

# Company Presentation

January 2025



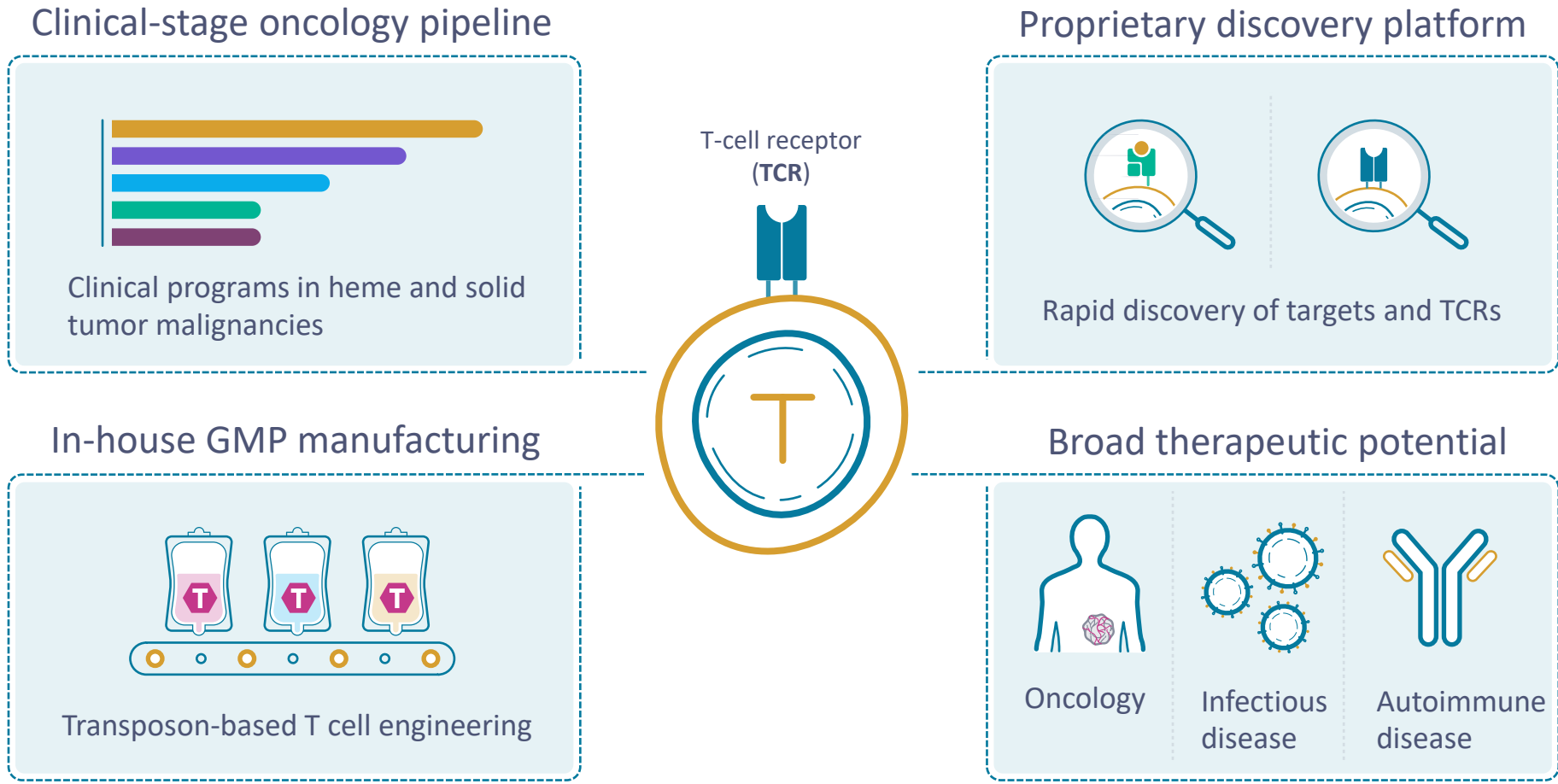
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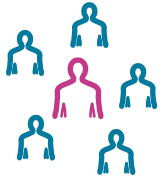
TScan's plans relating to developing and commercializing its TCR-T therapy candidates, if approved, including sales strategy; estimates of the size of the addressable market for TScan's TCR-T therapy candidates; TScan's manufacturing capabilities and the scalable nature of its manufacturing process; TScan's estimates regarding expenses, future milestone payments and revenue, capital requirements and needs for additional financing; TScan's expectations regarding competition; TScan's anticipated growth strategies; TScan's ability to attract or retain key personnel; TScan's ability to establish and maintain development partnerships and collaborations; TScan's expectations regarding federal, state and foreign regulatory requirements; TScan's ability to obtain and maintain intellectual property protection for its proprietary platform technology and our product candidates; the sufficiency of TScan's existing capital resources to fund its future operating expenses and capital expenditure requirements; and other factors that are described in the "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of TScan's most recent Annual Report on Form 10-K and any other filings that TScan has made or may make with the SEC in the future.

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# TScan is a fully integrated, next-generation TCR-T cell therapy company



# TScan is building on the remarkable success of immunotherapy



**Checkpoint & TIL therapy**  
Rejuvenating and expanding a patient's existing T cells

✓ Proven efficacy in solid tumors

✓ Full range of targets seen by immune system

✗ Most patients lack anti-cancer T cells and do not respond

✗ Limited applicability to heme malignancies to date

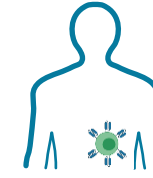
**TCR-T therapy**  
Engineering T cells to express natural T cell receptors

✓ Promising efficacy in solid tumors

✓ Full range of targets seen by immune system

✓ T cells engineered with natural anti-cancer TCRs

✓ Promising efficacy in heme malignancies



**CAR-T therapy**  
Engineering T cells with a synthetic receptor

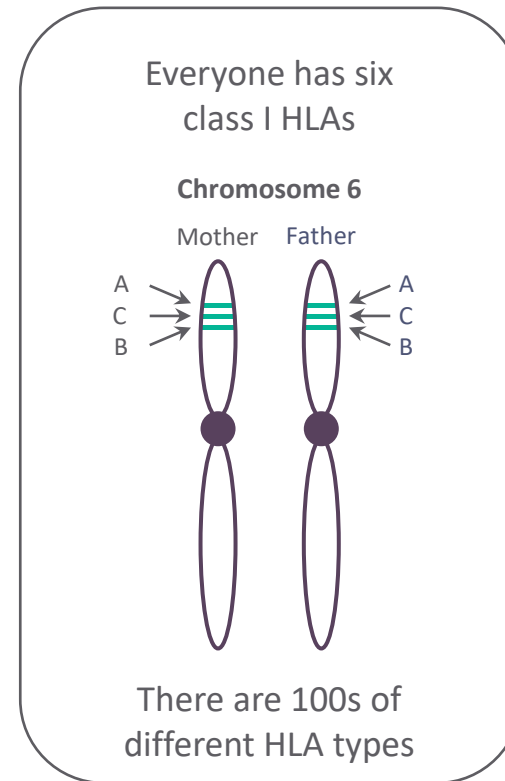
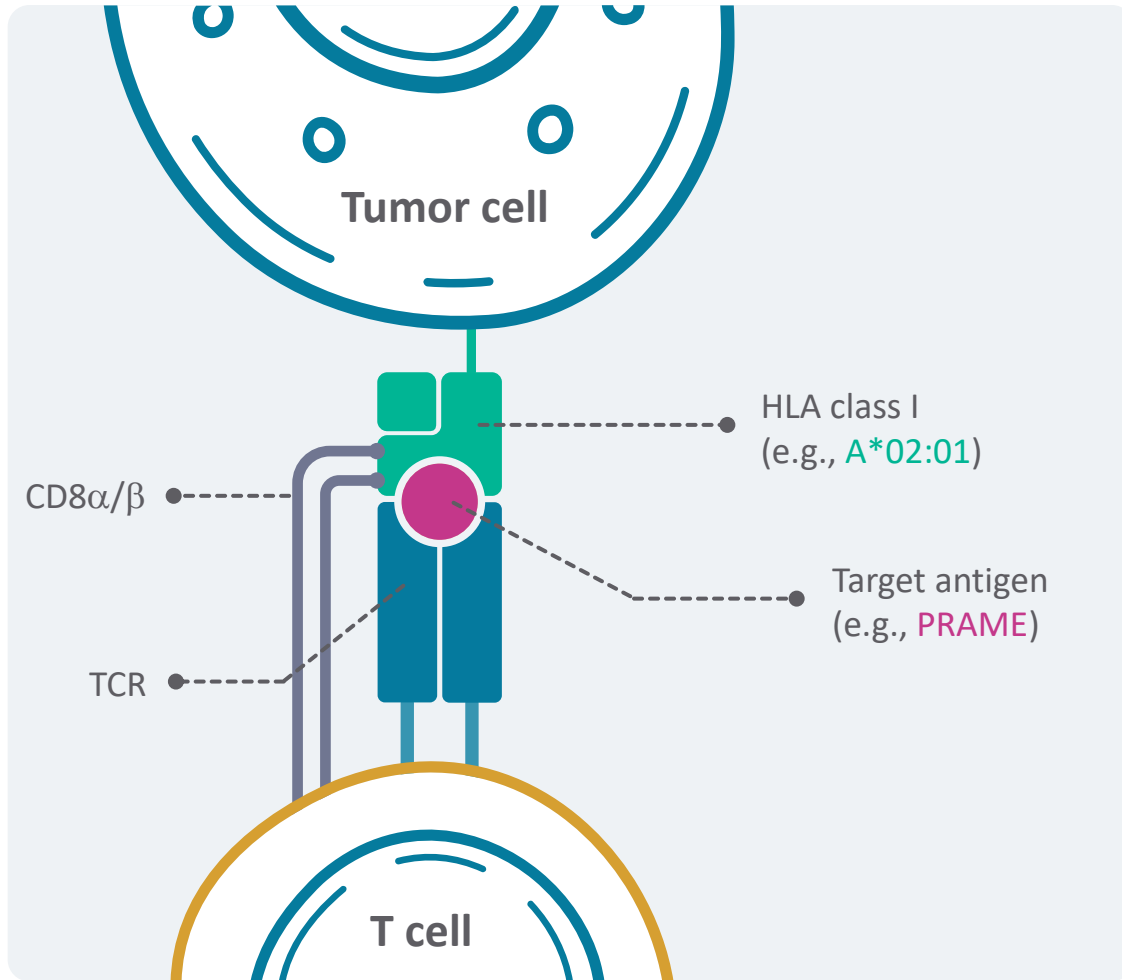
✗ Poor solid tumor penetration

✗ Limited to cell surface antigens

✓ T cells engineered with potent targeting receptors

✓ Proven efficacy in heme malignancies

# TScan is targeting the most frequent human leukocyte antigens (HLAs) to address a broad patient population

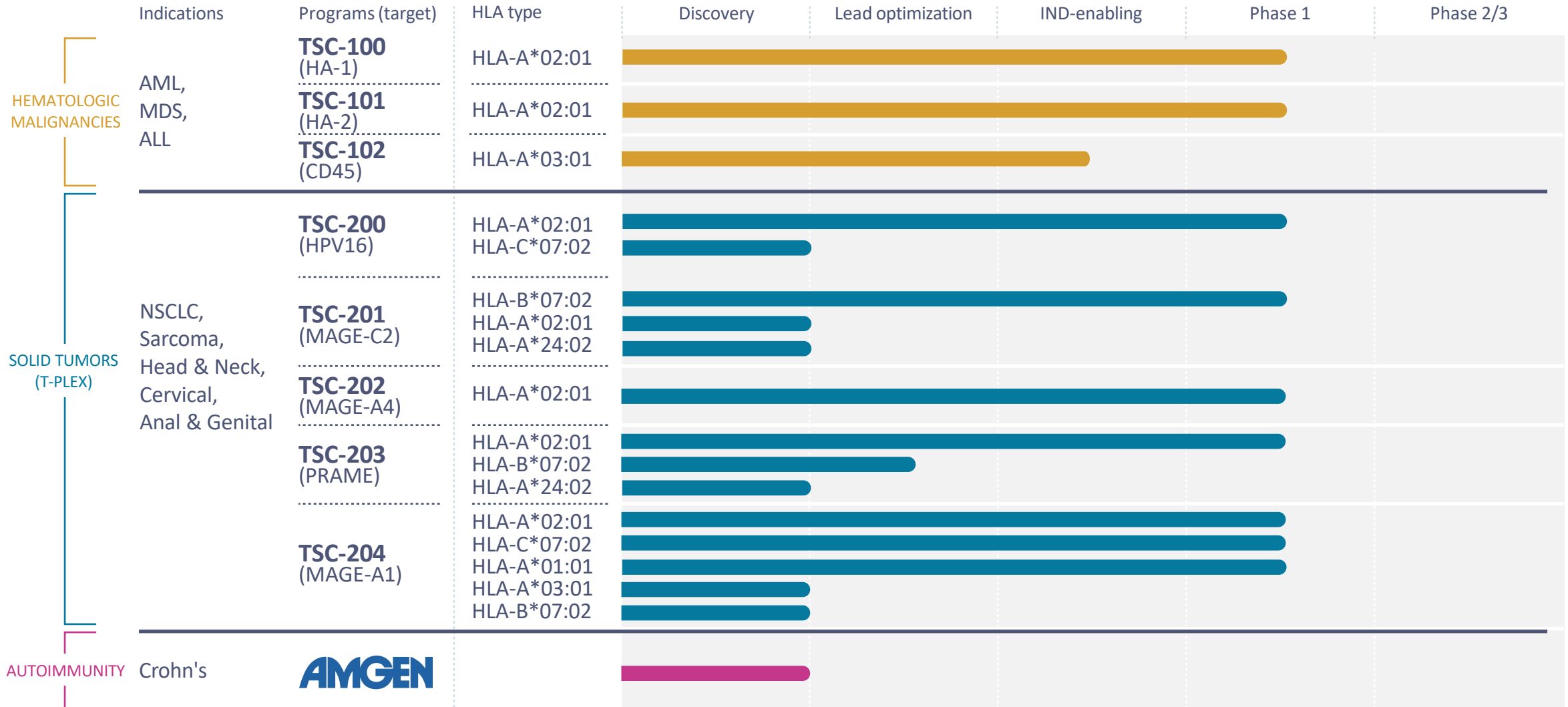


~90% of people in the U.S. are positive for at least one of the top six HLA types\*

