



Building a Premier Oncology Biotech

Dr. Helen Torley, President and CEO
September 2019

Forward-Looking Statements

All of the statements in this presentation that are not statements of historical facts constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Examples of such statements include possible activity, benefits and attributes of PEGPH20, future product development and regulatory events and goals, anticipated clinical trial results and strategies, product collaborations, our business intentions and financial estimates and results, including projected revenue amounts. These statements are based upon management's current plans and expectations and are subject to a number of risks and uncertainties which could cause actual results to differ materially from such statements. A discussion of the risks and uncertainties that can affect these statements is set forth in the Company's annual and quarterly reports filed from time to time with the Securities and Exchange Commission under the heading "Risk Factors." The Company disclaims any intention or obligation to revise or update any forward-looking statements, whether as a result of new information, future events, or otherwise.

Two Engines for Growth

ENHANZE®



Proven 'IV to Sub Q'
Partnering Platform



Accelerating Partner
Investment for Approvals



High Potential:
~\$1B Annual Royalty
Revenue Projection in 2027
~\$1B in Lifetime Milestones

PEGPH20



Late Stage Targeted
Oncology Asset



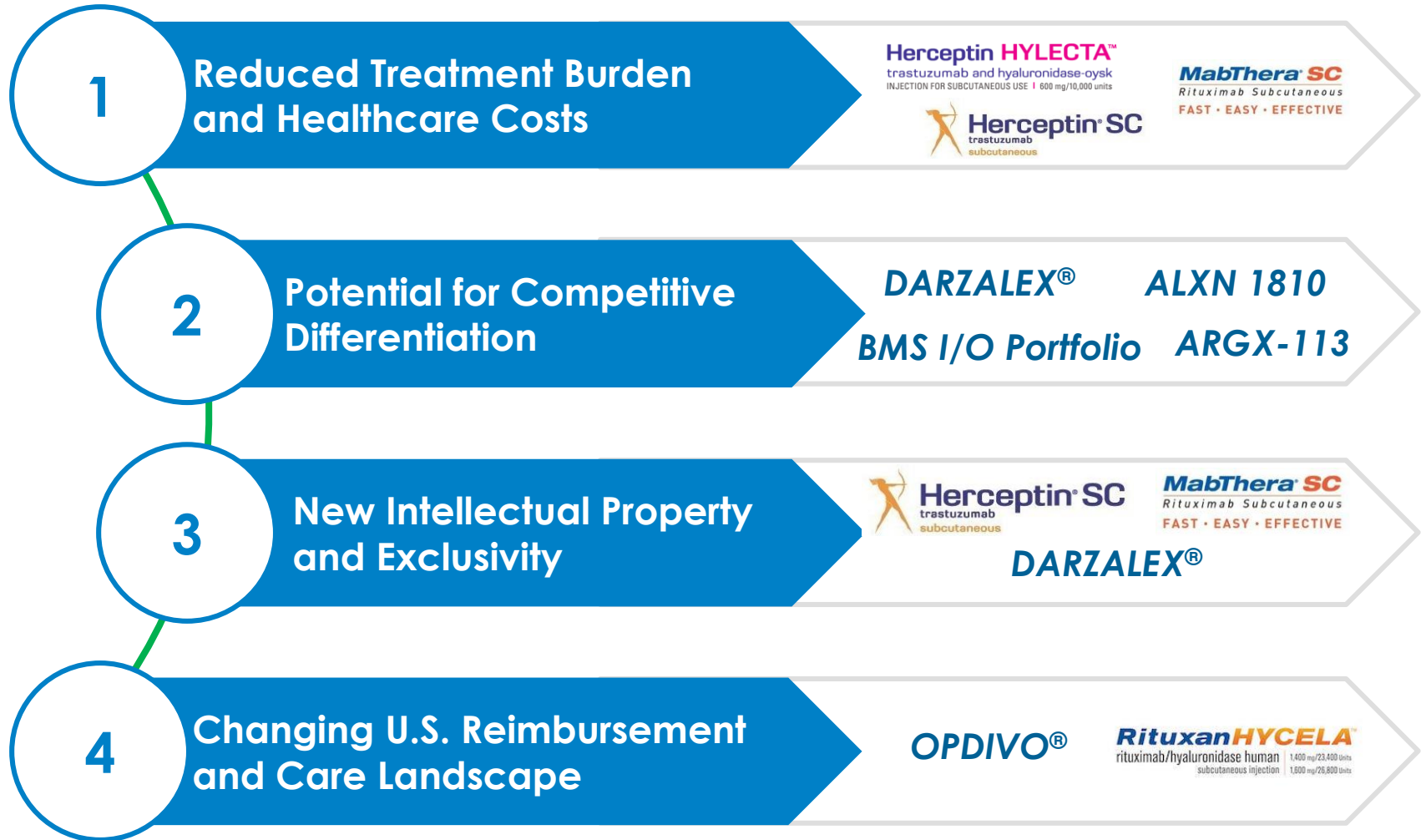
Phase 3 Data
Readout Currently
Projected in Q4 2019



Potential ~\$1B Global
Pancreas Indication
with Additional Pan-
tumor Potential

ENHANZE®

ENHANZE® Offers Four Potential Paths for Differentiation and Value Creation for Partners



