



Advancing Vaccines for Better Lives

Company Presentation
January 2021



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We are a **specialty biotech company** developing & commercializing **novel prophylactic vaccines** with high unmet need



- **A highly specialized, targeted approach** to vaccine development
- **An advanced pipeline of clinical-stage assets** designed to address large target populations
- **Product development and regulatory expertise** with a demonstrated ability to move new vaccines through the clinic to commercialization
- **A nimble and sophisticated manufacturing infrastructure** designed to support growth through rapid, efficient vaccine development and commercialization
- **Validating collaborations across the portfolio**
- **Two commercial vaccines, specialist sales infrastructure and distribution rights for third-party vaccines**
- **A highly experienced leadership team with a track record of success in the vaccine space**

Research & Development



We target diseases that lack preventative or effective therapeutic solutions

Disease-first approach

- **We identify diseases that lack preventative or therapeutic solutions and apply our understanding and experience**, rather than looking at opportunities where effective modes of action already exist
- This allows us to develop **differentiated vaccine candidates by applying the most suitable technology**

We consider industrial and commercial synergy

We consider potential future partnering value

Valneva Has Three Highly Differentiated Clinical Programs



Asset Indication	Phase 1	Phase 2	Phase 3	Development Partner	PRV* Eligible
VLA15 Lyme disease				Pfizer	
VLA1553 Chikungunya				proprietary	✓
VLA2001 COVID-19				UK Govt	

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

Lyme Disease Vaccine – VLA15





Lyme Disease is a Major Health Issue

No available treatment to protect against Lyme disease

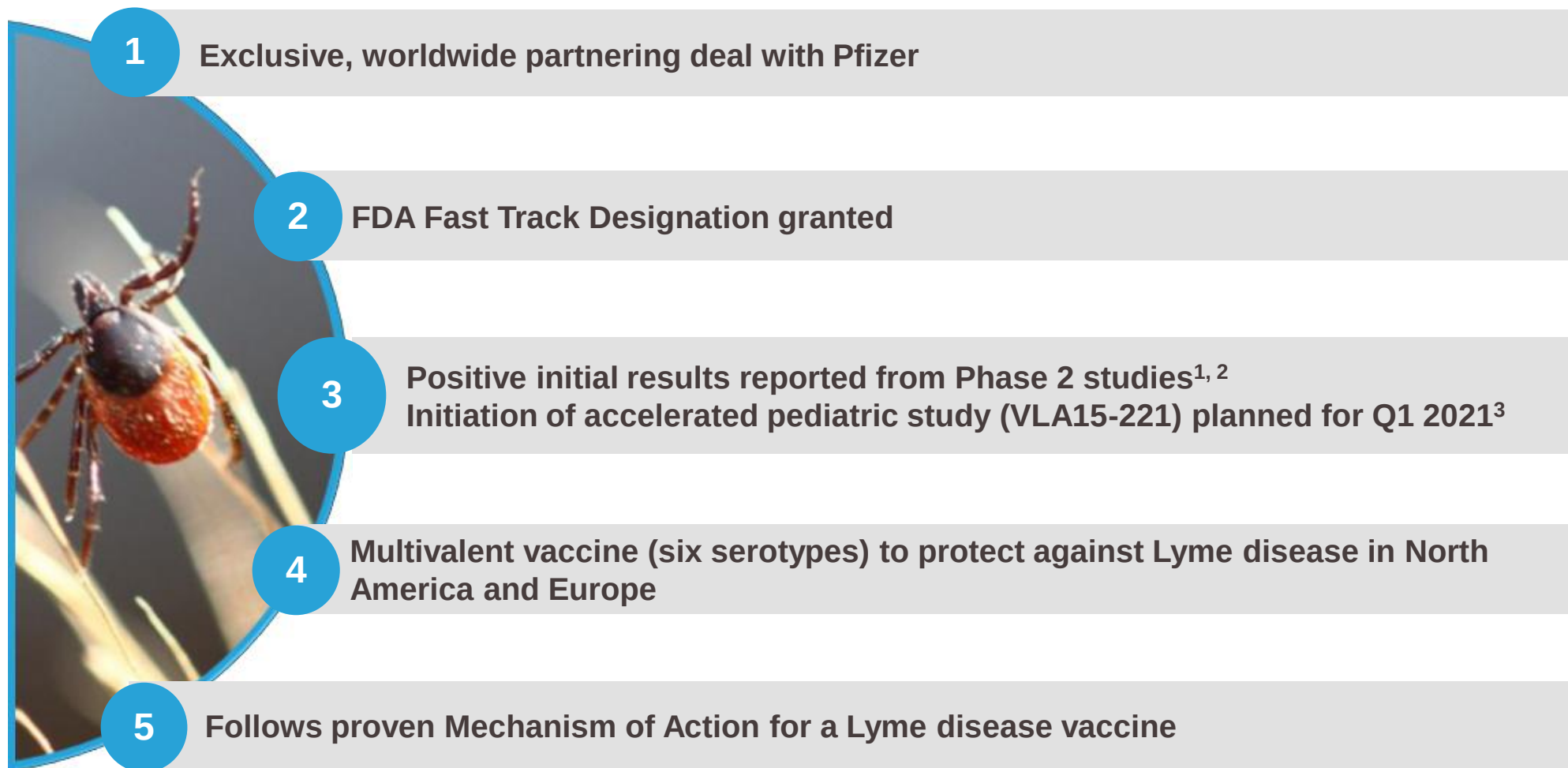
Major unmet medical need in North America and Europe

