

# Preclinical Development Awards (PDEV)

Informational Webinar

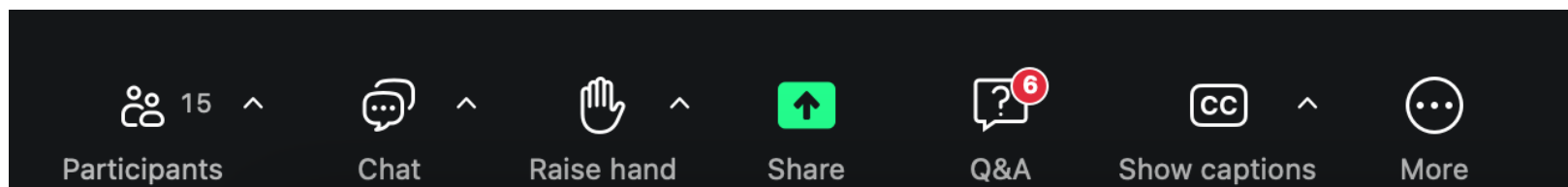
May 22, 2025, 11:00 AM PST

**C I R M**

CALIFORNIA INSTITUTE FOR  
REGENERATIVE MEDICINE

# Quick Announcements

- This webinar pertains to Preclinical Development (PDEV) overview & pre-submission process. Pre-submissions are due **June 12, 2025**
- Q&A will focus on general questions. If you have questions related to your specific project, please submit them to [preclinical@cirm.ca.gov](mailto:preclinical@cirm.ca.gov)
  - Use the Q&A box on Zoom to enter questions
  - Please save your questions until AFTER the presentation, we will not answer any questions during the presentation



# Disclaimer: This webinar highlights key information only

*Please refer to contents on the program page for comprehensive information*

- Program Announcement
- Applicant-facing resources
- Final FAQ

<https://www.cirm.ca.gov/preclinical/>



# Preclinical Development Team



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# Webinar Panelists



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**Hayley Lam**  
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Portfolio Development & Review



**Doug Kearney**  
Director  
Grants Management

# Agenda

- 1 Part 1: Presentation** **11:00 - 11:30am**
  - Context
  - Program Overview
  - Data & Knowledge Sharing Requirements
  - Review Process & Criteria
  - Pre-submission Components & Considerations
- 2 Part 2: Question & Answer** **11:30 - 12:00pm**

# Context

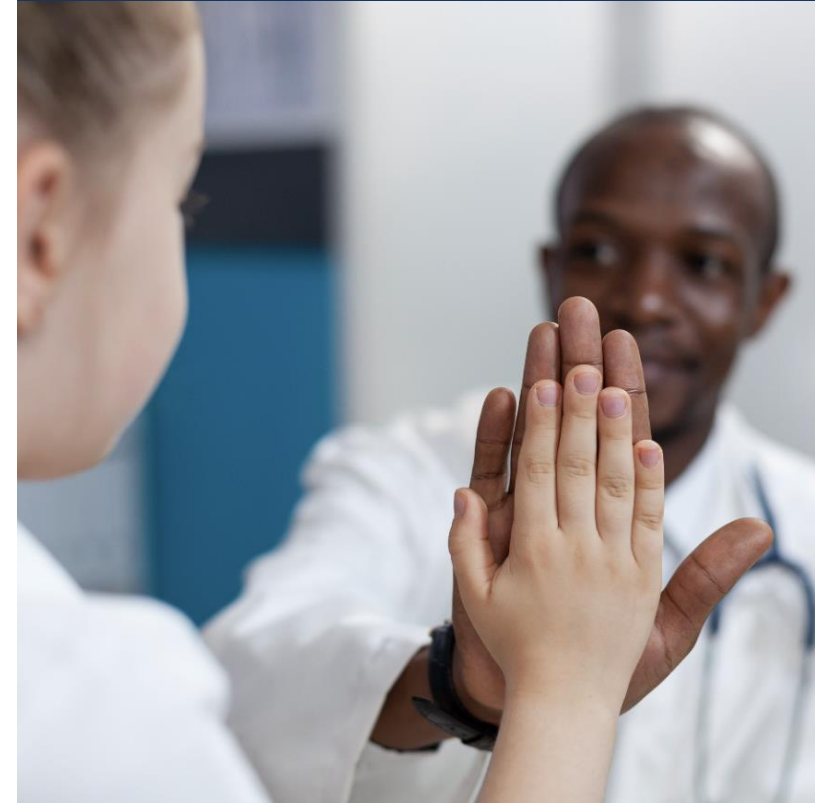


## Our Mission

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Accelerating world class science to deliver transformative regenerative medicine treatments in an equitable manner to a diverse California and world.

