

# Research and Evaluation Committee Meeting

**Wednesday, September 1, 2021**  
**9:00 AM– 12:00 PM**

# Agenda

---

9:00 am **Welcome & Introductions**

---

9:10 am **Action: Approval of Meeting Minutes**

---

9:20 am **Information: Triage Grant Program & Preliminary Findings: Formative Evaluation**

---

9:45 am **Information: An Approach to Statewide Evaluation with an Application to Triage Programs**

---

10:30 am **Break**

---

10:40 am **Discussion: Triage Summative Evaluation Plan**

---

11:45 am **Wrap-up & Adjourn**

---

# Welcome

---

COMMISSIONERS DR. ITAI DANOVITCH AND KEN BERRICK



# Agenda Item #1

## Action: Approval of Meeting Minutes

---

COMMISSIONER DR. ITAI DANOVITCH



# Public Comment

---



# Vote

---



## Agenda Item #2

# Information: Triage Crisis Services - An Overview of the Triage Grant Program and Preliminary Findings from the Evaluation of Triage Program Implementation

---

TOM ORROCK, MHSOAC, CHIEF OF OPERATIONS & GRANTS DIVISION

KAI LEMASSON, PHD, MHSOAC SENIOR RESEARCHER





Mental Health Services  
Oversight & Accountability Commission

# Senate Bill 82

Investment in Mental Health Wellness Act of  
2013

MHSOAC Evaluation Committee  
September 1, 2021



A person is seen from behind, sitting on a swing set. The swing is suspended by a chain and is in motion. The background is a sunset over the ocean, with the sun low on the horizon, creating a warm, golden glow. The person's hair is blowing in the wind. The overall mood is peaceful and hopeful.

**Crisis Intervention**  
**Crisis Stabilization**  
**Linkage to Services**  
**Follow Up**

# Background

- \$20 million per year
- Personnel grants
  - Case Managers
  - Peer Providers
  - Clinicians
  - Nurses
  - Psychologists
  - Psychiatrists

# Objectives

- Reduce unnecessary hospitalizations
- Reduce law enforcement expenditures and recidivism
- Expand the continuum of care for MH crisis by leveraging funds
- Provide linkage to MH services
- Improve the consumer experience

# Triage Round 1 Funding (2014-2017)

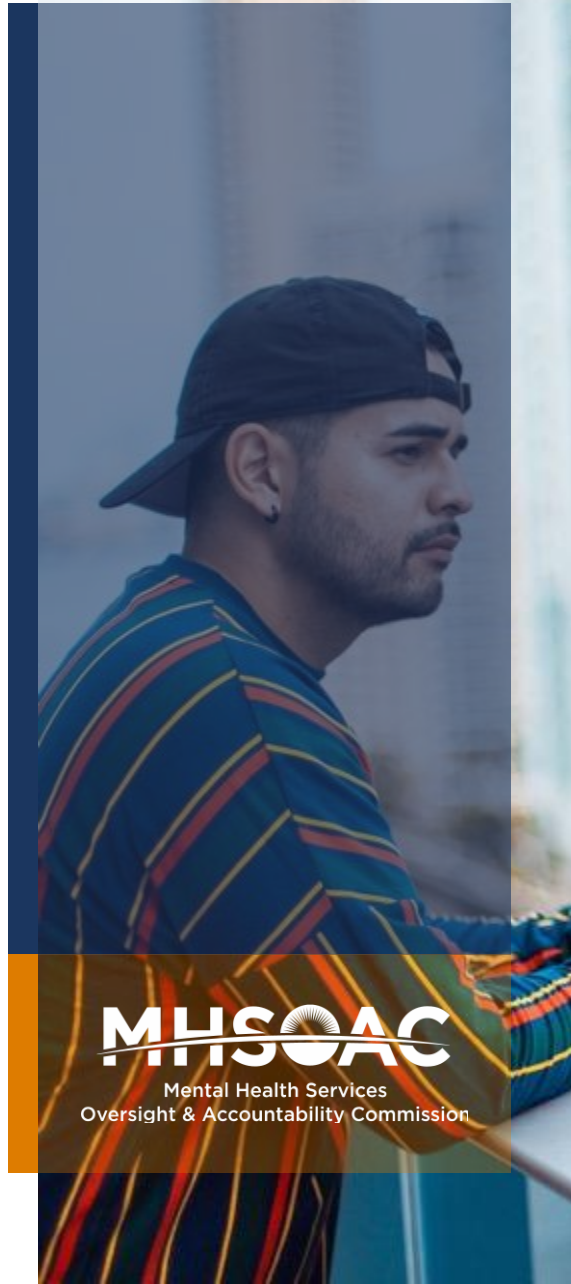
- 24 counties funded
- \$96 million in total funding
- Three-year grants
- Hired 415 MH personnel
- Served 66,811 Californians

