

Aktiespararna presentation, Stockholm
November 27, 2024

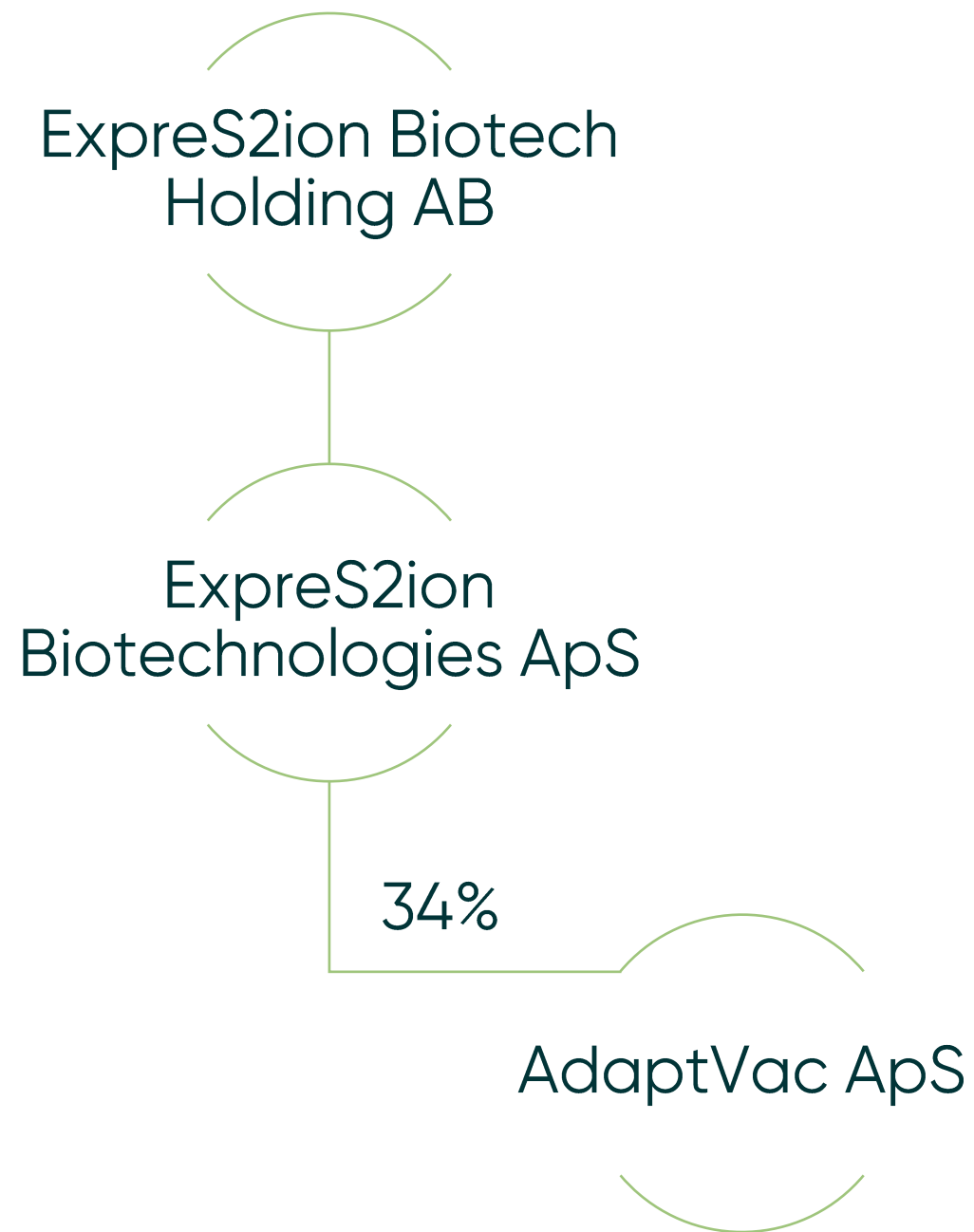
Revolutionizing breast cancer treatment: **ES2B-C001**

STO: EXPRS2

ExpreS2ion Biotech Holding AB
Org. Nr. 559033-3729

Aktiespararna

About ExpreS2ion



ExpreS2ion Biotech Holding AB

- Listed on the Nasdaq First North Growth Market since 2016
- Holding company for ExpreS2ion Biotechnologies ApS, which it owns 100%

ExpreS2ion Biotechnologies ApS

- Established in 2010
- **ExpreS2™ protein production platform, vaccine pipeline and CRO business**
- Owns 34% of AdaptVac ApS

AdaptVac ApS

- Co-founded in 2017 by ExpreS2ion and researchers from Copenhagen University
- **Virus-like particle (VLP) platform** – AdaptVac's VLP is a delivery vehicle in ExpreS2ion's breast cancer vaccine candidate, ES2B-C001 (HER2-VLP)

