EMAA) Committee for Medicional Products for Human Use (CHRP) has complete enclose in spoons evaluation of COMBRIANTY, consciously by consensus that sufficiently robust data on the quality safety and efficiency of the vaccine and efficiency of the source of the second products o

- mRNA recording for the spike protein of the wish-gap and of the Omizon BA.46m as be administrated as a bootser in people aged 5 years and offere with how recorded and an obstitution of CoMRNATY Original Common BA.45m are better an international control of the secondary of the s

- equilateral friendings 4 denotes that additional monitoring in required to capture any adverser exactions. This will allow quick identification of new adely information. Individuals can help by reporting any side effects they may get. Bide effects can be reported to <u>Euthorisizations</u> or directly to BidNTech using

Safety Information

- AUTHORIZED USE IN THE U.S.
 PERER BIOLITED COUNTS Vaccine, Bivalent (Original And Omisron BA.4BA.5)
 PERER BIOLITED COUNTS Vaccine, Bivalent (Original And Omisron BA.4BA.5) is FDM-authorized under Emergency Use Authorization (EUA) for use in individuals 5 years of age and older as a single booster dose administered at least 2 months after either completed in gringing vaccination. While yauthorized or propored monositer? COVID-19 vaccine; or
 recognition of gringing vaccination with any authorized or paptoved monositer? COVID-19 vaccine;
 recognition of any authorized and propored COVID-19 vaccine in the contains contained to a propored COVID-19 vaccine;
 recognition of the most recent booster dose with any authorized or paptoved COVID-19 vaccine;
 recognition of the propored COVID-19 vaccine in the contains or exceeds the spale protein of only the Original SARS-CoV-2 virus

- COMINATIVE (COVID-19 Vaccins, mRNA)

 COMINATIVE (COVID-19 Vaccins, mRNA) is an FDA-approved COVID-19 vaccine for active immunization to prevent conneitive, company of the covid-primary series does to individuals 12 years of age and otder who have certain kinds of immunicorrepromise.

 The COVID-19 vaccins is FDA autorous under Emergency U.A. Autorizations (EUA) for use in individuals 6 months and older to provide:

 a 2-does primary series to individuals 2 years and object.

 a 2-does primary series to individuals 2 years and object with contain kinds of immunicorrepromises. wirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 12 yrs of age and older. It is also authorized as a third

EMERGENCY USE AUTHORIZATION

Temperory, uses of the vectores have not been approved or licensed by FDA but have been authorized by FDA under an Emergency Use Authorization (EUA) to prevent Commission. Disease 2019 (COVID-19) in individuals aged 5 months and older for the Pilizer BioNTech COVID-19 Vaccine, and 5 years and authorization for the CovID-19 Vaccine, Biological CovID-19 Vaccine, B

IMPORTANT SAFETY INFORMATION
Place-flowfund COVID-19 Vaccine, mRNA) and Pitzer-BioNTech COVID-19 Vaccine, mRNA) and Pitzer-BioNTech COVID-19 Vaccine, mRNA) and Pitzer-BioNTech COVID-19 Vaccine

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- Nave a belonging dioretor or are not all affects the immune system

- are prepared to become prepared, or are breastledding

- have over fainted in association with an injection

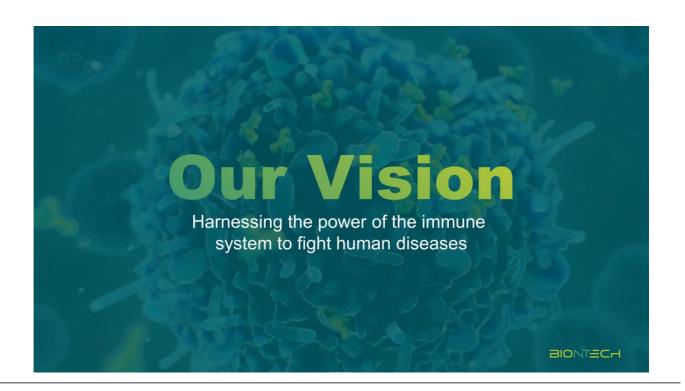
- Indicates should not get COMRNATY (COVID-19 Vaccine, mRNA), the Pitzer-BioNTech COVID-19 Vaccine, or the Pitzer-BioNTech COVID-19 Vaccine, bivalent if they have had a severe allergic reaction after a previous dose of COMRNATY or the Pitzer-BioNTech COVID-19 Vaccine or any ingredient in these sections. The bits sections could usual as severe allergic reaction would usually occur within a few minutes to 1 hour after getting a dose of the veccine. For this reason, your vaccination provider may sak you to stay at the place where you nocived the vaccine for monitoring after vaccination. If you experience a severe allergic reaction, call 6-1-1 or go be in necessit topolish.

