



## Investor Relations Presentation



# Safe Harbor

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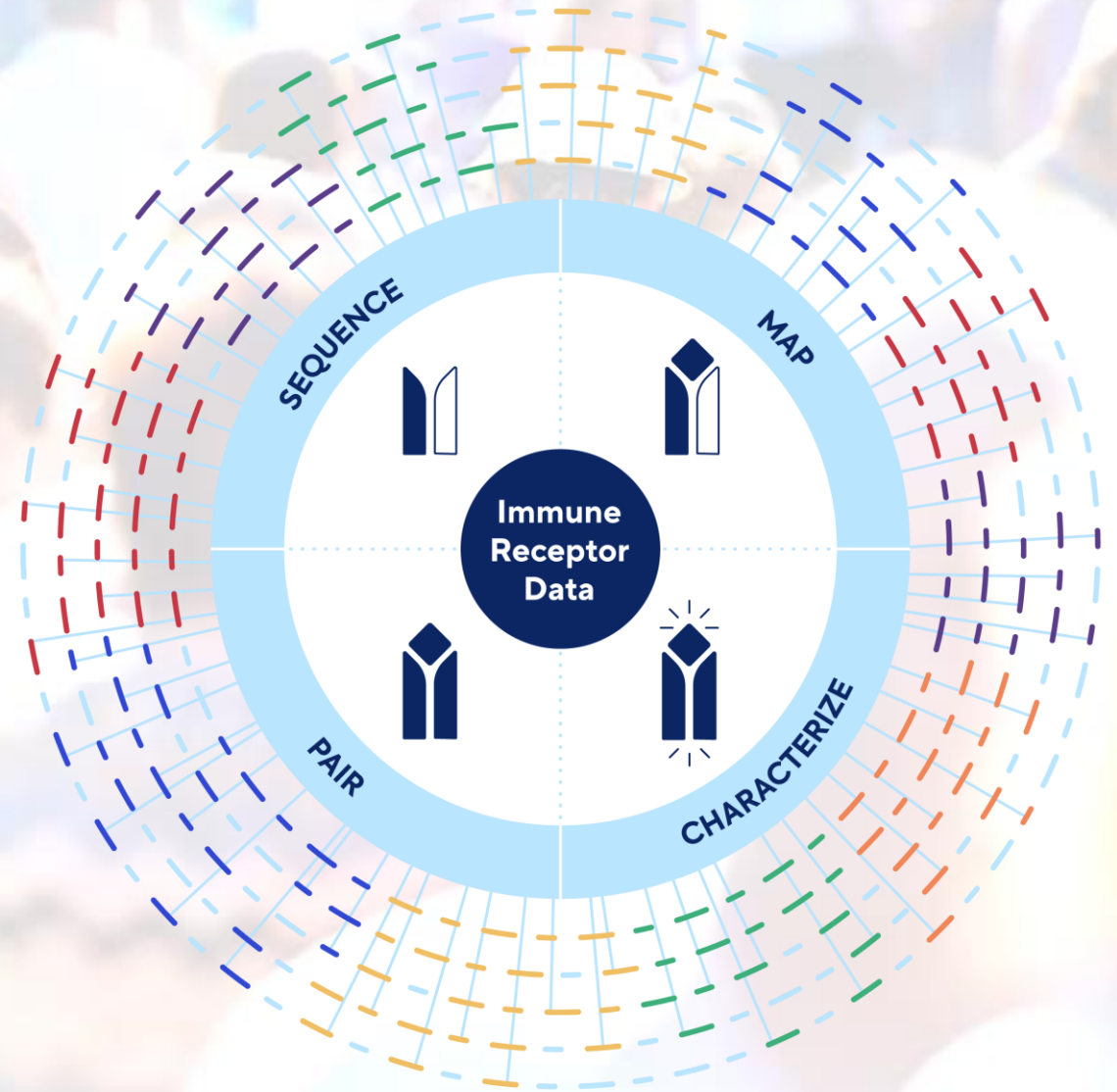
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# Our Mission

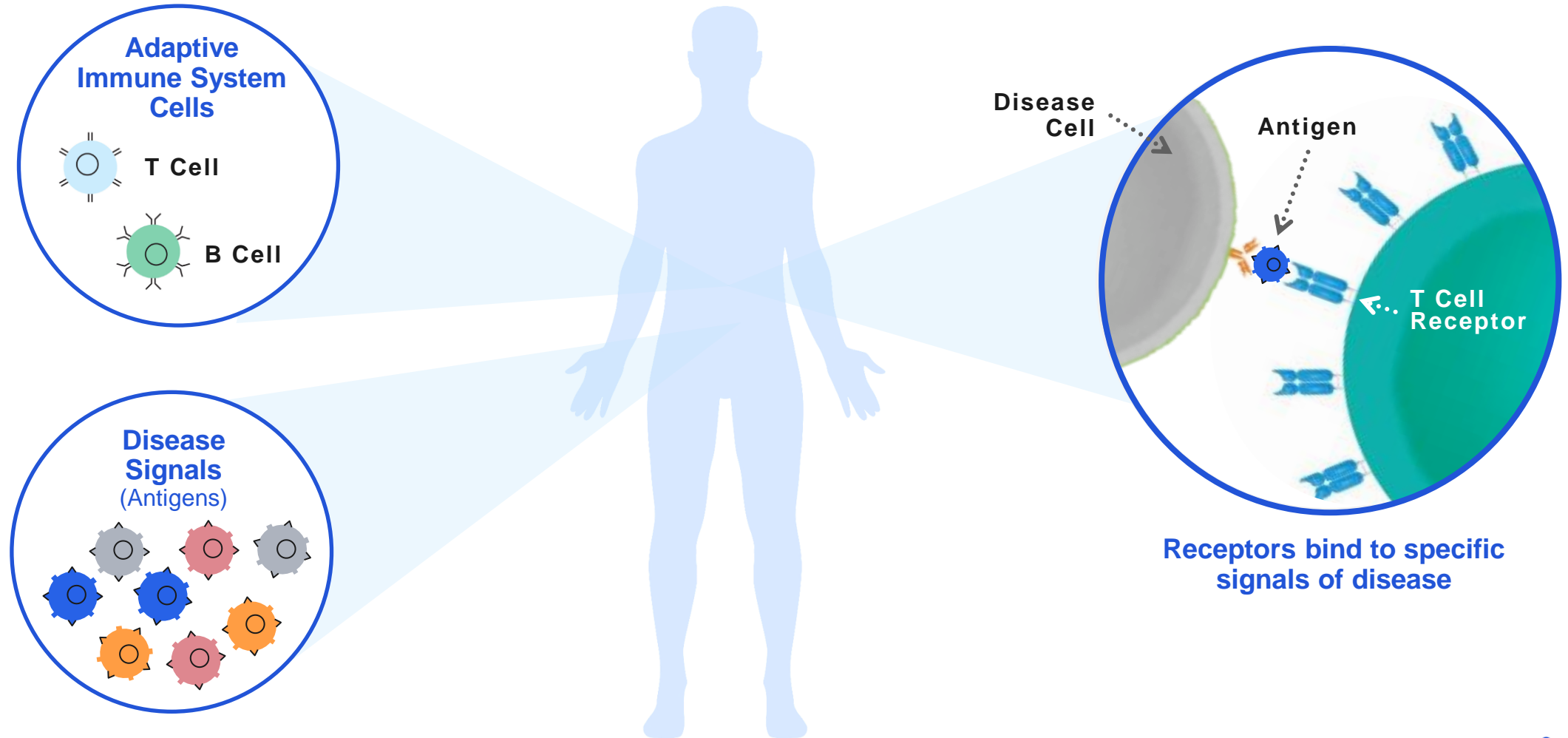
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Translate the genetic language of the adaptive immune system into clinical products to diagnose and treat disease

- Founded in 2009
- NASDAQ listed 2019 (ADPT)
- 700+ employees
- 700+ publications to date