Lyme disease cases may rise 92% by 2100 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: The 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](#); ³ [Valneva Announces Acceleration of Pediatric Development for Lyme Disease Vaccine Candidate](#)

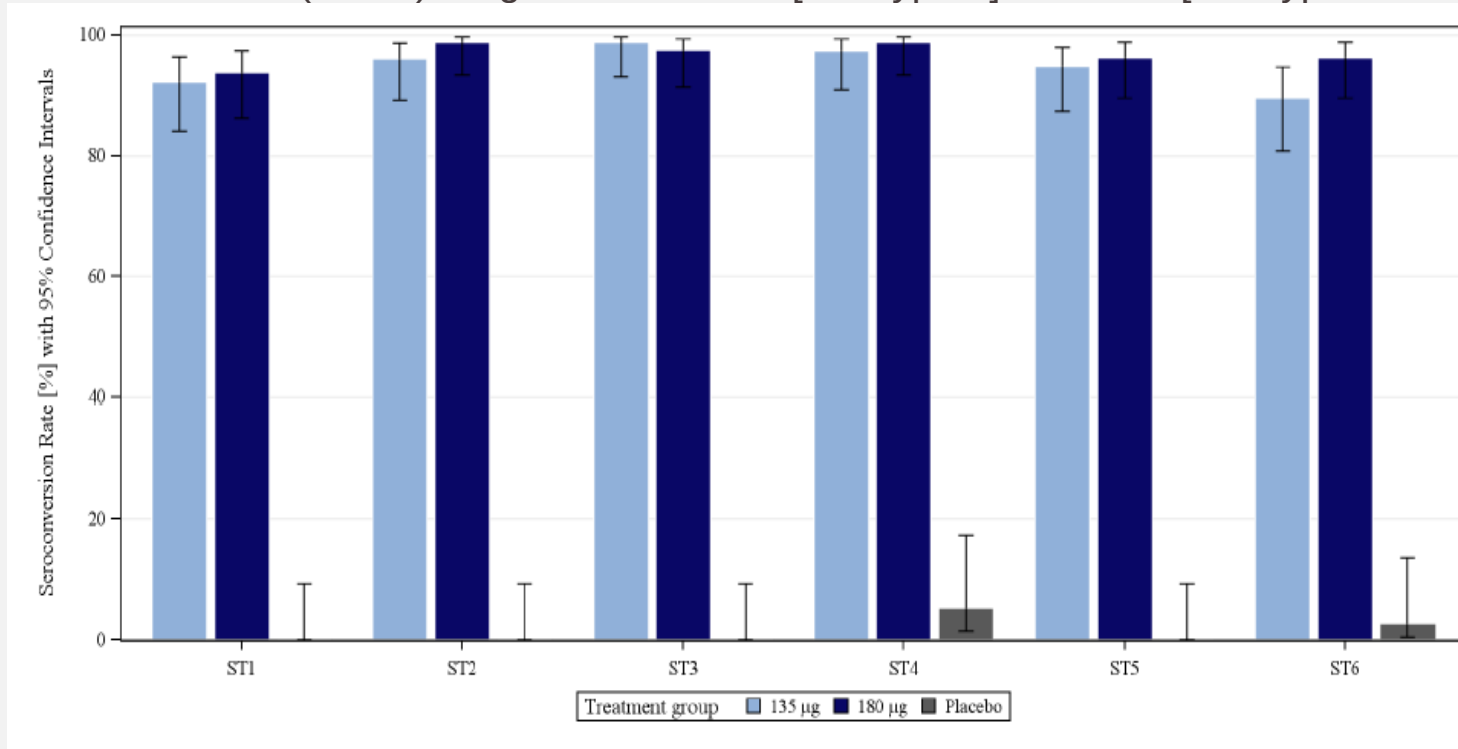
VLA15: In Phase 2 Clinical Studies, Positive Phase 1 and Interim Phase 2 Data Reported