% people positive for each HLA type			
HLA type	United States	Europe	Asia
A*02:01	42	47	19
A*01:01	24	26	14
A*03:01	22	25	7.0
B*07:02	20	21	8.1
C*07:02	24	23	24
A*24:02	17	19	37

Most TCR-T companies only target **one** HLA (A\*02:01)  
**TScan** is developing a broad pipeline targeting the top **six** HLAs

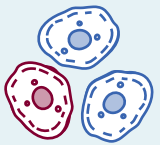
# Nine TCR-T candidates in clinical development, with new TCR-Ts advancing



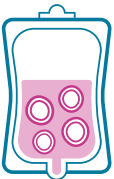
# Heme Malignancies: TSC-100, TSC-101, TSC-102-A0301

*Targeting residual disease to prevent relapse  
in patients undergoing allogeneic HCT*

# Relapse after hematopoietic cell transplant remains an unmet need

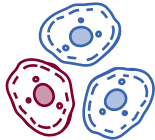


**AML, MDS, some ALL** is not addressed by CAR-T due to shared antigens with normal blood cells

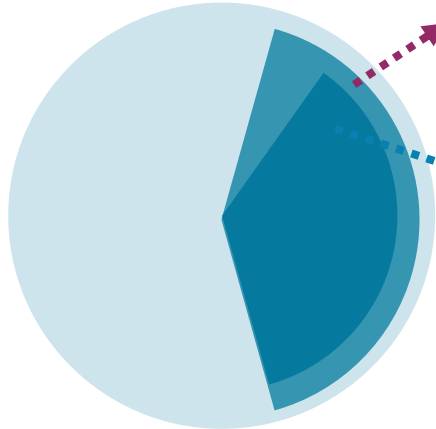


**Allogeneic hematopoietic cell transplant (HCT)** expected to remain standard of care

Allo-HCT creates a unique opportunity to safely target residual cancer cells while sparing normal blood cells



**38-44% of patients relapse within two years following RIC-Allo-HCT<sup>1</sup>**



Of those who relapse, **>80%** die within two years<sup>2</sup>

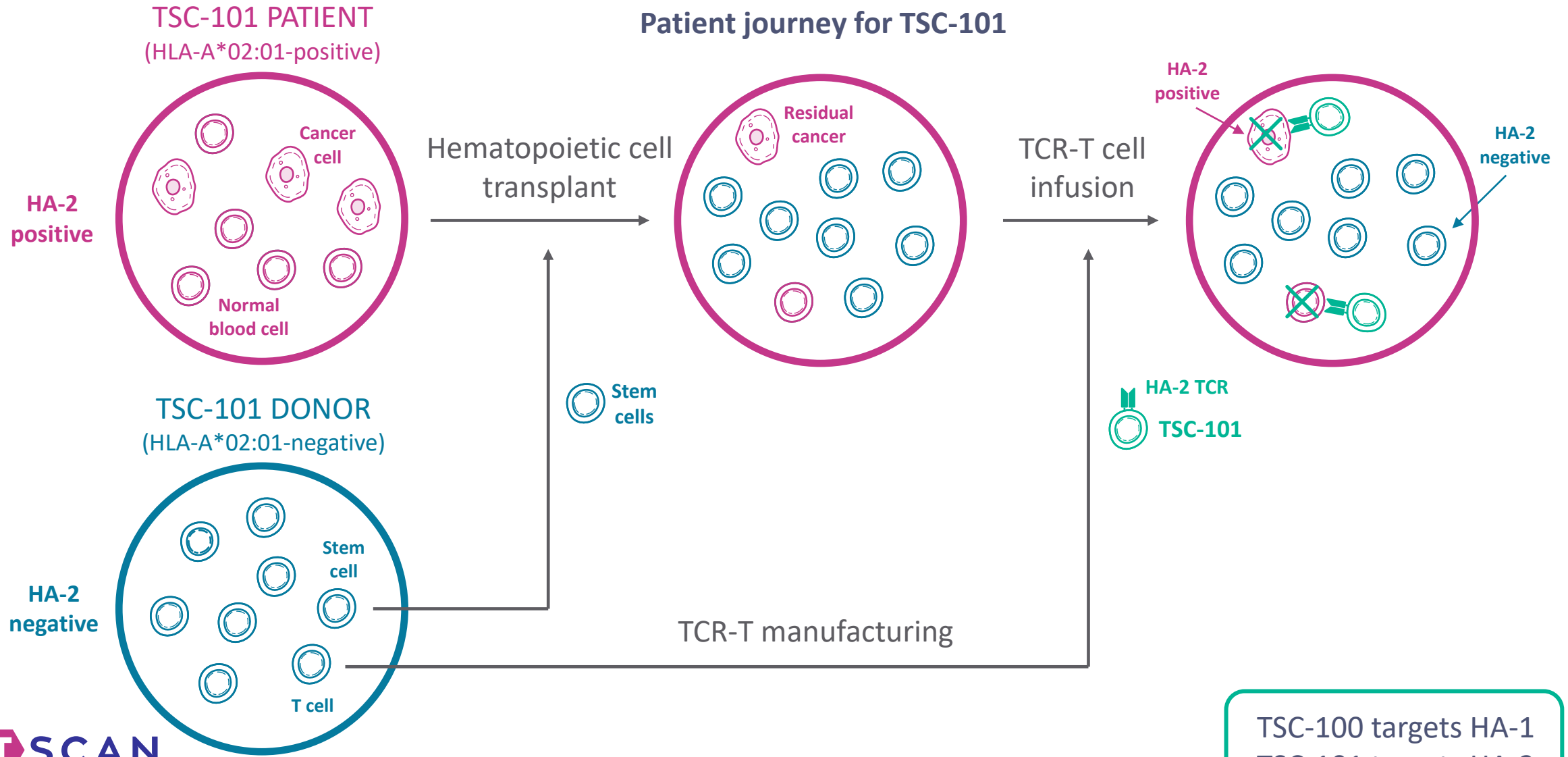
Targeting antigens mismatched between patients and donors can potentially prevent relapse after allo-HCT

1. CIBMTR analysis of AML, ALL, MDS allogeneic transplants with reduced intensity conditioning (RIC) between 2017-2019 with 2-year follow-up  
2. Schmid, Blood 2012, Spyridonidis, Leukemia 2012, Schmid, Haematologica 2018



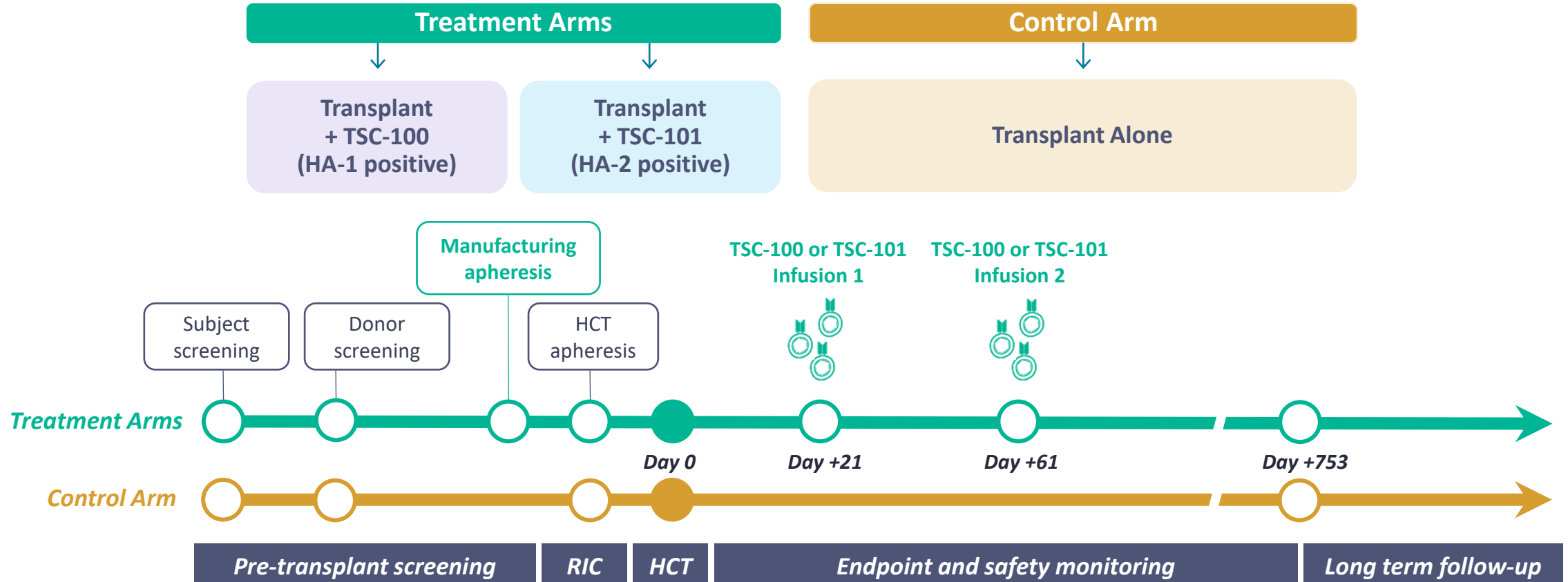
# TSC-100 and TSC-101 are adjuvant TCR-T cell therapies designed to eliminate residual cancer and prevent relapse following HCT

## Patient journey for TSC-101



TSC-100 targets HA-1  
TSC-101 targets HA-2

# ALLOHA™, a multi-arm Phase 1 trial for TSC-100 & TSC-101 in subjects with AML, ALL, and MDS (NCT05473910)



### Key eligibility criteria

- Age  $\geq 18$  years
- Undergoing first allo-HCT for ALL, AML, MDS
- Subject positive for HA-1 (or HA-2) with a haploidentical HA-1 (or HA-2) negative donor
- Eligible for RIC-HCT followed by PTCy for GvHD prophylaxis

### Key endpoints

- Safety: Dose limiting toxicities, adverse events
- Efficacy
- Exploratory endpoints: Donor chimerism, minimal residual disease

# Majority of subjects in the treatment and control arms are at high risk for relapse

		TSC-100	TSC-101	Any TSC	Control
<b>Subjects Enrolled and Assigned</b>		14	12	26	13
<b>Subjects Transplanted (efficacy data cohort)</b>		14	12	26	12
<b>Subjects Infused (safety data cohort)</b>		10	12	22	N/A*
<b>Median Time of Follow Up, months</b>		4.0 (0-19)	6.4 (1-21)	5.1 (0-21)	7.1 (1-25)
<b>Age, Median (Range)</b>		69 (39-76)	66 (52-74)	67 (39-76)	66 (23-74)
<b>Sex, Male (n, %)</b>		10 (71%)	7 (58%)	17 (65%)	6 (46%)
<b>Underlying Disease</b>	ALL	2 (14%)	2 (17%)	4 (15%)	0 (0%)
	AML	10 (71%)	7 (58%)	17 (65%)	8 (62%)
	MDS	2 (14%)	3 (25%)	5 (19%)	5 (38%)
<b>Genetics/Cytogenetics</b>	<b>TP53 Mutated</b>	<b>4 (29%)</b>	<b>2 (17%)</b>	<b>6 (23%)</b>	<b>2 (15%)</b>
	FLT3 Mutation	2 (14%)	0 (0%)	2 (8%)	5 (38%)
	Adverse Risk**	11 (79%)	10 (83%)	21 (81%)	8 (62%)
<b>Pre-HCT MRD Positive***</b>		8 (57%)	5 (42%)	13 (50%)	7 (54%)
<b>MRD Positive or Adverse Risk Genetics</b>		<b>11 (79%)</b>	<b>10 (83%)</b>	<b>21 (81%)</b>	<b>10 (77%)</b>

\*Control subjects that received transplant are included in the safety data cohort

\*\*Adverse risk is defined as having either a IPSS-M mutation if the subject has MDS or European Leukemia Network (ELN) high risk genetics or cytogenetics for AML; ELN 2022 high risk genetics/ cytogenetics include mutated ASXL1, BCOR, EZH2, RUNX1, SF3B1, SRSF2, STAG2, U2AF1, ZRSR2, TP53, -5/ del(5q)/, -7,-17/ abn(17p), t(6;9), t(v;11q23.3), t(9;22), t(8;16), inv(3) or t(3;3), t(3q26.2;v), monosomal or complex karyotype (for AML); IPSS-M mutations are reported in Bernard et al, NEJM Evid, 2022 (for MDS)

\*\*\*MRD measured by flow cytometry (lower limit of detection 0.1-1%) or NGS (lower limit of detection 0.05-0.1% in myeloid and 0.001-0.01% in lymphoid malignancies).

