



**Ziopharm**  
ONCOLOGY

**Second Quarter 2021 Corporate Update**  
*August 9, 2021*

# Forward Looking Statements

This presentation and accompanying commentary contain certain forward-looking information about Ziopharm Oncology, Inc. that are intended to be covered by the safe harbor for "forward-looking statements" provided by the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts, and in some cases can be identified by terms such as "may," "will," "could," "expects," "plans," "anticipates," and "believes." These statements include, but are not limited to, statements regarding the Company's business and strategic plans, the availability of cash resources, the progress and timing of the development of Ziopharm's research and development programs, including the design of its clinical trials and the timing for the initiation and completion, and the data readouts for, its clinical trials, and the anticipated benefits and market size of Ziopharm's products. Although Ziopharm's management team believes the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Ziopharm, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include among other things, changes in our operating plans that may impact our cash expenditures; the uncertainties inherent in research and development, future clinical data and analysis, including whether any of Ziopharm's product candidates will advance further in the preclinical research or clinical trial process, including receiving or maintaining clearance from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies to conduct clinical trials and whether and when, if at all, they will receive final approval from the U.S. FDA or equivalent foreign regulatory agencies and for which indication; the strength and enforceability of Ziopharm's intellectual property rights; competition from other pharmaceutical and biotechnology companies as well as risk factors discussed or identified in the public filings with the Securities and Exchange Commission made by Ziopharm, including those risks and uncertainties listed in Ziopharm's most recent Form 10-Q and Form 10-K. Readers are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date of the presentation, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

# Clinical Stage Cell Therapy Company with Suite of Promising Technologies

Strategy focused on delivering shareholder value

## Mission

We develop innovative T cell-based therapies for the treatment of hematological and solid tumor cancers

# Ziopharm Oncology Today

## Long-Term Vision

Distinctive commercial and clinical portfolio of immunotherapies transforming patient lives, supported by a growing body of compelling data

People, capabilities and assets to deliver

# Unprecedented Transformation Since the Beginning of the Year

## From...

Scientifically-directed strategy

Broad portfolio including high complexity programs in small market opportunities

Unclear capital outlook and runway

Shareholder / Company disconnect and misalignment between Board, management

No Company-directed TCR-T clinical work ongoing

Houston cGMP Facility construction in process

No clinical work initiated by JV Partner Eden BioCell for CD19 RPM CAR-T Program

## ...To



Clinical development and **operationally directed strategy**



Focused, **capital efficient portfolio** addressing high unmet need, large patient populations, and **significant market sizes**



Extended runway into Q4 2022 with smart venture debt vehicle; **runway now well beyond anticipated data, value inflection points**



Refreshed Board with **significant shareholder voice** guiding management; expect to announce new CEO in near future



FDA cleared IND for Phase I/II Library trial, with manufacturing preparation and **patient pre-screening underway**



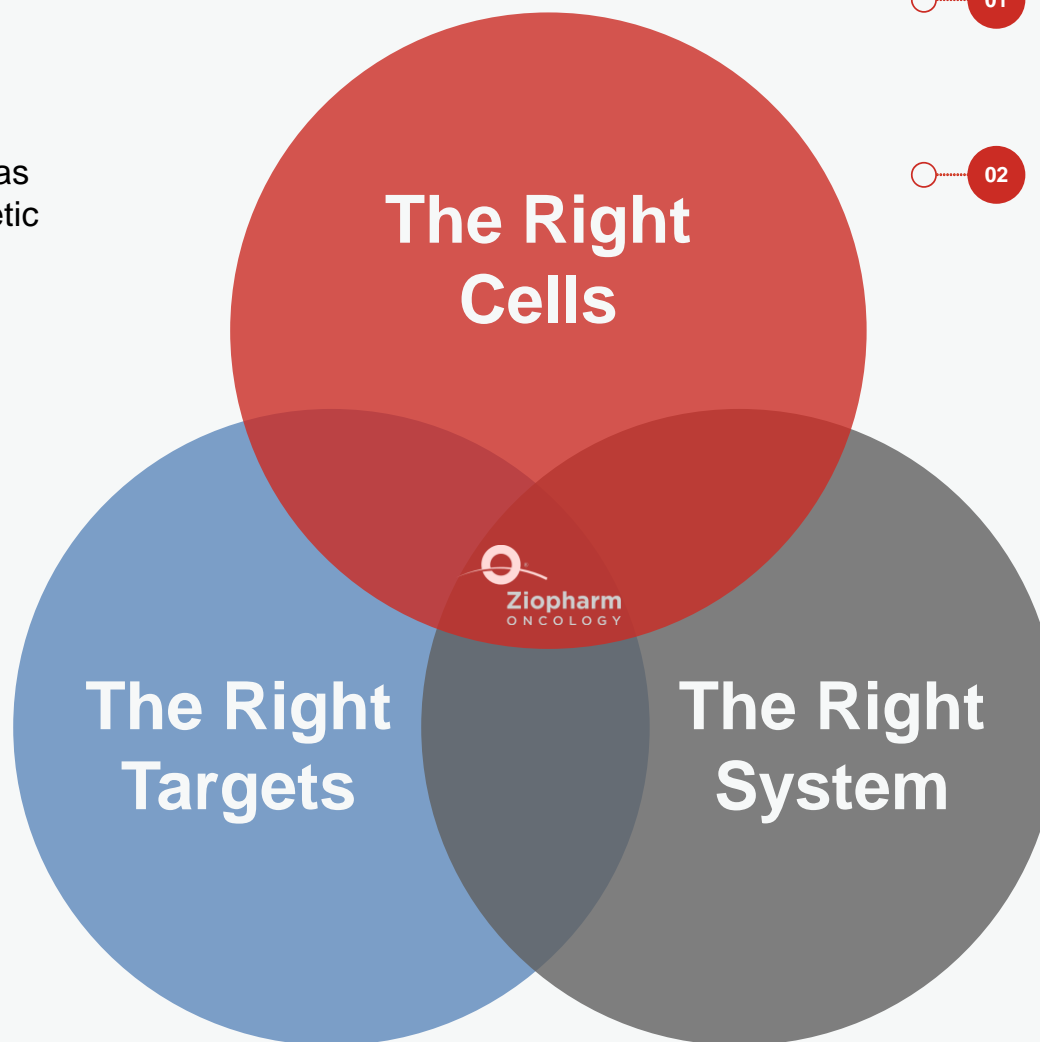
cGMP facility **fully commissioned** and validation with process qualification work ongoing



