

Advancing Vaccines for Better Lives

Company Presentation
November 2020



 valneva



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Valneva's Value Proposition

Integrated business model with valuable R&D and commercial assets

R&D provides upside for shareholders

Lyme vaccine in Phase 2

US/EU market opportunity of ~\$1bn per annum

- Only program known to be in clinical development
- Strategic collaboration with Pfizer¹

Chikungunya Phase 3 initiated Sept. 2020

Global market opportunity of ~\$0.5bn per annum

- Synergy with existing infrastructure
- Possible Priority Review Voucher upside

COVID-19 vaccine candidate

Phase 1 to be initiated before the end of 2020

- Only inactivated vaccine candidate currently in development in the US & EU
- UK Government agreement worth up to €1.4 billion

Commercial Business

**Total sales revenues of €129.5m in 2019;
Guidance for 2020 ~ €70m**

- Pandemic impact on travel industry
- Commercial infrastructure - important strategic asset capable of launching future brands
- Marketing & Distribution partnership with Bavarian Nordic announced June 2020²

IXIARO®

- Only licensed Japanese encephalitis vaccine for travelers in US, CAN and EU; mandatory for US military
- New US DoD supply contract worth up to \$166 million³

DUKORAL®

- Cholera (LT-ETEC⁴) vaccine, licensed in CAN, EU, ROW

¹ Valneva PR: Valneva and Pfizer Announce Collaboration to Co-Develop and Commercialize Lyme Disease Vaccine, VLA15; ² : Valneva and Bavarian Nordic Announce Marketing and Distribution Partnership; ³ Valneva Announces New IXIARO® Supply Contract with the US Government worth up to \$166 million; ⁴ Indications differ by country - Please refer to Product / Prescribing Information (PI) / Medication Guide approved in your respective countries for complete information, incl. dosing, safety and age groups in which this vaccine is licensed, ETEC = Enterotoxigenic Escherichia coli (E. Coli) bacterium

Valneva's R&D Pipeline

Active Programs



Product Candidate	Pre-clinical	Phase 1	Phase 2	Phase 3	Partner	PRV* Eligible
VLA1553 Chikungunya					proprietary	✓
VLA15 Lyme disease					Pfizer	
VLA2001 COVID-19					proprietary	