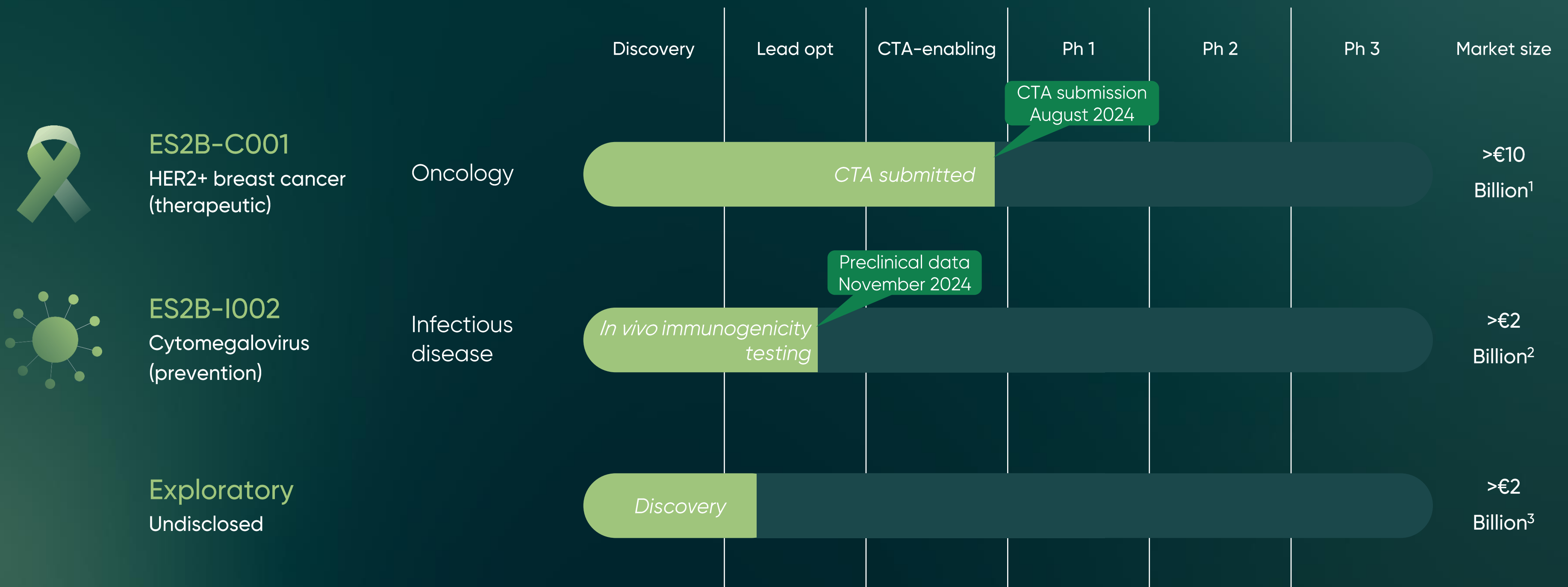
Expres2 platform proof-of-concept

Phase III validated + numerous additional pharmaceutical and biotech company protein projects

Discovery	Lead optimization	CTA-enabling	Phase I	Phase II	Phase III - Validated 
 Influenza MucoVax influenza	 ES2B-I002 cytomegalovirus	 ES2B-C001 HER2 breast cancer	   3 x Malaria Oxford University Malaria	 1 x Malaria Oxford University Malaria	 COVID-19 Bavarian Nordic COVID-19
 VICI Nipah	 Influenza INDIGO influenza		Q4 2024: Announced term sheet entered in between Serum Institute of India and Expres2ion regarding development and commercialisation of RH5.1 and R78C		
Undisclosed projects					

Vaccine core pipeline

Programs that are controlled or semi-controlled by ExpreS2ion



¹ Global Data, 2022, for HER2+ breast cancer
² Market estimate from Moderna, 41st Annual J.P. Morgan Healthcare Conference (Presentation)
³ Based on data for global market for existing therapies from Future Market Insights

Deep experience in breast cancer, vaccines and clinical development

Leadership Team				
	Bent Frandsen CEO	MSc, Copenhagen Business School	>27 years life science management, business development and finance experience - Successfully participated in development of >10 clinical-stage assets, closed over 25 license and partner deals worth >€1B, and raised in public markets >€40M	
	Dr. Farshad Guirakhoo CSO	PhD, Medical University of Vienna	>35 years broad translational research experience in vaccine development - Successfully developed vaccines for Dengue Fever, Japanese Encephalitis, and West Nile Disease (horse and human), from inception to commercial stages	
	Dr. Lars Damstrup Director of Clinical Development	MD, PhD, University of Copenhagen	40 years in oncology within academia (15 years), preclinical research (6 years) and industry (19 years) - Led >15 phase I/II trials, with several continuing to phase II & one oncology drug granted FDA conditional approval	
	Dr. Max Søgaard SVP of R&D and Technology	PhD, University College London	>24 years research experience, including leading R&D for cell line development, pipeline and client projects - Led candidate selection and/or manufacturing process of >20 oncology & infectious disease vaccine candidates	
	Thomas Jørgensen Program & CMC Project Lead	MSc, University of Southern Denmark	>30 years CMC and program management experience with leading biotech and pharmaceutical companies - Led CTA/BLA enabling activities for seven companies in the oncology, inflammation and infectious disease fields	
	Keith Alexander CFO	MBA, The Wharton School	>20 years in financial markets, primarily advising institutional investors, raising >€30 million & advising >€1T - Advised executive management on M&A, JVs, growth strategies and competitive intelligence	