ENHANZE[®] High-Growth Business

9 Agreements signed to date:
Roche (Genentech), Baxalta,
Pfizer, Janssen, Eli Lilly, Abbvie
BMS, Alexion, and argenx

3 Approved Products

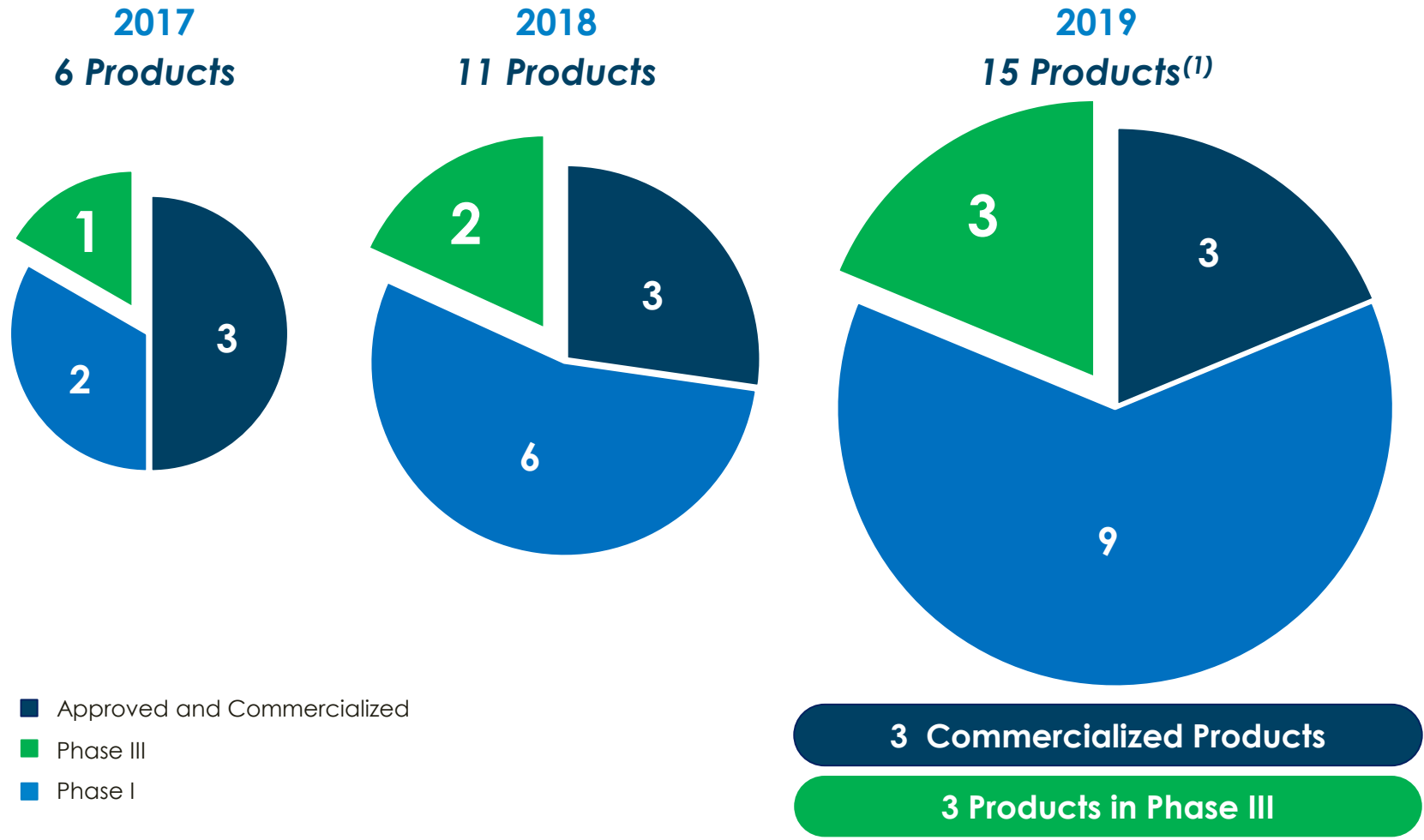
8 Targets in development today

>20 Target slots available to current partners

Bristol-Myers Squibb Agreement Terms

Number of Targets	11
Upfront	\$105M
Milestones/Target	\$160M
Royalties	Mid-single digit average across all agreements

Near Term Catalysts: Project 3 Potential Blockbuster Programs in Phase III in 2019



¹ Projected by year-end as of January 9, 2019

Three Products Successfully Commercialized in Global Markets

US

HyQvia

[Immune Globulin Infusion 10% (Human)
with Recombinant Human Hyaluronidase]

RituxanHYCELA™

rituximab/hyaluronidase human 1,400 mg/23,400 Units
subcutaneous injection 1,600 mg/26,800 Units

Herceptin HYLECTA™

trastuzumab and hyaluronidase-oysk
INJECTION FOR SUBCUTANEOUS USE | 600 mg/10,000 units

ROW

HyQvia

[Immune Globulin Infusion 10% (Human)
with Recombinant Human Hyaluronidase]