*PRV = U.S. Priority Review Voucher: <https://priorityreviewvoucher.org/>

Lyme Disease Vaccine – VLA15



Lyme Disease is a Massively Important Health Issue



No available treatment to protect against Lyme disease

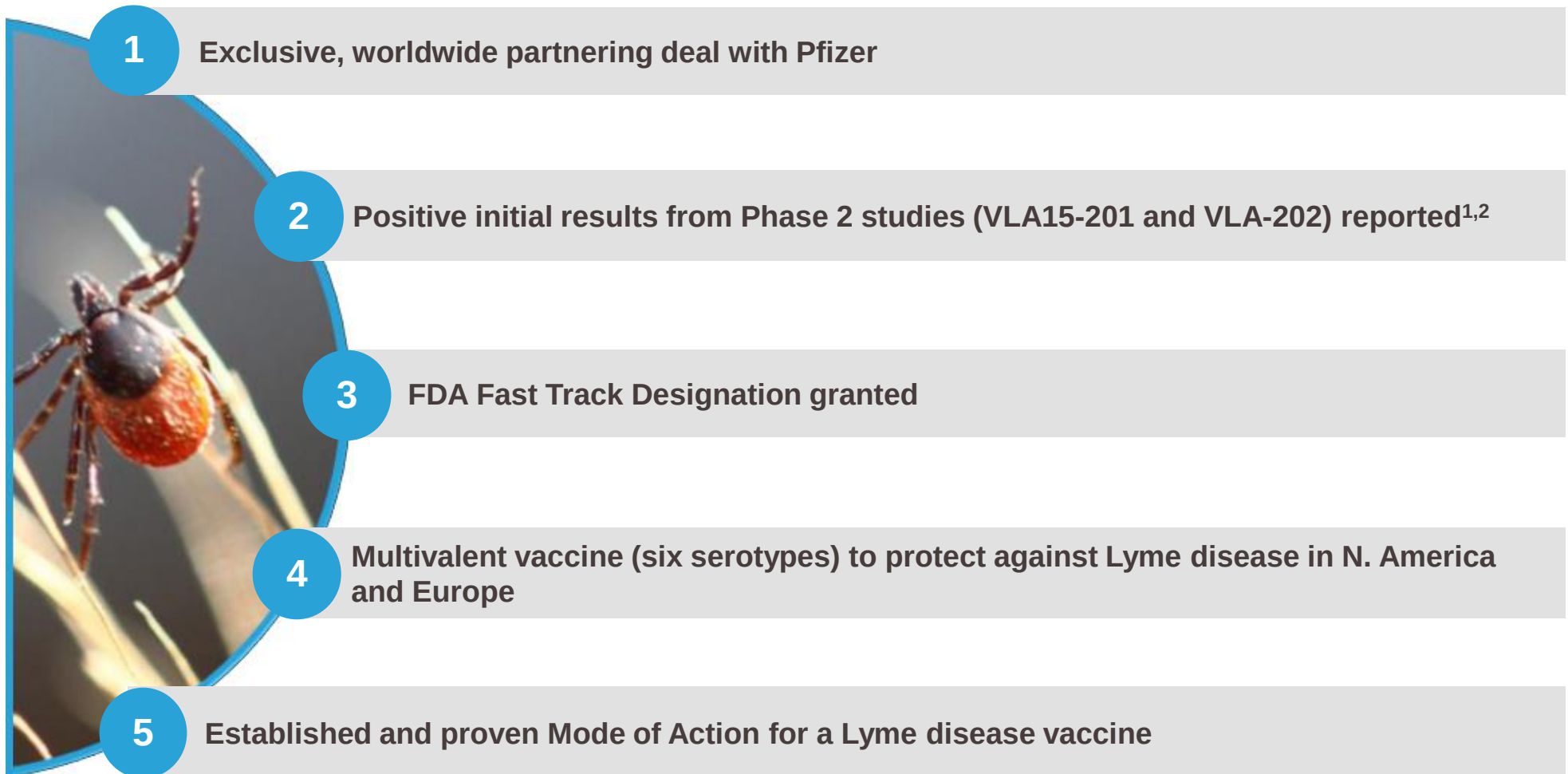
Major unmet medical need in North America and Europe

Lyme disease cases may rise 92% in the US due to climate change (New Scientist)¹



¹ <https://www.newscientist.com/article/2232705-lyme-disease-cases-may-rise-92-per-cent-in-us-due-to-climate-change/>

VLA15: Only Lyme disease vaccine in clinical development today



¹ [Valneva Announces Positive Initial Results for Phase 2 Study of Lyme Disease Vaccine Candidate](#); ² [Valneva Announces Positive Initial Results for Second Phase 2 Study of Lyme Disease Vaccine Candidate VLA15](#)

VLA15: Exclusive, Worldwide Partnering Deal with Pfizer and Positive Initial Phase 2 Results



Partnered with Pfizer for late stage development and future commercialization¹

- Valneva and Pfizer will work closely together throughout development
- Pfizer will fund 70% of all development costs through program completion
- Valneva is eligible to receive a total of \$308 million upfront and milestone payments (\$130 million already received²)
- Pfizer will pay Valneva tiered royalties starting at 19%



Positive initial results from two Phase 2 studies (VLA15-201 and VLA-202) reported^{3,4}

- Phase 2 studies VLA15-201 and VLA15-202 top line data positive
 - Compared to Phase 1, the higher doses used in this trial elicited higher antibody responses across all serotypes
- Encouraging immunogenicity profile confirmed, including older adults (50-65 years)
- VLA15 generally safe across all dose and age groups tested
- VLA15-202 Day 208 safety and immunogenicity data support advancing the program with the Month 0-2-6 schedule and 180 µg dose

Valneva and Pfizer working on next development steps.