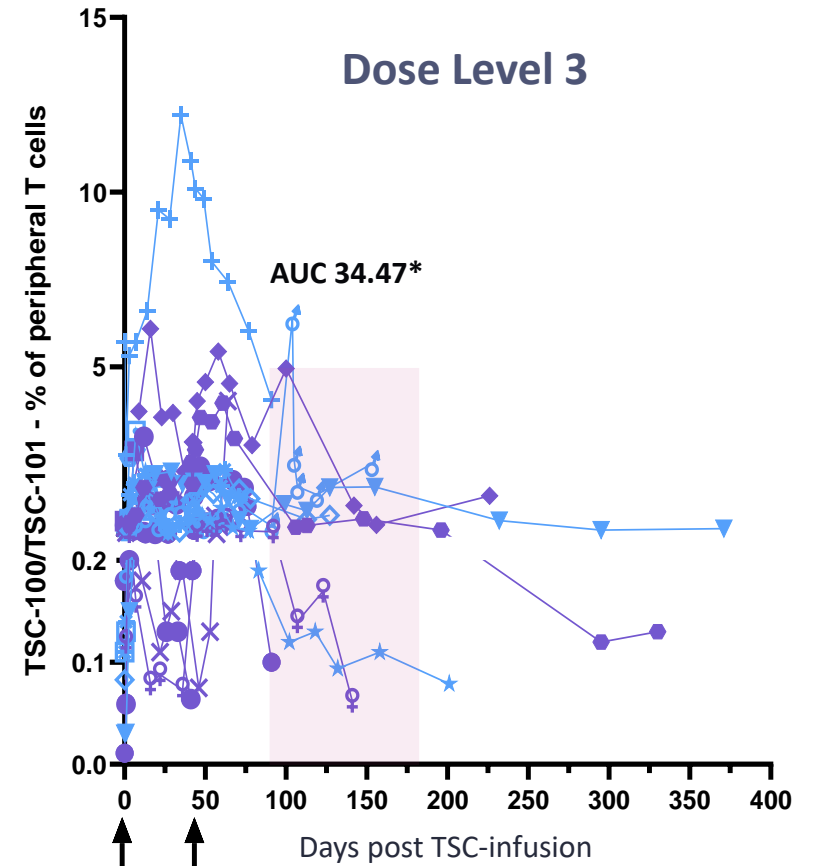
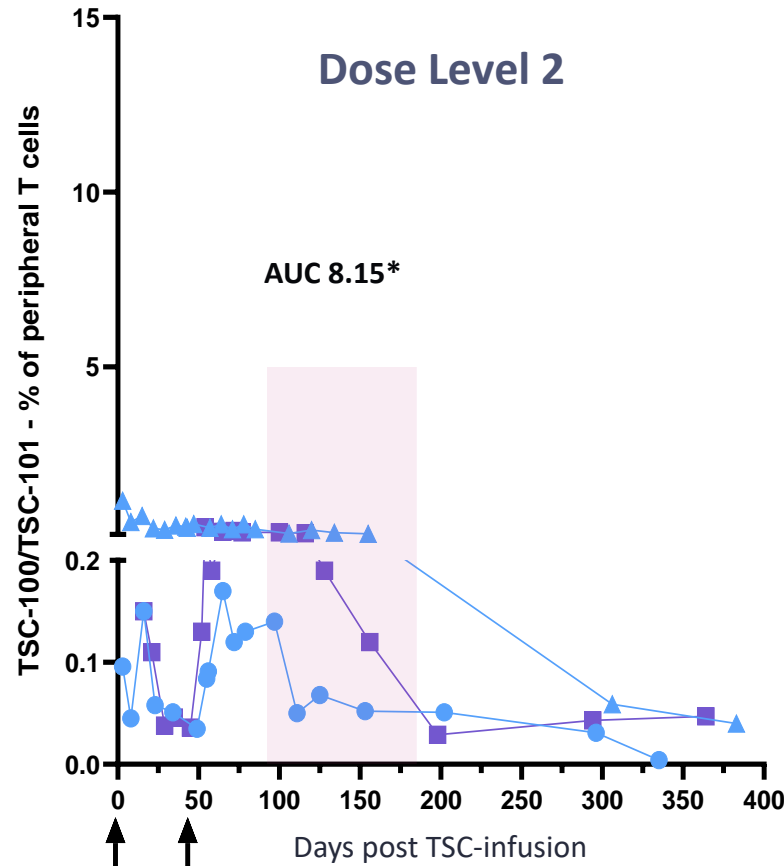
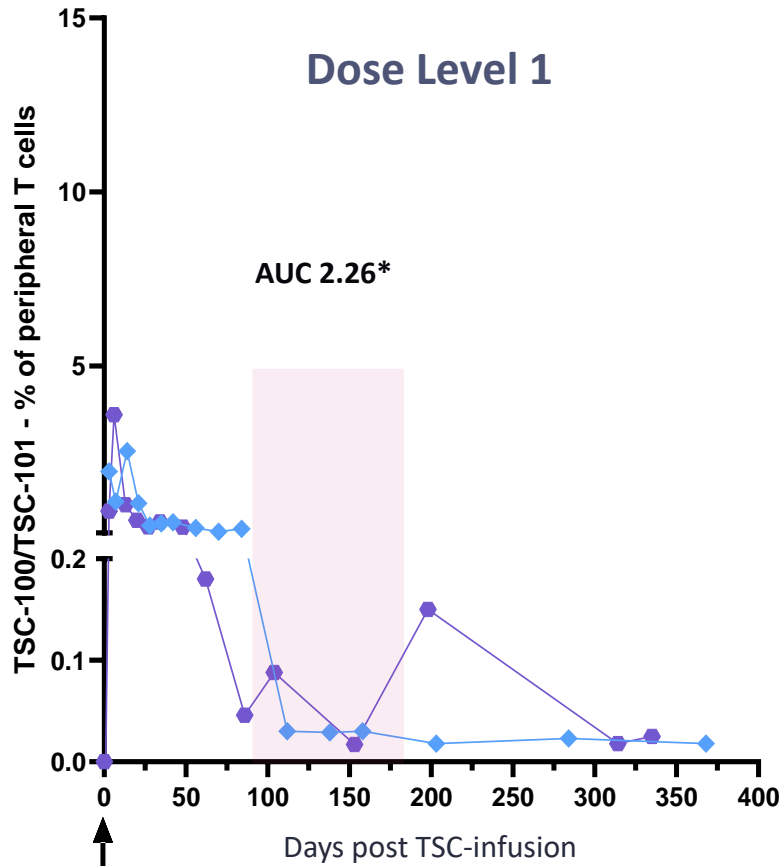
# Subjects treated at all three dose levels with no dose-limiting toxicities

Dose Level	Planned Day of Infusion Post HCT		TSC 100 N=10	TSC 101 N=12
	+21	+61		
DL1	5×10 <sup>6</sup> TCR-T cells/kg	N/A	1	1
DL2	5×10 <sup>6</sup> TCR-T cells/kg	5×10 <sup>6</sup> TCR-T cells/kg	1	2
DL3	5×10 <sup>6</sup> TCR-T cells/kg	20×10 <sup>6</sup> TCR-T cells/kg	8	9

# TSC-100 and TSC-101 TCR-T cells detected for over one year with increased persistence seen at highest dose level (DL3)

TSC persistence over time

■ TSC-100  
■ TSC-101



\*AUC of TSC-100/TSC-101 between Day 90-180 (Geometric mean(geometric CV)): DL1: 2.26(47.2%); DL2 and sDL2: 8.15(42.2%); DL3 and sDL3: 34.47(97.7%). Dose did not meet target dose criteria in supplemental dose level cohorts (sDL)

As of Nov 20, 2024 data cut

# Adverse events of special interest were low grade and manageable

Adverse Event of Special Interest*	TSC-100 n=10	TSC-101 n=12	Any TSC n=22	Control n=12
<b>Any Acute GvHD**</b>	5 (50%)	6 (50%)	11 (50%)	4 (33%)
Grade II - IV	0 (0%)	2 (17%)	2 (9%)	3 (25%)
Grade III - IV	0 (0%)	1 (8%)	1 (5%)	2 (17%)
<b>Any CRS</b>	4 (40%)	8 (67%)	12 (57%)	6 (50%)
Grade 1 - 2	4 (40%)	8 (67%)	12 (57%)	6 (50%)
Grade 3 - 4	0 (0%)	0 (0%)	0 (0%)	0 (0%)
<b>Treatment-emergent CRS</b>	1 (10%)	1 (8%)	2 (9%)	NA
Grade 1 - 2	1 (10%)	1 (8%)	2 (9%)	NA
Grade 3 - 4	0 (0%)	0 (0%)	0 (0%)	NA
<b>Any ICANS</b>	0 (0%)	0 (0%)	0 (0%)	0 (0%)

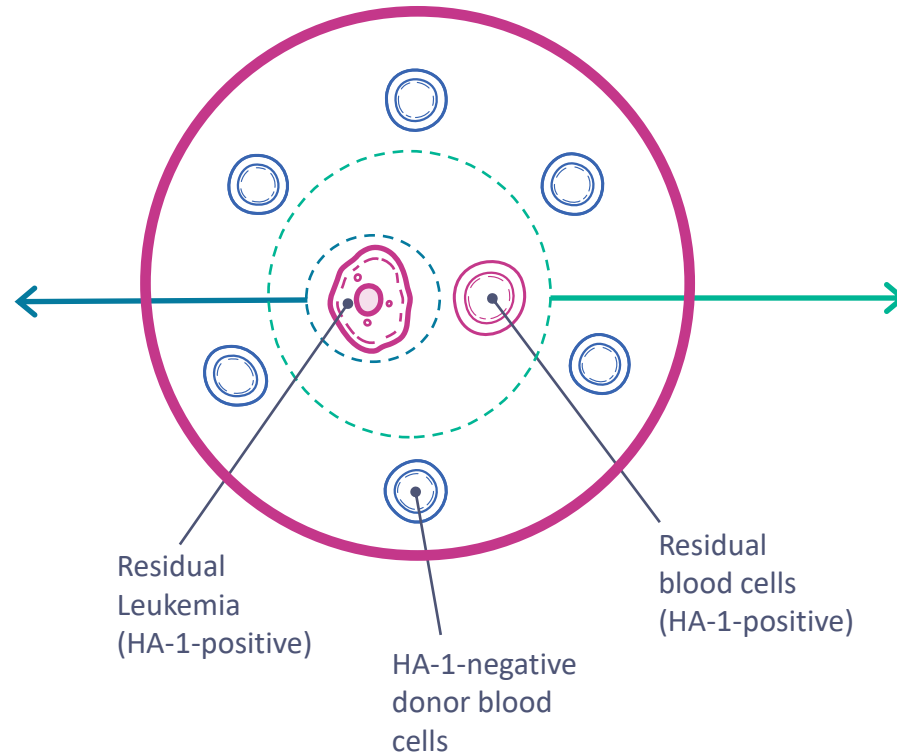
- Balanced Grade II – IV acute GvHD between treatment and control arms
- No cases of moderate or severe chronic GvHD
  - One case each of mild chronic GvHD in the treatment and control arms
- Two episodes of low-grade CRS reported post TSC infusions
  - One Grade 1 event (TSC-100) and one Grade 2 event (TSC-101)
- No cases of ICANS

# Key biomarkers for residual leukemia or residual patient-derived blood cells serve as potential early surrogates of efficacy

## Minimal Residual Disease (MRD)

MRD+: high risk of relapse  
MRD-: low risk of relapse<sup>1, 2</sup>

## Post-transplant Patient



## Donor Chimerism

Mixed: high risk of relapse  
Complete: low risk of relapse<sup>3</sup>

1. Craddock, J Clin Oncol, 2021  
2. Loke, ASH, 2021

3. Lindhal, Bone Marrow Transpl, 2022

# Complete donor chimerism achieved in all patients after initial TSC infusion

TSC-100/TSC-101 Treatment-arm subjects

Control-arm subjects

Time post HCT	Infused with TCR-T cells																																				
	101 DL1	100 DL1	101 DL2s <sup>‡</sup>	100 DL2	101 DL2	100 DL3	101 DL3s <sup>‡</sup>	100 DL3	101 DL3	100 DL3	101 DL3	100 DL3	101 DL3	100 DL3	101 DL3	100 DL3	101 DL3	100 DL3	101 DL3	100 n/a	101 n/a	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12				
	MDS	T-ALL	AML	AML	B-ALL	AML	B-ALL	MDS	MDS	AML	AML	AML	MDS	AML	AML	AML	AML	AML	B-ALL	MDS	AML	AML	MDS	MDS	MDS	AML	AML	AML	AML	AML	AML	MDS	MDS	AML			
Day 21/28	✓	✗	✓	✓	✓	✗	✓	✗	✗	✓	✗	✓	✓	✓	✓	✗	✓	✓	✓	✗	✓		✗	✗	✗	✗	✗	✓	⊗	✗	✓	✓	✗	✓			
Day 42	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	✓				
Day 56	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✓	✗	✓	✓	✓	✓	✓	✗	✓				
Day 77	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗	⊗	✓	✓	✓	✗	✓	✓	Relapse	✓	✗	✗	✓				
Day 105	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗	✗			
Day 133	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Relapse	⊗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✓	✓	✗	✗	Relapse	Relapse	Relapse	Relapse			
Day 161	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Relapse	✓	✗	✓	✓	✓	✓	✓	✗	✗	✗			
Day 228	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Relapse	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Day 318	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Day 388	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Mths 14-24		⊗																																			✗