MabThera® SC

Rituximab Subcutaneous





FAST • EASY • EFFECTIVE



Herceptin® SC

trastuzumab
subcutaneous

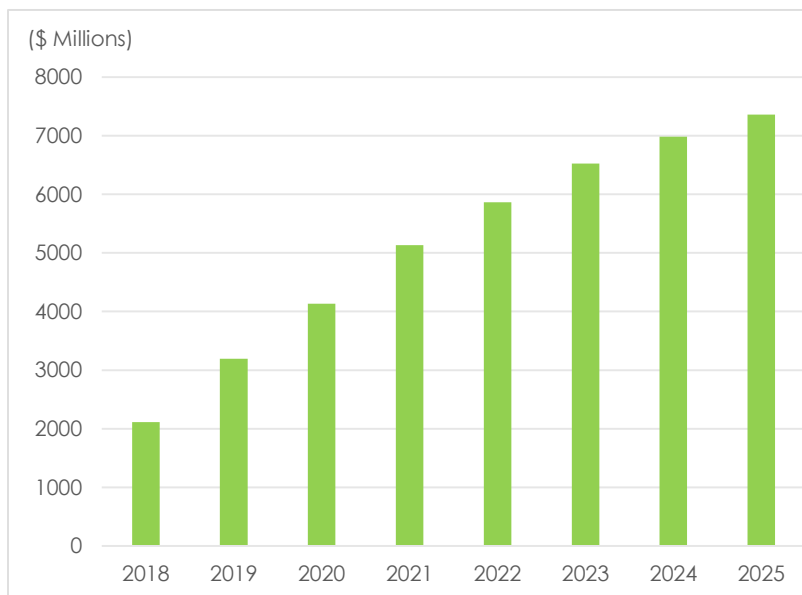
ENHANZE® Development Pipeline

	Partner	Product/Target		
Phase III in 2019	Janssen Undisclosed 	DARZALEX® Regulatory Applications Submitted	PERJETA® pertuzumab /  Ongoing	Undisclosed Initiating
	BMS argenx Lilly 	Anti-CD73 	OPDIVO® ARGX-113	ALXN1810 Undisclosed

PLUS 3 Potential New Phase I Starts in 2019

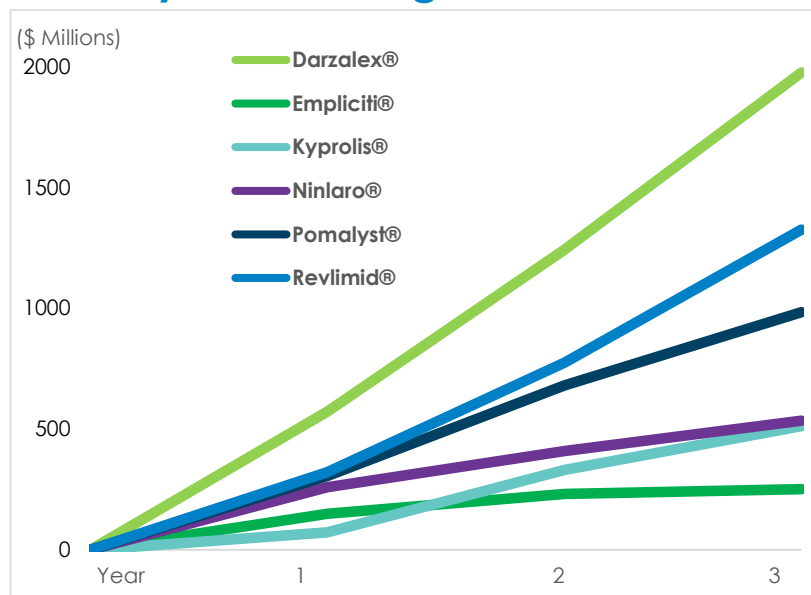
Daratumumab IV: Blockbuster Multiple Myeloma Treatment

Analyst Estimates for DARZALEX®



Source: Analyst estimates via Nasdaq IR Insight

Early Launch Data Compares Favorably with Other Multiple Myeloma Drug Launches



Source: Bloomberg, company press releases

Sell-side analysts estimate >\$7 billion in sales by 2025

Daratumumab SC Regulatory Path

Potential Benefits of Subcutaneous Formulation⁽¹⁾

- **Faster infusion time being tested (3-5 minutes)⁽²⁾ compared with 4-6 hour IV infusion, initially weekly**
- **Well tolerated with fewer infusion related reactions (IRRs) than with IV⁽³⁾**

BLA/MAA Submissions Made in July 2019 Based on:

- **COLUMBA study in Relapsed and Refractory Multiple Myeloma**
 - **Achieved 2 primary endpoints: non-inferiority in Response Rate and C trough**
- **Phase 2 PLEIADES Study⁽⁴⁾**

Multiple Ongoing Phase 3 Trials⁽¹⁾ with ENHANZE[®]

¹ Genmab corporate presentations (Jeffries November 2018, R&D Update and 2018 ASH Data Review December 2018)

² Subcutaneous Delivery of Daratumumab in Patients with Relapsed or Refractory Multiple Myeloma - Pavo, an Open-Label, Multicenter, Dose Escalation Phase 1b Study (*Blood* 2017)

³ Subcutaneous Daratumumab in Patients With Relapsed or Refractory Multiple Myeloma: Part 2 Safety and Efficacy Update of the Open-label, Multicenter, Phase 1b Study (PAVO) Ajai Chari et al (ASH December 2018)

⁴Janssen Pharmaceutical Companies' press release dated July 12, 2019

Perjeta[®]/Herceptin[®] Fixed Dose Combination with ENHANZE[®]: Potential Regulatory Submissions First Half 2020

Potential Opportunity

- PERJETA[®] indicated for use with Herceptin[®] and chemotherapy for adjuvant treatment of patients with HER2+ early-stage breast cancer (EBC) at high risk of recurrence
- Target population size⁽²⁾: ~75,000 in US and EU 5
- Strong IV adoption since launch: ~46% share in high risk early breast cancer in U.S.⁽¹⁾