Board of Directors



Dr. Martin Roland Jensen, PhD, Co-Founder and Chairman

- Co-Founder of ExpreS2ion Biotechnologies
- Co-founder, Chairman and CBO of Cell2Cure ApS
- Co-founder of Unikum Therapeutics



Dr. Karin Garre, MD, Board Member

- Chair of Bioneer and Board Member of Cervello
- Leadership and drug development experience with Novo Nordisk, Genmab, Symphogen and Astra



Sara Sande, MSc, Board Member

- Investment Partner at EIFO
- Board Member of Agreena, Monta and Biosyntia; Board Observer of Cellugy and Chromologics



Jakob Knudsen, LL.M., MBA, Board Member

- CEO of Virogates, Board Member of Ingeniørsystem and PV Fonden
- Commercial operations, business development, marketing and finance experience with ALK and Egalet

Oncology Scientific Advisory Board

Dr. Javier Cortes, MD, PhD
Doctor of Medical Oncology and Head of the International Breast Cancer Center, Barcelona

Dr. Michael Andersson, MD, DMSci
Clinical Oncologist, Specialist in HER2-positive breast cancer

Dr. Ulrik Lassen, MD, PhD
Professor of Clinical Oncology & Personal Medicine at the University of Copenhagen, Head of Oncology Department at the National Hospital (Rigshospitalet)

Dr. Giuseppe Curigliano, MD, PhD
Associate Professor of Medical Oncology at the University of Milan, Head of Early Drug Development Division at the European Institute of Oncology

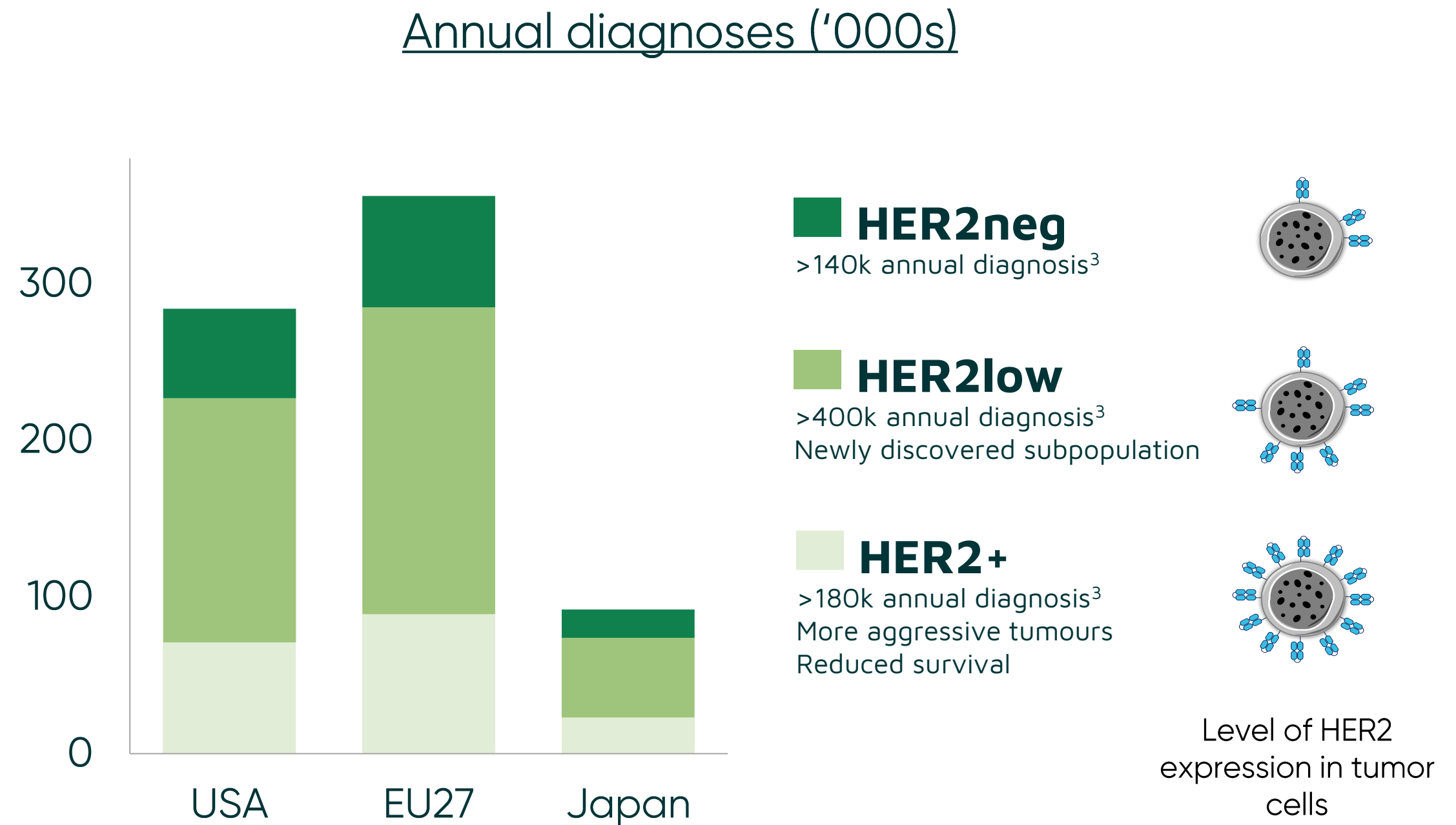
Dr. Rupert Bartsch, MD
Associate Professor of Medicine at the Medical University of Vienna, Director of Breast Cancer Programme in the Department of Oncology