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# CIRM's Strategic Allocation Framework

The **Strategic Allocation Framework (SAF)** - Structured and data-driven approach to prioritize resource allocation and provide recommendations to the ICOC for continued implementation of CIRM's strategic plan

# CIRM's Impact Goals

## Accelerating Discovery & Translation

1. **Catalyze** the identification and validation of at least 4 novel targets and biomarkers, ensuring integration into preclinical or clinical research for diseases in California
2. **Accelerate** development and utilization of 5-8 technologies that have the potential to improve safety, efficacy, and/or quality of cell and gene therapies

## Cell & Gene Therapy Approvals

3. **Advance** 4-7 rare disease projects to BLA
4. **Propel** 15-20 therapies targeting diseases affecting Californians to late-stage trials

## Accessibility & Affordability of CIRM-Funded Cell & Gene Therapies

5. **Ensure** that every BLA-ready program has a strategy for access and affordability

## Diverse Workforce Development

6. **Bolster** CIRM's workforce development programs to address gaps and meet evolving demands in regenerative medicine

# Recommendations to Achieve Goal 4

**Goal 4 - Propel** 15-20 therapies targeting diseases affecting Californians to late-stage trials

## Streamline Preclinical Development Programs

- Consolidate DISC2, TRAN1-4, and CLIN1 to accelerate the preclinical development incentivizing multidisciplinary collaborations and rapid progression to IND
- Incorporate prioritization of innovative therapies for diseases that affect Californians



Discovery



Preclinical



Clinical

# SAF Implementation: 3 Phases

## Concepts approved:

- Revised **DISC4 & DISC5** for Discovery Research
- Preclinical Development (**PDEV**)
- Updates to **CLIN2**