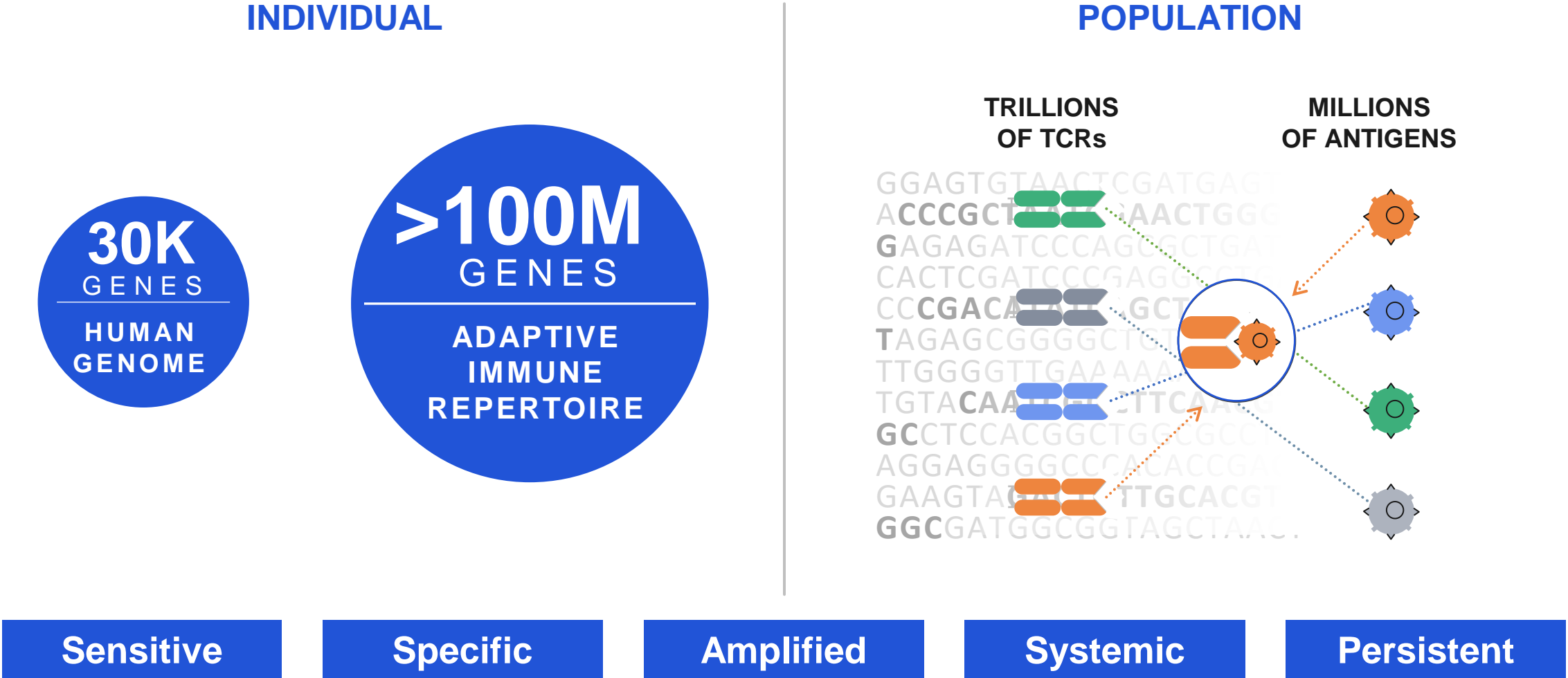


# The immune system detects and treats most diseases in the same way



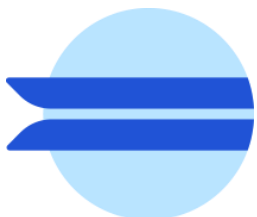


# Revealing its massively diverse genetic code may transform medicine

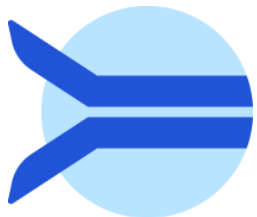


# Using the immune system as the source-code for immune medicine

## Immune System



T Cells



B Cells



Genetics



Data

## Immune Medicine



Autoimmune disorders



Cancer



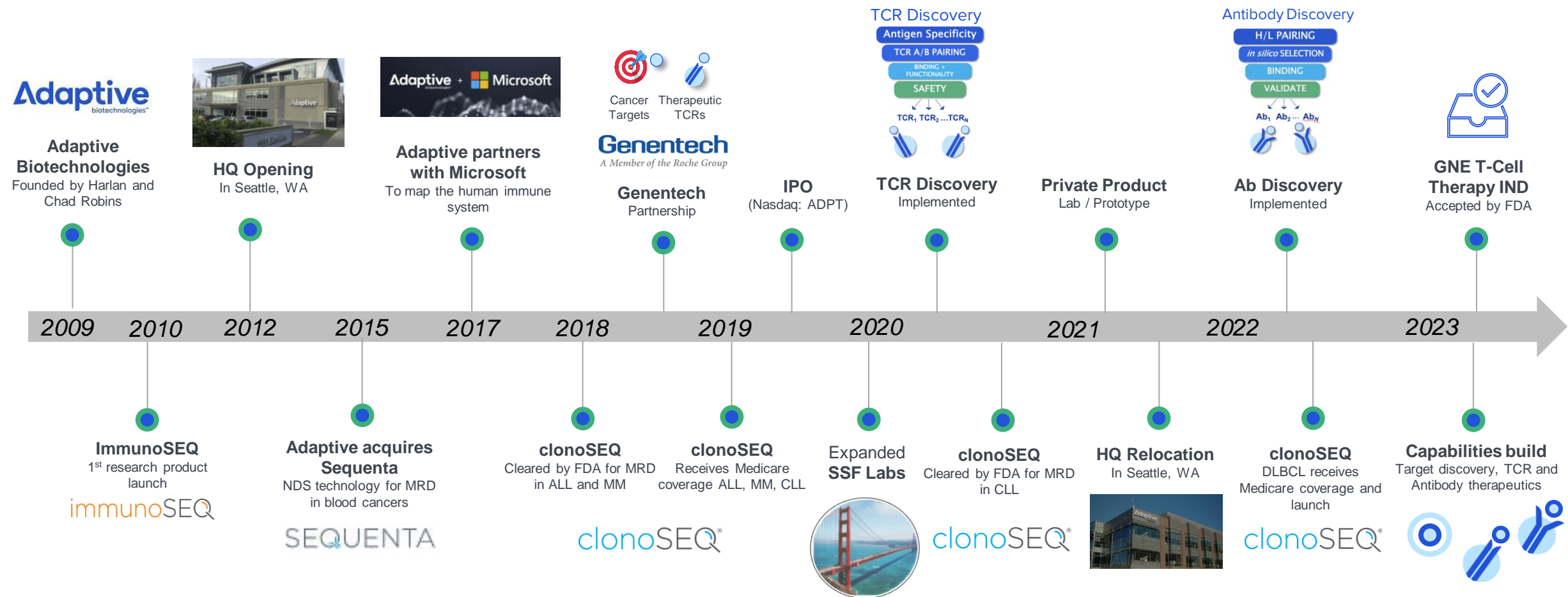
Infectious diseases



Neurodegenerative disorders



# Adaptive Innovation Timeline



# Business areas of focus: MRD and Immune Medicine

## Minimal Residual Disease (MRD)

Highly sensitive NGS-based assessment of MRD in heme for use in clinical practice and drug trials.

TAM ~\$5B\*

Clinical Testing



MRD Pharma

NGS MRD

## Immune Medicine (IM)

Rich immune receptor data informs clinical trials and development of transformative medicines.

TAM ~\$44B\*

Pharma Services

Adaptive Immunosequencing

Drug Discovery

Target Discovery  
T-cell Therapeutics  
Antibody Therapeutics

\* Global TAMs.



The background is a solid blue color. On the left side, there is a decorative pattern consisting of numerous light blue diagonal lines of varying lengths and thicknesses, interspersed with small light blue dots. The pattern is more dense on the left and fades towards the right.