Dr. Daniel Lenihan, MD, FACC, FESC, FIC-OS
Cardiologist at the St. Francis Healthcare System-Cape Girardeau in Missouri

*Not all icons for company experience shown on this slide.

The persistent challenge of HER2+ breast cancer

- 1 in 8 women are diagnosed with invasive breast cancer during a lifetime¹
- In 2022, about 2.3 million women were diagnosed with breast cancer worldwide and 670,000 died¹
- HER2 is overexpressed in up to 30% of breast cancer tumours²
- Overexpression of HER2 is associated with
 - More aggressive disease
 - Higher recurrence rate
 - Increased mortality²



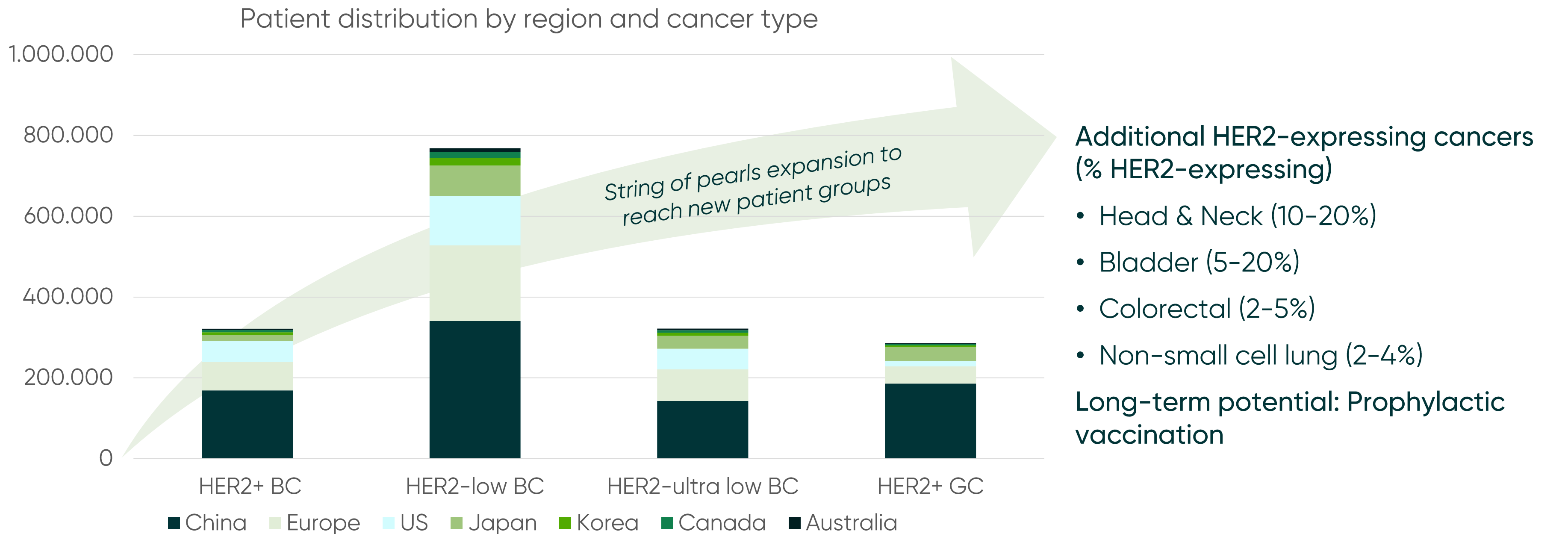
¹ Breast Cancer Research Foundation (<https://www.bcrf.org/breast-cancer-statistics-and-resources>)