- TSC-100/101 Infusion
- Complete donor chimerism
- Mixed donor chimerism
- Clinical intervention for increasing mixed chimerism
- Relapse
- Death from relapse
- Death unrelated to relapse or TSC

Donor chimerism results using commercially available **short tandem repeat (STR) assay** with LOD of 1-2% at indicated times post-HCT ± 3 days in patients at least 60 days post-HCT as of data cut; ‡Dose did not meet target dose criteria in supplemental cohorts



# Unusual circumstances for both subjects who relapsed post TCR-T cell infusions

## TSC-101 Dose Level 3

- 65 y/o male with AML
- Did not respond to induction chemotherapy (4% blasts)
- *Taken to transplant after reinduction chemotherapy without achieving CR<sup>1</sup>*
- Died Day 129 post transplant with suspected relapse

## TSC-100 Dose Level 3

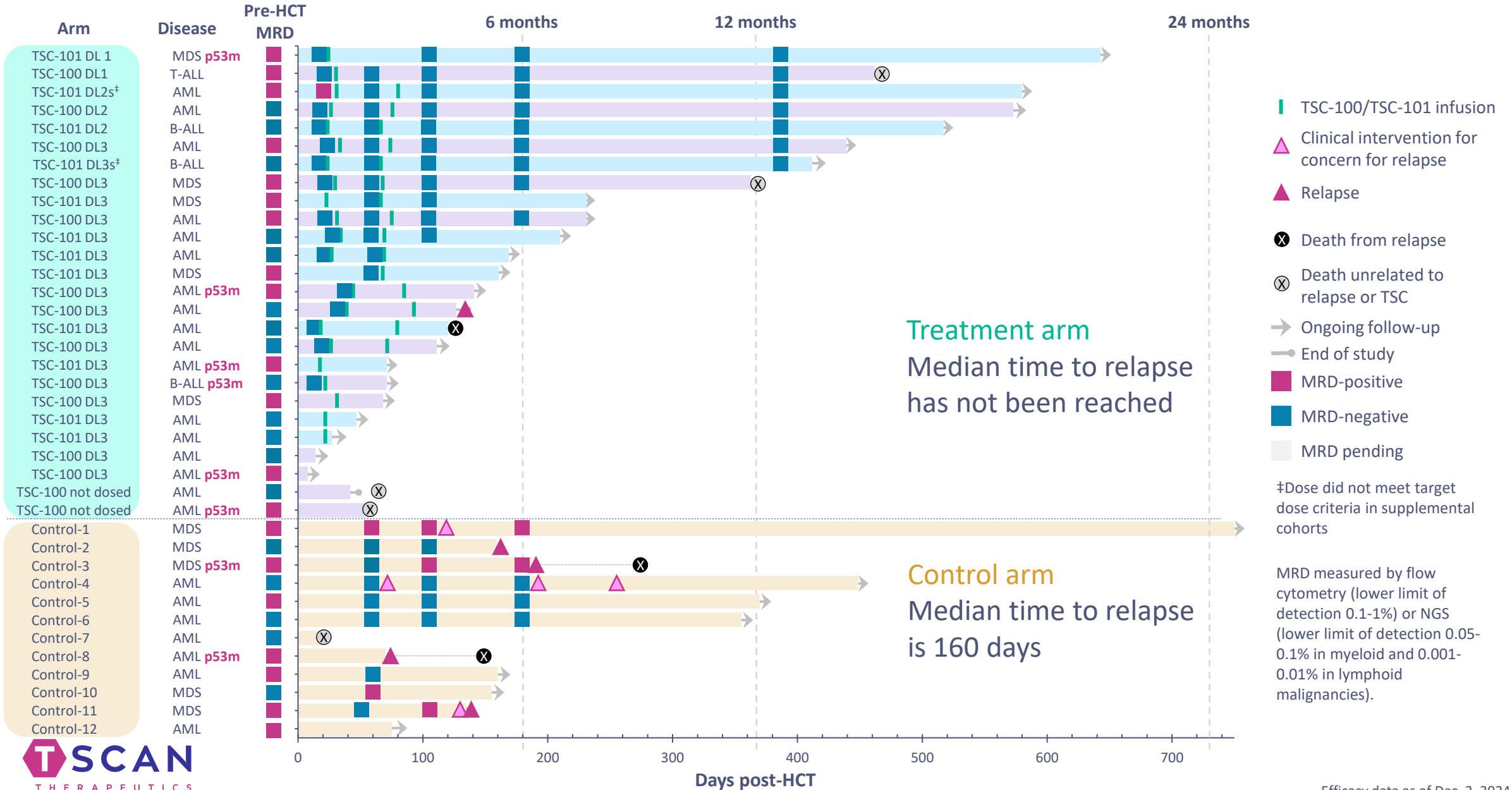
- 59 y/o male with AML
- *Donor apheresis for manufacturing occurred after G-CSF mobilization<sup>2</sup>*
- Manufacturing was challenging due to high neutrophils; repeat manufacturing required
- Both infusions were delayed (Day 41 and Day 97)
- Relapse observed in CNS at Day 139 post-transplant with no systemic relapse

<sup>1</sup> Not observed in any other patient

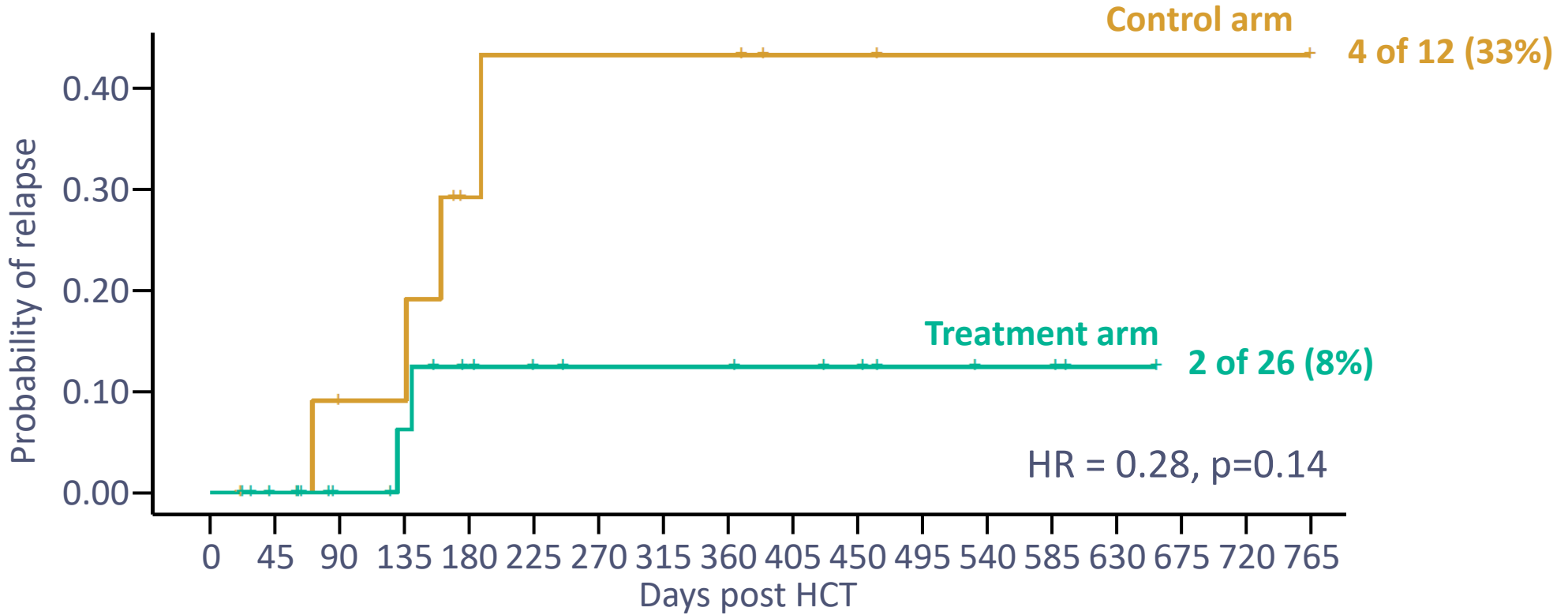
<sup>2</sup> Occurred twice

Neither circumstance would be permitted in pivotal trial

# MRD negativity achieved in all treatment-arm subjects



# TCR-T infusion is associated with fewer relapses



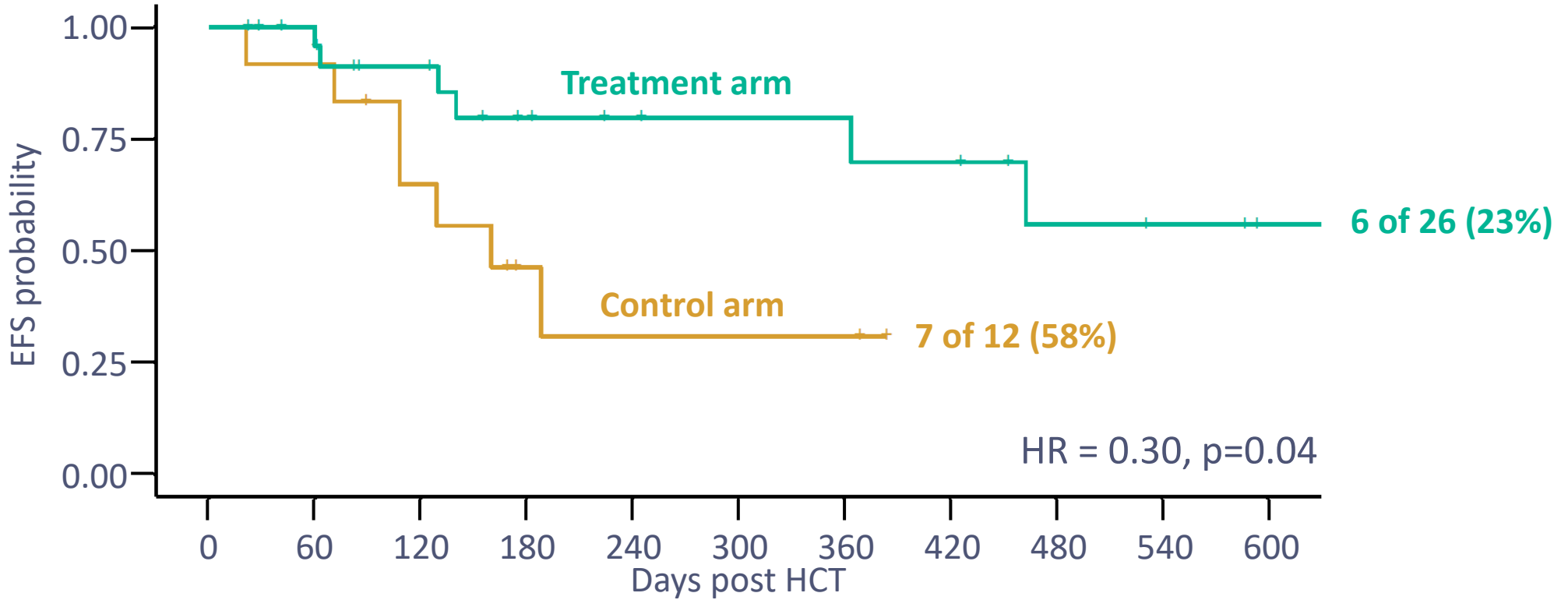
## Number at risk

Control arm	12	11	9	9	5	4	4	4	4	2	2	1	1	1	1	1	1	
Treatment arm	26	23	17	15	12	10	8	8	8	7	6	4	3	3	1	0	0	0

## Cumulative number of events

Control arm	0	0	1	1	3	4	4	4	4	4	4	4	4	4	4	4	4	4
Treatment arm	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2

# Event-free survival (EFS) favors the treatment arm



### Number at risk

Control arm	12	11	7	3	2	2	2	0	0	0	0
Treatment arm	26	23	17	12	10	8	8	7	4	3	1

### Cumulative number of events

Control arm	0	1	4	6	7	7	7	7	7	7	7
Treatment arm	0	1	2	4	4	4	4	5	6	6	6



Event defined as relapse, clinical intervention for impending relapse (non-TSC), or death  
 Cox PH Ratio = 0.304, CI = (0.096, 0.966, p = 0.0435); Log-rank p = 0.0321