**MRD**

# clonoSEQ is the gold standard for MRD in heme

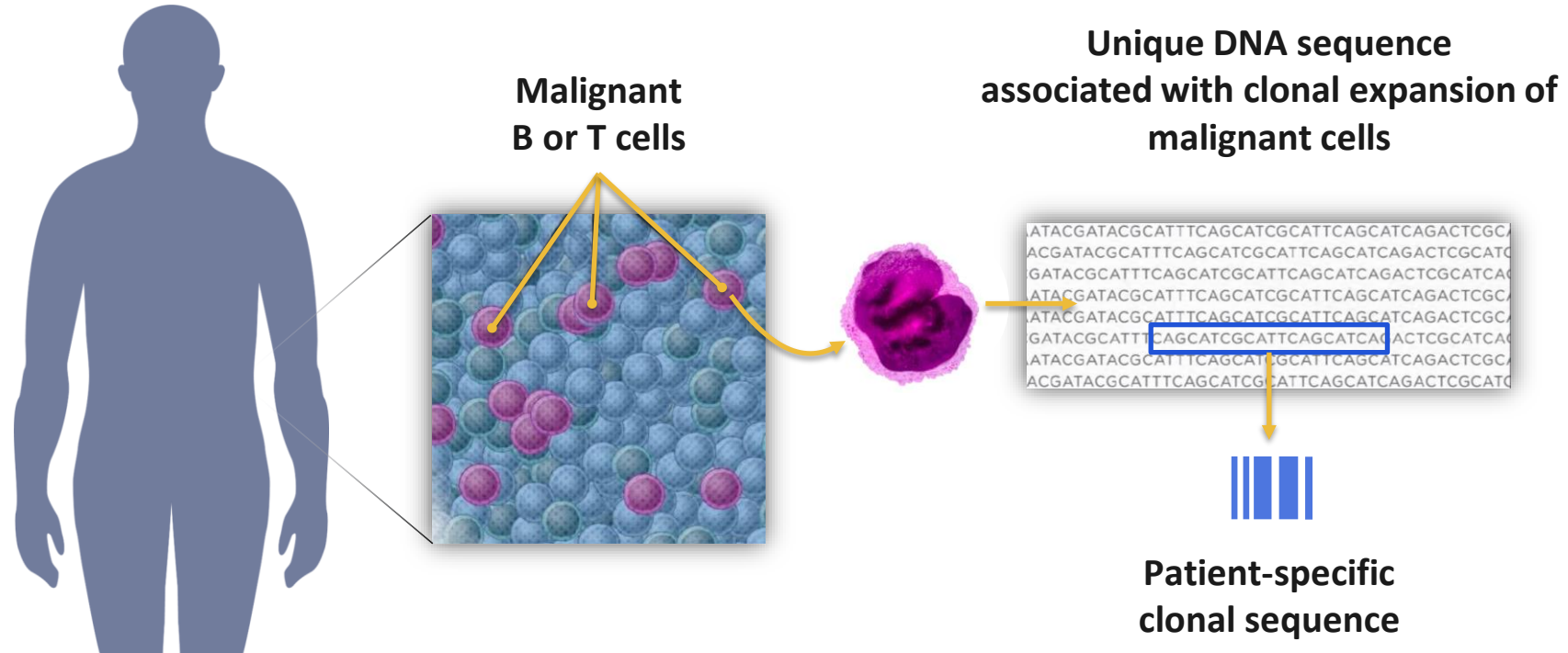
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- Highest sensitivity – detects one in 1M cancer cells
- Strong IP protection: 140+ MRD-specific patents
- Only FDA approved MRD assay for ALL, MM and CLL\*
- 150+ publications, 100+ ongoing studies
- 300M covered lives (MM, ALL), ~200M in CLL
- NCCN guidelines ALL, MM, CLL
- 41 pharma partners, 160 active clinical trials

\* All indications are CLIA validated including DLBCL

# clonoSEQ assesses MRD by looking for specific DNA sequences associated with malignant B or T cells\*

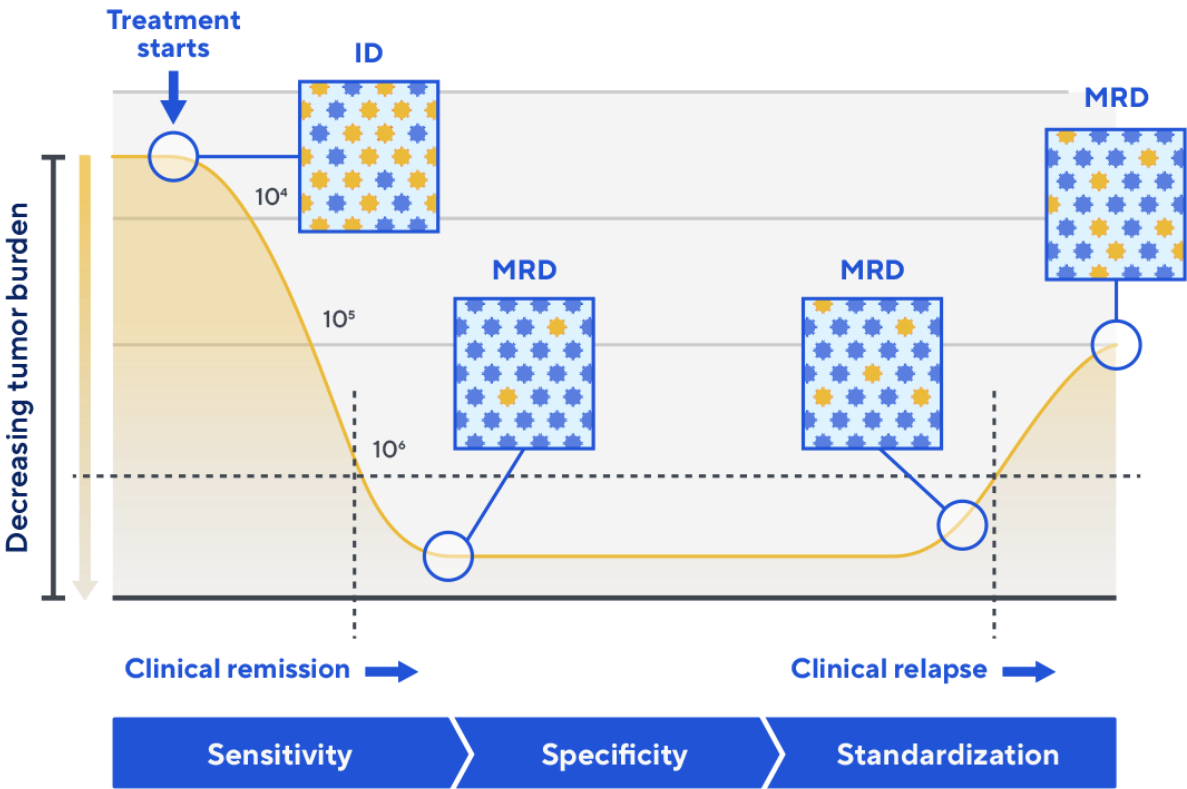


**By sequencing the DNA associated with B- and T-cell receptors, clonoSEQ identifies and quantifies specific cancer-associated sequences, generating MRD results that are a direct measure of the tumor, not a surrogate of disease**

\*T-cell testing is available as a CLIA-validated LDT and has not been cleared or approved by the FDA.  
Carlson C, et al. *Nat Commun.* 2013;4:2680.; Faham M, et al. *Blood.* 2012;120(26):5173-80 (study author was an employee of Adaptive at time of publishing)