VLA15 is a multivalent protein subunit vaccine targeting the outer surface protein A (OspA) of *Borrelia*

✓ **Immunogenicity further enhanced using a Month 0-2-6 schedule¹**

- Seroconversion Rates (SCRs) ranged from 93.8% [serotype 1] to 98.8% [serotypes 2 and 4]



✓ **A Serum Bactericidal Assay (SBA)², assessing the functional immune response against Lyme disease after VLA15 vaccination, demonstrated functionality of antibodies against all OspA serotypes**

¹ Valneva Announces Positive Initial Results for Second Phase 2 Study of Lyme Disease Vaccine Candidate VLA15; ² Assays, such as SBAs, are commonly used to enable a potential prediction of vaccine efficacy via the measurement of vaccine-induced functional immune responses.

VLA15: Exclusive, Worldwide Partnering Deal with Pfizer



Collaboration with Pfizer for late stage development and future commercialization¹

- Pfizer funding 70% of development costs through program completion
- Valneva eligible to receive a total of \$308 million upfront and milestone payments (\$130 million already received in May 2020²)
- Valneva to receive tiered royalties starting at 19%



Positive initial Phase 2 results reported^{3,4}

- Positive seroconversion data, dose and schedule agreed

Initiation of pediatric study VLA15-221 (aged 5-17 years), planned for Q1 2021⁵

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; ⁵ Valneva Announces Acceleration of Pediatric Development for Lyme Disease Vaccine Candidate

Chikungunya Vaccine – VLA1553



Chikungunya is a Growing Problem

A **mosquito-borne** viral disease that can cause **debilitating joint and muscle pain**, fever, headache, nausea and rash, **with potential serious, long-term health impairment**¹