Program launch

Program  
implementation

Second Phase of Concepts

Program launch

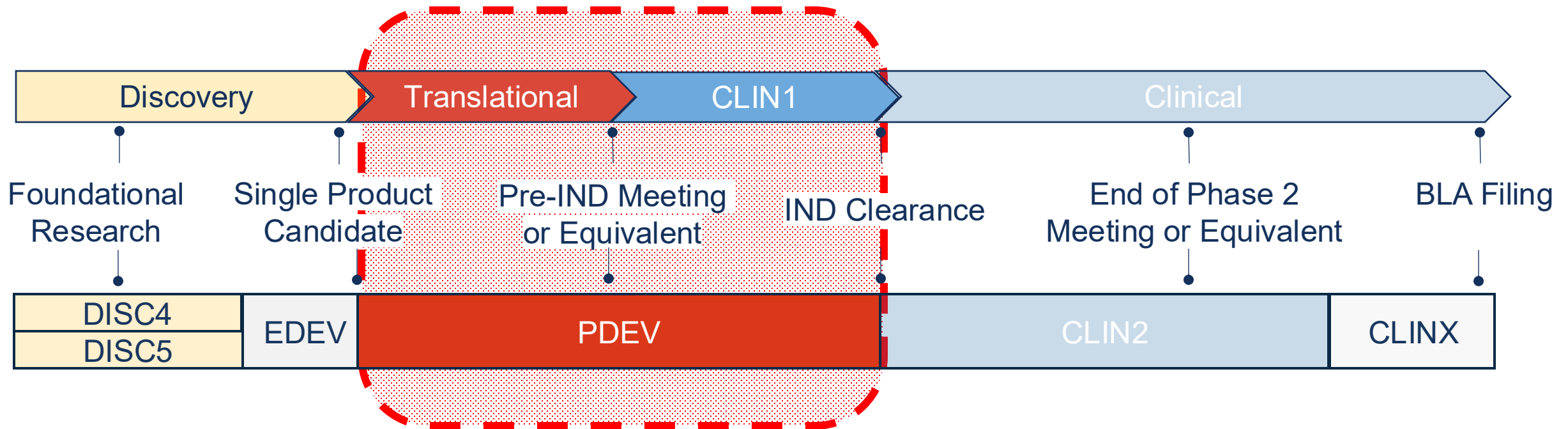
Third Phase of Concepts

# Program Overview

# Overview

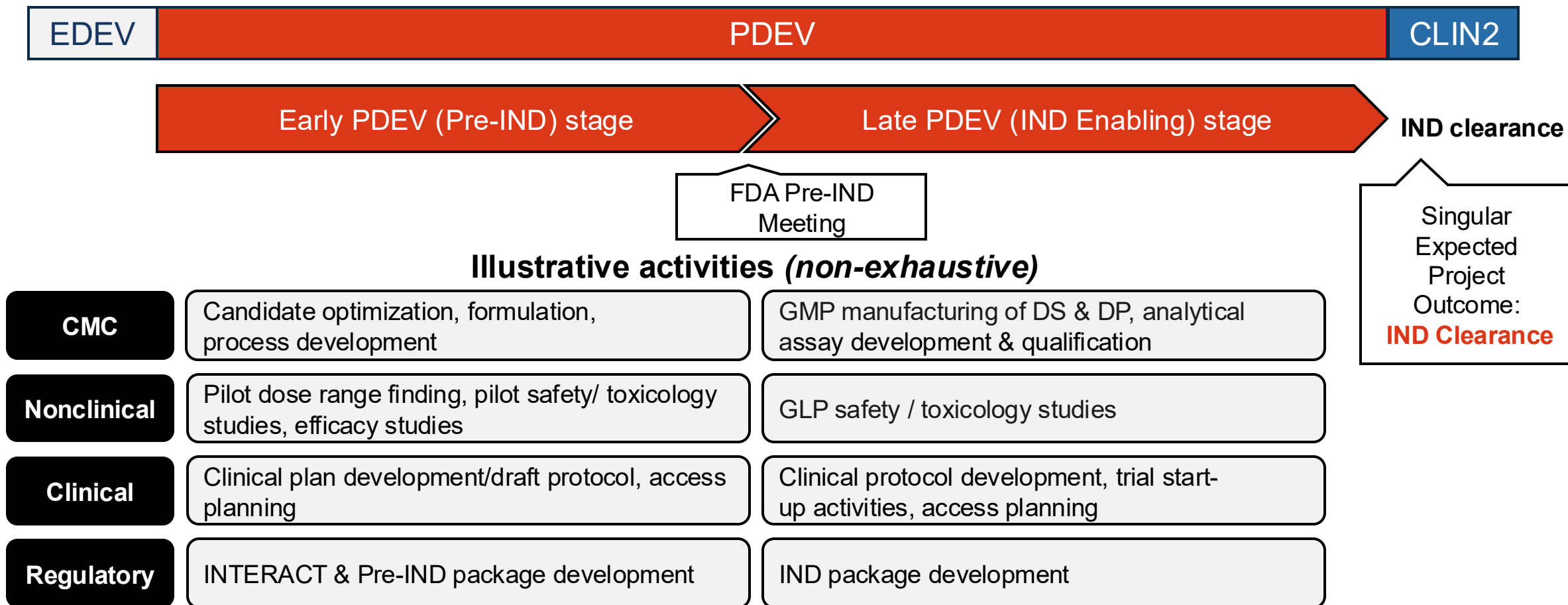


PDEV combines TRAN1 and CLIN1 into one program with a singular **objective of accelerating stem cell-based and genetic therapies to first-in-human clinical trials**