# Our MRD business provides value to all stakeholders

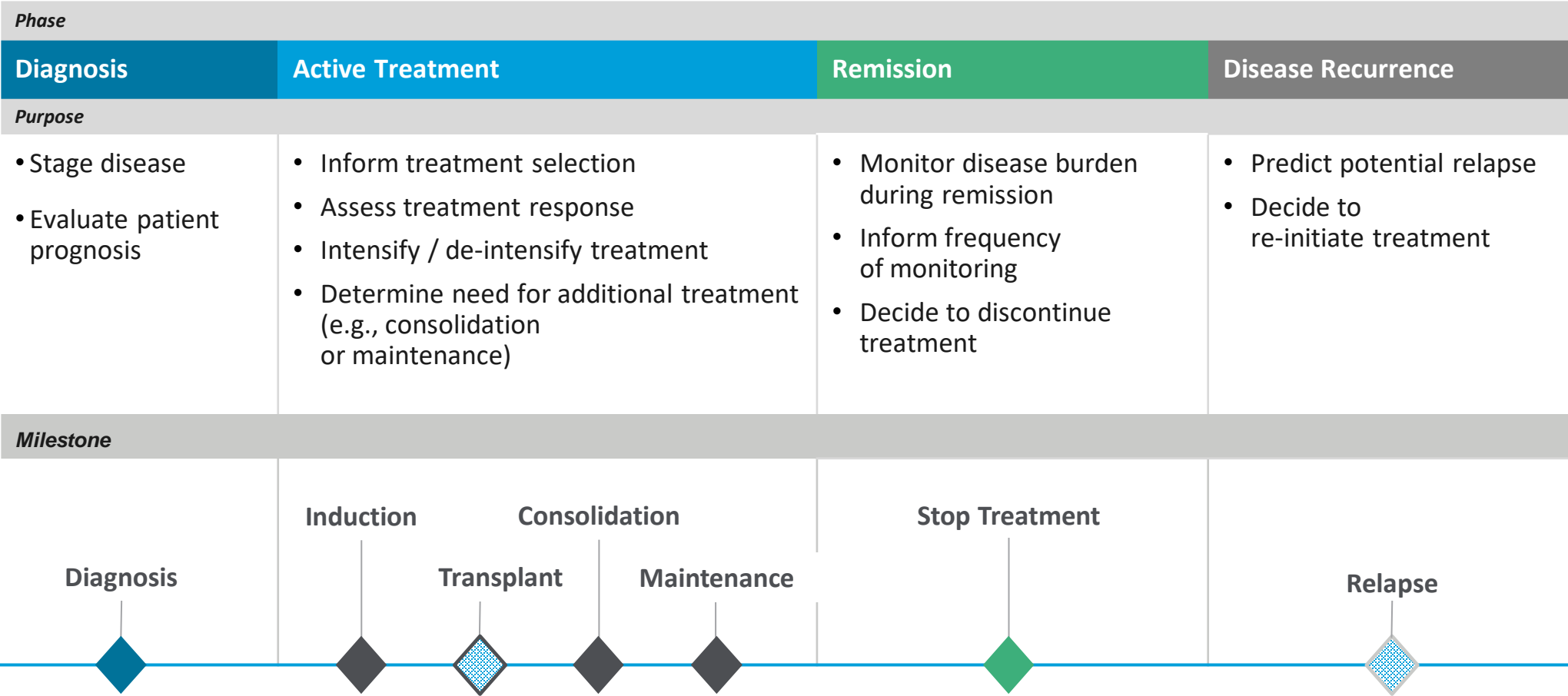
MRD is highly prognostic  
of outcomes...



Transforming care for  
lymphoid cancer



# Disease burden assessment is integral to clinical decision-making throughout the treatment continuum



# Other methods for clinical MRD evaluation in lymphoid cancers are limited

## Other approaches to monitoring lymphoid cancers

| ALL & CLL      | MM   | DLBCL <sup>1</sup> |
|----------------|--|--------------------|
| Flow cytometry | Flow cytometry<br>M-protein tests<br>Serum FLC | PET / CT scans     |

### LIMITATIONS

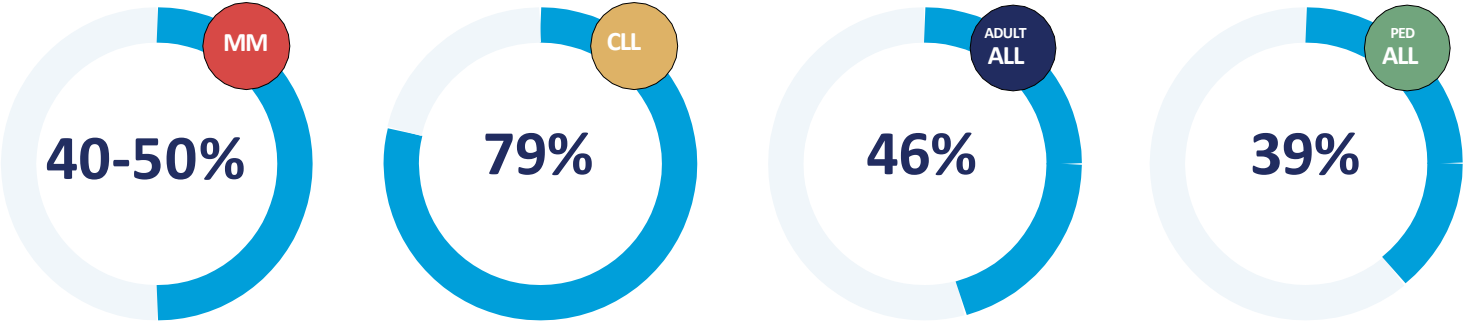
Variable Sensitivity • Low Specificity • Lack of Standardization  
Imprecise quantitation • Radiation exposure • Cost

<sup>1</sup> clonoSEQ is available for MRD assessment in DLBCL as a CLIA-validated laboratory developed test. clonoSEQ is FDA-cleared for MRD assessment in ALL, CLL and MM.



# How does clonoSEQ compare to MFC?

Percentage of patients who were MRD-negative by MFC but had residual disease by clonoSEQ



clonoSEQ detects disease that MFC cannot

## What it means

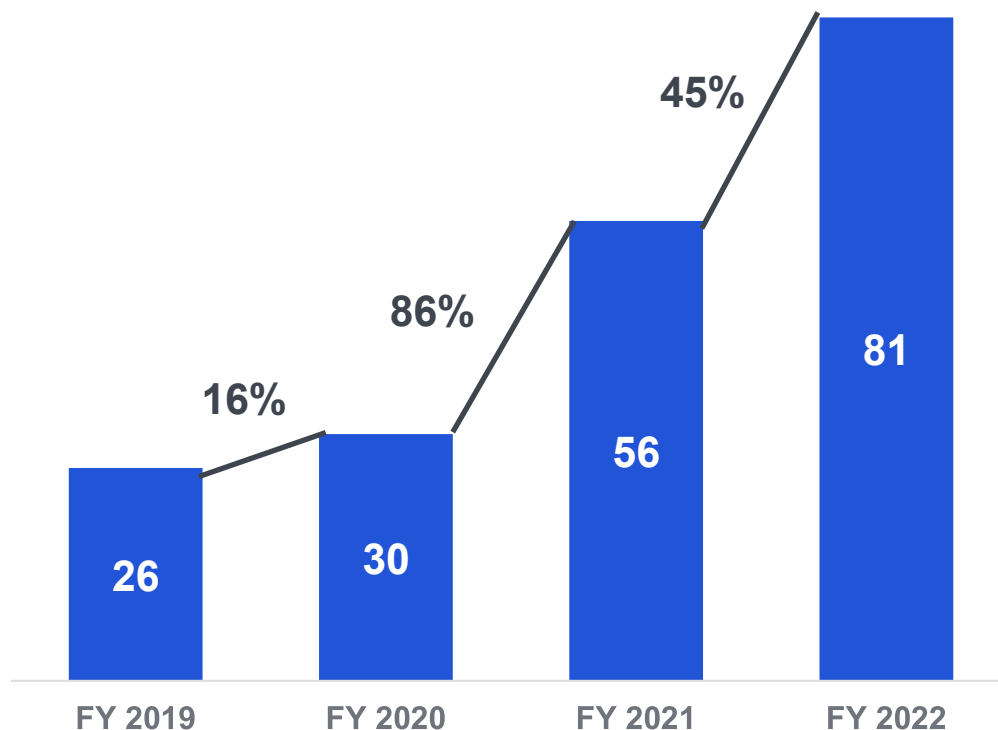
Many [patients] with apparent ‘MRD-negativity’ by MFC still relapse. These relapses are likely due to residual leukemia that is present below the level of detection of MFC.

-Short et al.

Short NJ, et al. Abstract presented at: the 62nd ASH Annual Meeting and Exposition; December 5-8, 2020.  
Avet-Loiseau H, et al. *Blood*. 2015;126(23):191.  
Short NJ, et al. *Blood Adv*. 2022;6(13):4006-4014.  
Wood B, et al. *Blood*. 2018;131(12):1350-1359.