¹ Valneva and Pfizer Announce Collaboration to Co-Develop and Commercialize Lyme Disease Vaccine, VLA15, ² Valneva Reports H1 Results Marked by Major Corporate Achievements and Strong Cash Position; ³ Valneva Announces Positive Initial Results for Phase 2 Study of Lyme Disease Vaccine Candidate; ⁴ Valneva Announces Positive Initial Results for Second Phase 2 Study of Lyme Disease Vaccine Candidate VLA15

SARS-CoV-2 (COVID-19) Vaccine – VLA2001



Responding to the COVID-19 Crisis



There is currently no approved vaccine and no specific treatment available for the novel coronavirus, SARS-CoV-2

Physical distancing has been effective¹, but nationwide lockdowns are not a long-term solution

Numbers of confirmed COVID-19 cases and deaths continue to increase worldwide²



¹ Flaxman, S., Mishra, S., Gandy, A. *et al.* Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe. *Nature* (2020). <https://doi.org/10.1038/s41586-020-2405-7>;
² [John's Hopkins University COVID-19 Dashboard](#)

VLA2001: Only inactivated COVID-19 vaccine candidate in US & EU



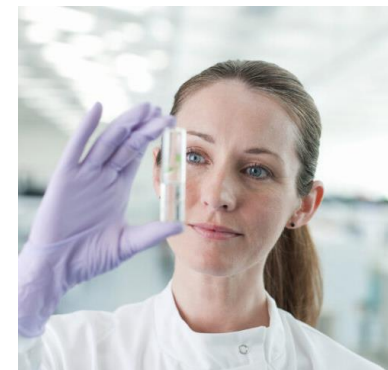
¹ Valneva Announces Major COVID-19 Vaccine Partnership with U.K. Government; ² Valneva and Dynavax Announce Commercial Supply Agreement for Inactivated, Adjuvanted COVID-19 Vaccine; **Photo credit:** CDC/Alissa Eckert, MSMI; Dan Higgins, MAMS



VLA2001: Agreement to Provide up to 190 Million Doses of Inactivated, Adjuvanted Vaccine to the UK

UK Government Agreement Worth up to €1.4 Billion

- Valneva to supply up to 190 million doses in a deal worth up to €1.4 billion¹
- Including 60 million doses worth approximately €470 million for 2021
 - › Options to purchase up to 130 million doses worth up to €900 million between 2022 and 2025



Agreement includes funding for expansion of Valneva's UK-based manufacturing facility and Phase 1/2 clinical trials in the UK

- Vaccine to be manufactured at Valneva's facilities in Livingston, Scotland²
- Valneva plans further investments in both its Scottish and Swedish facilities