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

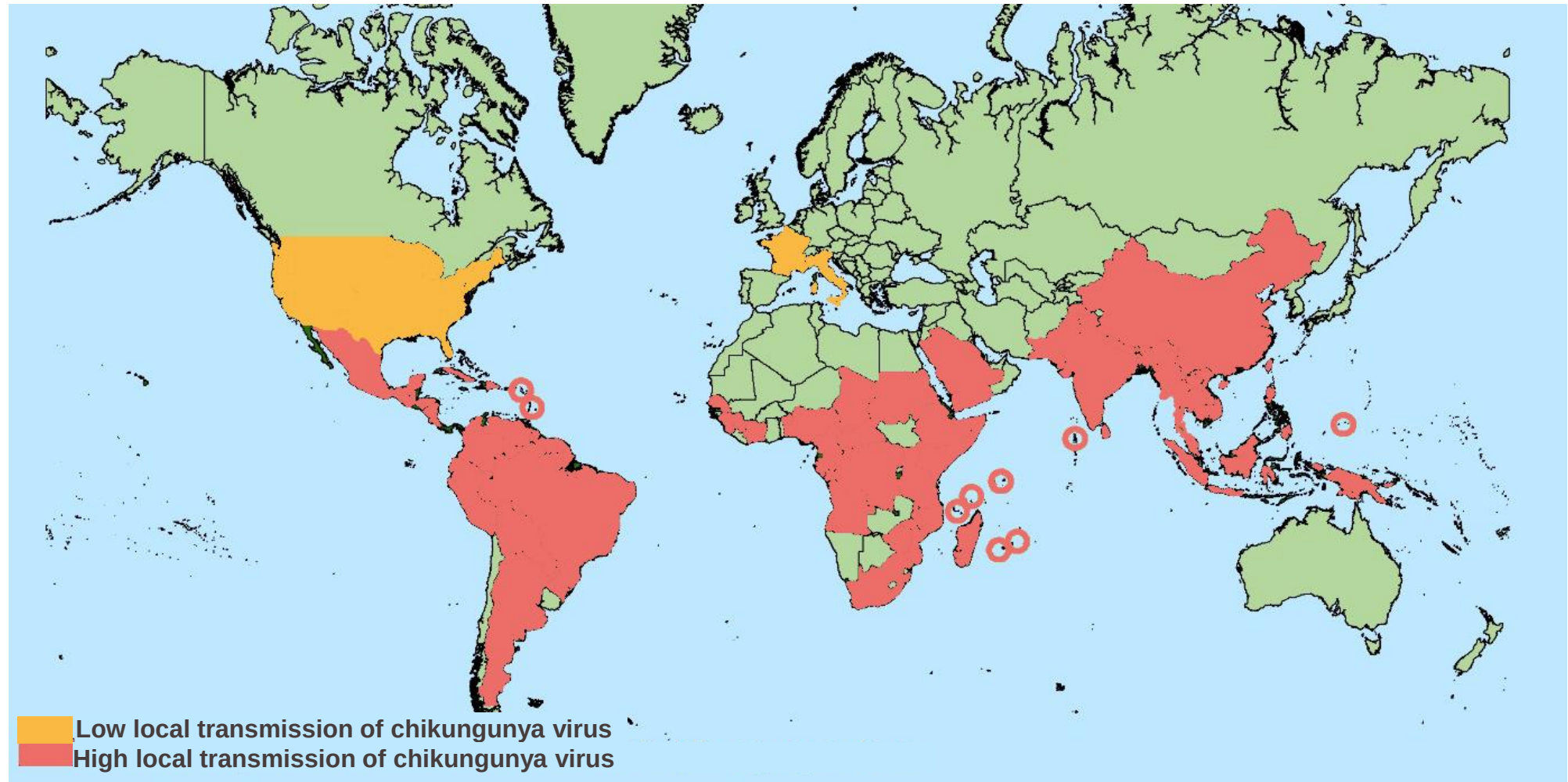
Global market, including endemic regions (see below), **estimated to exceed \$500 million annually by 2032**²

2020 outbreaks³: **The Americas** (incl. Brazil, the Caribbean, Colombia, Costa Rica, Mexico), **Asia** (India, Malaysia, Thailand) **and Africa** (Congo, Kenya, Sudan)



1 [Valneva Chikungunya Factsheet](#); 2 VacZine Analytics Chikungunya virus vaccines Global demand analysis. February 2020; 3 [ECDC chikungunya worldwide overview](#)

Chikungunya: Previously Reported in the US and EU, Widespread in the Southern Hemisphere



Countries and territories where chikungunya cases have been reported (as of Oct 30, 2020), Adapted from [cdc.gov](https://www.cdc.gov/chikungunya/pdfs/Chik_World_Map_10-30-20-P.pdf)
https://www.cdc.gov/chikungunya/pdfs/Chik_World_Map_10-30-20-P.pdf

VLA1553: Single-Shot Chikungunya Vaccine Candidate in Phase 3 Clinical Studies; Most Advanced in the World

A close-up photograph of a mosquito feeding on human skin. The mosquito's proboscis is inserted into the skin, and its abdomen is distended with a red, blood-like liquid. The background is a soft-focus green and yellow.