# We are in early innings of penetration with significant opportunity to grow...

## MRD Business Revenue (\$M)<sup>1</sup>



Used in ~7% of lymphoid cancer patients in US<sup>2</sup>

Overall Pharma penetration of ~21%<sup>3</sup>

<sup>1</sup> Excludes regulatory milestones from pharma partners

<sup>2</sup> Incidence and prevalence from SEER database; 10 yr prevalence used for CLL and MM, 5 yr. prevalence used for ALL

<sup>3</sup> Penetration rate estimated based number of trials using clonoSEQ divided by the total number of all active trials in ALL, NHL, CLL and MM

# clonoSEQ is supported by a robust evidence base with significant commitment to additional data generation



***Peripheral blood ctDNA assessments can predict for progression events with added value to standard PET-CT scans***

Frank et al. JCO. 2021



***Durable MRD negativity lasting  $\geq 6$  or  $\geq 12$  months may represent yet a deeper level of response with a higher prognostic value***

San-Miguel et al. Blood. 2022



***MRD negativity is the most relevant predictor of clinical outcome compared with other prognostic factors for MM***

Cavo et al. Blood. 2021



***Minimal residual disease undetectable (uMRD) by next-generation sequencing predicts improved outcome in CLL after chemoimmunotherapy***

Thompson et al. Blood. 2019



***NGS MRD may provide more valuable prognostic information than RT-PCR for BCR::ABL1 and therapeutic decisions in Ph+ ALL may be better informed by also considering NGS MRD status***

Short et al. Am J Hematol. 2023

**BLOOD CANCER  
DISCOVERY**

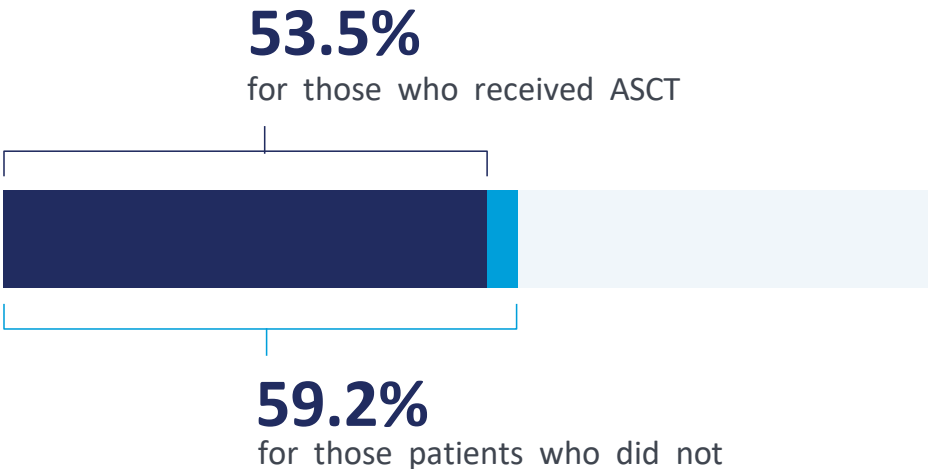
***The best biomarker described to date for determining risk of relapse at any given time throughout the first year after CAR-T cell therapy ... is NGS-MRD assessment of the marrow."***

Pulsipher et al. Blood Cancer Discovery. 2022

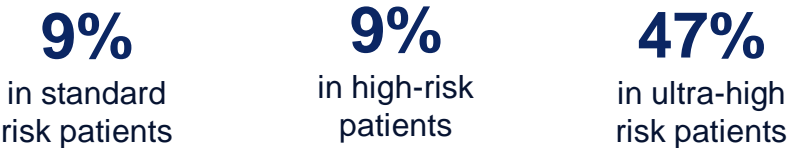
- >160 peer-reviewed publications supporting the expanding clinical utility of clonoSEQ and NGS MRD in Heme cancers
- >100 ongoing prospective studies in partnership with clinician investigators for data/evidence generation

# DETERMINATION and MASTER: Two recent trials that support personalizing treatment decisions based on MRD-negative status

DETERMINATION trial: Similar 5-year PFS for MRD-negative patients regardless of transplant decision



MASTER trial: 2-year progression for patients who stopped treatment based on 2 MRD-negative tests



## What it means

Emerging data show why you might consider personalizing treatment decisions based on MRD-negative status.

ASCT, autologous stem cell transplant;  
Dara-KRd, daratumumab + carfilzomib + lenalidomide + dexamethasone;  
NDMM, newly diagnosed multiple myeloma; RVD, lenalidomide + bortezomib + dexamethasone.

**About the studies**  
DETERMINATION was a phase 3 trial evaluating RVD alone or RVD + ASCT in patients with NDMM (n = 357). MRD was assessed by clonoSEQ ( $10^{-5}$ ) from the start of lenalidomide maintenance therapy in 108 patients in the RVD-alone group and 90 patients in the RVD + ASCT group.  
Richardson PG, et al. *N Engl J Med.* 2022;387(2):132-147.

MASTER was a multicenter, single-arm, phase 2 trial of patients with NDMM, conducted by Costa et al. Patients received Dara-KRd induction, ASCT, and Dara-KRd consolidation, according to MRD status. MRD was evaluated by NGS at the end of induction, post-ASCT, and every 4 cycles (maximum of 8 cycles) of consolidation. Primary endpoint was achievement of MRD negativity ( $10^{-5}$ ). Subjects with 2 consecutive MRD-negative assessments entered treatment-free MRD surveillance.  
Costa LJ, et al. *J Clin Oncol.* 2021;JCO2101935.

# clonoSEQ clinical testing is covered by Medicare and private payers for >300 million people in the U.S.



Medicare coverage is available nationally for myeloma, ALL, CLL, and DLBCL and includes assessment of MRD at multiple timepoints



Positive coverage policies in place from the largest national private insurers\*



Coverage for clinically relevant use in myeloma, ALL, and CLL, per commonly-used clinical practice guidelines



Based on policies published as of July 2022. Coverage may vary by specific provider or plan.  
\*Based on insurance coverage and prior to applying any Adaptive-provided financial assistance

# Expanding clonoSEQ utilization in lymphoid cancer patients

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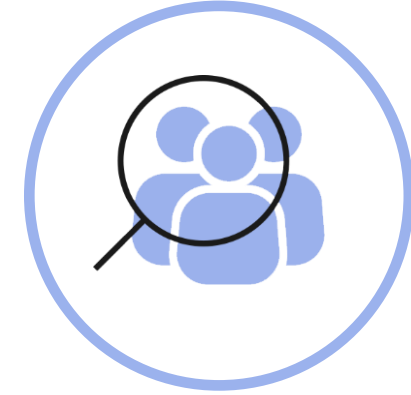
**Three-pronged strategy to increase penetration in heme MRD ...**



**Increase testing in blood**



**Expand into NHL**



**Increase usage per patient**

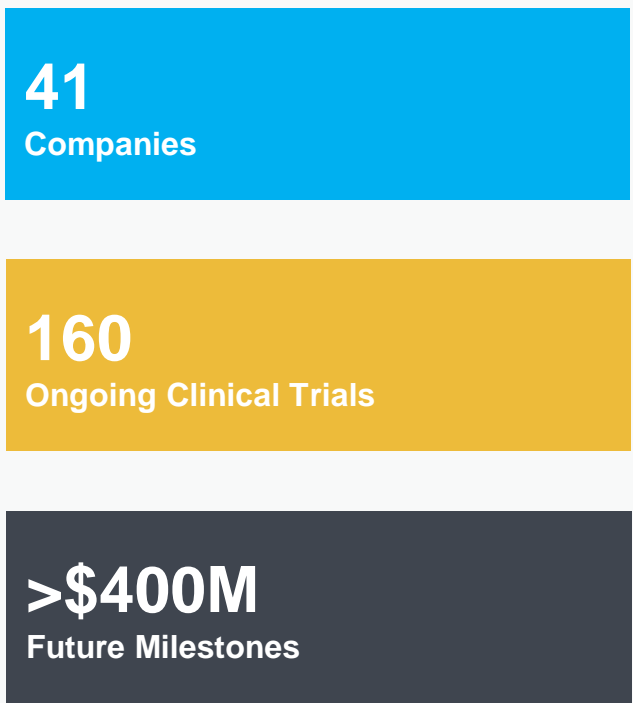
**... enhancing customer experience (EPIC integration), expanding coverage and increasing ASP**