- The vaccine may not protect everyone. Side effects reported with the vaccine include:

 Servine allergic reactions, Non-server allergic reactions such as read, bother, by two, or swelling of the fact, Myccardisis (inflammation of the hard muscle); Pericardisis (inflammation of the large outside the heart), higher or site pain. Tenderse, Headacher, Mancle pain; Chillis, Joint pain; Fever injection site lack of energy. Chillis, Joint pain; Fever injection site lack of energy. Chillis, Joint pain; Fever injection in the second of the vaccine, Unusual and perisistent poor feeding. Unusual and perisis

Individuals should always ask their healthcare providers for medical advice about adverse events. Report vaccine side effects to the US Food and Drug Administration (FDA) and the Centers for Disease Control and Prevention (CDC) Vaccine Adverse Event Reporting System (VAERS). The VAERS toll-free number is 1 800-822-7867 or report online to www.vaers.htm. In addition, individuals can report side effects to Pizer Inc. at www.pfacesafetyreporting.com or by calling 1-800-438-1865





2022 Highlights Translating Vision into Strong Performance

Commercial & Market Leadership with COVID-19 Franchise¹

Scientific & Clinical Execution

Corporate Execution

¹ Partnered with Pfizer





~550 million doses

of variant-adapted vaccine² shipped

~2 billion doses

invoiced in 2022

>60% market share³

Broadest label amongst COVID-19 vaccines

2022 Translating Vision Highlights into Strong Performance

Scientific & Clinical Execution



¹ Partnered with Genmat ² Partnered with Pfizer

Clinical POC across multiple modalities:

BNT211 first cell therapy for solid tumors BNT312¹ next-gen checkpoint immunomodulator

4 new programs first in human:

BNT116 FixVac in NSCLC BNT141 Ribomab CLDN18.2

BNT313 Hexabody CD27¹ BNT142 Ribomab CD3xCLDN6

Initiated

3 COVID-19 vaccine trials

3 Phase 1 trials for mRNA vaccines, including new pathogen antigens first-in-human:

Flu+COVID-19² HSV2³ Malaria





Corporate Execution



Rapid deployment

~2 months from regulator recommendations to vaccine delivery Expanded partnerships

4 new collaborations accessing a variety of technologies

Broadened pipeline

22 programs in 26 ongoing trials

Grew team >1,500 new employees

Strong financials

€16.6 bn cash + €4.1 bn trade receivables¹

2023 Strategic Priorities







Tuberculosis⁶ Shingles¹

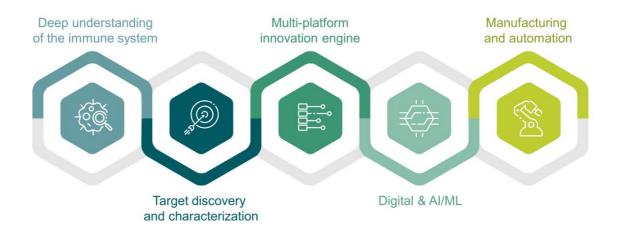




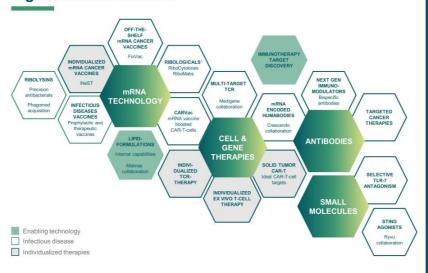
Global Powerhouse Built on People, Presence and Strategic Collaborations