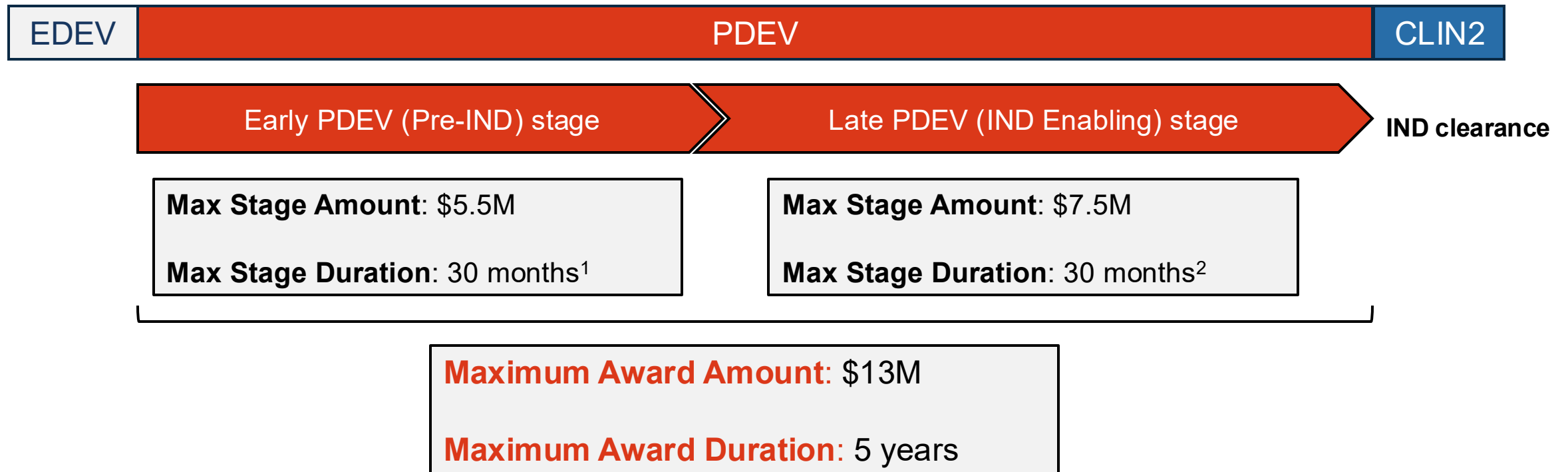
# PDEV | Flexible Entry Points with a Single Outcome

PDEV covers critical pre-clinical development activities **from candidate optimization to trial startup**





# Award Amount & Duration Varies by Stages



<sup>1</sup> Inclusive of maximum optional 6 months for candidate optimization

<sup>2</sup> Inclusive of maximum optional 6 months for trial startup activity following IND clearance

# Program Structure



	PDEV
<b>Recurrence</b>	2x / year
<b>Max Award Duration</b>	5 years
<b>Applicant</b>	California non-profit or for-profit research institutions
<b>Co-funding<sup>1</sup></b>	20% (cash based or warrants based)
<b>Max Award (total cost)</b>	\$13M (Total Project Cost)

<sup>1</sup>Required for for-profit applicants and nonprofits applicants with for profit partners

# Eligibility



	Eligibility Requirements
<b>Applicant</b>	<ul style="list-style-type: none"><li>• California organization</li></ul>
<b>Eligible Candidates</b>	<ul style="list-style-type: none"><li>• Stem cell-based cell therapies and genetic therapies</li></ul>
<b>Candidate Readiness</b>	<ul style="list-style-type: none"><li>• Demonstrated disease modifying activity with candidate (same as TRAN)</li></ul>
<b>Expected Outcome</b>	<ul style="list-style-type: none"><li>• Must propose activities to achieve clearance of IND submission</li></ul>
<b>Award Start</b>	<ul style="list-style-type: none"><li>• Must be ready to start within 90 days of award approval</li></ul>
<b>PI/PM Effort</b>	<ul style="list-style-type: none"><li>• PI – 15% average maintained through duration of award</li><li>• PM – 50% average maintained through duration of award</li></ul>
<b>Co-Funding<sup>1</sup></b>	<ul style="list-style-type: none"><li>• 20% Total Allowable Project Costs (Cash-based or Warrants-based co-funding)</li></ul>

<sup>1</sup>Required for for-profit applicants and nonprofits applicants with for profit partners

# Allowable Activities (PDEV will Fund)

## Allowable activities: Early PDEV (Pre-IND) Stage

- ✓ All activities necessary to ready a human therapeutic candidate for pivotal IND-enabling preclinical studies including preparation and conduct of a pre-IND meeting with the FDA
- ✓ All activities necessary to optimize a candidate and to confirm disease-modifying activity for the finalized single human therapeutic candidate

## Allowable activities: Late PDEV (IND-Enabling) Stage

- ✓ All IND-enabling activities necessary for submission and clearance of an IND with the FDA for a clinical trial with the therapeutic candidate
- ✓ Clinical trial startup activities to facilitate eventual rapid recruitment of patients