# clonoSEQ is the test of choice for drug developers in heme cancers

Only FDA approved MRD test in heme cancers

## Portfolio overview

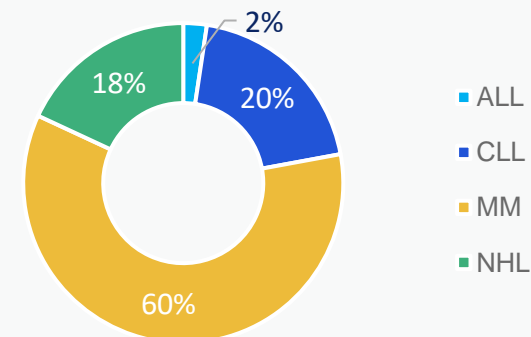


## Top ten accounts

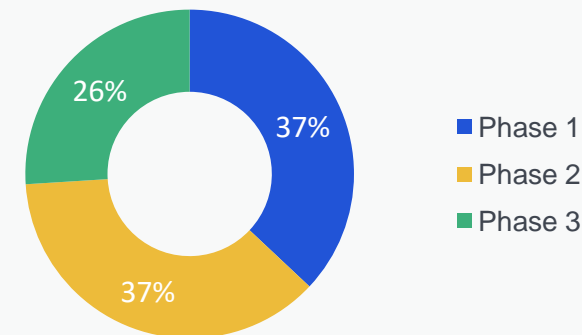


## Portfolio mix

By indication (\$ bookings)



By trial phase (number of studies)



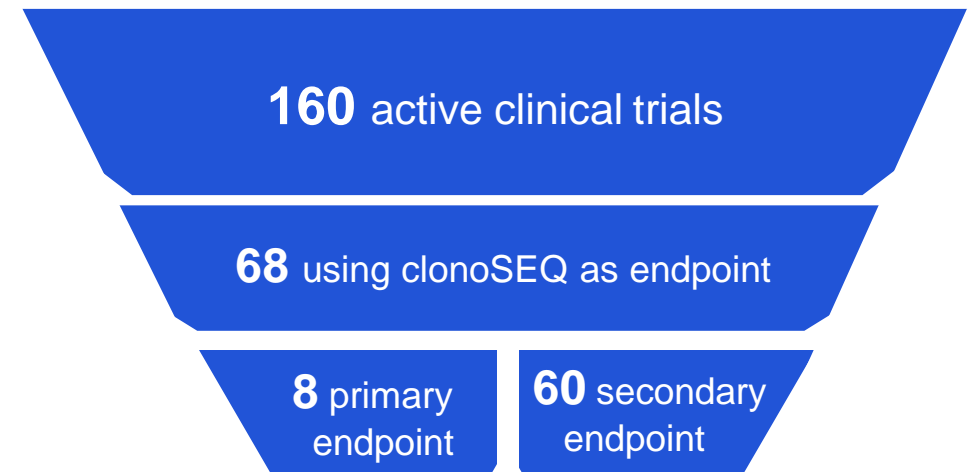
# clonoSEQ MRD, gold standard in drug trials, sees growing use as an endpoint

- Several recent FDA drug approvals contain data supporting clinical utility of MRD

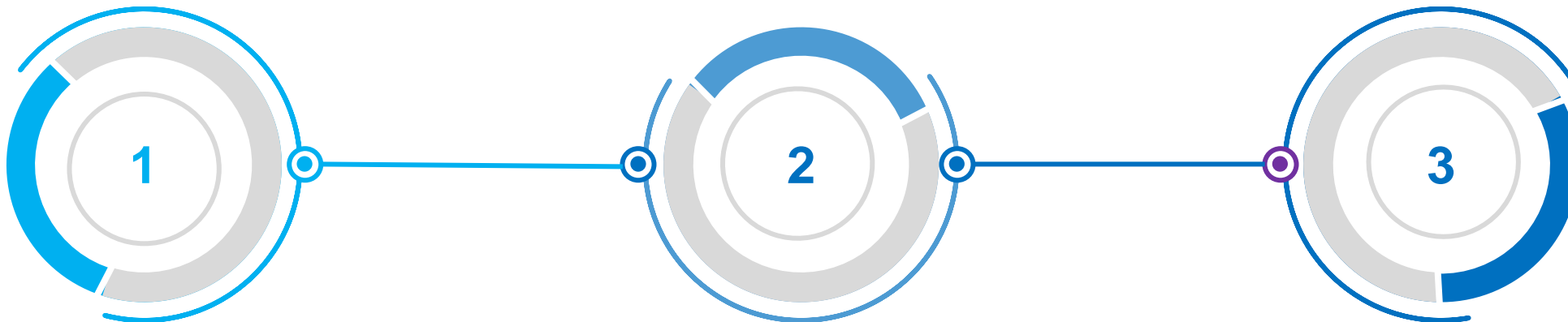


- ~\$400M in eligible regulatory milestones from active & future trials

## clonoSEQ MRD used as primary endpoint in 8 trials



# MRD business is well positioned to deliver strong revenue growth over time



## Competitive Advantages

- Sensitivity ( $10^{-6}$ )
- Breadth of published evidence
- FDA approved
- Broad payer coverage (US)
- Product of choice for pharma R&D
- Sample type flexibility

## External Catalysts

- Rich pipeline of new agents (bi-specifics, CAR-T, etc.) driving deeper responses
- Patients living longer as treatment choices advance
- NGS-MRD evolving as SOC in treatment algorithms across cancers
- FDA support for using NGS-MRD as an endpoint in trials

## Internal Catalysts

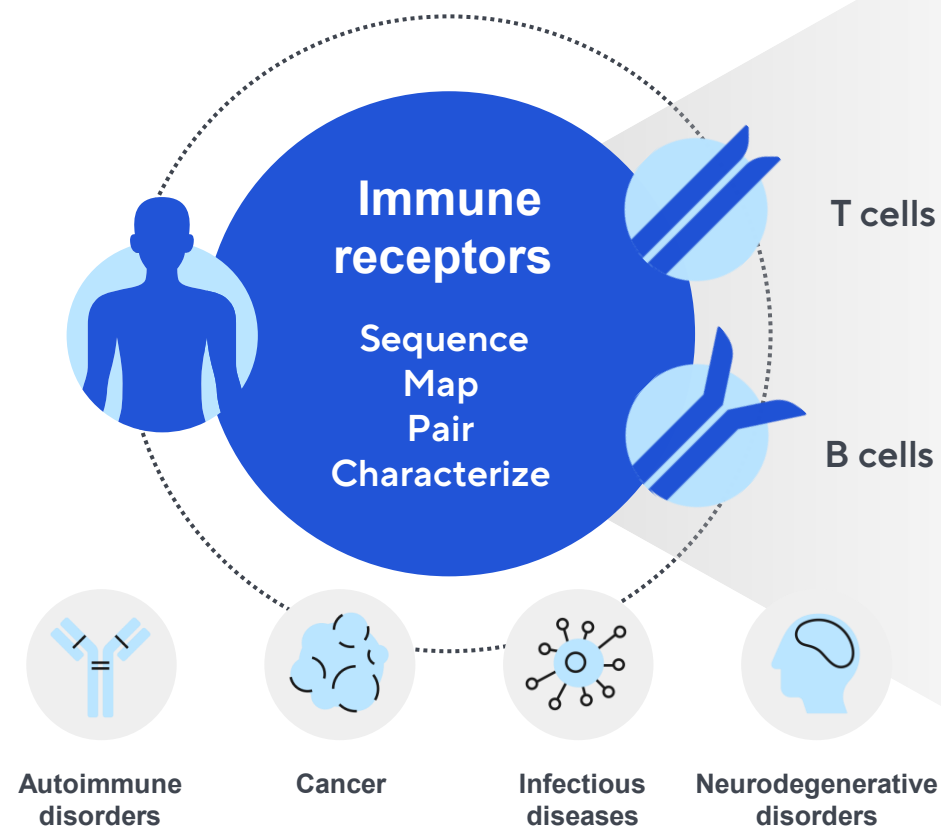
- Sales force expansion
- Continued investments in evidence generation studies
- Expansion of reimbursement coverage & RWE studies
- EMR (EPIC) integration
- Product enhancements