Efficacy data as of Dec. 2, 2024

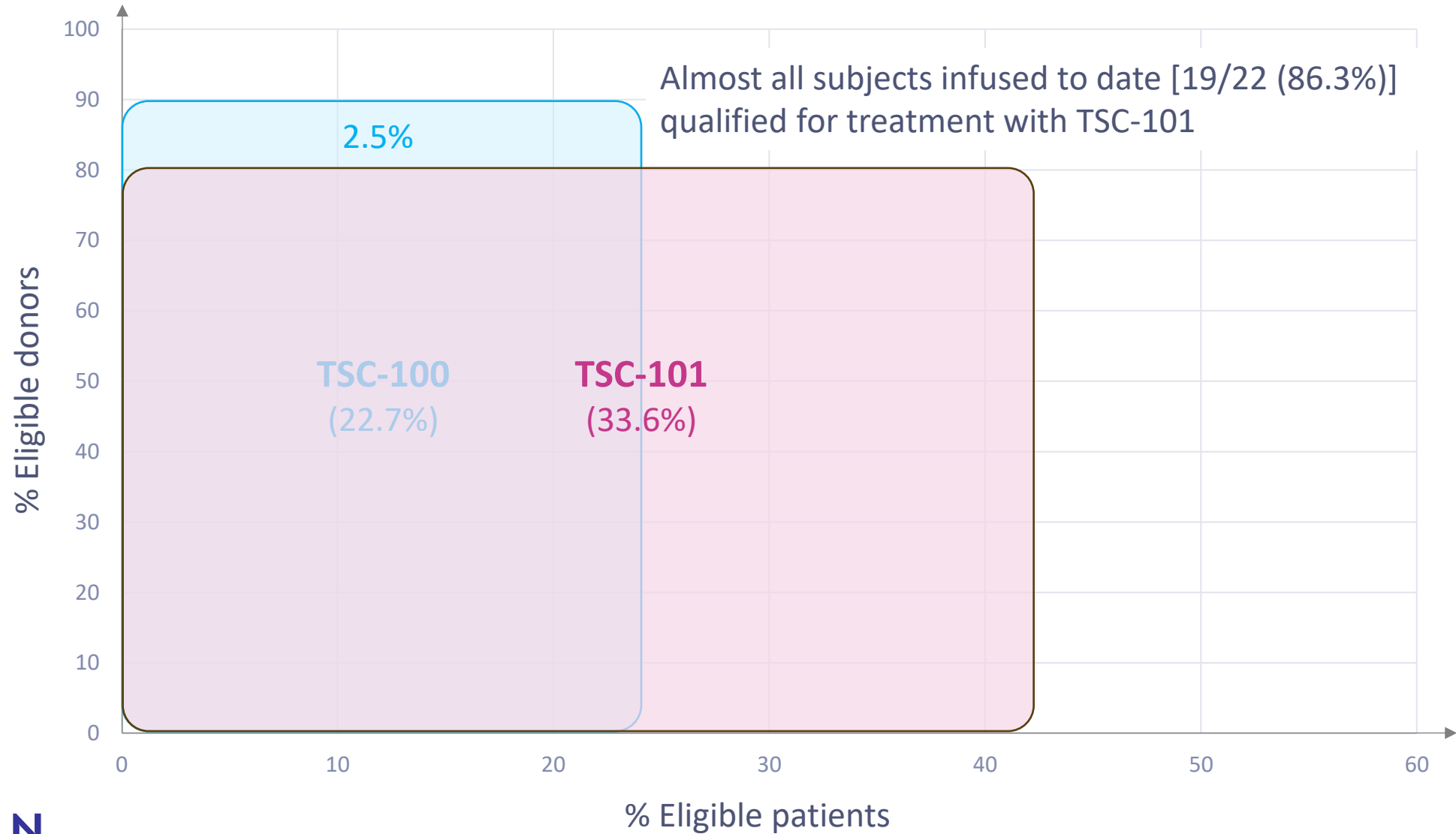
# ALLOHA™ Phase 1 data support launch of pivotal trial in H2 2025

- Infusions with TSC-100 and TSC-101 were well-tolerated with no DLTs and adverse events consistent with HCT
- TSC-100 and TSC-101 TCR-T cells have been detected >1 year post infusion and have a clear dose-persistence relationship
- 2 of 26 (8%) treatment-arm subjects relapsed as compared to 4 of 12 (33%) control-arm subjects
  - Median time to relapse was not evaluable in TCR-T-treated subjects vs 160 days in the control arm
  - Event-free survival strongly favors the treatment arm (HR=0.30)

# Heme Development Strategy

*Targeting residual disease to prevent relapse  
in patients undergoing allogeneic HCT*

# TSC-101 captures ~98% of HLA-A\*02:01-positive patients, obviating the need for TSC-100 or a companion diagnostic



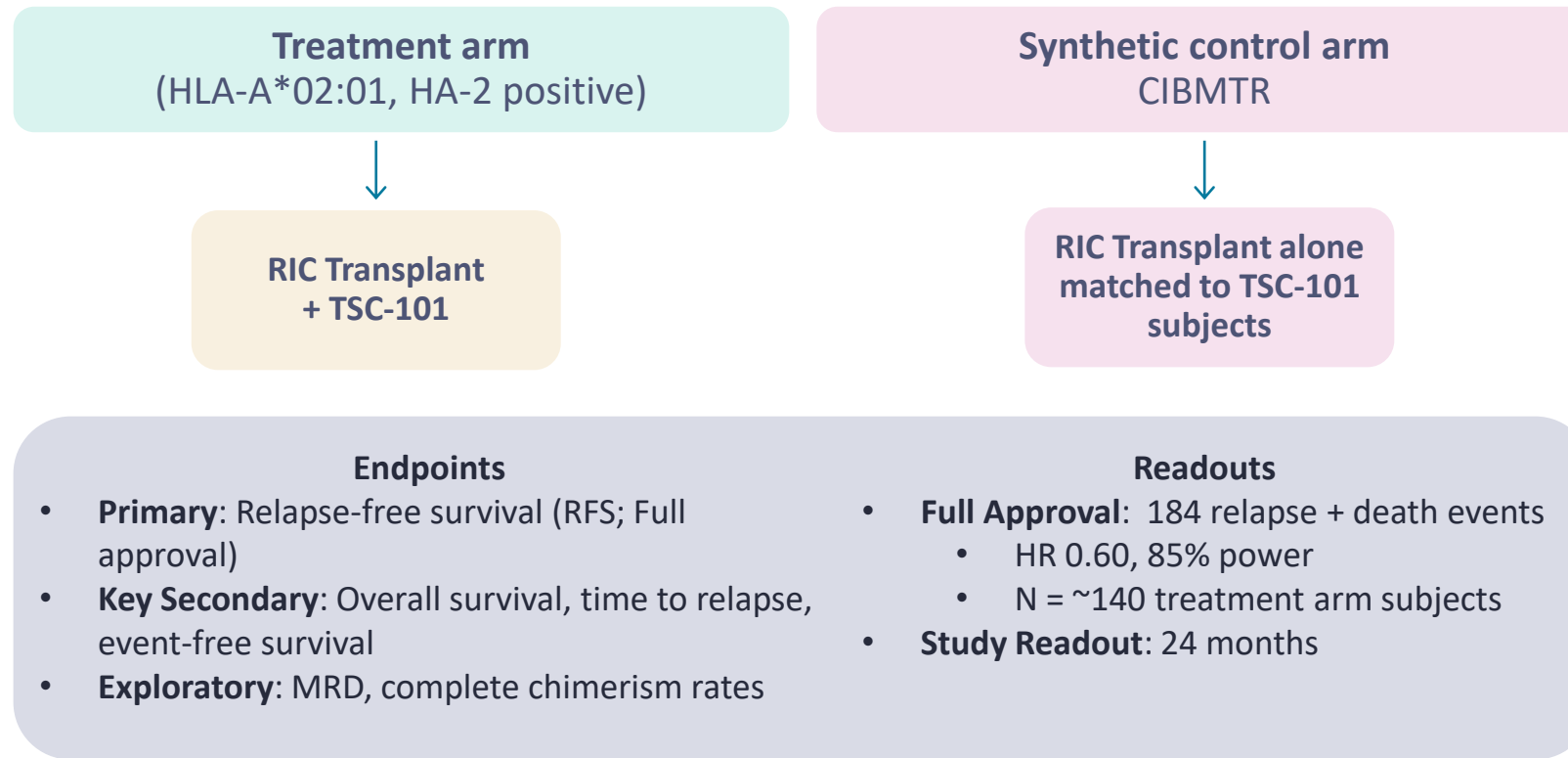
# Pivotal study designed for full approval using an external control arm

**Subjects:** AML, MDS, ALL undergoing transplant with reduced intensity conditioning (RIC)

**Donors:** Haploidentical and mismatched unrelated donors

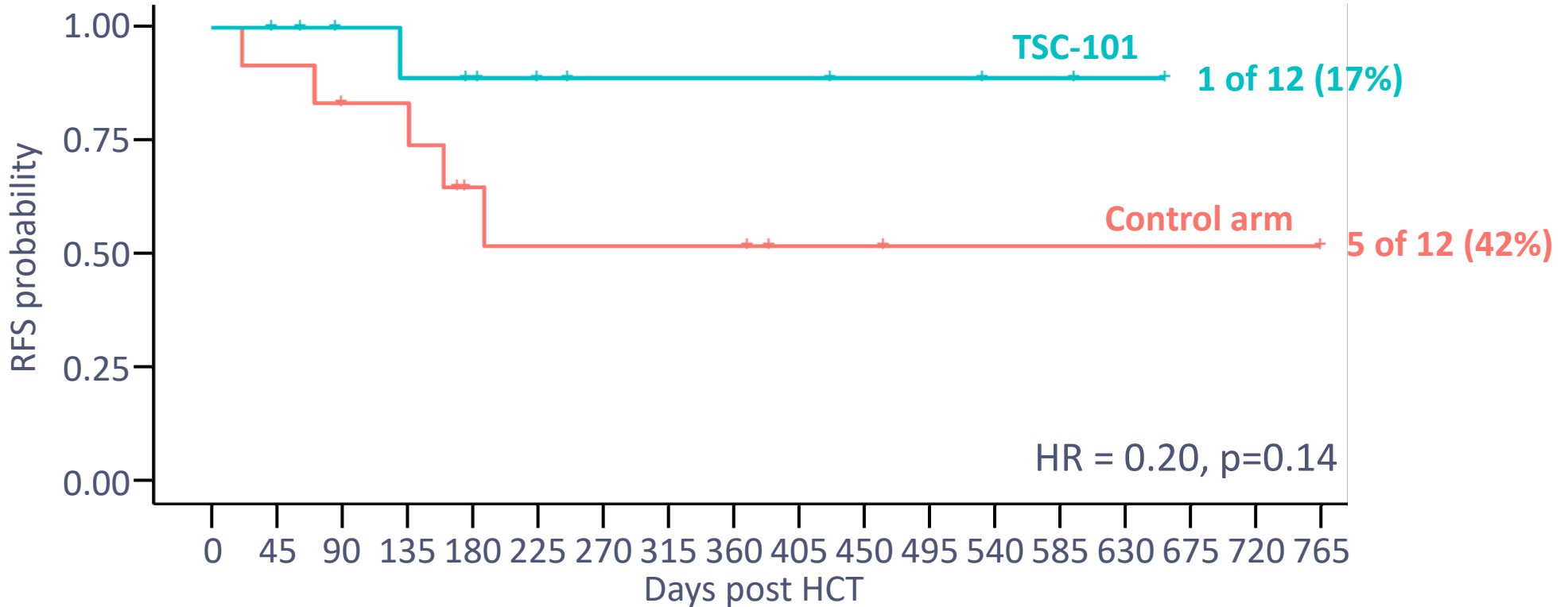
**Enrollment:** TSC-101 vs matched controls (1:3)

**Companion Diagnostic:** Not needed





# Target RFS hazard ratio of 0.60 is well supported by data from the ALLOHA™ Phase 1 study



### Number at risk

Control arm	12	11	9	9	5	4	4	4	4	2	2	1	1	1	1	1	1	
Treatment arm	12	11	9	8	7	5	4	4	4	4	3	3	2	2	1	0	0	0

### Cumulative number of events

Control arm	0	1	2	2	4	5	5	5	5	5	5	5	5	5	5	5	5	5
Treatment arm	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