## Allowable activities: Across All Stages

- ✓ Activities associated with managing, preserving, and sharing data and knowledge from the project
- ✓ Activities associated with market access strategic planning, including addressing barriers to patient access and affordability

# Out-of-Scope Activities (**PDEV will NOT fund**)

## Unallowable activities: Across All Stages

- X The conduct of a clinical trial beyond start-up activities
- X Patient recruitment, screening, or enrollment
- X Activities already budgeted or paid for under a prior, existing or future CIRM award
- X The costs of activities performed by a separate out-of-state organization that retains intellectual property or independent publication rights in any intellectual property (e.g., invention, technology, data) arising out of the CIRM-funded project
- X Costs incurred on or before the date of ICOC approval

# Access and Affordability Activities in PDEV Awards

- **The following required activities will be milestone**
  - Market landscape assessment/market research
  - Reimbursement and market access strategy
- **The following recommended activities will be reported in progress reports**
  - IP strategy
  - Financial planning and fundraising strategy
  - Regulatory pathway strategy
  - Partnerships and collaborations

# Data and Knowledge Sharing Requirements



# CIRM Data and Knowledge Sharing Requirement

<https://www.cirm.ca.gov/how-to-apply/>

## **1. Develop a Data Sharing and Management Plan (DSMP)**

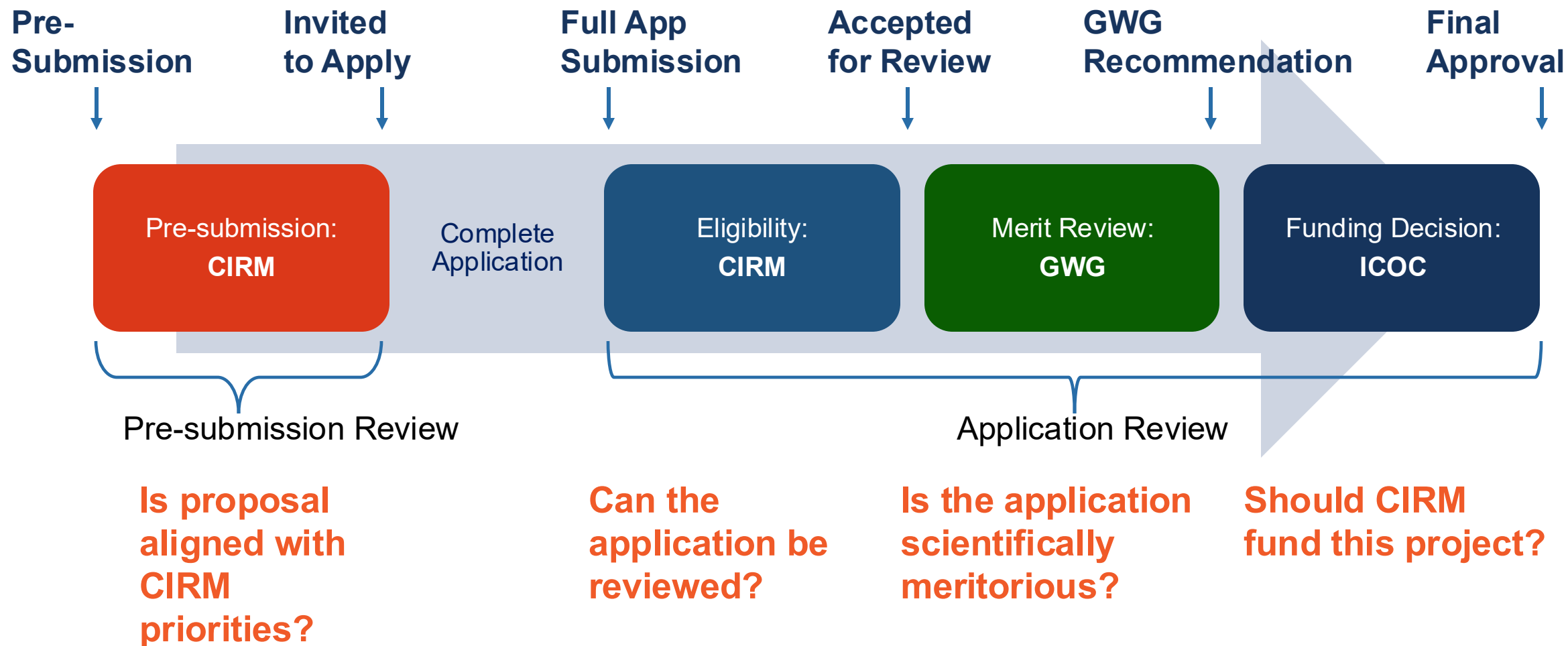
- Metadata Catalog
- Data Use Limitations (DUL) Institutional Certification
- Questionnaire