Cleared IND with two patients treated in Taiwan; no serious adverse events noted; further process development needed; **external interest in the program**

# Scientific Foundation Drives Confidence in our Value and Outlook

- 01 Germline or public antigens not present in the vast majority of epithelial cancers
- 02 Neoantigens are desired targets as they arise from foundational genetic mutations in cancer
- 03 **Ziopharm** TCRs target shared neoantigens in hotspots and neoantigens unique to patients
- 04 **Ziopharm** addresses heterogeneity of antigen expression between patients and within tumors
- 05 **Ziopharm** has exclusive rights to a growing set of Library hotspot-specific TCRs for products engineered by transposon-mediated gene transfer, and a cleared IND for Phase I/II clinical work



- 01 **Ziopharm** immuno-biology is based on the use of “young” peripheral blood T cells
- 02 Exhausted T cells isolated from tumor (TILs) have limited efficacy for most solid tumors
- 01 Viral gene transfer is costly, cumbersome and complex
- 02 **Ziopharm** gene transfer utilizes the best-in-class non-viral *Sleeping Beauty* transposon system

# Recent Progress and Highlights

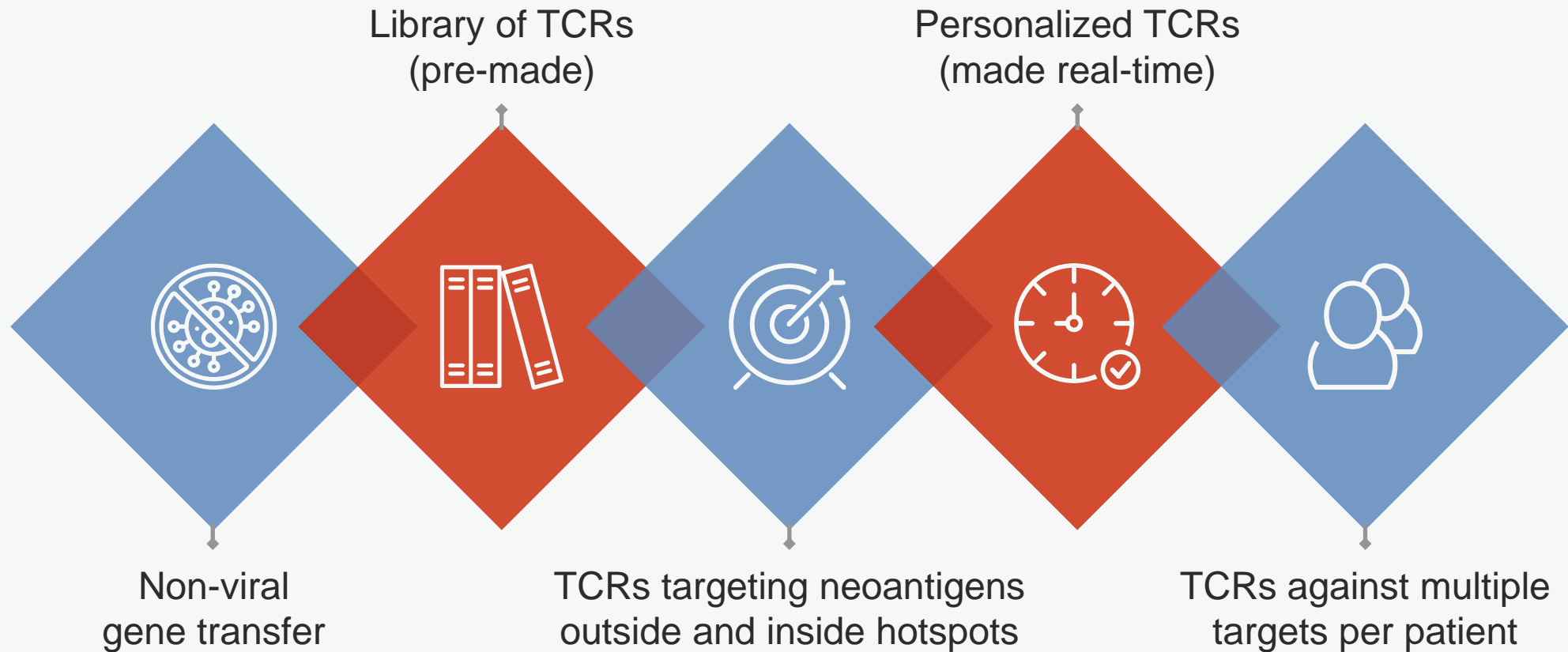
## Business Updates

- 01** **Closed \$50M venture debt facility with Silicon Valley Bank**  
*\$25M immediate drawdown, extending runway into Q4 2022*  
  
*Provides time to generate and assess clinical data from TCR-T Library trial*
- 02** **Cash balance of approximately \$76.7 million as of June 30, 2021\***
- 03** **CEO Announcement in near future**

## TCR-T Library Clinical Program

- 01** **Remain on track to dose patients in H2 2021 – anticipate in Q4 2021**  
*Currently pre-screening patients*
- 02** **Completed critical steps to support opening manufacturing facility in Houston**  
*Commissioning of the cGMP clinical production unit and aseptic process validation successfully completed*
- 03** **Compelling preclinical data presented at AACR**  
*Provides confidence in TCR technology*
- 04** **Qualifying additional TCRs**  
*Plan to amend IND in H2 2021 to include these additional TCRs*