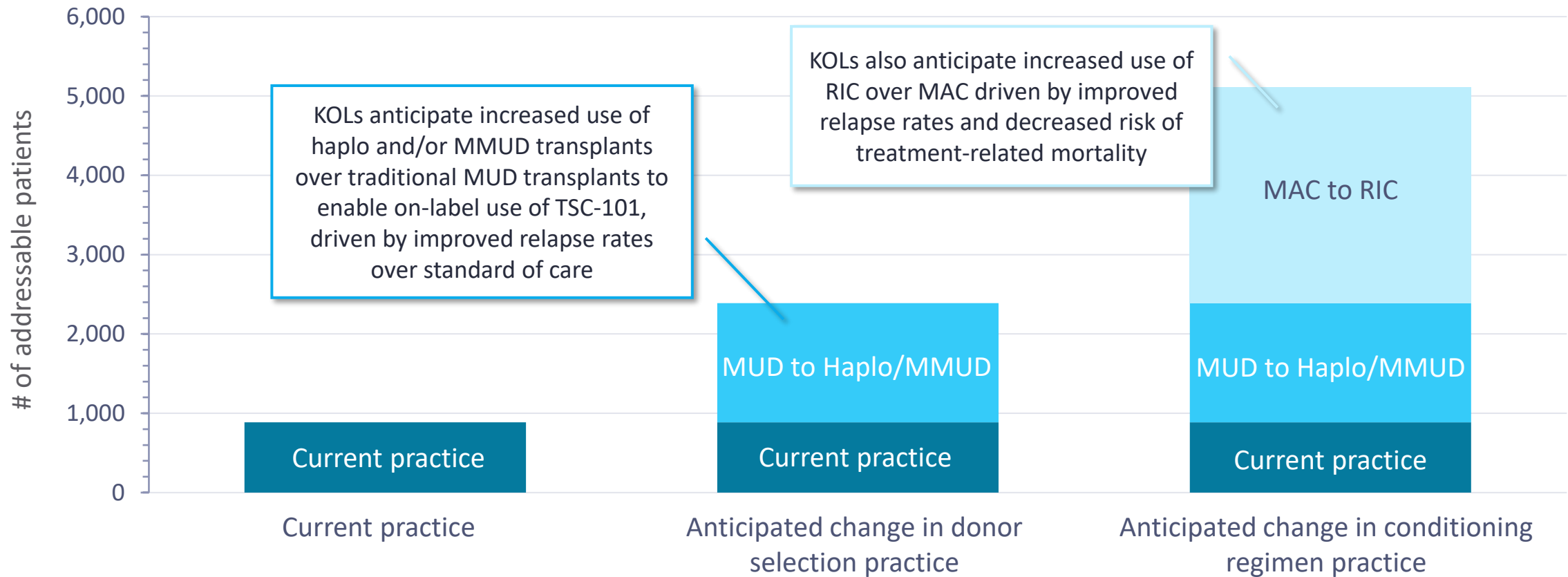


Event defined as relapse, or death  
 CoxPH Ratio = 0.2, CI = (0.023, 1.718), p = 0.1425; Log-rank p = 0.1034

Updated to include event in the treatment arm reported after the Nov 20, 2024 data cut

# Increased use of reduced intensity conditioning with haploidentical/MMUD donors has the potential to dramatically expand the addressable market

## Addressable TSC-101 patients in the U.S. and EU

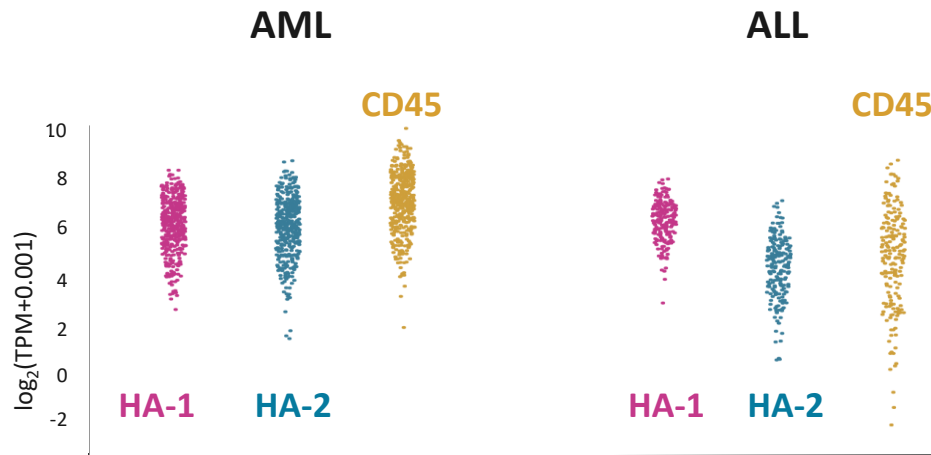


If successful, use of TSC-101 will drop relapse rates relative to all other types of transplants

# TCRs for additional HLA types will target epitopes on CD45, a universal source of antigens for heme malignancies

- CD45 is a lineage-specific antigen with expression in all hematopoietic cells, including HSCs
- CD45 is a large protein with many well-known epitopes for high frequency HLAs
- Antigen-negative donors can be selected by mismatching on HLA (using haploidentical and MMUD donors)

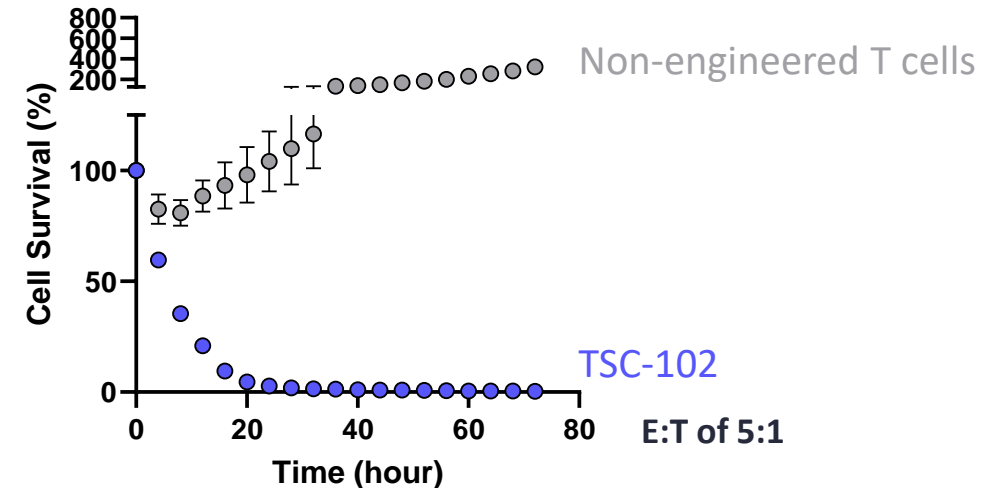
CD45 has high and uniform expression in AML and ALL



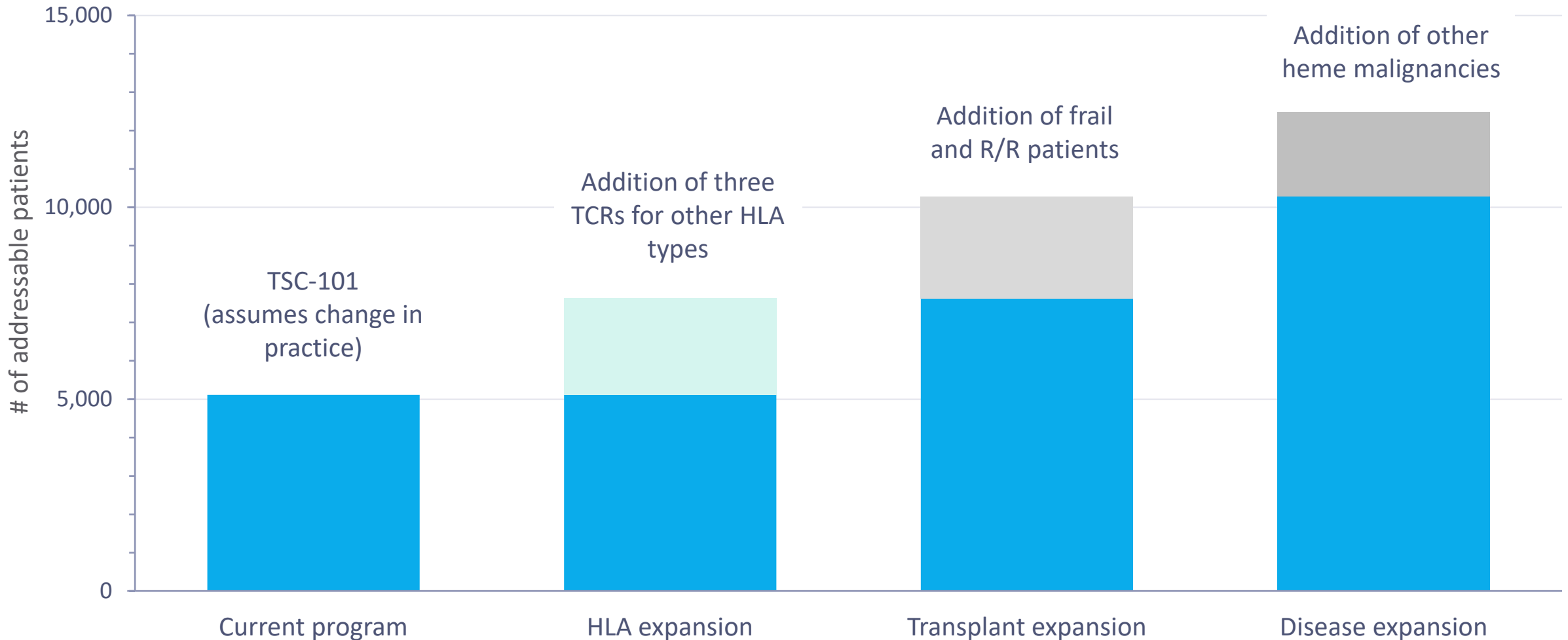
Source: TCGA

**TSC-102** targets an antigen from CD45 presented on HLA-A\*03:01

**U937 (Myeloid leukemia)**



# Expansion opportunities for the heme program provide a way to reach over 10,000 patients in the U.S. and Europe



# Solid Tumors:

TSC-200-A0201

TSC-201-B0702

TSC-202-A0201

TSC-203-A0201

TSC-204-A0201

TSC-204-C0702

TSC-204-A0101

*Developing multiplex TCR-T therapy to overcome tumor heterogeneity*

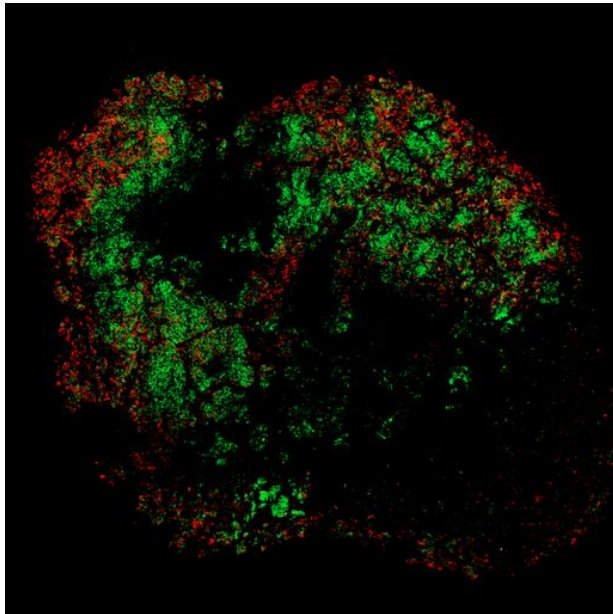
# Multiplex TCR-T therapy is designed to address the heterogeneity of solid tumors