## **2. Deposit applicable data in data repositories by end of award**

## **3. Participate in the PDEV knowledge sharing network**

# Review Process and Criteria

# Overview of PDEV Application Process



# Scientific Review Criteria

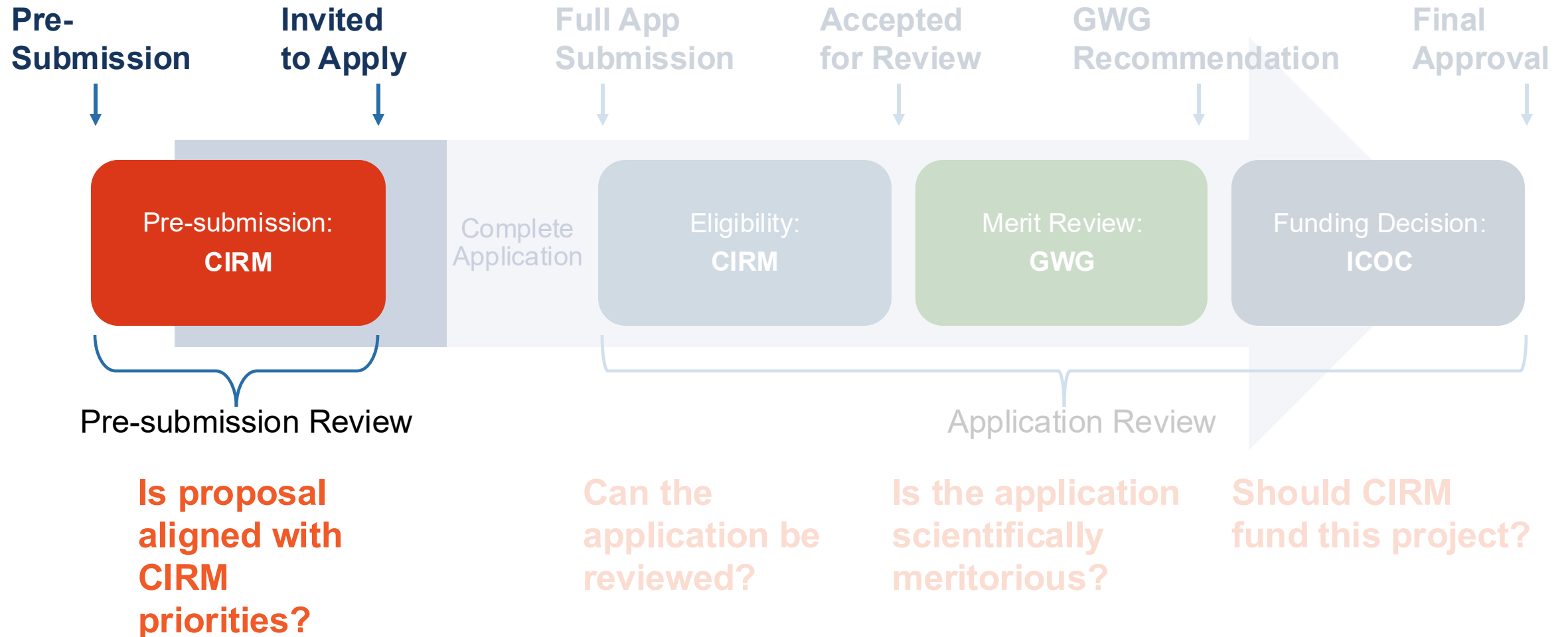
Merit Review

Criteria	Description
<b>Value Proposition</b>	Evaluate the extent to which the therapy offers a compelling value proposition
<b>Rationale</b>	Evaluate the scientific rationale for the proposed therapy and the strength of the supporting data
<b>Project Plan &amp; Design</b>	Evaluate the project's plan and design to achieve an active IND
<b>Project Team &amp; Resources</b>	Evaluate the expertise and resources that will be deployed to achieve the project deliverables
<b>Population Impact</b>	Evaluate the extent to which the project considers the potential impact of the proposed therapy across affected populations