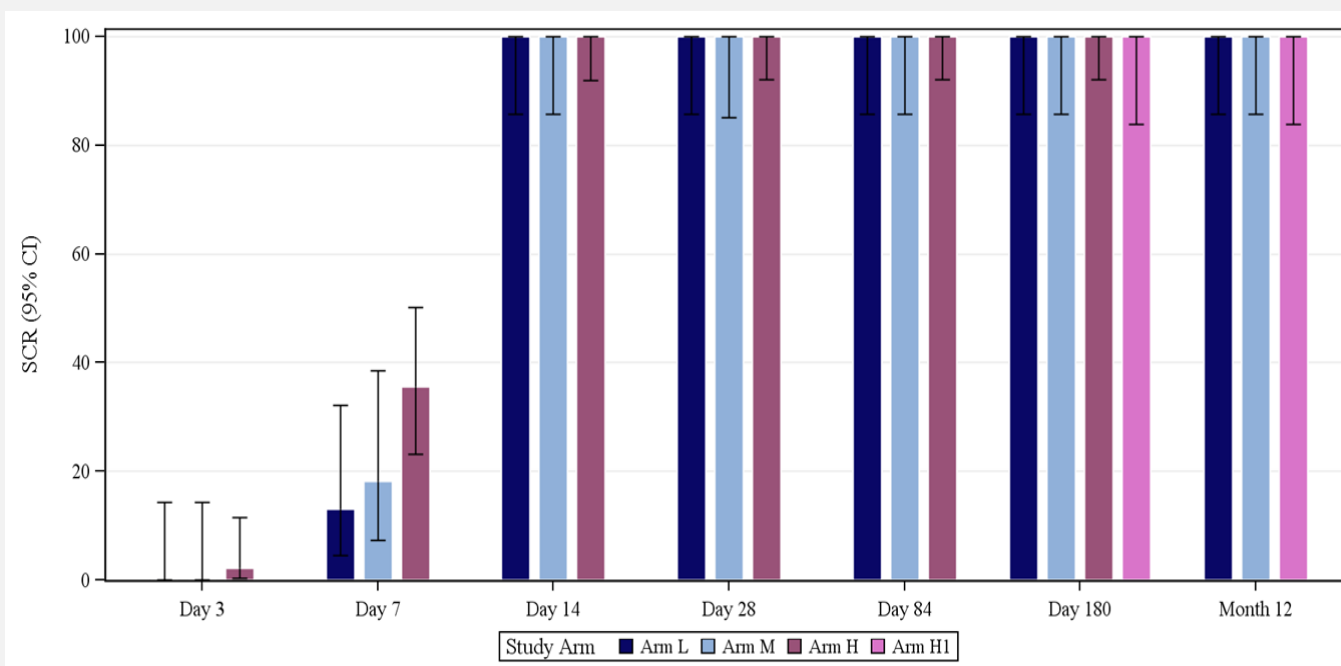
- 1** Phase 3 initiated in September 2020¹, recruitment on track; Positive EoP2 meeting with the FDA; Accelerated Approval Pathway confirmed²
- 2** Priority Review Voucher eligible; FDA Fast Track³ and EMA PRIME⁴ designation granted
- 3** Up to \$23.4 million awarded to Valneva for R&D by CEPI
- 4** Compatible with existing commercial and manufacturing capabilities; Partnership with Instituto Butantan for LMICs⁵
- 5** Monovalent live attenuated⁶ prophylactic vaccine targeting chikungunya virus neutralization

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: Positive Phase 1 Data Published in *The Lancet Infectious Diseases*¹

