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 2021
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 ⊠ Form 40-F □
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): \Box
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): □

DOCUMENTS INCLUDED AS PART OF THIS FORM 6-K

On January 11, 2021, BioNTech SE materials are attached hereto as Exhib	(the "Company") provide oit 99.1.	d a presentation at the J	P Morgan Healthcare Co	onference 2021. The presentation

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 Financial Officer

Date: January 11, 2021

EXHIBIT INDEX

Exhibit Description of Exhibit

99.1 Next Generation Immunotherapy January 2021.



This slide presentation includes forward-looking statements

Forward-looking statements

Various statements in this slide presentation concerning the future expectations of BioNTech, its plans and prospects, including the Company's views with respect to the potential for mRNA therapeutics; the planned next steps in BioNTech's pipeline programs and specifically including, but not limited to, statements regarding plans to initiate clinical trials of BioNTech's product candidates and expectations for data announcements with respect to BioNTech's product candidates; the development of commercial capabilities and the transition of BioNTech to a fully integrated biopharmaceutical company; its expectations with respect to interactions with regulatory authorities such as FDA and EMA, including the potential approval of BioNTech's or its collaborators' current or future drug candidates; expected royalty and milestone payments in connection with BioNTech's collaborations; BioNTech's anticipated cash usage for fiscal year 2021 and beyond; the creation of long-term value for BioNTech shareholders; the ability of BioNTech to successfully develop and commercialize a vaccine for COVID-19 in partnership with Pfizer and Fosun Pharma; the timing for any potential emergency use authorizations or approvals for BNT162; and the ability of BioNTech to supply the quantities of BNT162 to support clinical development and, market demand, including its production estimates for 2020 and 2021 and the impact of COVID-19 on our clinical trials and business operations, are forward-looking statements reflecting the current beliefs and expectations of management made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, as amended. Words such as "expects," "plans," "potential," "target," "continue" and variations of these words or similar expressions are intended to identify forward-looking statements. Such statements are based on the current beliefs and assumptions of the management team of BioNTech and on the information currently available to the management team of BioNTech, and are subject to change. The Company will not necessarily inform you of such changes. These forward looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors that could cause the Company's actual results, performance or achievements to be materially different than any future results, performance or achievements expressed or implied by the forward-looking statements. Actual results may differ materially from those indicated by these forward-looking statements as a result of various important factors, including the Company's ability to discover and develop its novel product candidates and successfully demonstrate the efficacy and safety of its product candidates; the pre-clinical and clinical results for its product candidates, which may not support further development of product candidates; actions of the Company's collaborators regarding continued product development and product commercialization; actions of regulatory authorities, which may affect the initiation, timing and progress of clinical trials or the ability of the Company to obtain marketing authorization for its product candidates; the Company's ability to obtain, maintain and protect its intellectual property; the Company's ability to enforce its patents against infringers and defend its patent portfolio against challenges from third parties; competition from others using technology similar to the Company's and others developing products for similar uses; the Company's ability to manage operating expenses; the Company's ability to obtain additional funding to support its business activities and establish and maintain its existing and future collaborations and new business initiatives; the Company's dependence on collaborators and other third parties for development, manufacture, marketing, sales and distribution of products; the outcome of litigation; and unexpected expenditures. Any forward-looking statements represent the Company's views only as of today and should not be relied upon as representing its views as of any subsequent date. The Company explicitly disclaims any obligation to update any forward-looking statements. The mRNA vaccines and other product candidates discussed in this slide presentation are investigational products being developed by BioNTech and its collaborators and are not currently approved by the FDA, EMA or any other regulatory authority



Safety Information

Authorized use in the U.S.:

 The Pfizer-BioNTech COVID-19 Vaccine is authorized for use under an Emergency Use Authorization (EUA) for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 16 years of age and older.