# Pre-submission Components and Considerations

# Overview of PDEV Application Process

*Today's webinar will focus on pre-submission process*



# PDEV | Pre-submission Process Workflow

Pre-submissions  
open now

Pre-submissions  
due June 12

Applications  
open July 17

Applications  
due August 28

## 1 Pre-submission

Applicant completes a short pre-submission form in GMS

## 2 CIRM Reviews

CIRM filters & rank orders pre-submissions based on preferences and related objective criteria

## 3 Full Application

PDEV program invites select applicants to submit full application



# Pre-submission Evaluation Criteria

## Proposition 14 Preferences

- Pluripotent stem cell-derived therapies
- In vivo genetic therapies
- Diseases of the brain and CNS

## Other Preferences

- Non-viral nucleic acid delivery
- Progression from DISC2 and TRAN1 awards
- Pre-IND or INTERACT meeting conducted

## Under-represented therapeutic / disease area

- Targeting a therapeutic / disease area under-represented in CIRM active awards portfolio

## Novelty of therapeutic approach

- Differentiation compared to CIRM active awards portfolio

# Pre-submission Process for PDEV

## *Pre-submission Forms*

- Online pre-submission forms available to prospective applicants in the CIRM Grants Management System
- Forms will collect required information to perform initial eligibility and evaluate for program fit including:
  - Eligibility
  - Team Personnel
  - Project Title & Keywords
  - Project Information
  - Proposed Activities

# Pre-submission: Getting Started

- Log-in at <http://grants.cirm.ca.gov/>
- Click on “Open Programs”

## Other Things You Could Do

- Browse current [Open Programs](#) to start a new application
- Review [Your Applications](#) to see all previously submitted, expired, abandoned, and withdrawn applications

- Select “Start a Pre-submission form for Preclinical Development Program”

## RFAs and Programs Open For Applications

## Actions

PDEV PSUB: Pre-submission form for Preclinical Development Program (PDEV)

[Start a Pre-submission form for Preclinical Development Program \(PDEV\).](#)

*The PI/PD of all applications/pre-applications/LOIs created here will be the person whose name is listed at the top of this page. You cannot use these links to create applications for any other PI/PD.*

# Pre-submission: Components

## ONLINE SECTION

- Eligibility
- Personnel
- Project

## UPLOADS SECTION (Attachment)

**Required**– must use templates provided

- Candidate Eligibility
- Disease Modifying Activity (DMA)

**Required sections will change from “Incomplete” to “Complete” as you work through the pre-submission sections**

### Instructions

[Print View](#)

### Eligibility

[Eligibility](#) Incomplete

### Personnel

[Principal Investigator](#) Incomplete

[Key Personnel](#) Incomp (1)

### Project

[Title](#) Incomplete

[Keywords](#) Incomplete

[Project Information](#) Incomplete

### Uploads

[Document Uploads](#) Incomplete

# Q&A

# Common questions

## Can I schedule a consultation for my pre-submission?

*Consultation calls will not be conducted during pre-submission stage. Applicants who are invited to submit a full application will have the opportunity to request in-depth consultations with CIRM Science Officers.*

## Can non-CA investigators be included in PDEV application?

*Non-CA based investigators are not eligible to serve as PI on PDEV awards. PDEV applicants are allowed to budget grant funds to support non-CA-based collaborators through a grant subcontract, provided the out-of-state organization DOES NOT retain the intellectual property or independent publication rights of any intellectual property arising out of the CIRM-funded project.*

## Do I have to show plans for Late PDEV activities when I'm at Early PDEV?

*Yes, all PDEV applications will need to show plans to achieve IND clearance, which includes Late PDEV activities (i.e., IND-enabling).*

# Please visit our program page for more information

*Today's webinar and final FAQ will be on our website in 2 weeks*

<https://www.cirm.ca.gov/preclinical/>