² Mitri Z et al. The HER2 Receptor in Breast Cancer: Pathophysiology, Clinical Use, and New Advances in Therapy (Chemother Res Pract. 2012; 2012: 743193)

³ EU, US, Japan

Unlocking a market of over 1.7M patients/year

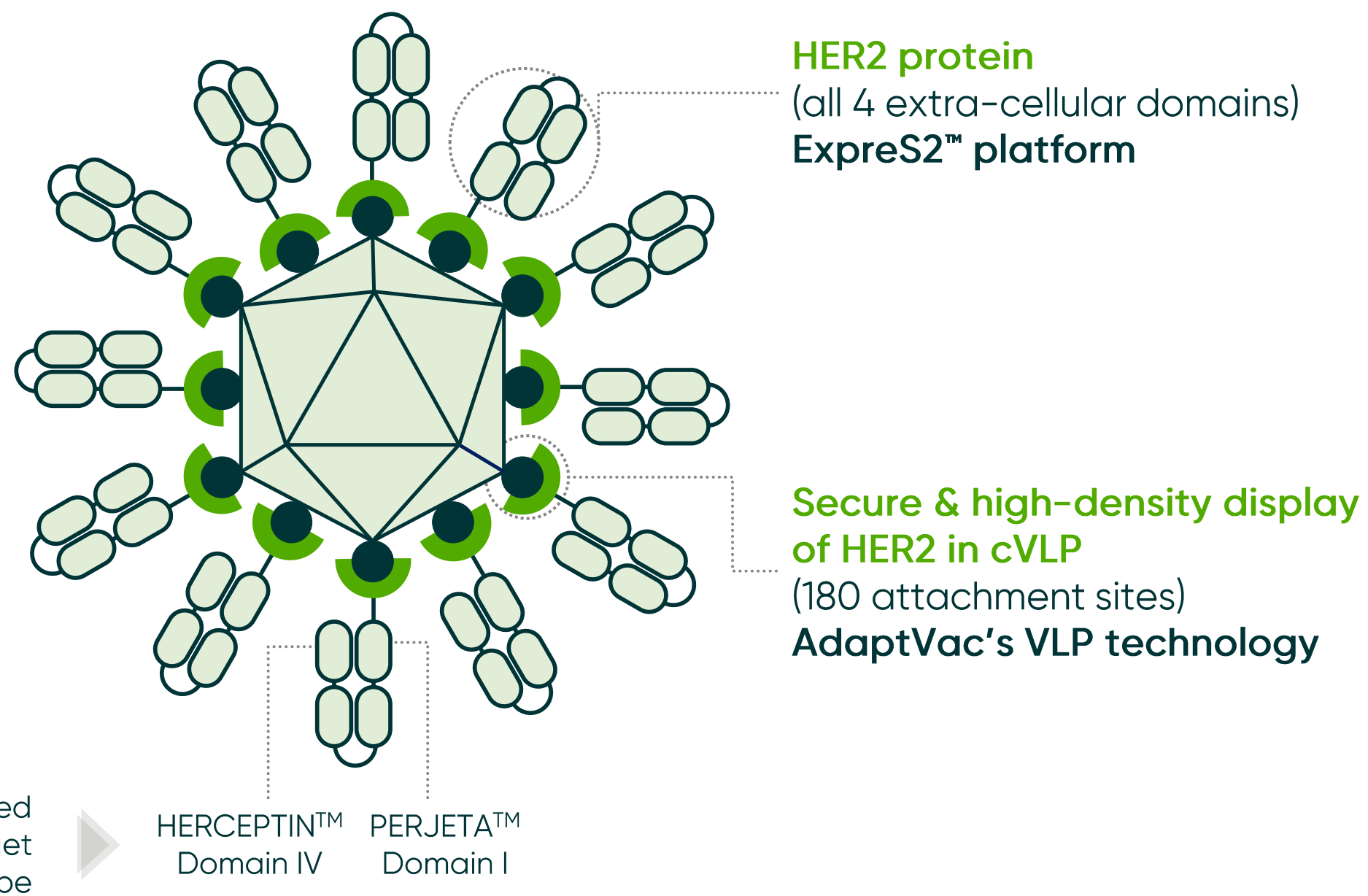
Current market reach and future expansion opportunities