# Ziopharm's TCR-T Programs



**Ziopharm's** complementary and unique suite of technologies

# CD19 RPM CAR-T Trial Conducted by Eden BioCell

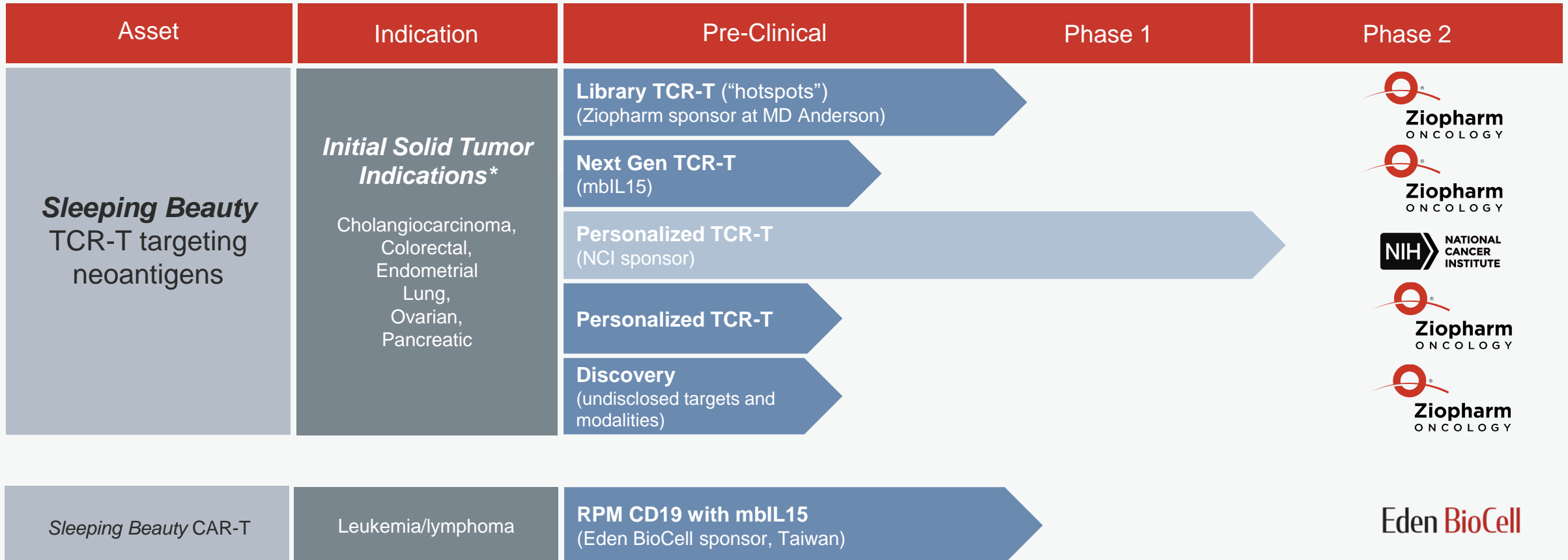
## Phase I Clinical Program in Taiwan

### Program Update:

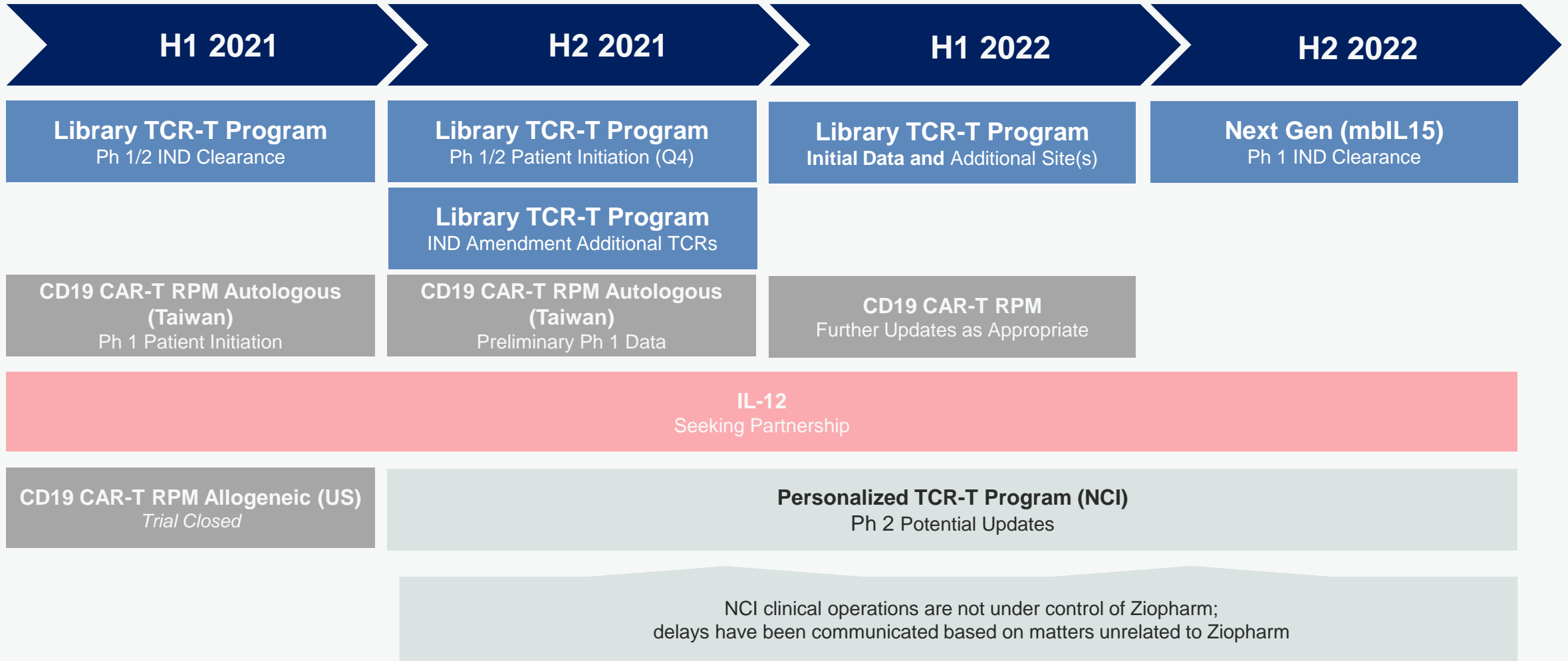
- 50-50 joint venture, 100% financially supported by TriArm Therapeutics in Taiwan
- 2 patients dosed and evaluated since initiation in March 2021
  - No serious adverse safety events reported
  - Non-viral *Sleeping Beauty* gene transfer is effective in genetically modifying autologous T cells
  - Patients infused 2 days after gene transfer, shortening the turnaround time and demonstrating an advantage over viral methods
- Laboratory data identified need for further process development work to optimize and refine manufacturing process before dosing additional patients; may take up to 12 months
- Several external parties have expressed interest in the program
  - The Board will consider all options carefully, in order to maximize shareholder value
- Reminder: TCR and CAR-T processes are intrinsically different and follow separate process development pathways; no read through from CAR-T to TCR-T work



# Focused Pipeline of Oncology Innovation in Cell Therapy



# 2021/2022 Clinical Milestones





**Ziopharm**  
ONCOLOGY