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Lessons Learned from Round 1

- Need for Statewide Evaluation
- Services for Children and Youth-17%
- Apportionment based on county size



**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Lessons on Evaluation from Triage Round 1

- No unified approach to evaluation
- Unable to aggregate the collected data
- No statewide cost benefit analysis
- Unable to recommend best practices for intended outcomes

# Program Modifications

- Statewide evaluation strategy
- Set aside for children's Triage funding
- Population based apportionment (Small, Medium, Large)

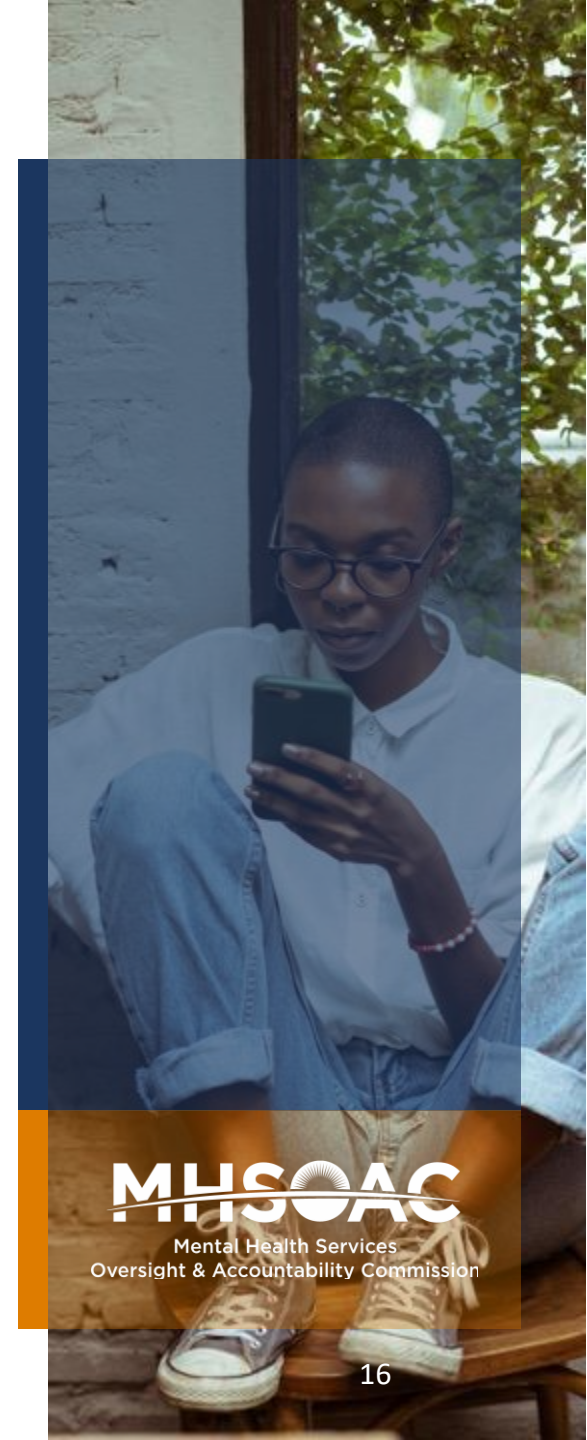


**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Triage Round 2 Funding (2017-2021)

- 30 programs in 20 counties
- \$83 million in total funding
- Three-year grants (Adult/TAY and 0-21)
- Four-year grants (School/County Collaborations)