# Immune Medicine

# Immune Medicine business

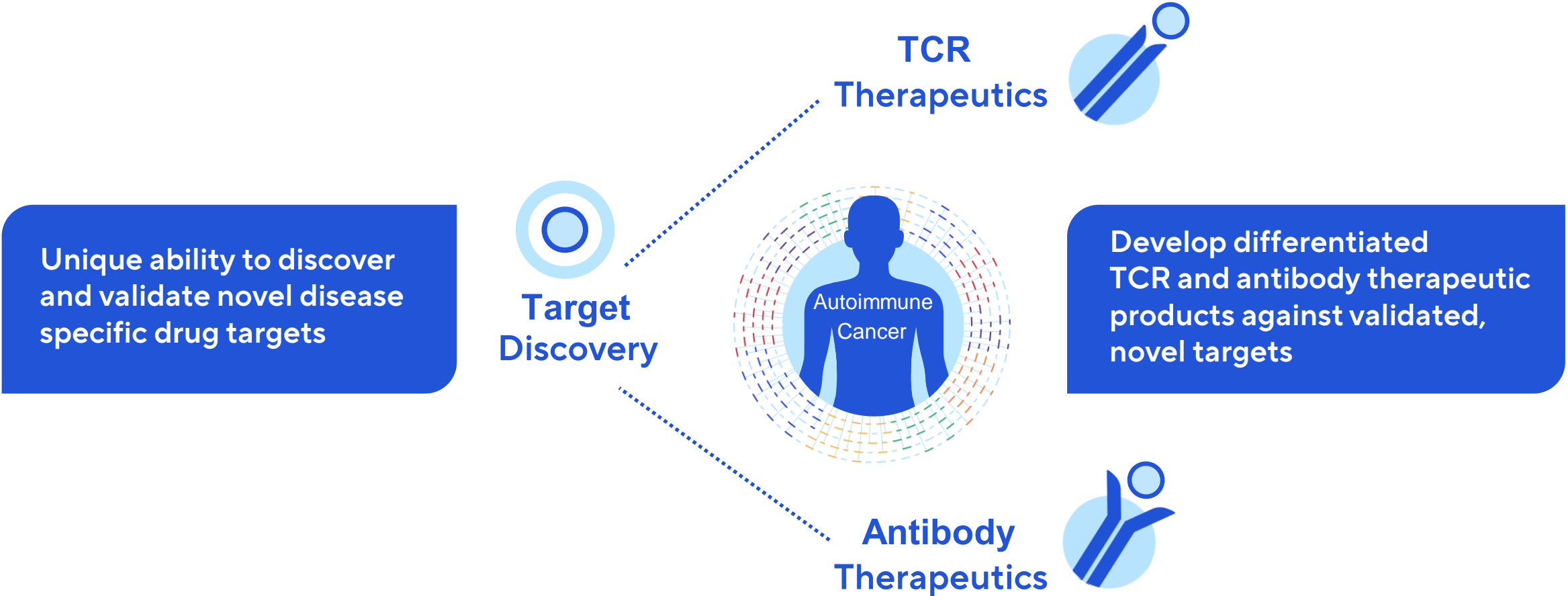
## Immune Medicine Platform



## Growth Areas

| Pharma Services            | Drug Discovery   |
|----------------------------|--|
| Immune receptor sequencing | Target Discovery<br>T-cell Therapeutics<br>Antibody Therapeutics |

# Drug Discovery combines novel target discovery and therapeutic assets





# Pharma Services growing portfolio across multiple indications

4+

Major therapeutic areas

500+

Total studies to date

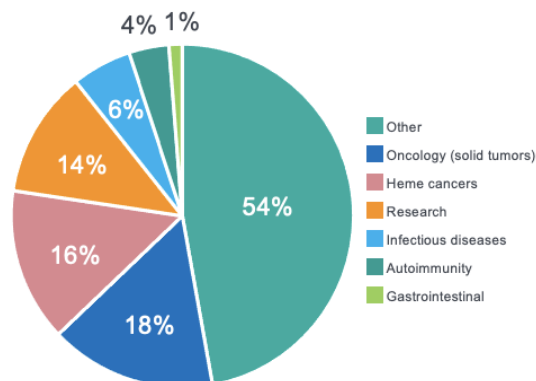
140

Total active studies

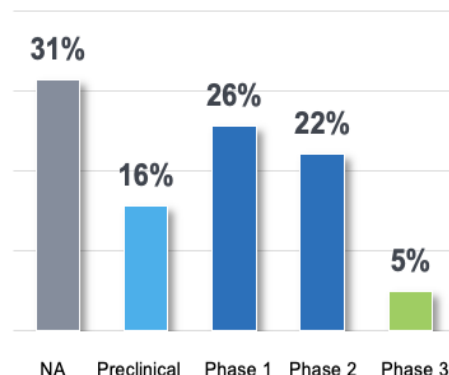
85+

Companies

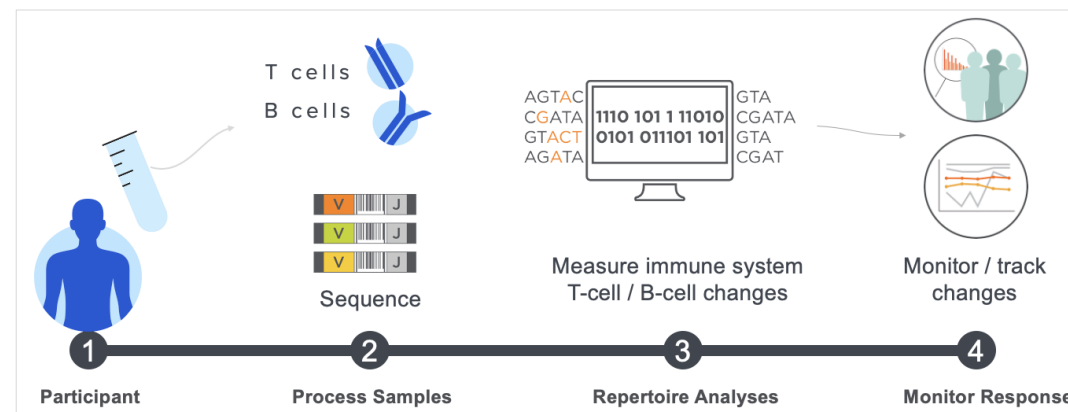
Portfolio mix by indication



Portfolio mix by study phase



Rich immune receptor biomarker data accelerates clinical trials



Growth drivers

- Scale companies / # of studies using sequencing
- Increase penetration in later stage trials and across indications

# Immune receptor data fuels our pipeline in cancer and autoimmune disease



Cancer

- Cell therapy in heme with early success
- Cell therapy in solid tumors is the next frontier

TCR  
Cell Therapy

Shared  
Private

Genentech  
A Member of the Roche Group



Autoimmune  
disorders

- Efforts underway to discover disease-specific targets
- Opportunity to bring precision medicine to patients with autoimmune diseases

Novel Targets

IBD, MS

TCR Tx

Antibody Tx

Against  
novel  
targets

Partner/(co)Develop

Partner/(co)Develop



# Cell Therapy in Oncology; Partnership with Genentech

- Cell therapies showing great efficacy
  - Limited to surface markers only
- T-cell receptors are cancer specific
- Our platform generates highly potent TCRs against cancer antigens



- Characterize TCRs against cancer antigens for cellular therapy
  - Shared Products
  - Private Products
- Ability to pursue partnerships outside of oncology