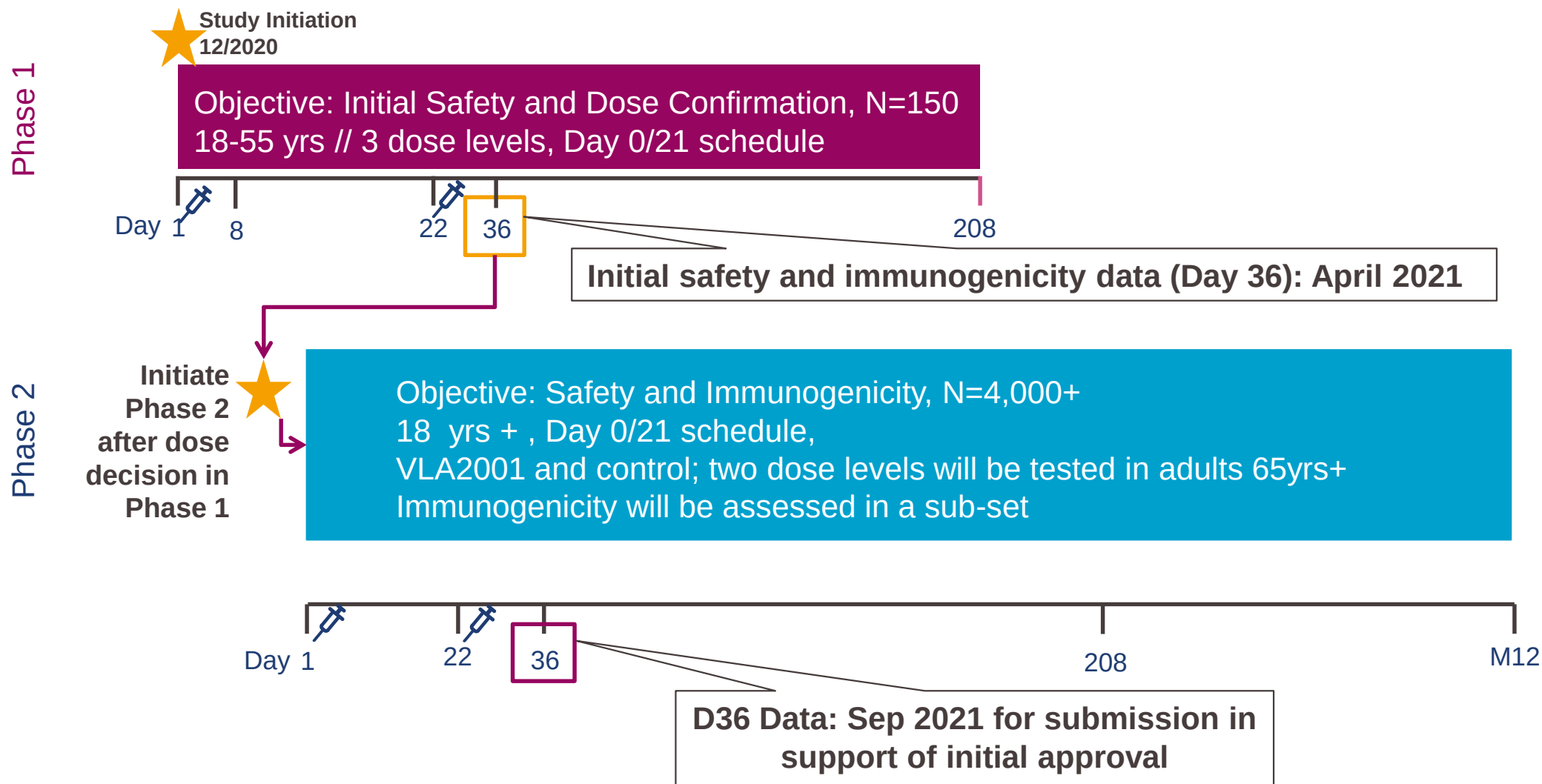
Pre-clinical and industrialization activities on track

¹ [Valneva Announces Major COVID-19 Vaccine Partnership with U.K. Government](#) ; ² [Valneva Confirms Participation in UK Government COVID-19 Vaccine Response Program](#)