Focused on Five Innovation Pillars



Our Disruptive Technology Toolkit to Fight Human Diseases



¹ mRNA encoded cancer-targeting antibodies and cytokines

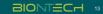
Core principles of our technology strategy

Technology agnostic approach rooted in deep fundamental understanding of biology

Build novel platforms with the ability to produce multiple product candidates

Open up new combination opportunities which leverage synergistic mechanisms of

Enable individualization of treatment



Uniquely Positioned to Individualize Cancer Medicine

Integrated model for immuno-oncology to transform R&D and patient care at scale



AI & Digitally-integrated target & drug discovery and development



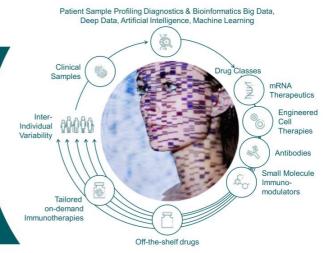
Individualized treatment platforms to address inter-individual variability



Deep genomics & immunology expertise to leverage patient data

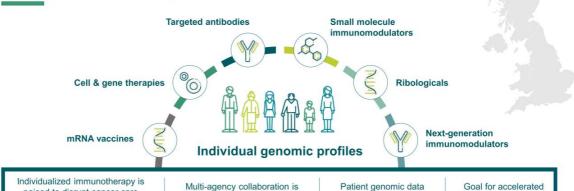


Automated manufacturing to serve patients on time and globally





Landmark UK Collaboration to Implement Personalized Medicine: Moving Immune Therapy Development Closer to the Point of Care



poised to disrupt cancer care and requires integrated, health-system-wide collaboration

Multi-agency collaboration is a new model for personalized treatment implementation

Patient genomic data informs personalized treatments

Goal for accelerated clinical and regulatory pathways

Goal: 10,000 personalized therapies to reach patients by 2030



BioNTech Innovation is Data and Al Driven



Deep understanding of the immune system: Understanding and exploiting immunological mechanisms through Data Science and ML since early days, including TRON collaboration since 2010



Target discovery and characterization: Exploiting the mutanome for personalized mRNA vaccines. ML drives neoantigen selection and IG prediction algorithms since 2017. Neon Therapeutics acquisition with high quality MS data



Multi-platform innovation engine: Applying AI to support the design of RiboCytokines and RiboMabs. TCR modeling for cell & gene therapies

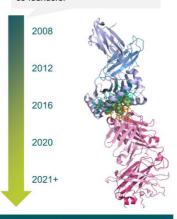


Digital & Al/ML: Strategic collaboration with InstaDeep since 2020. COVID-19 Early Warning System, Al Immune response detection (ELISPOT) and gene synthesis



Manufacturing and automation: Towards a vertically integrated, Al-driven Automated Lab combined with InstaDeep's DeepChain $^{\mathsf{TM}}$ protein design platform

Pre-BioNTech: Large scale in silico target discovery programs set up by co-founders.



BioNTech uses Al and ML in all its pillars since its creation in 2008



InstaDeep, Leader in Artificial Intelligence

Founded in 2014 with London HQ and offices in Cambridge (U.S.), Paris, Tunis, Lagos, **Dubai, and Cape Town**

Approx. 240 engineers and tech professionals, including world-class Al & ML researchers. Published in all major ML conferences (NeurIPS, ICLR, ICML)

Successful research collaborations with DeepMind, Google Research, Google Cloud and NVIDIA, plus EMEA ecosystem initiatives

Demonstrated capacity to develop and deploy AI systems at scale in multiple SaaS products (including $DeepChain^{TM}$)

Fully owned Nvidia DGX supercomputing infrastructure and distributed ML workload management system. Google Cloud TPU expertise

On CB Insights' 100 most Innovative AI startups list for 3 years running



InstaDeep is focused on productizing disruptive Al innovation



InstaDeep's Planned Acquisition to Accelerate BioNTech's Al-First Strategy

A fruitful, 3 year collaboration with InstaDeep

Improved neoantigen prediction over current BioNTech model

Al-based computer vision system improved Immune Response evaluation accuracy and speed

Improved success rate for Al-driven platform DNA/RNA synthesis together with 40x increase in monthly throughput