Value proposition of Perjeta[®]/Herceptin[®] Fixed Dose SC with ENHANZE⁽³⁾

Value proposition: Subcutaneous formulation (SC)³

Reduced treatment burden



5 min

administration time



At home

administration potential

Capacity/Resources



Infusion chair

capacity constrained



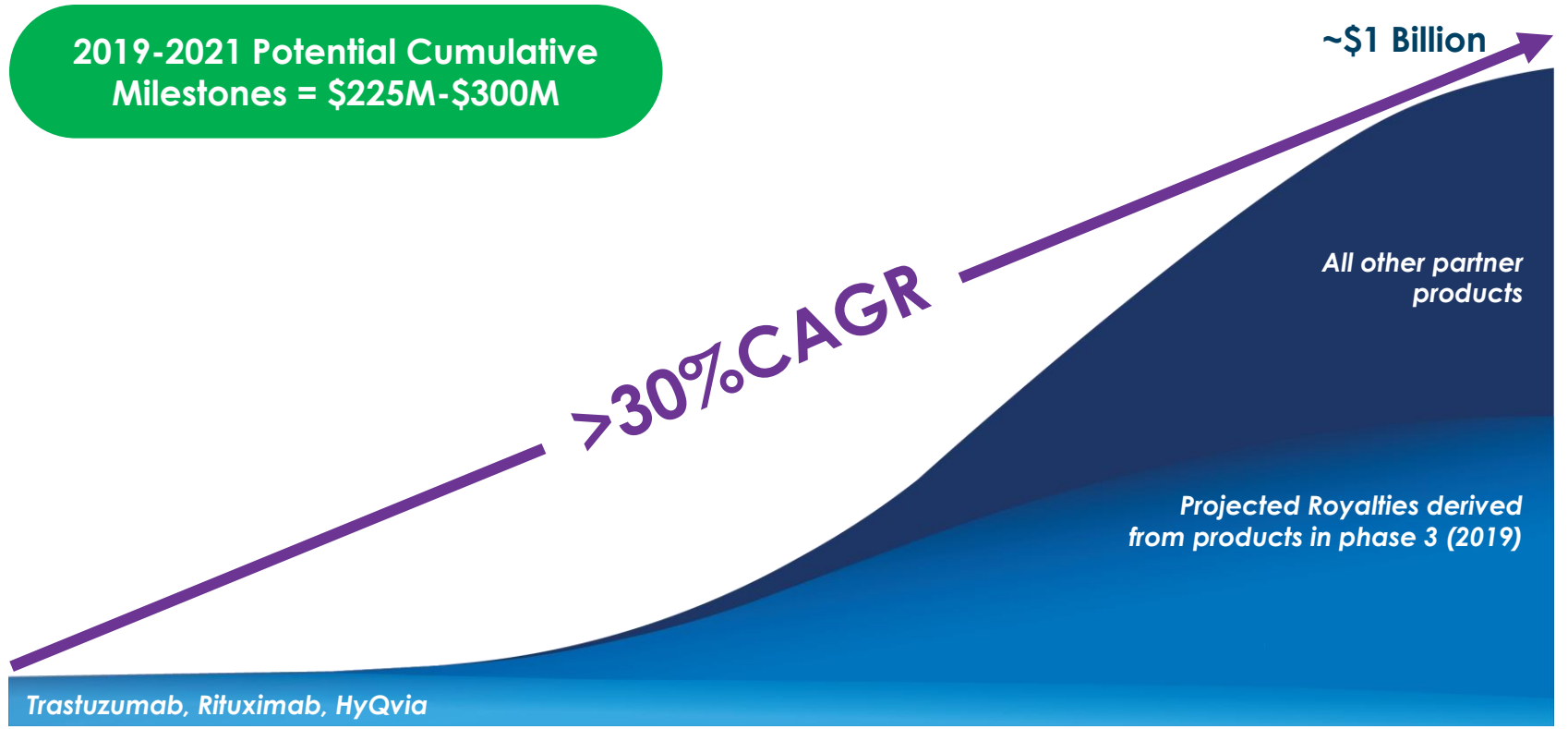
Hospital staff

resources constrained

Herceptin + Perjeta Fixed Dose SC in Ph III trial

ENHANZE®:

~\$1B Royalty Revenue Potential in 2027



2018

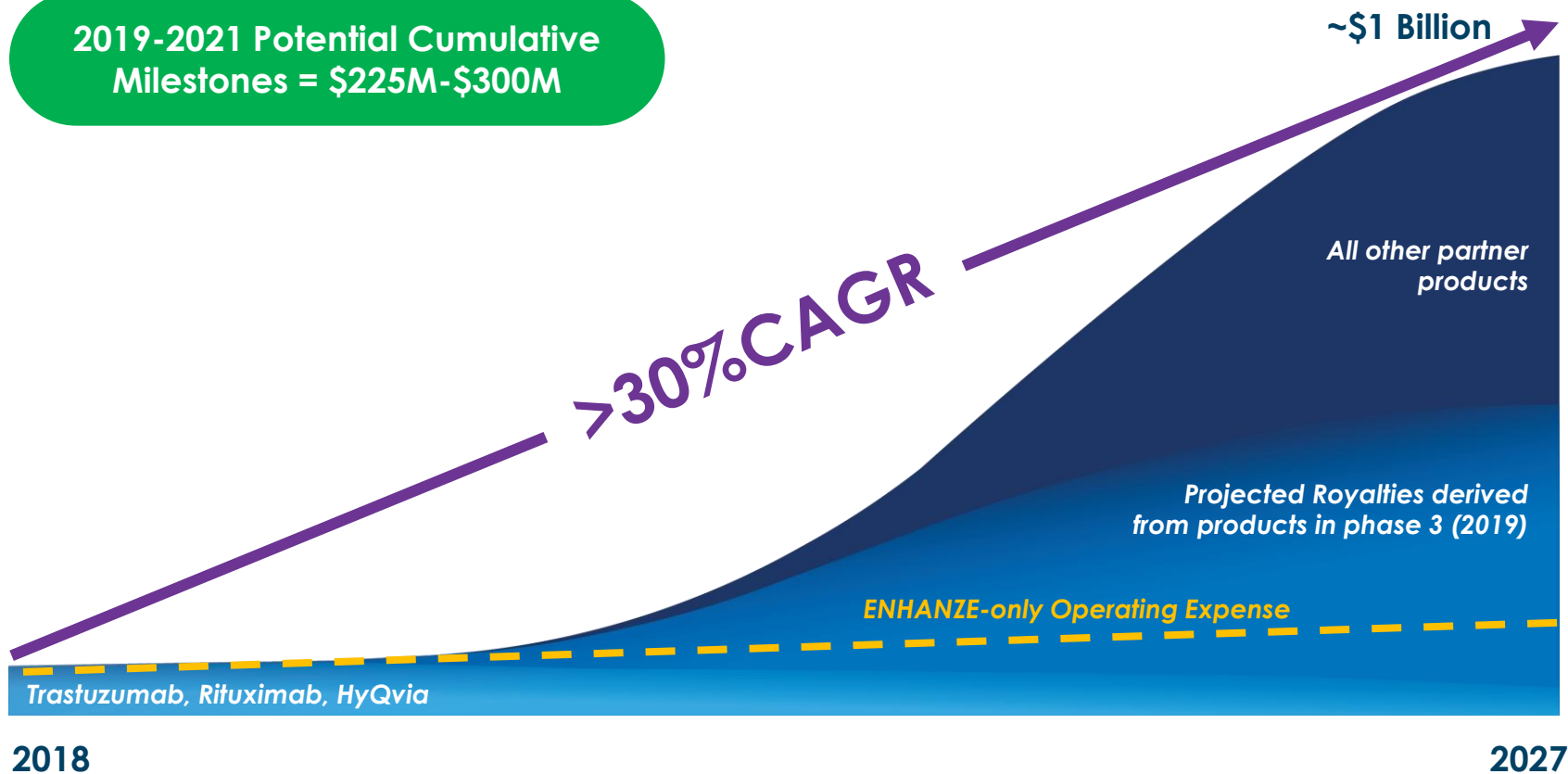
2027

Projection based on approved products and assumes global approval and launches for 12 additional products in multiple indications. Includes projections for subcutaneous versions of targets not currently approved or commercially available. Innovator revenues based on Bloomberg analyst projections, when available. Conversion rates based on Halozyne internal projections. Royalty revenue projection includes targets selected but not yet disclosed. Projected royalty revenue is not risk-adjusted.

ENHANZE®:

Royalties Exceed Pro Forma ENHANZE-only Operating Expenses

2019-2021 Potential Cumulative Milestones = \$225M-\$300M



Projection based on approved products and assumes global approval and launches for 12 additional products in multiple indications. Includes projections for subcutaneous versions of targets not currently approved or commercially available. Innovator revenues based on Bloomberg analyst projections, when available. Conversion rates based on Halozyne internal projections. Royalty revenue projection includes targets selected but not yet disclosed. Projected royalty revenue is not risk-adjusted. Operating expense represents pro-forma expenses that exclude COGS, and all costs related to Hylenex and PEGPH20.

Accelerating ENHANZE® Growth



Existing Partnerships

New collaboration signed with argenx in 1Q 2019 is first with development-stage biotech