**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission



# Evaluation of Triage Program Implementation (Round 2)

Formative and process evaluations conducted by UCLA for the Child and School-County Collaboration and UC Davis for the Adult/TAY Programs

## **General Aims**

- 1) Describe implementation activities, processes, and intermediate outcomes.
- 2) Identify barriers and facilitation of program implementation.
- 3) Provide lessons learned and recommendations for future program implementation.

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Data Sources

- **Qualitative Interviews:**  
*Program leads and administrators, clinicians, peers, and clients (Adult/TAY only).*
- **Program Surveys:**  
*Survey administered to program leaders about each county program.*
- **Other Data Sources:**  
*Stakeholder advisory board, stakeholder workgroup meetings, quarterly MHSOAC meetings, County MOUs etc.*

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Triage Program Features

- Heterogeneity
  - Type of program (e.g., mobile crisis unit, school-based services)
  - Care process target areas (e.g., crisis services, care coordination, prevention)
- Complexity

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Key Factors Affecting Triage Program Implementation

- COVID-19 Pandemic
- Staff and Leadership Engagement
- Staff Recruitment and Turnover
- Resources

The logo for the Mental Health Services Oversight & Accountability Commission (MHSOAC). It features the acronym 'MHSOAC' in a bold, white, sans-serif font. The letter 'O' is stylized with a white sunburst or gear-like pattern inside it. The logo is set against a dark blue background that is part of a larger vertical banner on the left side of the slide. The banner has a sunset or sunrise scene with a pier extending into the water.

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Early Lessons Learned

- Programs expand the continuum of crisis services
- Importance of peers and collaborating partners
- Adaptability and innovation are critical
- Must address client's basic needs
- Must be accessible after standard office hours

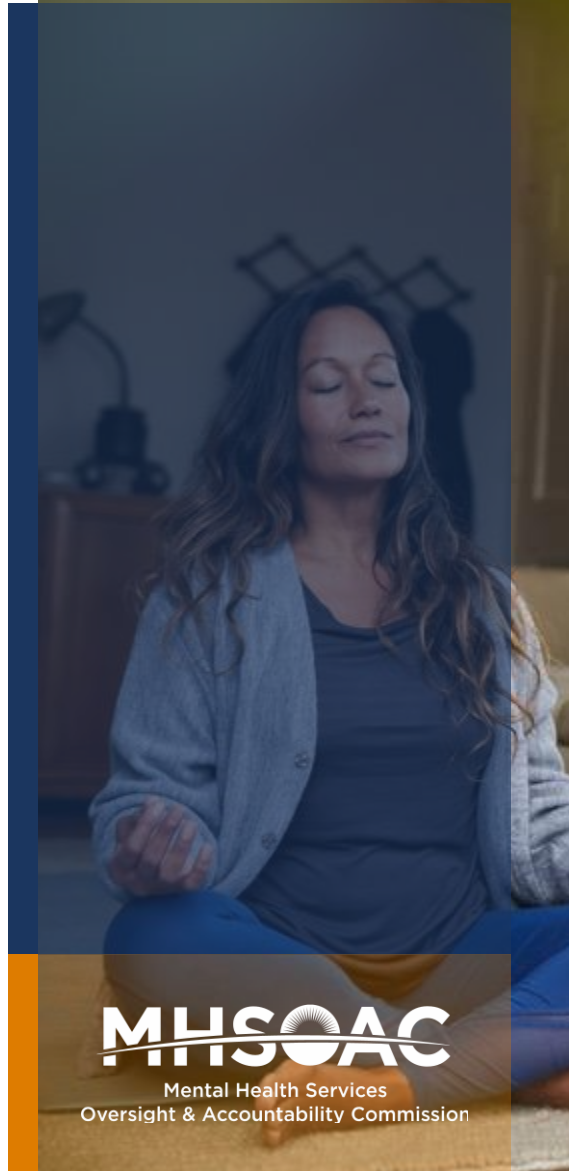
The logo for the Mental Health Services Oversight & Accountability Commission (MHSOAC). It features the acronym 'MHSOAC' in a bold, white, sans-serif font. The letter 'O' is stylized with a white sunburst or circular pattern inside it. The logo is set against a dark blue background that is part of a larger vertical banner on the left side of the slide. The banner has a background image of a pier extending into the ocean at sunset or sunrise, with the sky in shades of orange, yellow, and blue.