Important safety information from U.S. FDA emergency use authorization prescribing information:

- Do not administer Pfizer-BioNTech COVID-19 Vaccine to individuals with known history of a severe allergic reaction (e.g., anaphylaxis) to any component of the Pfizer-BioNTech COVID-19 Vaccine
- Appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs following administration of Pfizer-BioNTech COVID-19 Vaccine
- Monitor Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines (https://www.cdc.gov/vaccines/covid-19/)
- Immunocompromised persons, including individuals receiving immunosuppressant therapy, may have a diminished immune response to the Pfizer-BioNTech COVID-19 Vaccine
- The Pfizer-BioNTech COVID-19 Vaccine may not protect all vaccine recipients
- In clinical studies, adverse reactions in participants 16 years of age and older included pain at the injection site (84.1%), fatigue (62.9%), headache (55.1%), muscle pain (38.3%), chills (31.9%), joint pain (23.6%), fever (14.2%), injection site swelling (10.5%), injection site redness (9.5%), nausea (1.1%), malaise (0.5%), and lymphadenopathy (0.3%)
- Severe allergic reactions have been reported following the Pfizer-BioNTech COVID-19 Vaccine during mass vaccination outside of clinical trials. Additional adverse
 reactions, some of which may be serious, may become apparent with more widespread use of the Pfizer-BioNTech COVID-19 Vaccine
- · Available data on Pfizer-BioNTech COVID-19 Vaccine administered to pregnant women are insufficient to inform vaccine-associated risks in pregnancy
- · Data are not available to assess the effects of Pfizer-BioNTech COVID-19 Vaccine on the breastfed infant or on milk production/excretion
- There are no data available on the interchangeability of the Pfizer-BioNTech COVID-19 Vaccine with other COVID-19 vaccines to complete the vaccination series.
 Individuals who have received one dose of Pfizer-BioNTech COVID-19 Vaccine should receive a second dose of Pfizer-BioNTech COVID-19 Vaccine to complete the vaccination series
- Vaccination providers must report Adverse Events in accordance with the Fact Sheet to VAERS at https://vaers.hhs.gov/reportevent.htm or by calling 1-800-822-7967. The reports should include the words "Pfizer-BioNTech COVID-19 Vaccine EUA" in the description section of the report
- Vaccination providers should review the Fact Sheet for Information to Provide to Vaccine Recipients/Caregivers and Mandatory Requirements for Pfizer-BioNTech COVID-19 Vaccine Administration Under Emergency Use Authorization



Harnessing the immune system's full potential to fight human disease



2020: A TRANSFORMATIONAL YEAR FOR BIONTECH



Globally developed COVID-19 vaccine, COMIRNATY®*, in 10 months



Building a fully integrated biopharma company



Broadened clinical stage pipeline to 11 immuno-oncology product candidates



Established R&D hub in the US and established presence in Asia



Matured mRNA manufacturing base from clinical to global commercial scale

5 *COMIRNATY® is the brand name for BNT162b2 in the FU and Switzerland, where it has received conditional marketing authorization.



OPPORTUNITY IN 2021 AND BEYOND

Building a global, multi-product, immunotherapy powerhouse

Poised to usher in new era of vaccines and immunotherapies in multiple therapeutic areas



Advance broad pipeline of >20 product candidates

Ability to invest COMIRNATY cash flows to accelerate diverse portfolio



Proven execution capabilities and maturation toward a commercial organization

Deep expertise in immunology Cutting edge platforms across 4 drug classes Bioinformatics driven approach leveraging Al and machine learning In-house GMP manufacturing of mRNA and cell therapies



COMIRNATY: LEADING THE FIGHT AGAINST COVID-19

- First vaccine authorized for use in the US and the EU
- Authorization for Emergency Use / Temporary Use or Conditional Approval in > 45 countries
- 32.9m million doses shipped¹
- Global phase 3 trial data indicates vaccine is highly efficacious and generally well tolerated
 - 95% vaccine efficacy in 43,000+ participants
 - 94% efficacy in participants older than 65 years
 - Generally well tolerated with most adverse events being mild to moderate in intensity and transient in effect
 - Most common adverse events are fatigue, headache, pain at injection sites, chills, muscle and joint pain
- Broad immunogenicity profile (poly-epitopic, multi-effector), inducing high titer of neutralizing antibody and T cell responses