DeepChain[™] designed RiboLogicals validated in vitro

DeepChain[™] designed infectious disease vaccine targets

COVID-19 Early and Future Warning Systems evaluate immune escape from SARS-CoV-2 sequences for improved VOC detection

Transaction Highlights

Upfront cash and BioNTech stock payment of GBP £362 million

Performance-based cash earn-out of up to GBP £200 million within 3 years of transaction close

InstaDeep to become a wholly-owned, London-based BioNTech subsidiary

Closing expected Q1 20231





▶InstaDeep™

Our goal is to integrate AI seamlessly into all aspects of our work





First-to-Market BA.4/5-Adapted Bivalent Vaccine Launch: Scientific and Manufacturing Preparation Leads to Rapid Execution

Omicron-adapted vaccine in ~2 months from regulator recommendation to market

Recommended

Omicron-adapted bivalent vaccine encoding BA.4/5 sublineages



Approved in 60+ countries and regions1

Broad label covering ages 6 months+ in U.S.2 and 5 years+ in EU3

~550 million doses shipped globally4 of BA.4/5-adapted bivalent vaccine



research program and rapid response strategy



Safety database with more than 1.5 billion people treated



Capability to rapidly roll out new vaccines at commercial scale within months



Growing set of commercial relationships and partners around the world



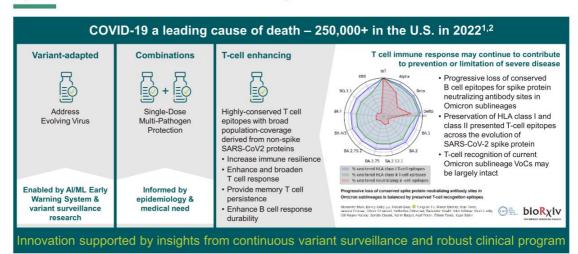
Expanding innovation capabilities in the field of infectious diseases

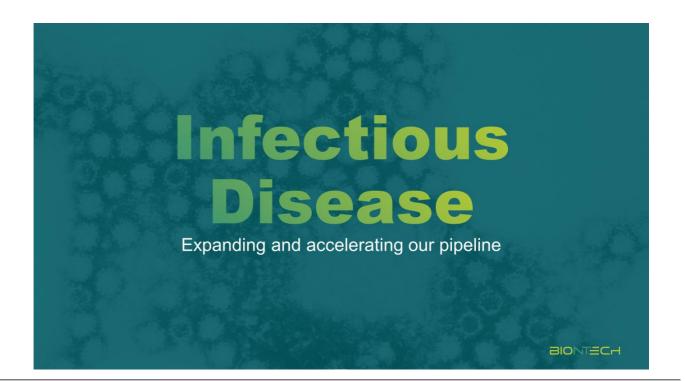
ration (EUA) for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute

ion to prevent coronavirus disease 2019 (COVID-19) in people aged 5 years and older

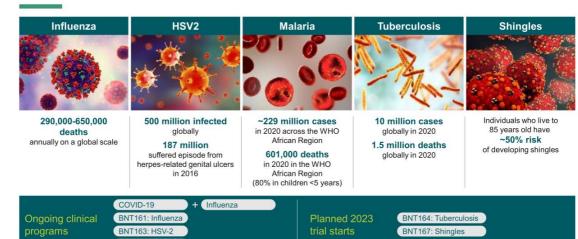


COVID-19 Franchise: Being Actionable in the Face of a **Dynamic Virus Evolution and Building for Continued Success**





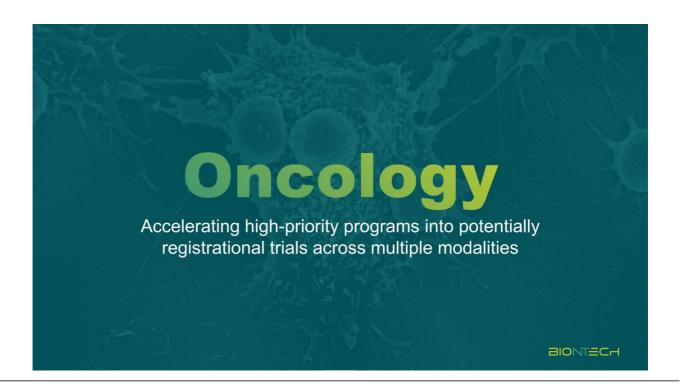
Infectious Diseases: Important Growth Area Addressing High Medical and **Global Health Need**