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Triage Round 3 Funding

- Developing the Request for Applications
- Award funds in Summer of 2022
- Building in time for implementation
- Focus on expansion or development of three main components:
  - Mobile crisis teams
  - Regional call centers (988)
  - Continuum of diversion options



A man with glasses and a beard is sitting in a dark grey beanbag chair, using a silver laptop. He is wearing a light grey t-shirt and a black watch. The room has a wooden floor, a window in the background, and a red sofa to the left. A blue semi-transparent box is overlaid on the left side of the image, containing the word "Questions" in white text.

# Questions

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Agenda Item #3

## Information: An Approach to Statewide Evaluation with an Application to Triage Programs

---

HEIKE THIEL DE BOCANEGRA, PHD, MPH, MHSOAC RESEARCHER MANAGER

MIKE HOWELL, UC RESEARCHER AND DATA INTEGRATION MANAGER

DENIS HULETT, MS, MHSOAC RESEARCHER







Mental Health Services  
Oversight & Accountability Commission

# AN APPROACH TO STATEWIDE EVALUATION WITH AN APPLICATION TO TRIAGE PROGRAMS

Denis Hulett, MS; Mike Howell, MS; Heike Thiel de Bocanegra, PhD, MPH

9/1/2021

# Triage Summative Evaluation



Mental Health Services  
Oversight & Accountability Commission

# Whole Population: Positive mental health, wellbeing, and school success for Californians

Client Population: Early detection and treatment to foster recovery and resilience.

## Stakeholder Engagement is Central

<b>Broader Context</b> <b>Existing systems, resources &amp; unmet needs</b>	<b>Structure</b> What is the structure of the program or services?	<b>Formative/Process</b> How much is being done? How well is it being done (and why)?	<b>Short-Term Outcomes</b> Does it make a difference and for whom?	<b>Long-Term Outcomes</b> Are there public health benefits?
Infrastructure Capacity Partnerships Resource mapping Needs assessment/gaps Individual/family risk factors School/community context Cultural barriers Access (e.g., transportation)	<ul style="list-style-type: none"> <li>• Description of Program/services</li> <li>• Logic model</li> <li>• SMART goals</li> <li>• Target population</li> <li>• Capacities and resources</li> </ul> Cultural/linguistic responsiveness Flexibility	<ul style="list-style-type: none"> <li>• Feasibility</li> <li>• Community acceptance</li> <li>• Outreach and Engagement</li> <li>• Implementation barriers and facilitators</li> <li>• # of activities or services</li> <li>• # served and their characteristics</li> </ul>	Improved mental health and school outcomes Improved family wellbeing and resilience Reduction in disparities Increased connectedness	High school graduation College admission and retention Reduced system involvement Employment Housing Quality of life

**Standards for Evaluation: Utility, Feasibility, Ethical, and Accurate**

**Dissemination and Lessons Learned**

# Whole Population: Positive mental health, wellbeing, and school success for Californians

Client Population: Early detection and treatment to foster recovery and resilience.