For use in individuals 16 years and older

7 1As of January 10th, 2021



SUPPLY UP TO TWO BILLION VACCINE DOSES IN 2021



- FY 2021 manufacturing capacity target: 2.0 billion doses*
- Committed Doses for 2021: >1 billion doses
- 50:50 gross profit share with Pfizer (worldwide ex-China); 35-40% gross profit share with Fosun Pharma in
- 6 manufacturing sites in Pfizer and BioNTech alliance
- Additional external CMO sites expanding LNP and fill-finish capacity



Marburg: major inflection point

- up to 750m doses in annual capacity
- Expected to become operational by end of February 2021
- "We now believe that we can potentially deliver approximately 2 billion doses in total by the end of 2021, which incorporates the updated 6-dose label. This is based on continuous process improvements and expansion at our current facilities, and contingent upon adding more suppliers as well as contract manufacturers.



MULTIPLE STRATEGIC LEVERS TO EXPAND COMIRNATY ACCESS



Increase Supply Capacity

- 6-dose vial
- Continous process improvements
- New sites, suppliers and CMOs

Expand label

- Pediatric indications
- Pregnant women
- Additional sub-populations

Broaden global distribution

- New country / regional authorizations
- BLA submission in U.S. and other regions
- Order book growth

Develop optimized formulations

- Further stability testing update for current formulation
- Improved thermostable formulation
- PEG-free formulation

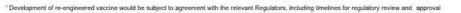


COVID-19 WILL LIKELY BECOME AN ENDEMIC DISEASE

Unmet Medical Needs

Key Strengths

1 Safety & Efficacy	Compelling efficacy & safety in all tested age groups
2 Emergence of new viral variants	Ability to create re-engineered vaccine in 6 weeks ¹
3 Naturally waning immune response	mRNA vaccine well-suited for re-vaccination





INFECTIOUS DISEASES REPRESENT A LONG-TERM GROWTH PILLAR

Unmet Medical Needs

- Increasing number of highly unaddressed indications
- Only <u>7</u> infectious disease vaccines approved by the FDA from 2017 to 2020
- Many high incident infections with <u>no</u> vaccine or therapy approved
- Efficacy of multiple approved vaccines is suboptimal

BioNTech infectious diseases portfolio

COMIRNATY

Next generation COVID-19 vaccines

Influenza, HIV and TB vaccines

6 undisclosed programs



mrna technology poised to revolutionize immunotherapy



mRNA technology to
Displace traditional modalities

mRNA vaccines for additional infectious diseases

mRNA cancer vaccines

CAR-T cell amplifying mRNA vaccine

Systemic mRNA encoded immuno-therapies

"Beyond the Horizon"