VLA2001: Inactivated SARS-CoV-2 Vaccine

Clinical entry December 2020, initial data April 2021



Chikungunya Vaccine – VLA1553





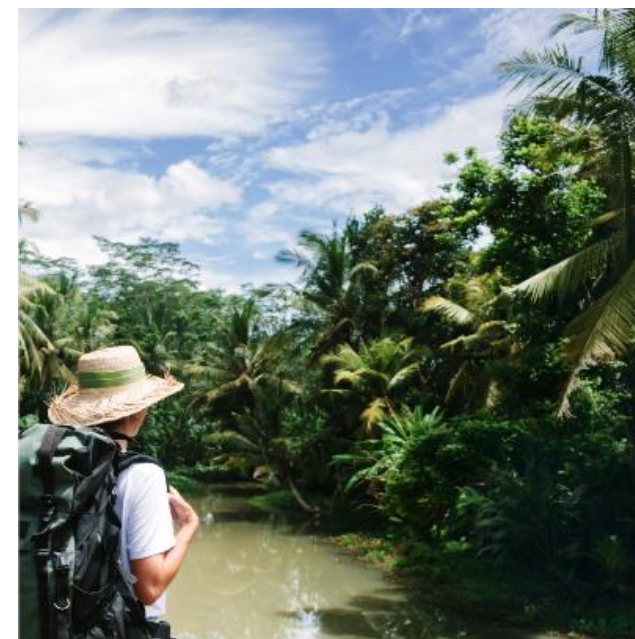
Chikungunya is a Growing and Enduring Problem

Representing a major public health threat

Currently there are **no vaccines or effective treatments** for chikungunya

Global market, including endemic regions (see below), **estimated to exceed \$500 million annually by 2032¹**

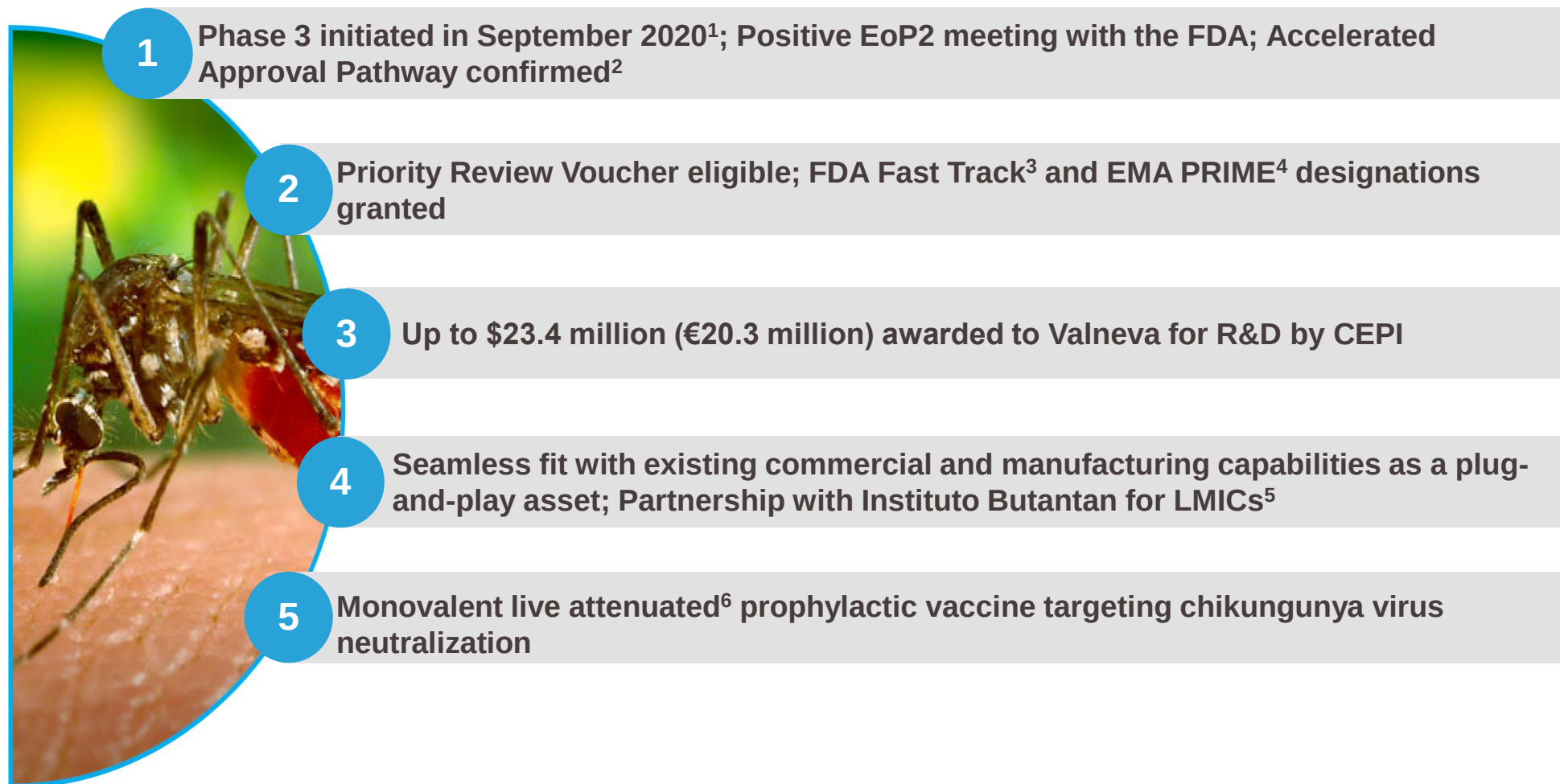
2019 - 2020: outbreaks² in Africa (Chad, Djibouti, Ethiopia, Kenya, Sudan), **Asia** (Cambodia, Philippines, Thailand), **and South America** (Brazil, Colombia)