## Stakeholder Engagement is Central

<b>Broader Context</b> <b>Existing systems, resources &amp; unmet needs</b>	<b>Structure</b> What is the structure of the program or services?	<b>Formative/Process</b> How much is being done? How well is it being done (and why)?	<b>Short-Term Outcomes</b> Does it make a difference and for whom?	<b>Long-Term Outcomes</b> Are there public health benefits?
Infrastructure Capacity Partnerships Resource mapping Needs assessment/gaps Individual/family risk factors School/community context Cultural barriers Access (e.g., transportation)	<ul style="list-style-type: none"> <li>• Description of Program/services</li> <li>• Logic model</li> <li>• SMART goals</li> <li>• Target population</li> <li>• Capacities and resources</li> </ul> Cultural/linguistic responsiveness Flexibility	<ul style="list-style-type: none"> <li>• Feasibility</li> <li>• Community acceptance</li> <li>• Outreach and Engagement</li> <li>• Implementation barriers and facilitators</li> <li>• # of activities or services</li> <li>• # served and their characteristics</li> </ul>	Improved mental health and school outcomes Improved family wellbeing and resilience Reduction in disparities Increased connectedness	High school graduation College admission and retention Reduced system involvement Employment Housing Quality of life

**Standards for Evaluation: Utility, Feasibility, Ethical, and Accurate**

**Dissemination and Lessons Learned**

## Triage Legislative Objectives:

- Expanding crisis treatment services by adding crisis residential treatment beds, crisis stabilization services, Mobile Crisis Support Teams, Triage personnel,
- Improving the client experience, achieving recovery and wellness, and reducing costs,
- Reducing unnecessary hospitalizations and inpatient stays,
- Reducing recidivism and mitigating unnecessary expenditures of law enforcement, and
- Expanding the continuum of services with early intervention and treatment options that are wellness, resiliency, recovery oriented in the least restrictive environment.

## Triage Summative Evaluation Questions:

(1) Do SB-82/833 programs for adults, TAY and children:

- Reduce unnecessary psychiatric hospitalizations?
- Reduce the rate of mental health emergency department encounters?
- Reduce arrests and recidivism?
- Increase participation in gainful employment?
- Provide linkages to other behavioral health services and increase provision of those services?

(2) Among behavioral health clients under age 16, do SB-82/833 programs positively impact school related behavior?

## Programmatic/Policy implications

- Replicate successful Triage models
  - Best practices
  - Contextual factors
  - Equity and inclusion of hard-to-reach populations
- Provide the legislature with reliable data to support policy making