Many immune-rich cancers exhibit target heterogeneity

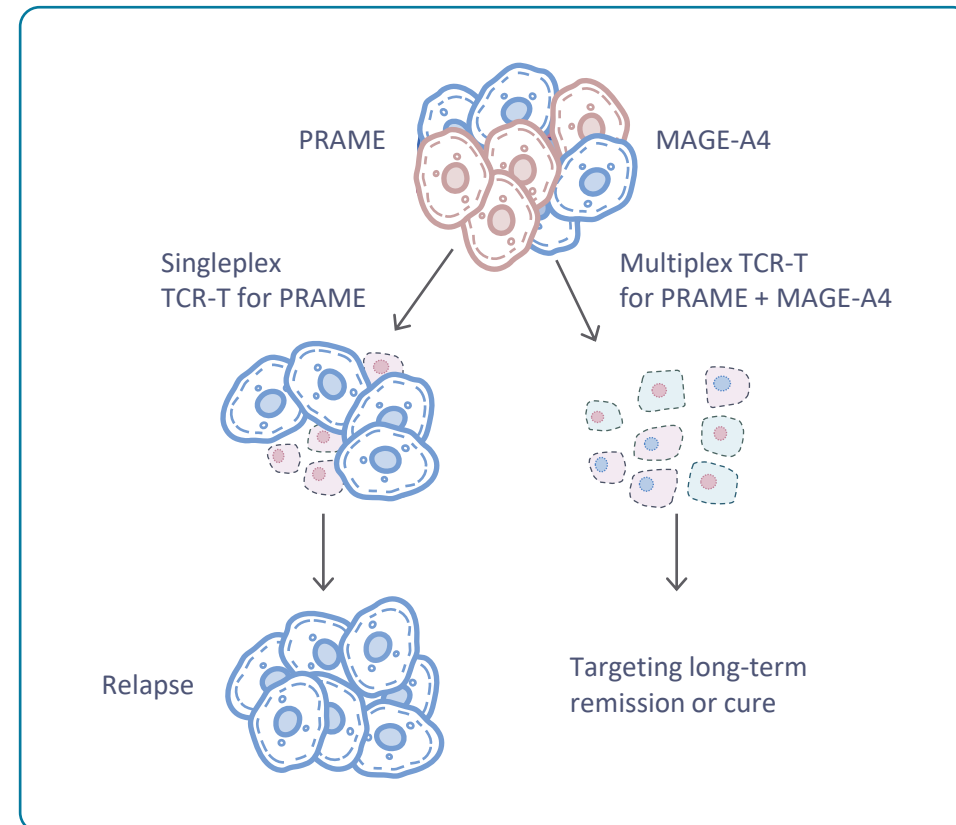
Non-small cell lung cancer

PRAME

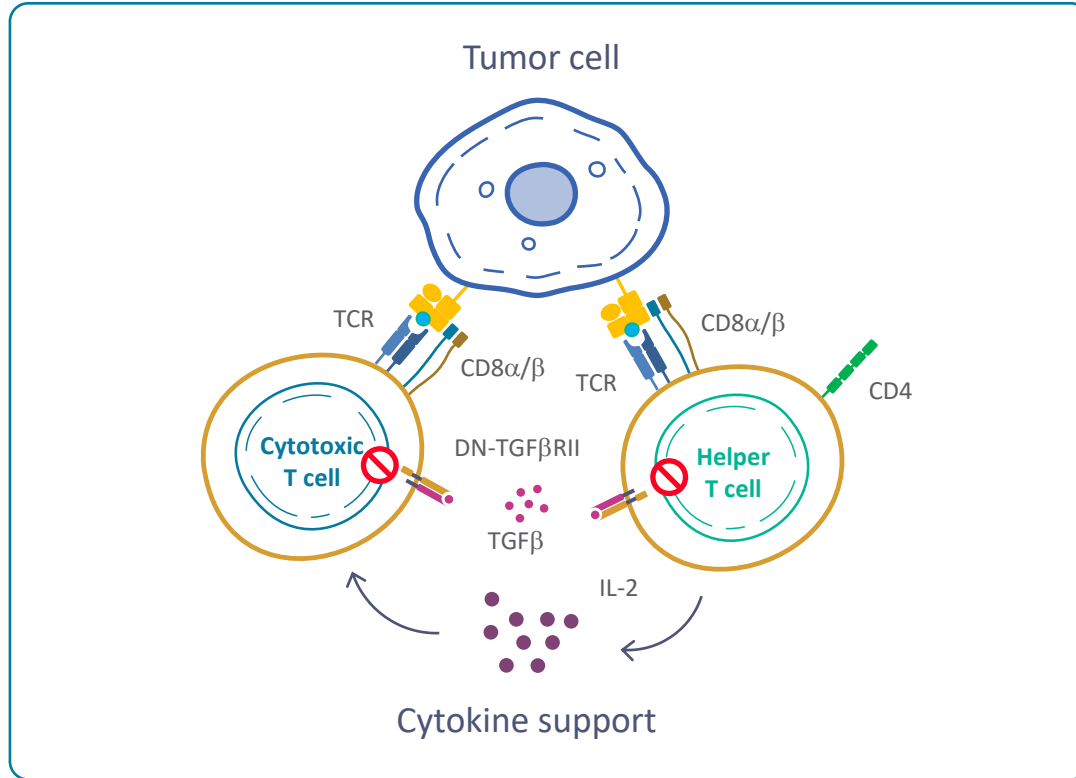
MAGE-A4



TCR-Ts against multiple targets may be required to improve efficacy and durability



# TScan's solution for combatting the hostile tumor microenvironment

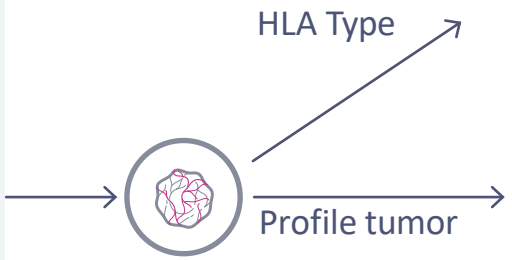
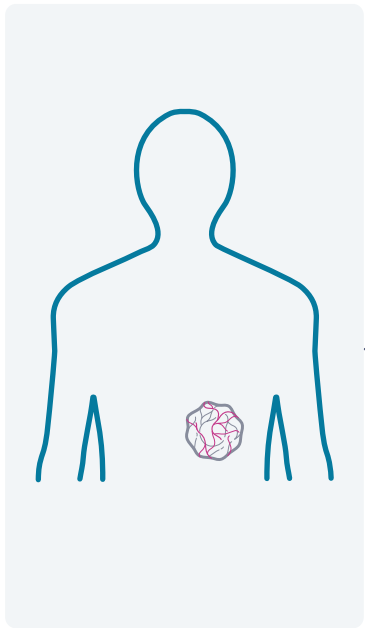


- Co-deliver CD8 $\alpha/\beta$  to engage helper T-cells
- Co-deliver DN-TGF $\beta$ RII to enhance T-cell expansion/persistence

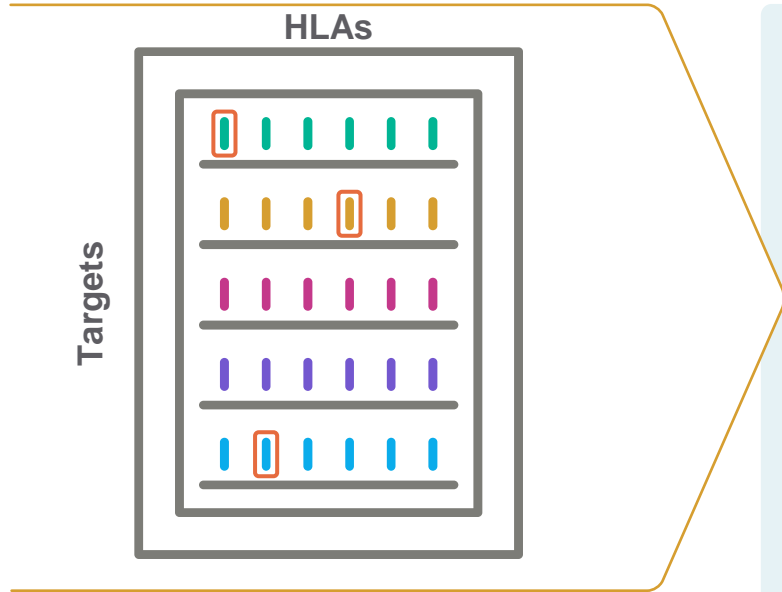
Enhanced TCR-T enabled by TScan's transposon-based manufacturing platform

# TScan is building the ImmunoBank of TCRs to enable multiplex TCR-T cell therapy

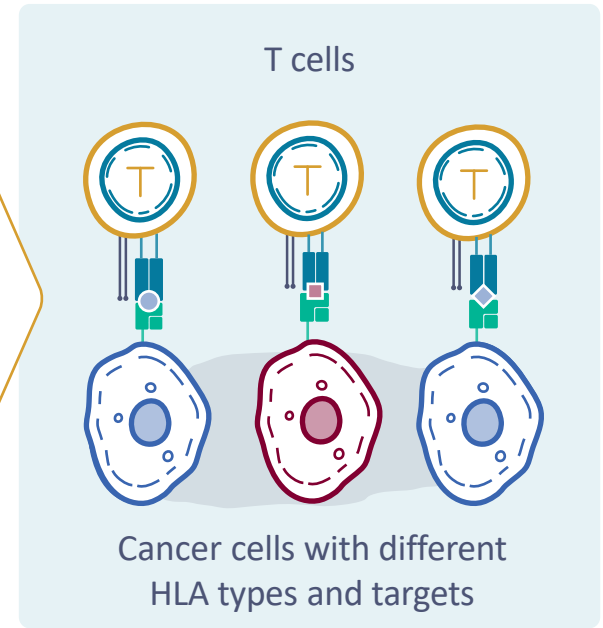
Cancer patient



ImmunoBank of therapeutic TCRs



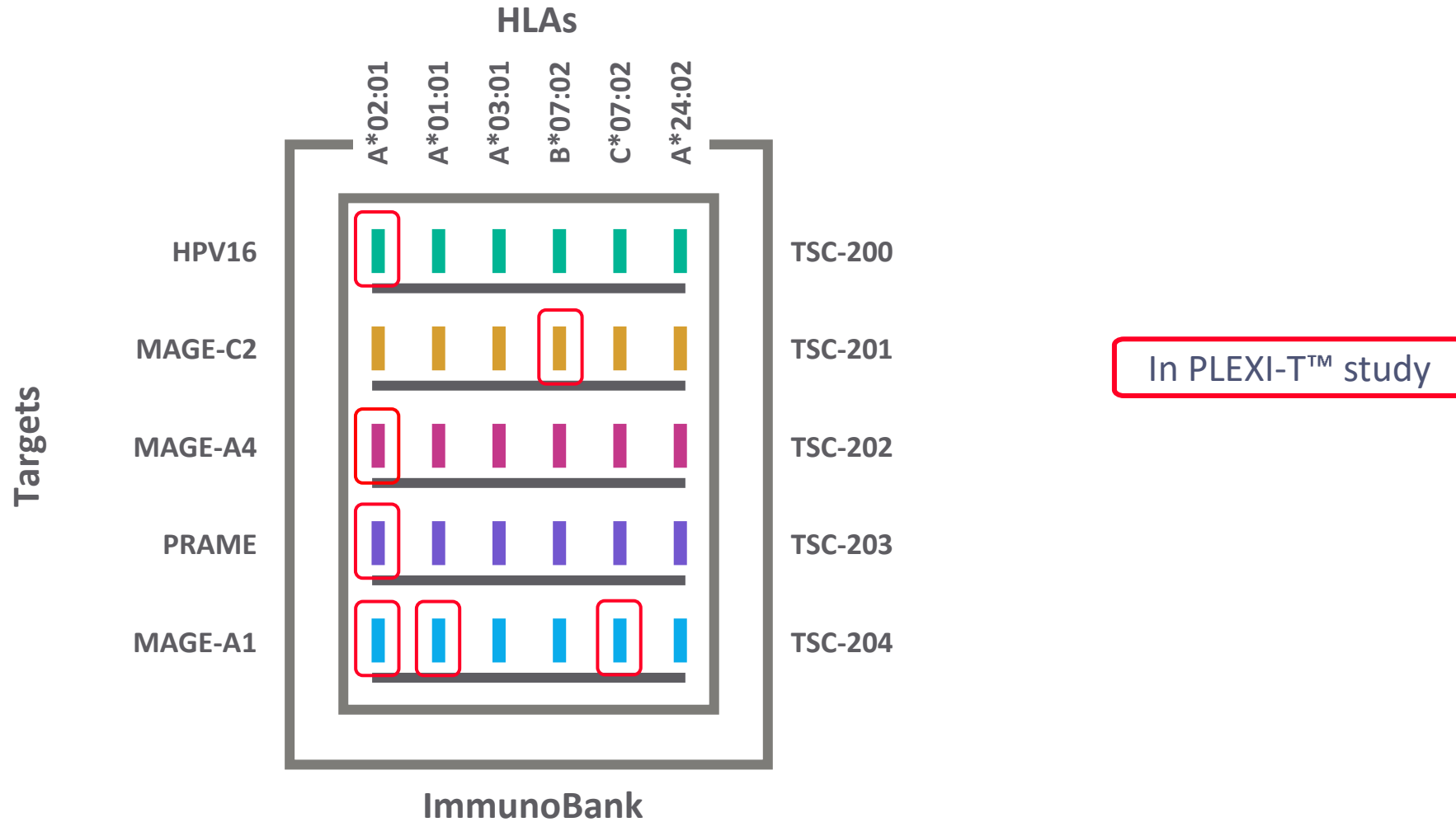
Customized TCR-T therapy



- Determine target and HLA expression in patient tumor
- Manufacture and administer customized, multiplex TCR-T therapy