Daratumumab SC Regulatory Applications Submitted to FDA and MAA

12 Targets in Development in 2019



New Partnerships

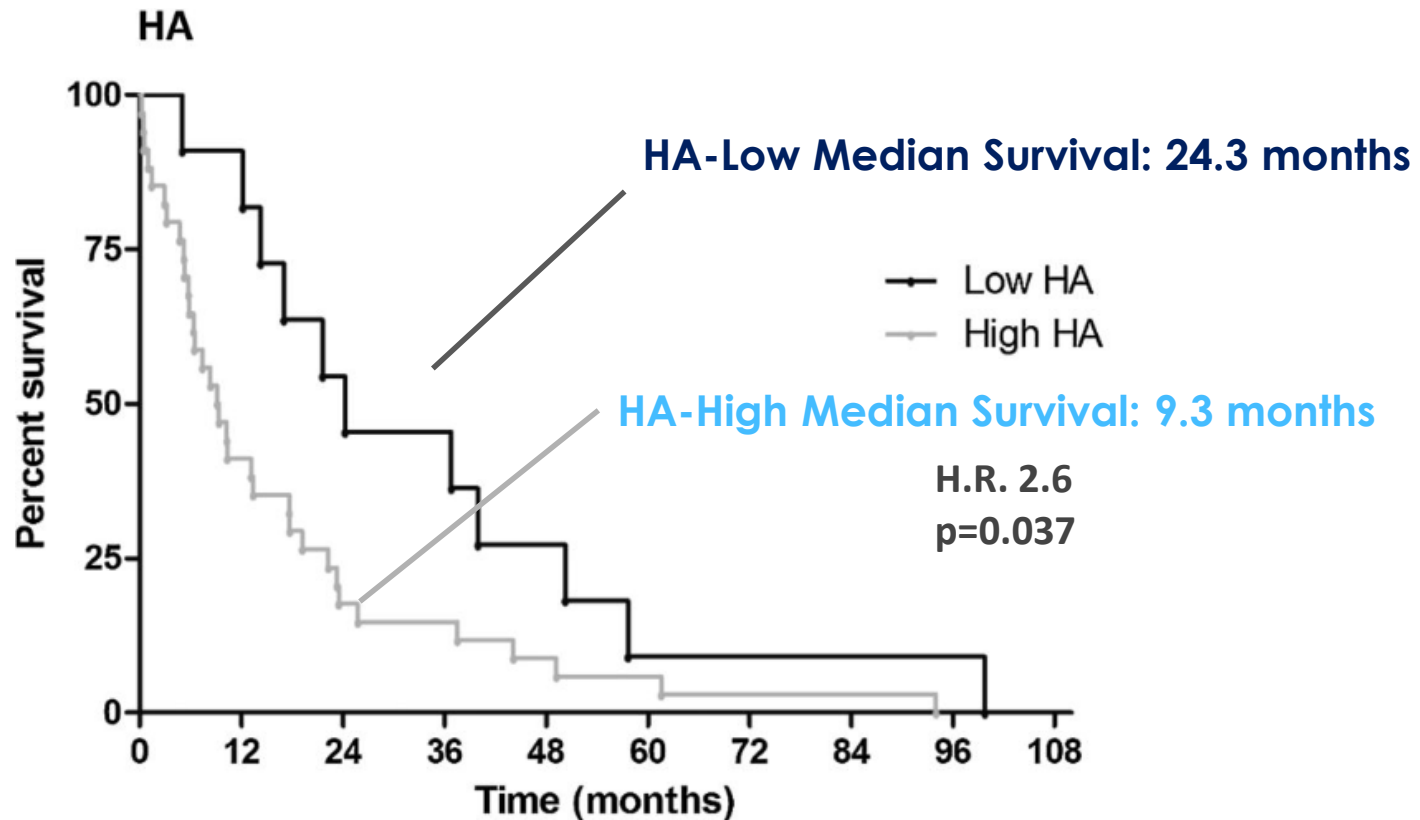
Potential in Oncology, Rare Diseases, Blood Disorders, Immunology, CNS and more

Pool of Potential New Partners and Targets Remains Sizable

PEGPH20

Tumor HA Overexpression Associated with Shorter Survival in Pancreas Cancer

Retrospective Evaluation of Pancreatic Cancer Survival in ~50 Patients⁽¹⁾



PEGPH20 Targets Hyaluronan (HA) in the Tumor Microenvironment

In HA-High Tumor Animal Models, Removal of HA by PEGPH20 Demonstrated to:

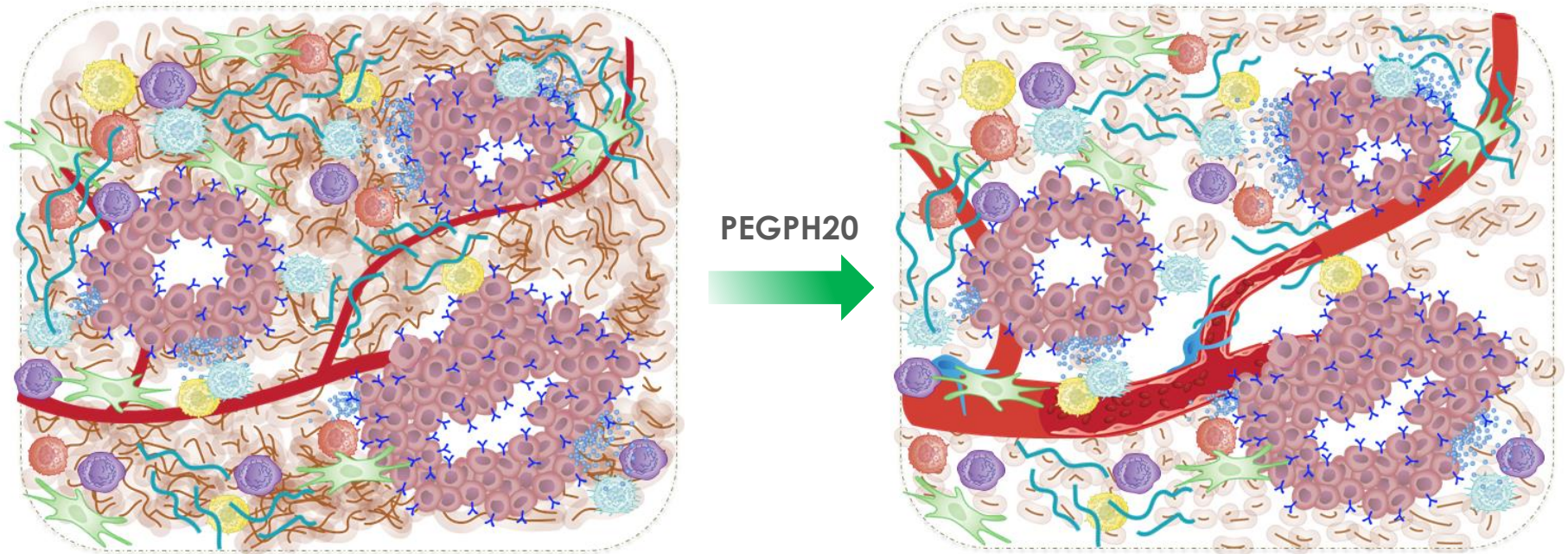
Decrease
intratumoral
pressure

Decompress
vasculature

Increase
perfusion

Increase
access for
therapeutics

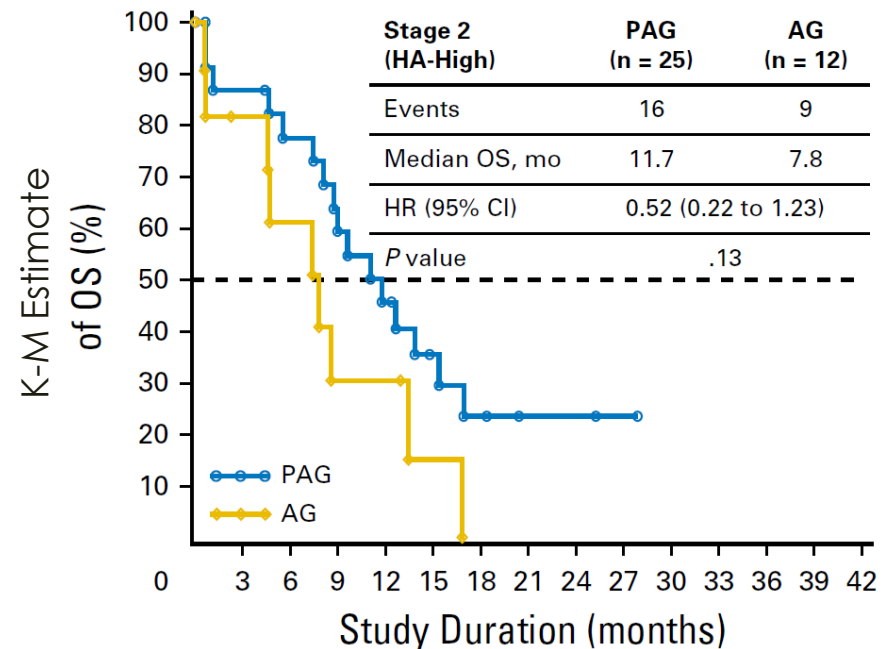
Increase
access for
immune cells



Proprietary Test Developed in Phase II to Identify HA-High Patients for Phase III

- Partnered with Roche Tissue Diagnostics (formerly Ventana) for Companion Diagnostic
- Phase II Study HALO 202 key to develop Companion Diagnostic
 - 279 1L metastatic PDA
 - PEGPH20 plus Abraxane[®] and Gemcitabine versus Abraxane[®] and Gemcitabine alone
 - HA all-comers population
- Stage 1: identification of HA algorithm/cut point
 - >50% score =HA-high
- Stage II: validation of cut-point/algorithm for Phase III
 - 37 of 133 patients HA-high

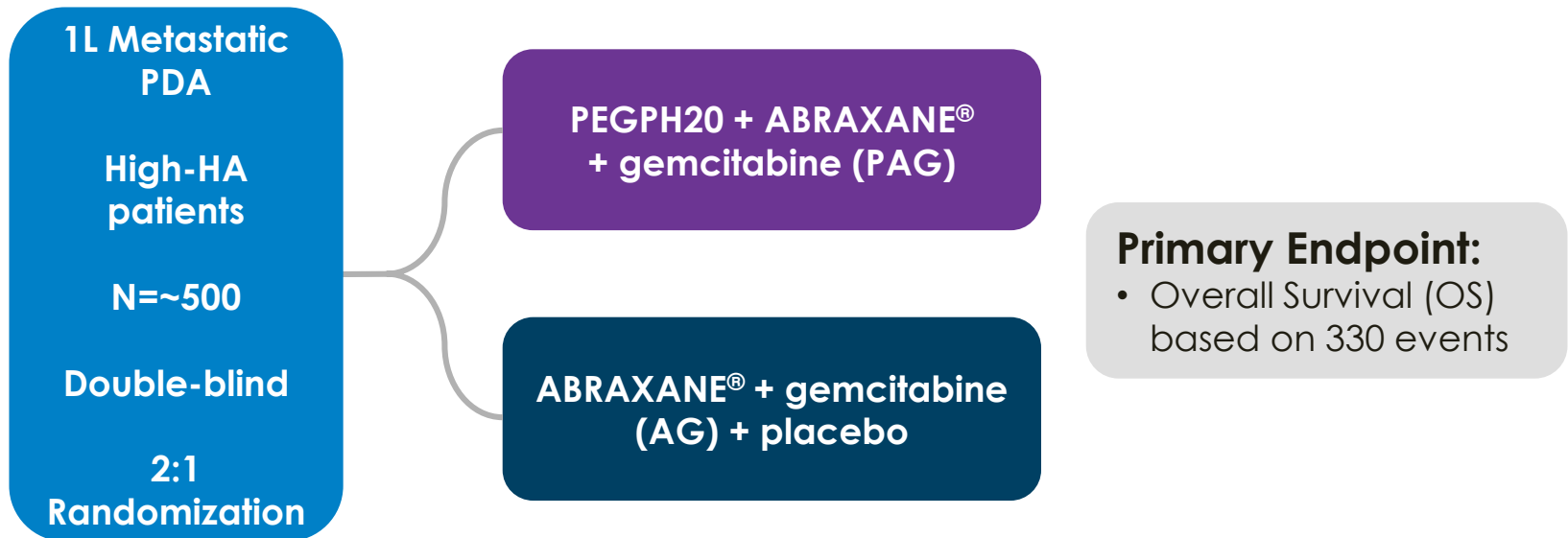
Analysis of OS in HA-High, Stage II HALO 202⁽¹⁾