BC: Breast Cancer; GC: Gastric Cancer, including gastro-oesophagus junction

ES2B-C001 vaccine design

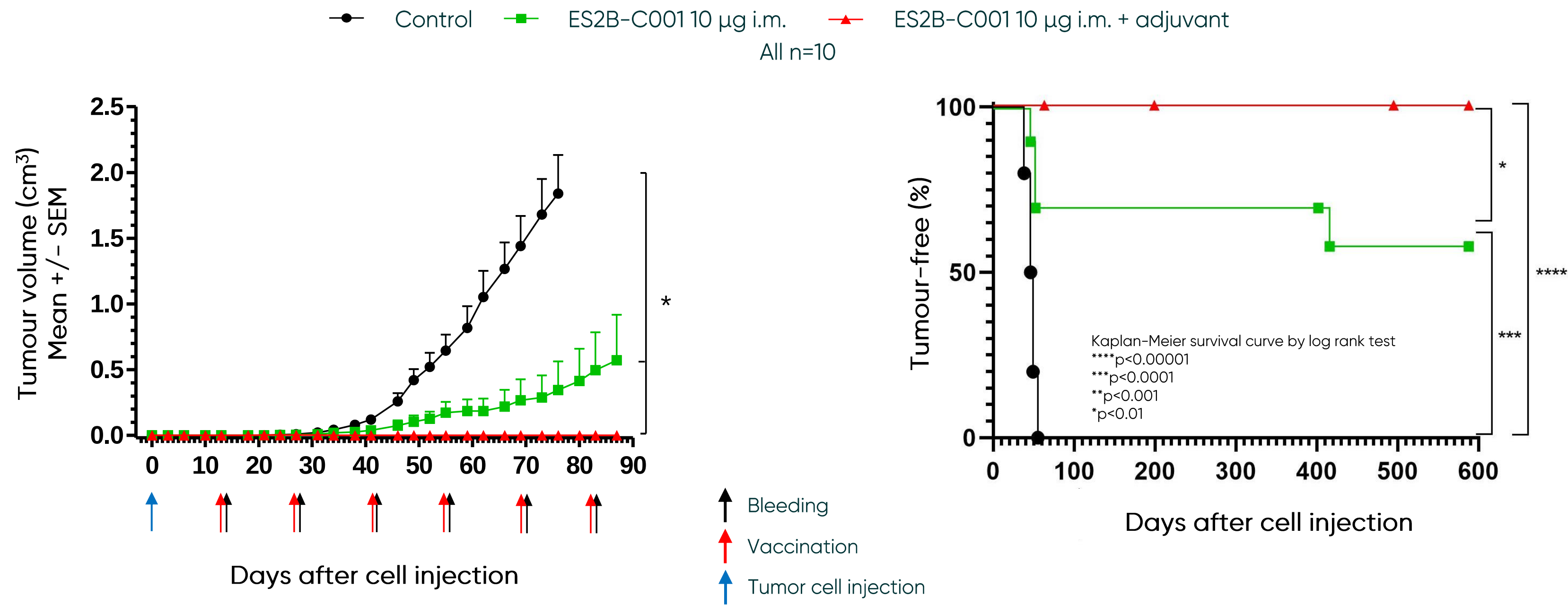
Proprietary platform is Phase III-validated: Combines unique full-length antigen with highly immunogenic VLP technology, leading to durable polyclonal antibody response



- **VLP concept in approved cancer vaccines**
HPV vaccine against cervical cancer and HBV vaccine against liver cancer
- **Highly immunogenic**
A wide range of epitopes presented to B-cells. Generates a strong polyclonal Ab response -> effective in tumour cells resistant to mAbs.
- **Safety profile**
Technology validated in phase III testing of another indication & ES2B-C001 long-term GLP NHP studies
- **Longevity of immune response**
Potent B-cell activation via VLP presentation. Break 'self-tolerance' for HER2+.
- **Combination with SoC**
Applied on top of different LOTs.
- **Off-the-shelf, scalable, cost-effective**

Promising non-clinical results

Significant *in vivo* tumour growth inhibition resulting in 100% survival of treated animals
(used as a prophylactic and therapeutic vaccine)