Autoimmune diseases

Rare diseases

Other therapeutic areas

Novel targets Innovative modalities New disease areas



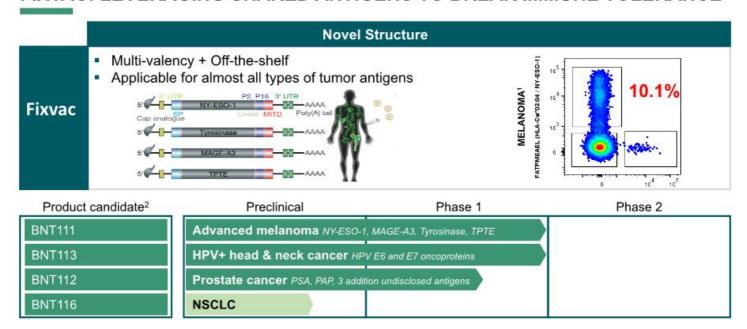
RATIONALLY DESIGNED MULTI-PLATFORM IO STRATEGY

Next Generation mRNA Cancer Vaccines **Immunomodulators** FixVac and iNeST Next-generation checkpoint inhibitors Multi-specificity, multi-valency, high Immunomodulis 5 to address a broad range of cancers (neo)antigen specific T cell responses with Ongoing Phase 1/2 trials of 2 bi-specific Programme Cancer unprecedented potency antibodies Ongoing Phase 2 randomized trials (iNeST) Next-gen CAR-T and TCR therapies targeting Solid Tumours mRNA encoded cytokines with a prolonged T1/2 and improved · Paired with mRNA vaccination to enhance PK and persistence TLR7 agonist potently safety profile modulates innate immunity Novel targets from BioNTech's library CA19-9 antibody in 1L Amplify vaccines and CPIs **Pancreatic Cancer** Potential for combination with Phase I FIH trials to start in 2021 Phase 1 FIH trials to start in 2021 other IO agents Ongoing Phase 1/2 trial Ongoing Phase 1 trial in SCLC **Engineered Cell Therapies Small Molecule** Cytokines **Antibodies Immunomodulators**

Multiple blockbuster opportunities with synergistic combinations



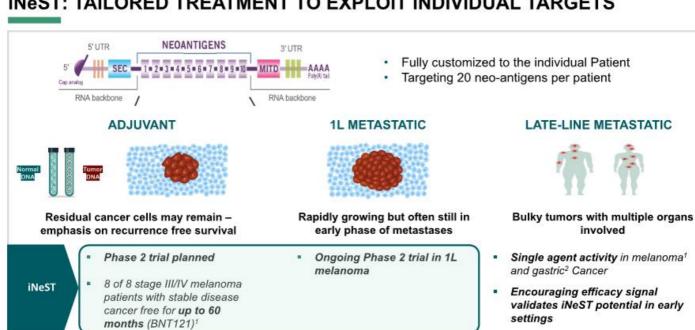
FIXVAC: LEVERAGING SHARED ANTIGENS TO BREAK IMMUNE TOLERANCE



14 ¹ Sahin et al, Nature 2020 ² Additional exploratory indications: TNBC, Ovarian Cancer



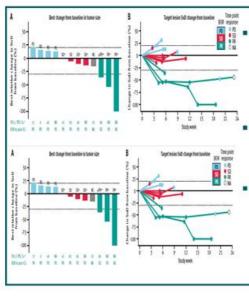
INEST: TAILORED TREATMENT TO EXPLOIT INDIVIDUAL TARGETS



15 *Sahin et. al. Nature 2017 *AACR 2020



BNT311 DEMONSTRATED SINGLE AGENT ANTI-TUMOR ACTIVITY



Presented at SITC 2020, interim Phase I results showed anti-tumoral activity in a broad range of CPI refractory solid tumors

- Disease control achieved in 65.6% patients in dose escalation phase
- **Encouraging single agent** efficacy observed (two cPRs, one uPR) 1 in 24 CPI refractory **NSCLC** patients

7 expansion cohorts are currently recruiting

N = Up to 40 per cohort

EC1: NSCLC ≤ 2-4L p. ICI

EC2: NSCLC ≤ 2-4L ICI n.

EC3: Urothelial Ca ≤ 2-4L p. ICI

EC4: Endometrial Ca ≤ 2-4L ICI n.

EC5: TNBC ≤ 2-4L CPI n./ p. ICI

EC6: SCCHN ≤ 2-4L CPI n./ p. ICI

EC7: Cervical Ca ≤ 2-4L ICI n.