¹ VacZine Analytics Chikungunya virus vaccines Global demand analysis. February 2020, ² Chad, Djibouti, Ethiopia, Kenya, Sudan; Cambodia, Philippines, Thailand; Brazil, Colombia



VLA1553: Most advanced single-shot chikungunya vaccine candidate



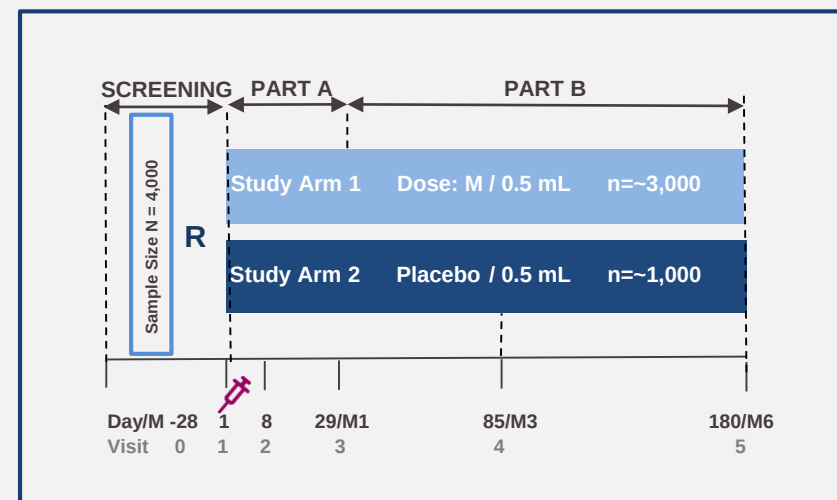
¹ Valneva Initiates Phase 3 Clinical Study for its Chikungunya Vaccine Candidate VLA1553 ; ² Valneva Reports Positive End-of-Phase 2 Chikungunya Meeting with the U.S. FDA; Sets Stage for Phase 3 Study; ³ Valneva Awarded FDA Fast Track Designation for Chikungunya Vaccine Candidate; ⁴ Valneva's Chikungunya Vaccine Candidate Awarded EMA Prime Designation; ⁵ Valneva to Partner with Instituto Butantan on Single-Shot Chikungunya Vaccine for Low- and Middle-Income Countries; ⁶ CHIKV LR2006-OPY1 infectious clone was attenuated by deleting large part of gene coding nsP3 (alphavirus-replicase; **Photo credit:** [James Gathany](#)