VLA1553 is a monovalent, live attenuated² Vero cell-derived vaccine targeting chikungunya virus neutralization

- ✓ **Neutralizing antibodies developed in 100% of volunteers, sustained for 1 year**
 - 100% SCRs achieved at day 14 after a single vaccination



- ✓ **VLA1553 well tolerated at the dose level selected for Phase 3²**
 - No vaccine-related Serious Adverse Events were reported during 12 months of follow-up

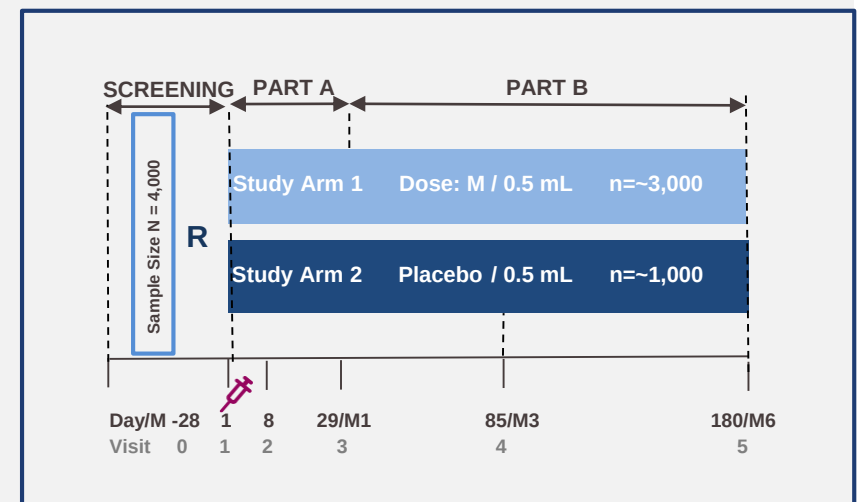
¹ Single-shot live-attenuated chikungunya vaccine in healthy adults: a phase 1, randomised controlled trial; ² CHIKV LR2006-OPY1 infectious clone was attenuated by deleting large part of gene coding nsP3 (alphavirus-replicase); ³ Valneva's Chikungunya Vaccine Candidate Awarded EMA Prime Designation

VLA1553-301: Pivotal Phase 3 Study Currently in Progress



- 1 **Objectives:** pivotal safety and immunogenicity; Seroprotection rate at Day 29 based on an immunological surrogate (defined in non-human primates 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 **Primary Endpoint:** Seroprotection rate at Day 29
- 6 **Schedule:** Single-shot i.m. immunization at Day 1
- 7 **Expected Duration:** 9 - 12 months²

Initial Phase 3 data expected in Q2 2021



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

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



Valneva's Response to the Global COVID-19 Crisis



Early in the pandemic, Valneva's Scientific Advisory Board designed a potential SARS-CoV-2 vaccine candidate leveraging our capabilities

Spring/summer 2020: R&D resources reallocated to COVID-19

Valneva is leveraging its strengths and manufacturing platform

- BSL3 labs recommissioned for pre-clinical activities;
- Using Valneva's FDA-approved manufacturing facility in Livingston, Scotland



VLA2001: First Inactivated COVID-19 Vaccine in EU Clinical Trials



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; ³ Valneva Initiates Phase 1/2 Clinical Study of Inactivated, Adjuvanted COVID-19 Vaccine Candidate; **Photo credit:** CDC/Alissa Eckert, MSMI; Dan Higgins, MAMS