# Evaluation Methodology: Statewide Databases



Mental Health Services  
Oversight & Accountability Commission



# Harnessing Statewide Data

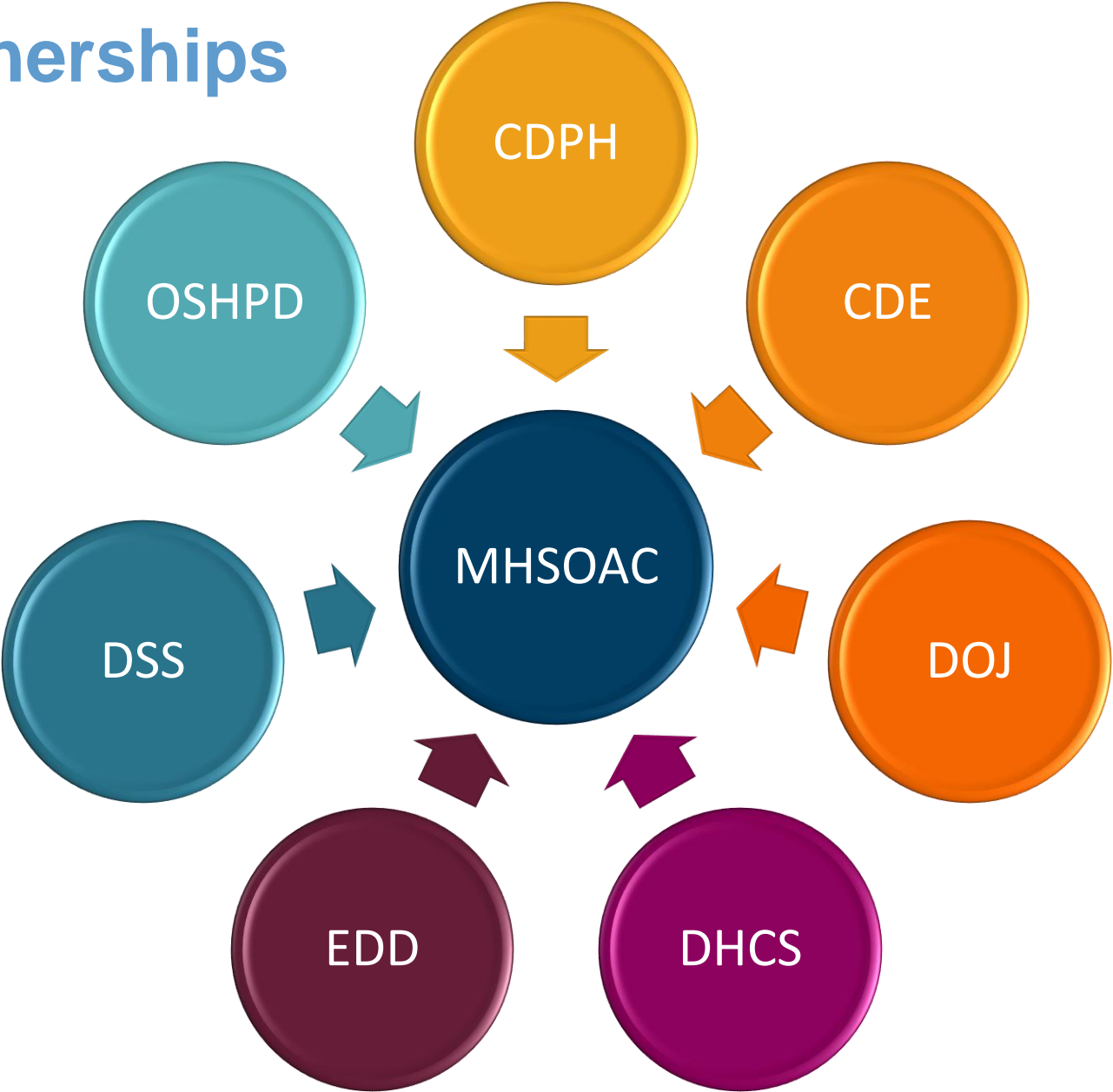
- The Commission has built an extensive data infrastructure
- Merging previously siloed data
- Creating comprehensive pictures for individuals
- Observing trends over time
- Building comparison groups

The logo for the Mental Health Services Oversight & Accountability Commission (MHSOAC). It features the acronym 'MHSOAC' in a bold, white, sans-serif font. A stylized white sun with rays is positioned behind the letter 'O'. The logo is set against a dark blue background that is part of a larger vertical banner on the left side of the slide. The banner shows a sunset over a beach with a pier extending into the water.