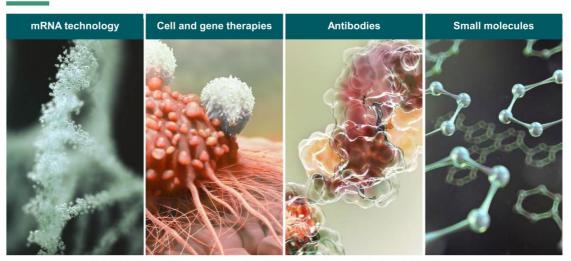
All figures from World Health Organization fact sheets. https://www.who.int/news-room/fact-sheets (accessed June 09, 2022).

BNT163: HSV-2 BNT165: Malaria



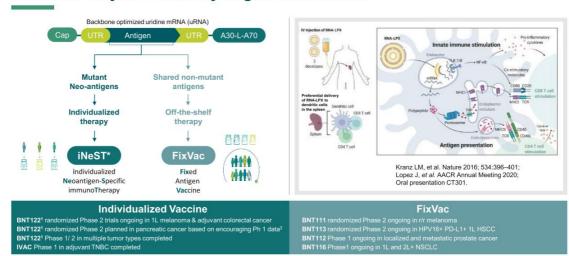


The Tools we Have Developed to Treat Cancer



19 Clinical Programs in 22 ongoing Clinical Trials

Planned Advancement of mRNA Cancer Vaccines in 2023 Paves the Way to Potentially Registrational Trials

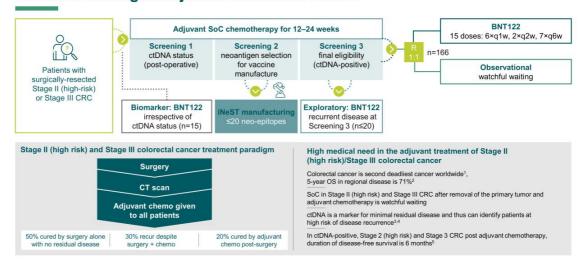


¹ Collaboration with Genentech.
² Balachandran VP, et al. ASCO Annual Meeting 2022; Poster presentation 2516.

BIONTECH 26

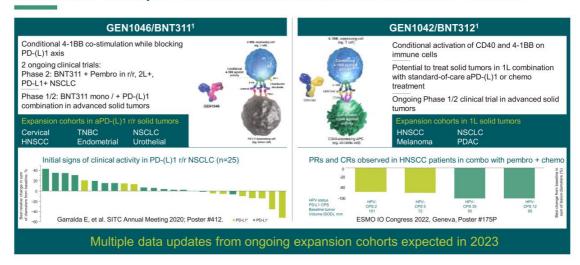
6

iNeST | Autogene Cevumeran (BNT122): Phase 2 Randomized Trial vs Watchful Waiting in Adjuvant Colorectal Cancer



¹ WHO factsheet on cancer. 2018 ² Seer database ³ Fan G, et al. PLoS One 2017; 12: e0171991

Intercepting Immune-Immune & Immune-Tumor Interactions: Next Generation Checkpoint Immuno-modulators with Pan-Tumor Potential



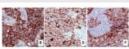
Bringing Cell Therapy to Solid Tumors: Combining the Potential of a Novel Highly Selective Target and a CAR T Cell Amplifying Vaccine

BNT211: Autologous CAR-T +/- CARVac targeting CLDN6+ solid tumors

CLDN6 not present in healthy tissues



CLDN6 expressed in multiple cancers



Science An RNA vaccine drives expansion and efficacy of claudin-CAR-T cells against solid tumors Reinhard K. et al. Science 2020: 367:446-453.

Manageable safety profile and observed clinical activity

- 1x10⁷ and 1x10⁸ CAR-T dose levels well tolerated
- · MTD not reached
- Efficacy signal in testicular cancer patients (n=7)
- ORR 57%, DCR 85% (1 CR, 3 PR, 2 SD)
- One CR confirmed at 18 and 52 weeks
- EMA PRIME designation in testicular cancer



Haanen J, et al. AACR Annual Meeting 2022; Oral presentation CT002.