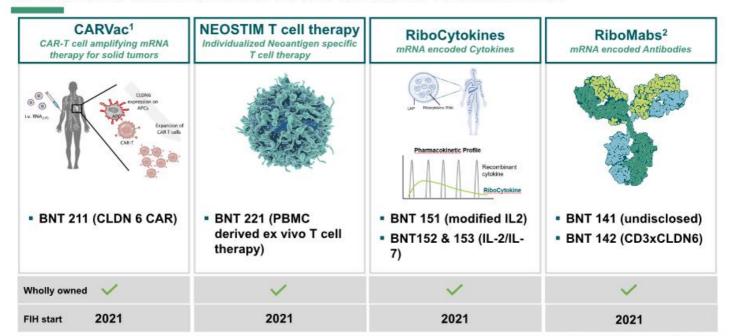
p. ICI = post immune checkpoint inhibitior CPI n. = check point inhibitor naive

1 Data cut-off: October 12, 2020.

16



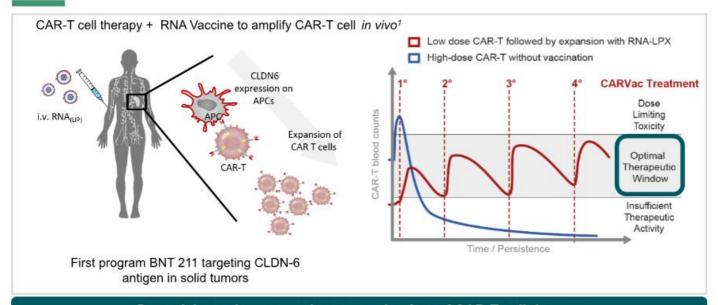
ADVANCING INNOVATION BEYOND CURRENT BOUNDARIES



¹Reinhard et al, Science 2020 ²Stadler et al Oncoimmunology 2018



CARVAC: OPENING UP CAR-T THERAPY FOR SOLID TUMORS



Potential to enhance persistence and safety of CAR-T cell therapy

BIONTECH

mrna vaccines for auto immune diseases

Novel non-inflammatory mRNA for treatment of Multiple Sclerosis published in Science¹

- A therapeutic approach to emulate natural immune tolerance
- Induced considerable reduction in pro-inflammatory effector T cell infiltration in CNS
- Led to strong autoimmunity suppression without broad immune suppression
- Correlated with CNS function restoration and disease regression in preclinical models

Potential applicability of mRNA vaccine in a plethora of autoimmune diseases

RESEARCH ARTICLE MULTIPLE SCLEROSIS A noninflammatory mRNA vaccine for treatment of experimental autoimmune encephalomyelitis MOG₃₅₋₅₅_m1Ψ irrelevant_m1Ψ

Luxol fast blue (LFB) staining reveals reduction of demyelination in the spinal cord of mice¹

19 1Krienke et al. Science,2021



KEY PIPELINE MILESTONES EXPECTED IN 2021

5+ data updates across pipeline

- COMIRNATY updates
- Next-gen immunomodulator: BNT311 (GEN1046) BNT312 (GEN1042)
- CLDN6 CARVac: BNT211
- Small molecule: BNT411

Up to 3 programs moving into randomized phase 2 trials

- FixVac melanoma: BNT111
- FixVac HPRV16+ head and neck cancer: BNT113
- iNeST: BNT122 (RO7198457)

6 pre-clinical programs to move into phase 1 across novel platforms

- RiboMabs: BNT141, BNT142
- RiboCyokines: BNT151, BNT152+BNT153
- CLDN6 CARVac: BNT211
- NEOSTIM neoantigen-based
 T cell therapy: BNT221



BETTER PLACED THAN EVER TO BRING INNOVATION TO PATIENTS

2021 Corporate Outlook

- Deliver COMIRNATY to up to 1 billion people globally
- Advance up to 3 oncology programs into randomized Phase 2 trials
- Initiate first trials in oncology with registrational potential
- Extend mRNA technology into new disease areas
- Expand global capabilities and footprint in the U.S., Europe, and Asia
- Continue to hire the best and brightest

Longterm

- Usher in a new era of individualized cancer medicine
- Build a global business and commercialize our own products
- Become a 21st century immunotherapy powerhouse