VLA1553-301: Pivotal Phase 3 Study

Double-Blinded, Controlled, Randomized Study

- 1 **Objectives:** pivotal safety and immunogenicity; Seroprotection rate at D29 based on an immunological surrogate (defined in NHPs for baseline negative subjects). ¹
- 2 **Population:** Healthy subjects aged 18 years and above, randomized 3:1 to VLA1553 or control
- 3 **Sample Size:** approx. N=4,060; Safety: VLA 1553 (n=3,000) vs. control (n=1,000); IMM subset (n=500)
- 4 **Trial Sites:** Multicenter study in non-endemic regions of the U.S.
- 5 **Prim. Endpoint:** Seroprotection rate at D29
- 6 **Schedule:** Single-shot i.m. immunization at Day 1
- 7 **Expected Duration:** 9 - 12 months**)

1 Seroprotection threshold subject to final approval by regulators
 2 Duration may be impacted by different parameters, including adverse clinical operations implications due to ongoing COVID-19 pandemic



Commercial Products



Valneva has a niche commercial travel vaccine business and is a vaccine provider to the US Military



- Direct sales channels in US, Canada, UK, France, Nordics, Austria
- Distributors in Germany, Australia, Southern Europe
- Business sector reshaped given COVID-19 pandemic impact on travel industry
- Key asset for the future, including chikungunya route to market

IXIARO®/JESPECT®

Only vaccine against Japanese encephalitis (JE) in US, Canada and Europe

IXIARO®/JESPECT®

- Designed to protect travelers and military against JE, the leading cause of viral neurological disease and disability in Asia
- Indicated for active immunization against JE in **adults, adolescents, children and infants** aged two months and older¹

Commercial position

- Currently, **no effective treatment for the disease**
- **The only approved vaccine available for US, EU and Canadian travelers**
- Supply agreement in place with US military and strong history of repeat contracts
- Limited competition - local producers exist in endemic regions and mainly serve public markets

New US DoD supply contract worth up to \$166 million²

- Spans a total of **three years**:
 - **Base year value of \$61 million**
 - **DoD option to purchase a total of \$76 million – \$105 million worth of IXIARO® across two option years**
- Base year deliveries to commence Q4 2020



¹ Indications differ by country - Please refer to Product / Prescribing Information (PI) / Medication Guide approved in your respective countries for complete information, incl. dosing, safety and age groups in which this vaccine is licensed. The currently available presentation for IXIARO® can be used in children from 3 years of age. Prior to availability of the new presentation, no attempt should be made to adjust the syringe volume or to administer a 0.25mL/3µg dose in children less than 3 years of age; ² Valneva Announces New IXIARO® Supply Contract with the US Government worth up to \$166 million

Only cholera (ETEC¹) vaccine approved in EU, Canada and Australia

DUKORAL®

- For the prevention of diarrhea caused by *Vibrio cholera* and/or heat-labile toxin producing enterotoxigenic *Escherichia coli* (ETEC)¹
- Designed to protect adults and children traveling to endemic areas

Commercial position

- In several markets, incl. EU, indicated for cholera only
- Only approved cholera vaccine available for Canadian, European and Australian travelers
 - ~3-5 million cholera cases, 100,000-120,000 deaths/year²
 - ~5-18 million reported ETEC cases/year³ (ETEC is the most frequent form of traveler's diarrhea)
 - WHO pre-qualification widely used in other countries
 - Asian manufacturers predominantly serve local markets



¹ Indications differ by country - Please refer to Product / Prescribing Information (PI) / Medication Guide approved in your respective countries for complete information, incl. dosing, safety and age groups in which this vaccine is licensed, ETEC = Enterotoxigenic *Escherichia coli* (E. Coli) bacterium; ² <https://www.who.int/bulletin/volumes/90/3/11-093427/en/>;

³ Lundkvist J, Steffen R, Jonsson B. Cost-benefit of WC/rBS oral cholera vaccine for vaccination against ETEC-caused travelers' diarrhea. J Travel Med 2009; 16(1):28-34