Additional data readout and Phase 2 trial planned for 2023

CLDN6, claudin 6



Multiple Late- and Early-stage Pipeline Milestones Expected in 2023

Modality	Indication	Program	Select milestones	Anticipated timing
mRNA vaccines for infectious disease	COVID-19 ¹	BA.4/5-adapted bivalent	Pediatric label expansion	2H 2023
	COVID-19 – influenza combination ¹	BA.4/5-adapted bivalent+ BNT161	Phase 1 data update	1H 2023
	Malaria	BNT163	Phase 1 data update	2H 2023
	HSV2 ²	BNT165	Phase 1 data update	2H 2023
	Shingles ¹	BNT167	Phase 1 FPD	1H 2023
	Tuberculosis ³	BNT164	Phase 1 FPD	Early 2023
iNeST individualized mRNA vaccines	1L melanoma ⁴	Autogene Cevumeran (BNT122)	Phase 2 data update	2023
	Adjuvant CRC ⁴	Autogene Cevumeran (BNT122)	Phase 2 data update	4
	Adjuvant PDAC ⁴	Autogene Cevumeran (BNT122)	Phase 2 FPD	2023
Next-gen immune checkpoint modulators	Multiple solid tumors ⁵	BNT311 (PD-L1x4-1BB)	Expansion cohort data update	2023
	Multiple solid tumors ⁵	BNT312 (CD40x4-1BB)	Expansion cohort data update	2023
Cell therapies	CLDN6+ solid tumors	BNT211	Phase 1 data update	2023
	2L+ testicular cancer	BNT211	Phase 2 FPD	Late 2023



Advancing Toward Realizing Our Vision

Globally successful marketed COVID-19 vaccine with first-to-market BA.4/5-adapted booster

19 programs in 24 clinical trials 3 Phase 1 programs

5 randomized Phase 2 trials

Oncology

10+ preclinical programs, 2 FIH trials to start in 2023

Mark Infectious diseases

Driving transformation today

Next-gen and combination COVID-19 vaccines

Multiple oncology and ID product launches in next 3-5 years

Mid-term goals

5-10 IND submissions

Long-term vision

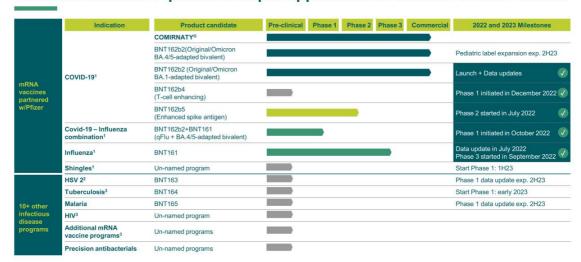
By 2030, we aim to be a multi-product global biotechnology leader, aspiring to address the world's most pressing health challenges with pioneering, disruptive technologies delivered at scale



THANK YOU BIONTECH

Appendix BIONTECH

Infectious Disease Pipeline: Multiple Opportunities Built on Proven Platform

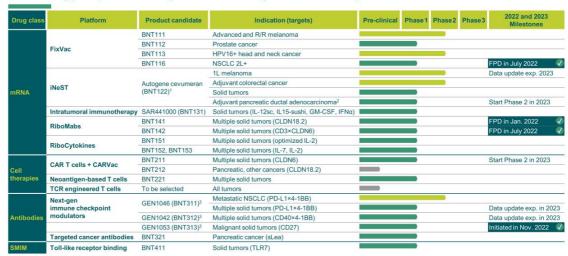


¹ Partnered with Pfizer

Ferniered with University of Pennsylvania

Glaboration with BMGF. BioNTech holds worldwide distribution rights except developing countries where BMGF holds distribution rights.

Oncology Pipeline: Significant Progress and Expansion in 2022



Partnered with Genentech
Investigator-initiated Phase 1 trial
Partnered with Genenab
Partnered with Genenab
FPD = First patent dosed, SMIM = small molecule immunomodulators, NSCLC = non-small cell lung cancer