Significant improvement on competing HER2-expressing breast cancer therapies

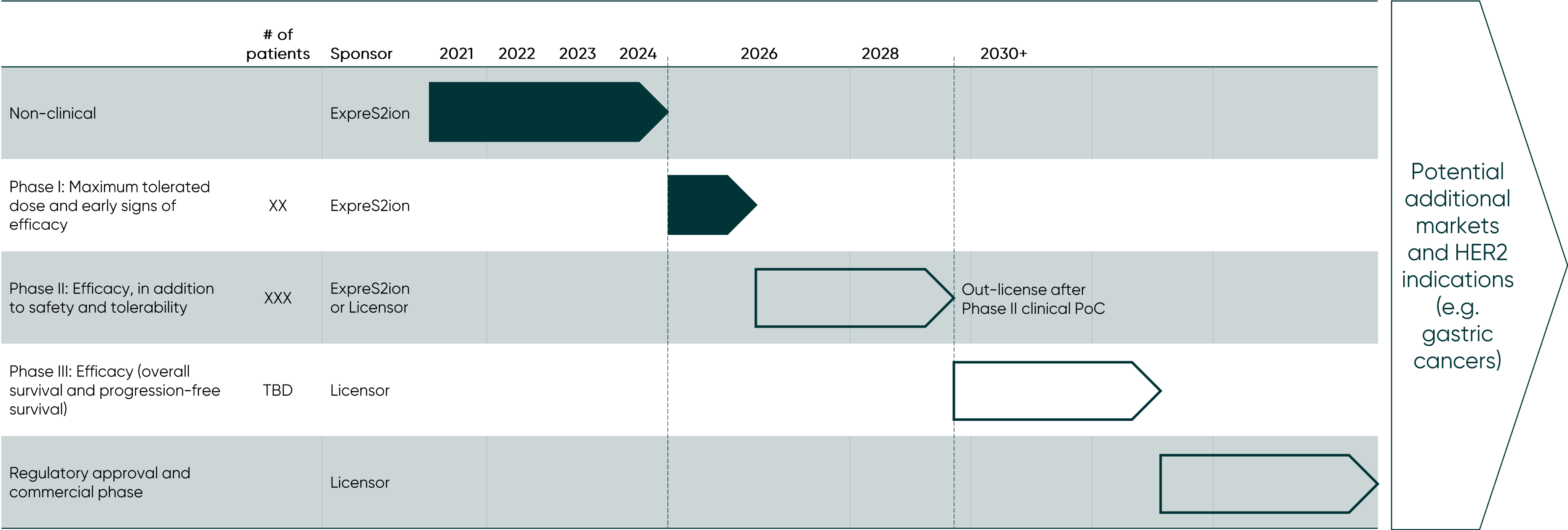
	mAbs	ADCs	TKIs	Other vaccines	ES2B-C001
Cardiac toxicity	Yes	Yes	Yes	TBD	Not observed
Gastrointestinal toxicity	N/A	N/A	Yes	TBD	Not observed
Liver toxicity	N/A	Yes	Yes	TBD	Not observed
Thrombocytopenia	N/A	Yes	N/A	TBD	Not observed
Interstitial lung disease	N/A	Yes	N/A	TBD	Not observed
SoC resistance	Nearly one-third of HER2+ breast cancer patients develop resistance ²			TBD	Demonstrated breaking tolerance <i>in vitro</i>
Long-term effect (PFS in months)	<19	<10	<8	TBD	FVB mice tumour-free >19 months
Easy to administer/ receive	No	No	Yes	Yes	Yes
VLP-based ¹	N/A	N/A	N/A	No	Yes
Cost effective	No	No	No	Varies	Yes

¹ All approved cancer vaccines are VLP-based, including those for HPV (Gardasil™, Cervarix™) and HBV (Engerix-B™)

² Pallerla, S., Abdul, A. ur R.M., Comeau, J. and Jois, S. (2021). Cancer Vaccines, Treatment of the Future: With Emphasis on HER2-Positive Breast Cancer. International Journal of Molecular Sciences, [online] 22(2). doi:https://doi.org/10.3390/ijms22020779.

Path to clinical proof-of-concept and commercialisation

High-level summary of integrated development plan (iDP)



Positioned for strategic milestones and value creation

Strategic milestones

- 2024: CTA approval
 - A critical regulatory milestone
- 2025: First-in-human trial initiation
 - Clinical validation opportunity
- 2026: Expected trial results
 - Gateway to licensing or partnerships
 - Gateway to initiation of Phase II study

Growth funding mechanisms

TO 10 warrant subscription

- Subscription window: Nov. 20 – Dec. 4, 2024
- Terms: 40 warrants = 1 new share
- Price: 17.91 SEK (30% discount to VWAP)

TO 11 warrant subscription

- Subscription window: Sep. 18 – Oct. 2, 2025
- Terms: 40 warrants = 1 new share
- Price: 70% of VWAP (Sep. 1–12, 2024)

Future value drivers

- Large addressable market
 - >1.7 million patients annually with HER2-expressing cancers
- Diversified core pipeline
 - **ES2B-C001**: HER2-expressing therapeutic cancer vaccine
 - **ES2B-I002**: Next-generation candidate for CMV treatment
 - Early-stage **exploratory projects** expanding future opportunities
- High licensing potential
 - Top 5 oncology licensing deals in 2021 averaged **\$3B per deal**
 - **Phase I oncology assets** offer first-mover advantages in unmet needs
 - HER2-targeting therapies aligned with high-value early-stage demand

Groundbreaking novel cancer therapy

ES2B-C001 summary: A therapeutic vaccine to treat HER2-positive breast cancer awaiting CTA approval