Corporate Highlights and Newsflow



Company well positioned for next stage of growth



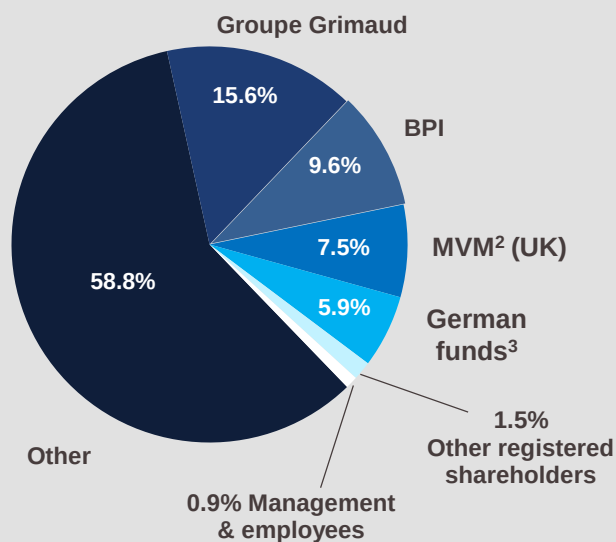
- Strong balance sheet (year end cash expected to be €180m - €200m)
 - UK COVID-19 deal does not rely on Valneva capital
- US IPO intention announced, EGM planned December 2020
- Sales revenue €130m in 2019, expected to be c€70m in 2020, is expected to recover and grow post-COVID alongside travel industry



VLA has strengthened its institutional shareholder base with blue-chip healthcare investors including US-based investors

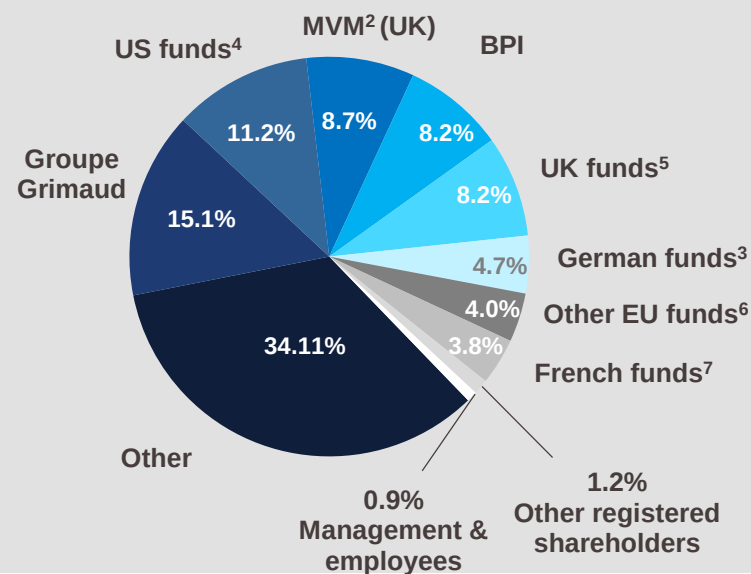
January 2018

- Number of ordinary shares: 77.6m
- Shareholder structure¹:



October 2020

- Number of ordinary shares: 90.9m
- Shareholder structure¹:



¹ Estimates based on ordinary share capital; ² Funds managed by MVM Life Science Partners; ³ Combined positions of Apus Capital, Apo AM, Lupus alpha, and others; ⁴ Combined positions of U.S.-based funds managed by Deerfield Partners, Armistice Capital, Acadian AM, General American, and others; ⁵ Combined positions of Polar Capital LLP, Highclere, AXA Investment Managers Ltd. and Abingworth LLP; ⁶ Combined positions of multiple funds based in Liechtenstein, the Netherlands, Austria, and Luxembourg; ⁷ Combined positions of CDC Entreprises Valeurs Moyennes, AXA Paris and others.



Lyme disease vaccine candidate VLA15

- Valneva and Pfizer will prepare for next development steps in the coming months

Chikungunya vaccine candidate VLA1553

- Phase 3 recruitment completion expected in Q4 2020

Initiation of Phase 1 COVID-19 vaccine clinical trial expected at the end of 2020

- Top line data early Q2 2021

Thank you
Merci
Danke
Tack