**\$300M**

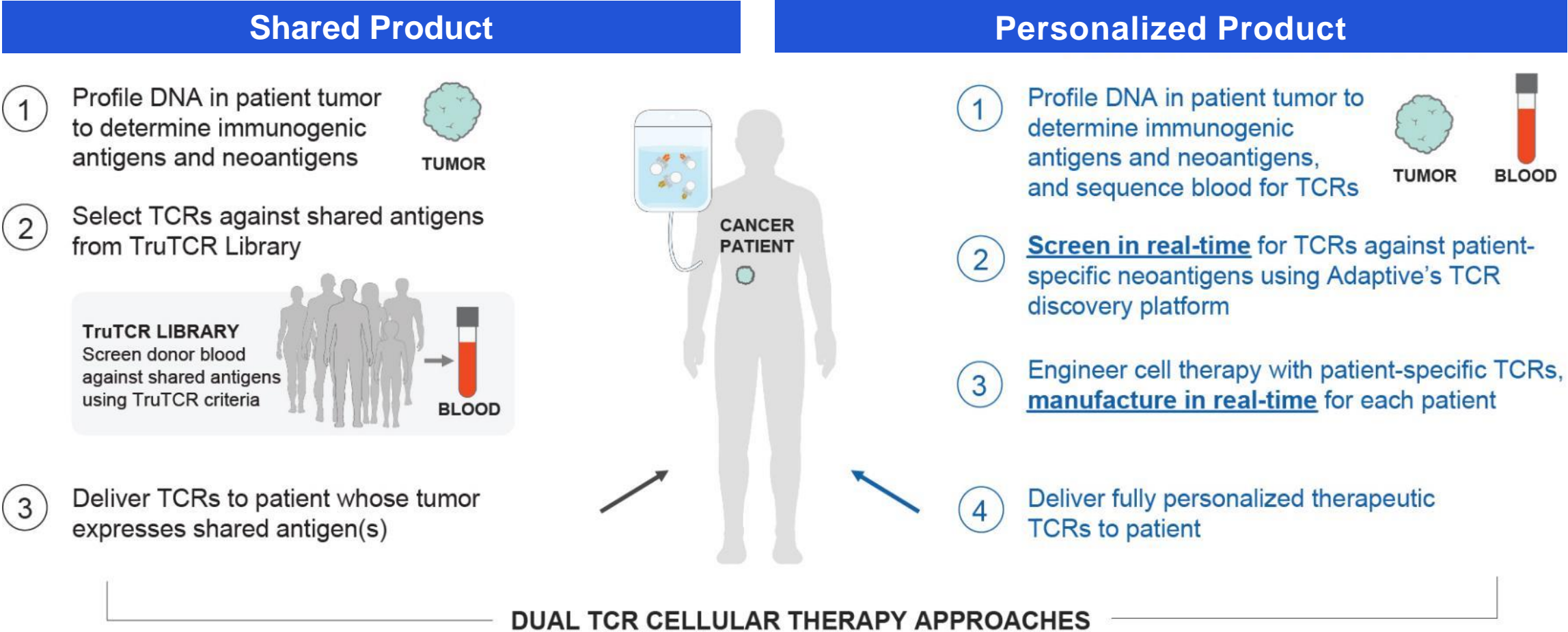
Upfront payment

**\$1.8B**

In milestone payments

**Royalties in mid-single digit to upper-teen range**

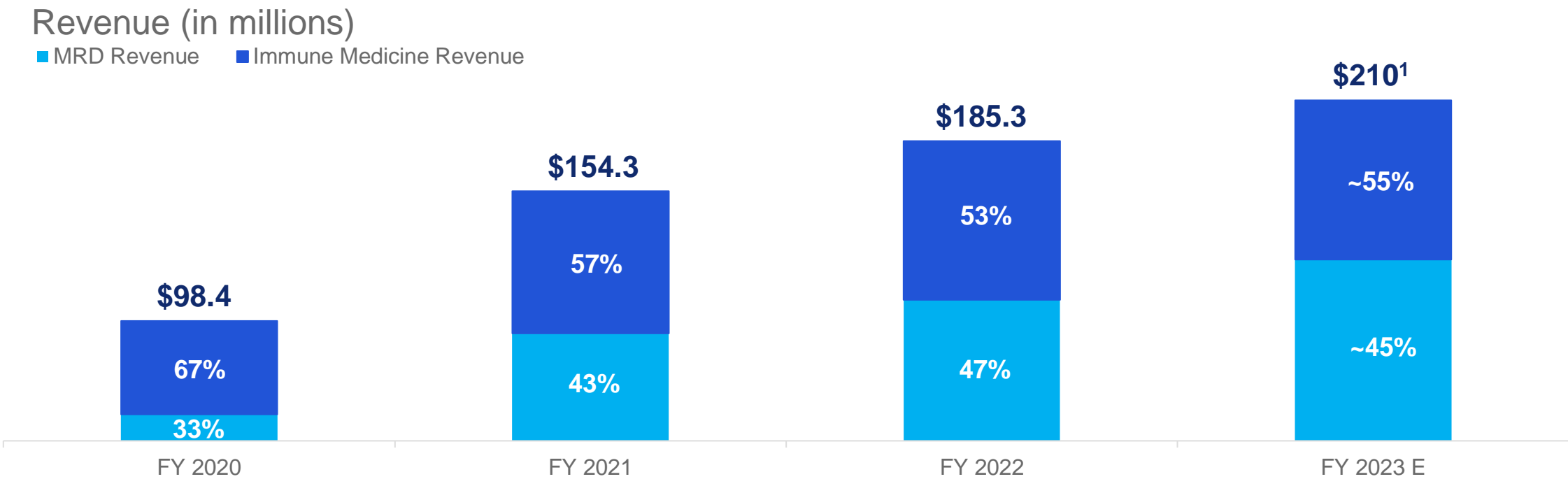
# Developing novel neoantigen directed T-cell therapies





# Financials

# Financial Highlights



- ~\$417 million in cash, cash equivalents and marketable securities as of 06/30/2023
- No debt

Note: bar charts not at scale  
<sup>1</sup> Mid-point of guidance range \$205M-\$215M as of 06-30-23



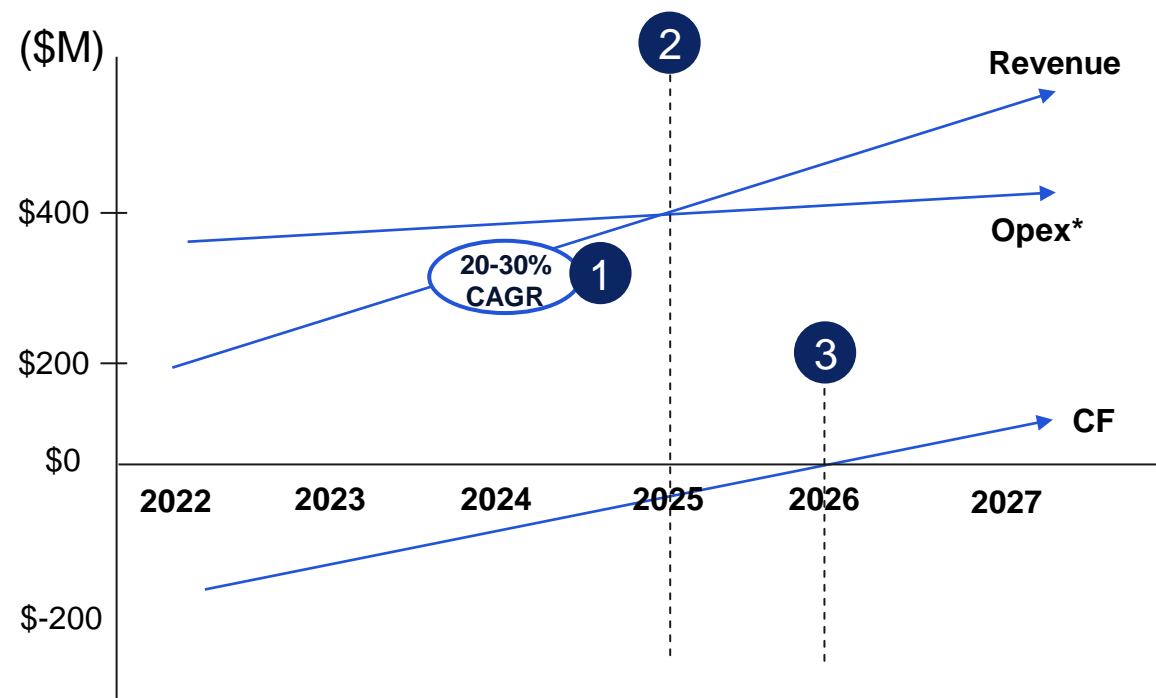
# Long-term expectations

## Path to Profitability / Cash Flow breakeven

- 1 Revenue CAGR from 2022-2027 to be 20-30%
  - 2019-2021 CAGR of 35%
- 2 Adj EBITDA<sup>1</sup> positive 2025
  - Prudent spend management: maintain operating expenses levels at low growth
- 3 Cash Flow Breakeven 2026
  - \$417M cash, cash equivalents and marketable securities as of 6/30/23
  - Cash on hand >3 years

<sup>1</sup> Adjusted EBITDA excludes stock comp

## Estimated 5 yrs P&L progression



\* Opex in this chart excludes stock comp, depreciation and amortization  
Chart not at scale