VLA2001: Collaboration 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

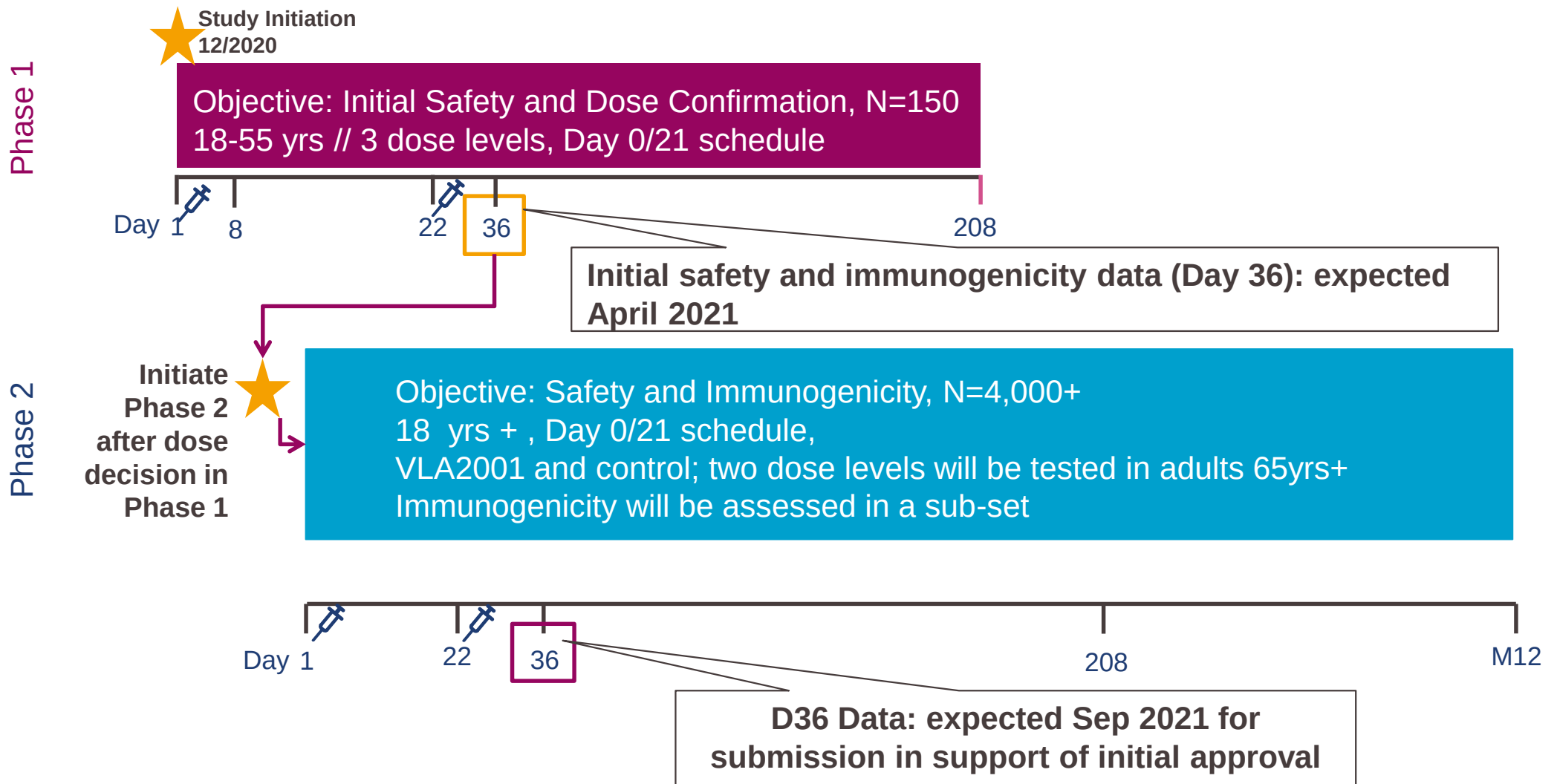


Agreement includes funding for expansion of Valneva's UK-based manufacturing facility and Phase 1/2 clinical trials in the UK

- Vaccine being manufactured at Valneva's facilities in Livingston, Scotland²
- Valneva also investing in its Scottish and Swedish facilities

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: Clinical Trials Underway, Targeting Approval in Q4 2021



Commercial Products





Valneva has a Specialist Travel Vaccine Business and is a Contractor to the US Military