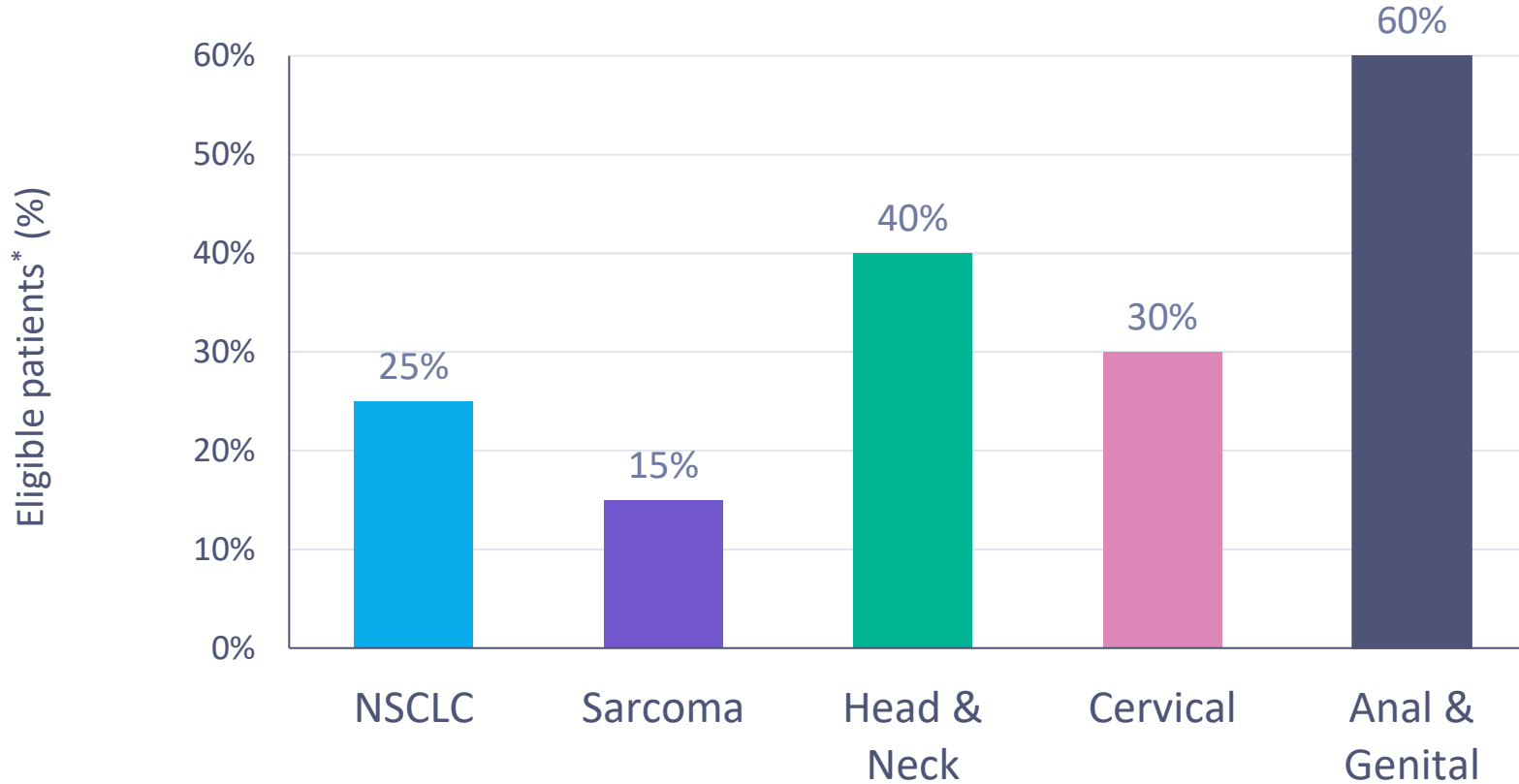


# TScan is strategically expanding the ImmunoBank to enable multiplex TCR-T therapy in immune-rich solid tumors



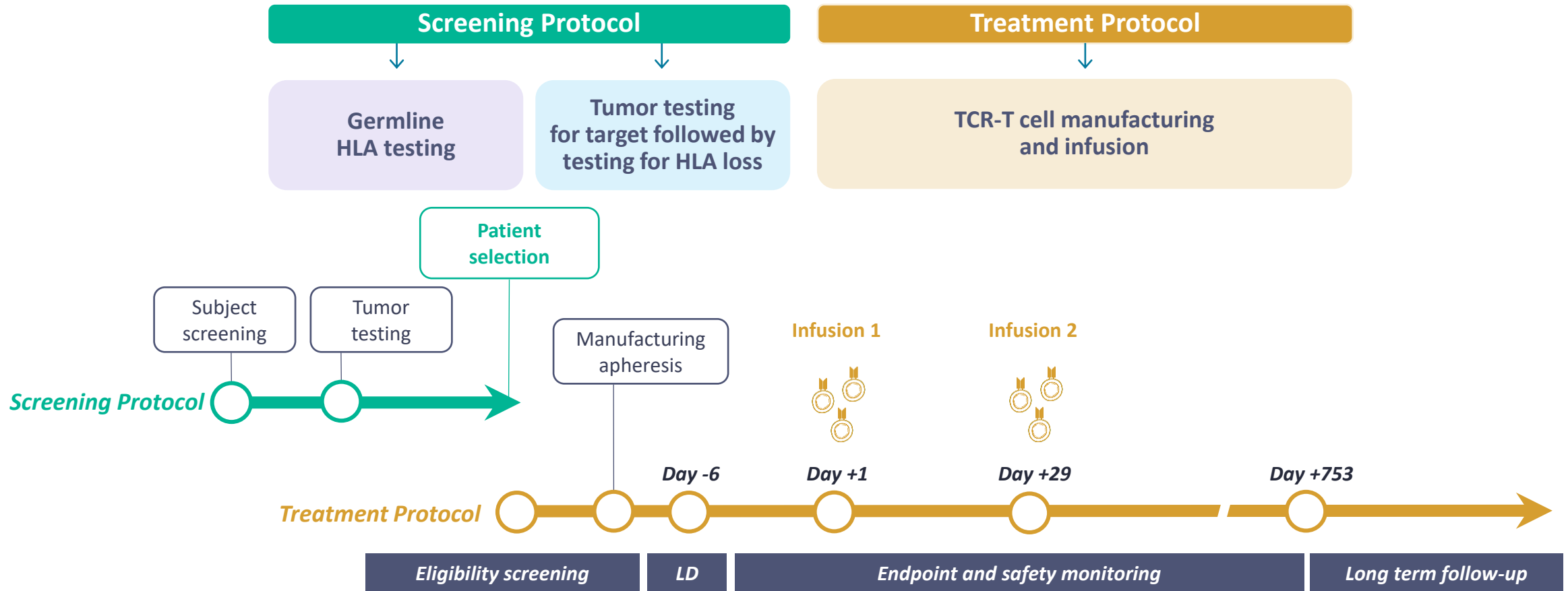
# ImmunoBank expansion to seven TCRs has increased T-Plex eligibility across target indications

Patients eligible for multiplex TCR-T cell therapy in PLEXI-T study



15-60% of patients are currently eligible for multiplex TCR-T cell therapy with the 7 TCRs in the current PLEXI-T study

# PLEXI-T™, a multi-arm basket Phase 1 trial in subjects with solid tumors (NCT05973487)



### Key eligibility criteria













- Age  $\geq 18$  years
- Relapsed/refractory solid tumor after treatment with or refusal of SoC therapies
- Eligible for treatment on a Phase 1 study that requires lymphodepleting chemotherapy

### Key endpoints

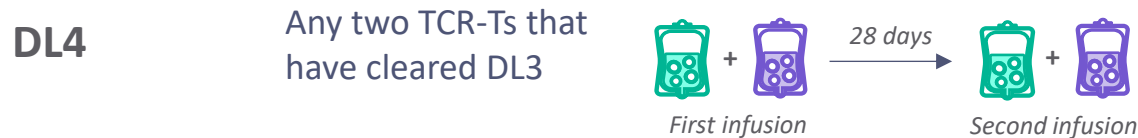
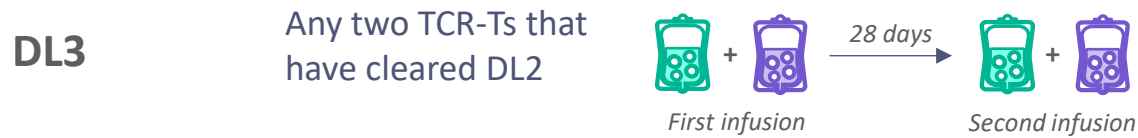
- Safety: Dose limiting toxicities, adverse events
- Efficacy
- Exploratory: T cell persistence

# Dose escalation scheme provides a rapid path to multiplex TCR-T in Phase 1

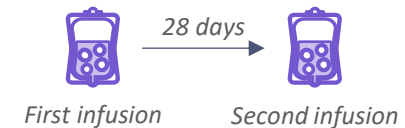
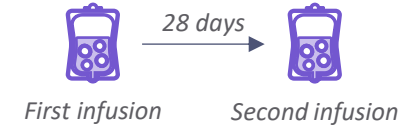
TSC-204-A0201 (MAGE-A1)    TSC-204-C0702 (MAGE-A1)    TSC-200-A0201 (HPV16)    TSC-203-A0201 (PRAME)    TSC-201-B0702 (MAGE-C2)    TSC-204-A0101 (MAGE-A1)

DL1	 0.5B Cleared	 0.5B	 0.5B Cleared	 0.5B Cleared	 0.5B Dosed	 0.5B
DL2	 2B	 2B	 2B Cleared	 2B Cleared	 2B	 2B

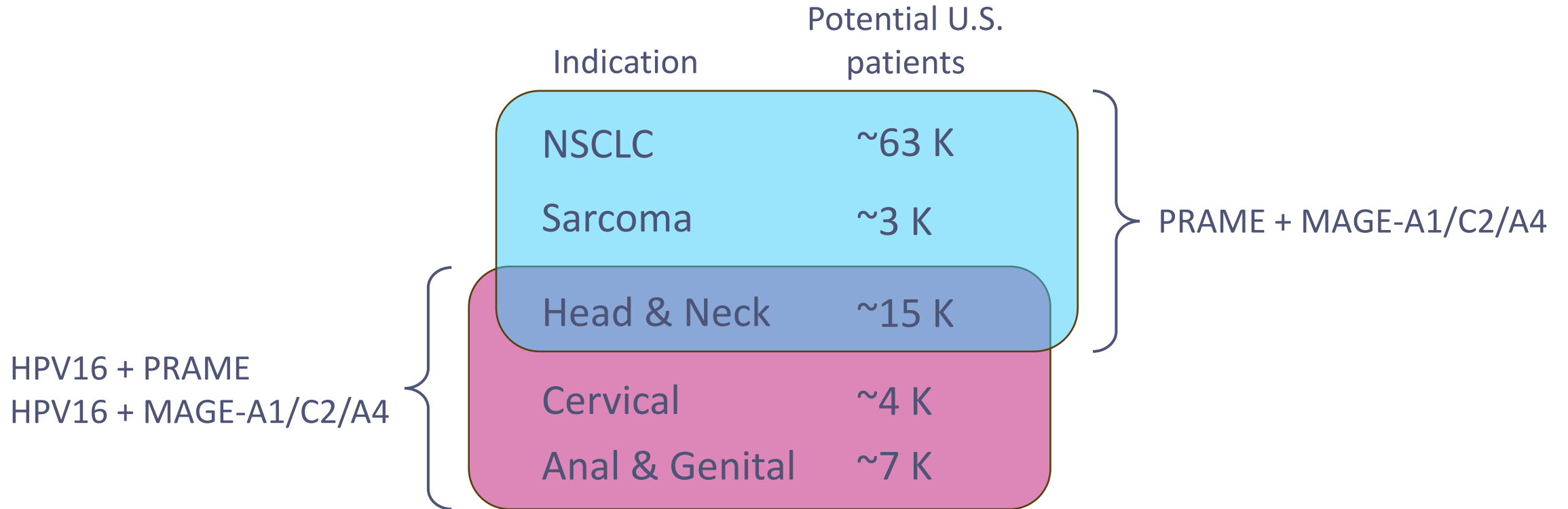
## T-Plex



## Singleplex



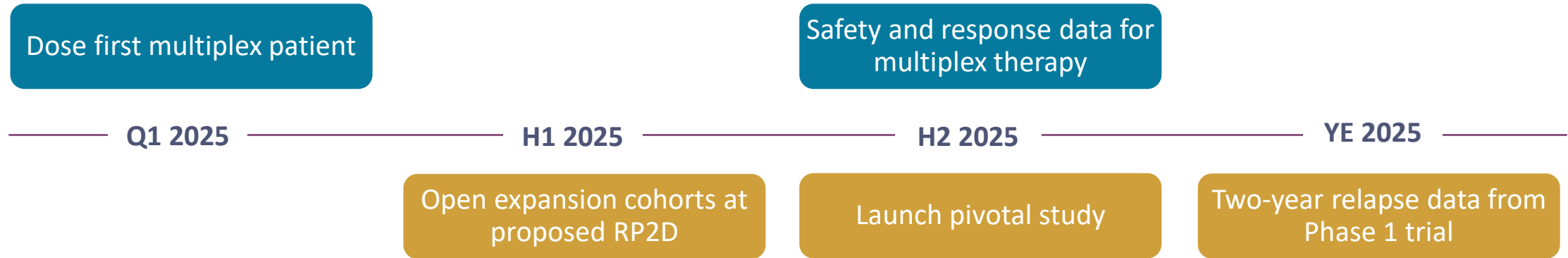
# T-Plex enrollment will focus on five key indications with high unmet need



- High unmet need
- Evidence of T cell infiltration
- Clinical signal in early TCR-T trials
- Significant addressable patient population in second- and third-line treatment

# Steady value-generating data flow planned across clinical programs

## Solid Tumor Program



## Heme Program

# Fully integrated company positioned to deliver multiple clinical catalysts

## Clinical-stage, next-generation TCR-T cell therapy company

- Rapidly-growing **clinical pipeline** addressing both **heme malignancies and solid tumors**
- **In-house GMP manufacturing** capabilities
- **Proprietary platform** enables rapid discovery of TCRs and targets for engineered T-cell therapies
- **Broad therapeutic potential** beyond oncology (e.g., autoimmune disease, infectious disease)

## Expected Near-Term Clinical Data Catalysts

**Heme:** Enrollment using commercial manufacturing process at proposed recommended Phase 2 dose anticipated in the first half of 2025

- **Two-year Phase 1 relapse data expected by end of 2025**

**Solid:** First patient dosed with multiplex TCR-T therapy expected in the first quarter of 2025

- **Safety and response data for multiplex TCR-T therapy anticipated by end of 2025**

## Strong Financial Position

**Pro forma cash as of September 30, 2024**  
**\$316 million\***

**Cash runway into Q1 2027**

\* Includes \$45M proceeds in Q4'24 from registered direct offering and debt refinancing

THANK YOU