- A HER2-cVLP vaccine targeting HER2-expressing breast cancer, addressing a €27B global market with 7.2% CAGR next 5 years¹
- ES2B-C001 demonstrated significant tumour growth inhibition, resulting in 100% survival of treated animals
- Effectively breaking tolerance, and overcoming monoclonal antibody resistance
- CTA submitted in Q3 '24 and aim to complete first-in-human Phase I clinical trial by Q1 '26
- ExpreS2ion committed to ensure completion of Phase II clinical proof-of-concept studies during 2026-2029

¹ Mordor Intelligence, breast cancer therapeutics market, 2024-2029 estimates

Disclaimer

This presentation does not constitute or form part of any offer or invitation to purchase or subscribe for, or any offer to underwrite or otherwise acquire, any shares or any other securities in ExpreS2ion Biotech Holding AB (the "Company"). Neither shall the presentation or any part of it, nor the fact of its distribution or communication, form the basis of, or be relied on in connection with, any contract, commitment or investment decision in relation thereto.

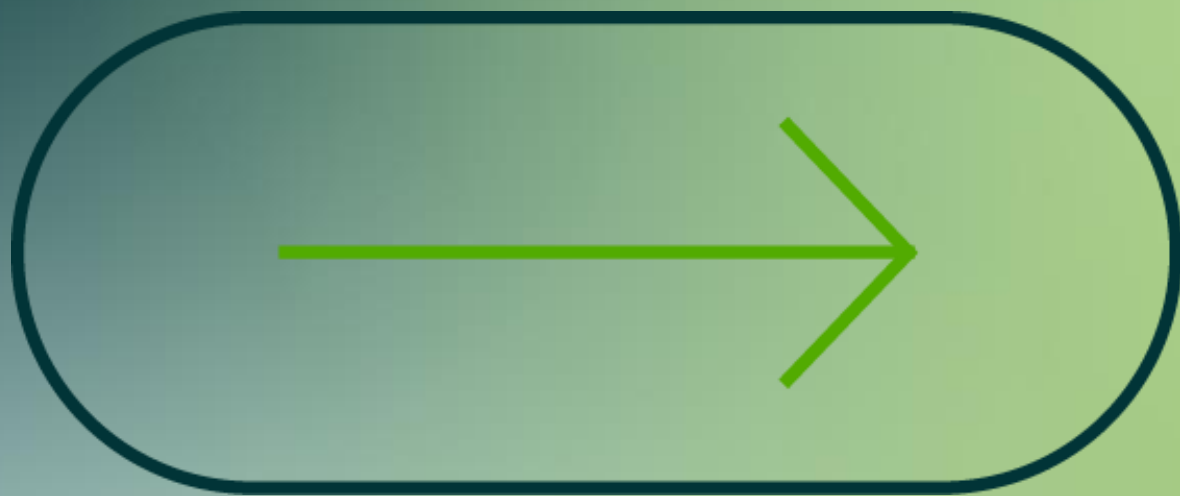
This presentation contains forward-looking statements, which are subject to risks and uncertainties because they relate to expectations, beliefs, projections, future plans and strategies, anticipated events or trends and similar expressions concerning matters that are not historical facts. All statements other than statements of historical fact included in this presentation are forward-looking statements. Forward-looking statements give Company's current expectations and projections relating to its financial condition, results of operations, plans, objectives, future performance and business. These statements may include, without limitation, any statements preceded by, followed by or including words such as "target," "believe," "expect," "aim," "intend," "may," "anticipate," "estimate," "plan," "project," "will," "can have," "likely," "should," "would," "could" and other words and terms of similar meaning or the negative thereof. Such forward-looking statements involve known and unknown risks, uncertainties and other factors, which may cause the actual results, performance or achievements of Company or the industry in which it operates, to be materially different than any future results, performance or achievements expressed or implied by such forward-looking statements. Given these risks, uncertainties and other factors, recipients of this presentation are cautioned not to place undue reliance on these forward-looking statements. The forward-looking statements referred to above speak only as at the date of the presentation. Company will not undertake any obligation to release publicly any revisions or updates to these forward-looking statements to reflect future events, circumstances, anticipated events, new information or otherwise except as required by law or by any appropriate regulatory authority.

The information included in this presentation may be subject to updating, completion, revision and amendment and such information may change materially. No person, including Company and its advisors, is under any obligation to update or keep current the information contained in this presentation and any opinions expressed in relation thereto are subject to change without notice. Neither Company nor any of its owners, affiliates, advisors or representatives (jointly the "Disclosers") make any guarantee, representation or warranty, express or implied, as to the accuracy, completeness or fairness of the information and opinions contained in this presentation, and no reliance should be placed on such information. None of the Disclosers accept any responsibility or liability whatsoever for any loss howsoever arising from any use of this presentation or its contents or otherwise arising in connection therewith.

By attending this presentation or by accepting any copy of this document, you agree to be bound by the foregoing limitations.



Q&A



Investor Relations

investor@
expres2ionbio.com