- **Prior to the pandemic, Valneva demonstrated a strong track record of sales growth** built upon the solid foundation of its business relationship with the US DoD
 - €129.5m of product sales in 2019 (+25% AER, +22% CER)¹
- **Direct sales channels in the US, Canada, UK, France, Nordics, and Austria**
- Distributors in Germany, Australia, Southern Europe and smaller markets
- Valneva believes the commercial business is a key asset for the future, e.g. chikungunya route to market, once the travel industry recovers

¹ Valneva Reports Record Product Sales and Major Pipeline Progress in 2019

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**
- **Strong track record with US military**
- **Limited competition** - local producers exist in endemic regions and mainly serve public markets

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 commenced 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 Growth



- Well funded (2020 year end cash expected to be €180m - €200m)
 - UK COVID-19 collaboration is self-funding

- Executing on capital raising and growth strategies

- Driving key, late-stage programs to market
 - Including Lyme collaboration with Pfizer

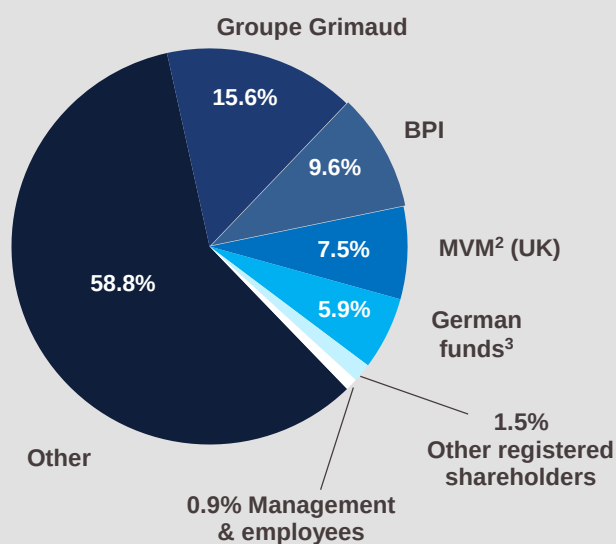
- COVID-19 represents major upside for the Company

Strengthened shareholder base including US blue-chip healthcare investors



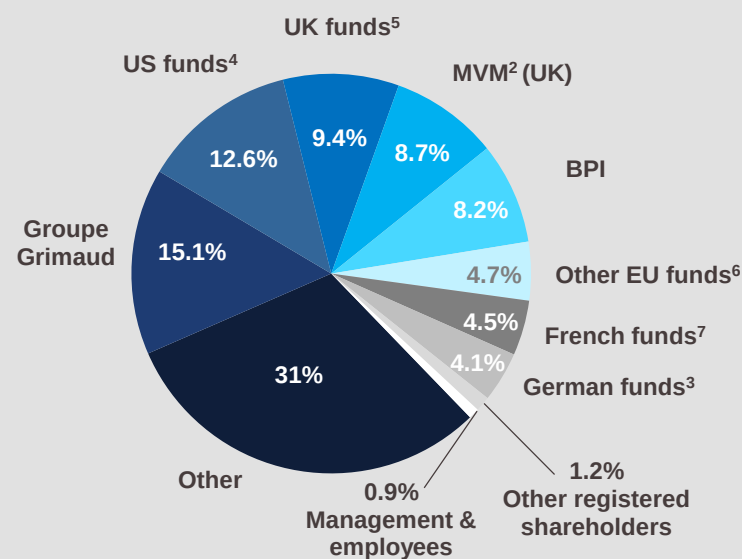
January 2018

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



December 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, General American, Acadian AM, 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, Eiffel Investment Group and OFI AM.



Lyme disease vaccine candidate VLA15

- Valneva and Pfizer announced acceleration of pediatric development with Phase 2 study VLA15-221, initiation planned for Q1 2021

Chikungunya vaccine candidate VLA1553

- Phase 3 recruitment completion expected early 2021, initial data Q2 2021

Phase 1/2 COVID-19 vaccine clinical trial initiated

- Initial data expected and Phase 2/3 planned to commence April 2021
- Deliveries planned in H2 2021

Thank you
Merci
Danke
Tack