No. at risk:

PAG	25	20	17	13	10	6	4	2	2	1	0	0	0	0
AG	12	8	6	3	3	1	0	0	0	0	0	0	0	0

HALO-301 Study in Metastatic Pancreas Cancer



Expect topline data announcement by December 2019

~\$1B Potential Opportunity in Pancreas Cancer

65,000



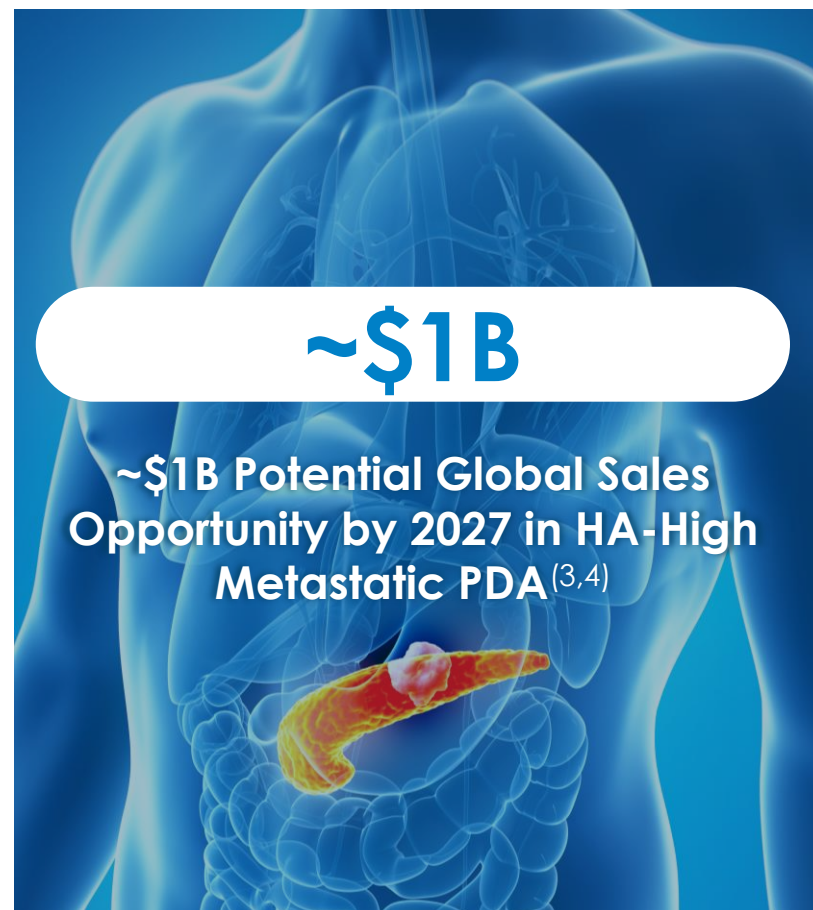
Annual Diagnosed
Metastatic Pancreatic
Ductal Adenocarcinoma
(PDA) U.S. and EU 5⁽¹⁾

25,000



Estimated Number of
HA-High Patients

35–40% of Population⁽²⁾



~\$1B

~\$1B Potential Global Sales
Opportunity by 2027 in HA-High
Metastatic PDA^(3,4)

Ongoing Studies Evaluating Pan-tumor Potential of PEGPH20

Combination	Tumor	Stage	Status
Checkpoint Inhibitors			
Atezolizumab (Tecentriq®) Roche	Pancreas Cancer (second-line)	Phase 1b Dose Finding Started 2H 2017	Enrollment completed
Atezolizumab (Tecentriq®)	Gall Bladder Cancer, Cholangiocarcinoma	Phase 1b Dose Expansion Initiated Q3 2018	Enrolling additional 15 patients

2019 Financial Guidance

	May 2019	August 2019
Net Revenue	\$205M to \$215M -Royalties of \$72-74M	No Change
Operating Expenses	\$265 to \$275M	\$255 to \$265M
Operating Expenses (excl. COGS)	\$225 to \$235M	\$215 to 225M
Operating Cash Burn	(\$45M) to (\$55M)	(\$40M) to (\$50M)
Debt Repayment	~\$90M	No Change
Year-end Cash	\$210M to \$220M	\$220M to \$230M

Outlook

- **Growing ENHANZE momentum**
 - ~\$1 billion in annual royalty revenue potential by 2027
 - Multiple near-term catalysts in a high margin business
- Each pillar offers **strong potential upside**
 - ENHANZE: New deals *plus* up to \$1 billion in lifetime milestones
 - PEGPH20: ~\$1 billion global sales opportunity in pancreas cancer
- Each pillar has been incrementally **de-risked:**
 - ENHANZE: 3 approved products, DARZALEX[®] SC regulatory applications submitted in July 2019
 - PEGPH20: HALO-301 fully enrolled
- Expect to end 2019 in **strong financial position**
 - Projected post-301 cash balance provides operational flexibility