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# State Partnerships





# Linking to Outcome Data



Mental Health Services  
Oversight & Accountability Commission

## Clients

CSI  
(1999-2021),  
FSP  
(2006-2021)  
and Program  
Participants

Persons  
receiving  
publicly  
funded  
behavioral  
health services

## Linking Variables

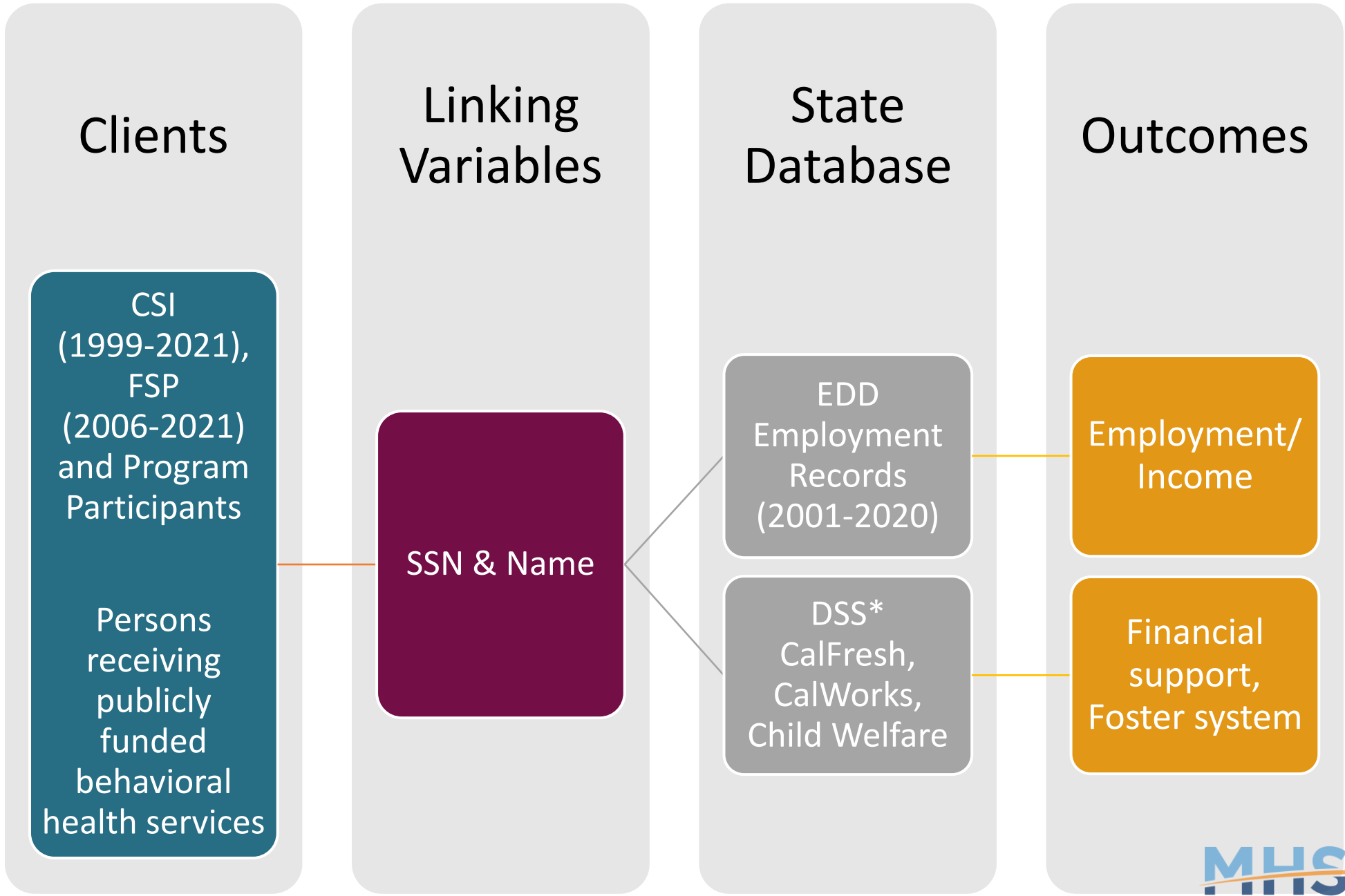
Client ID, SSN,  
Name, Date of  
Birth

## State Database

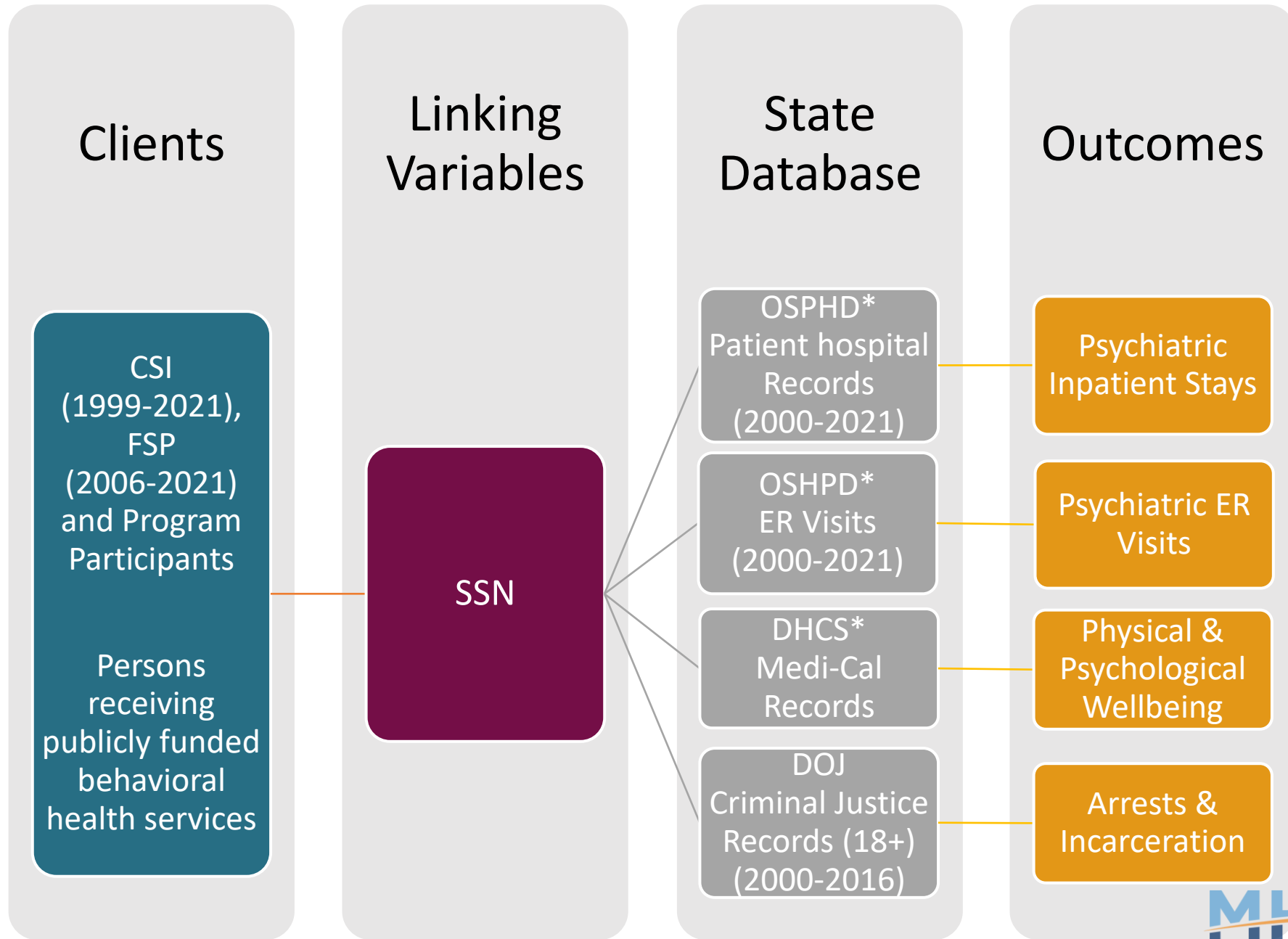
DHCS  
CSI/FSP  
Behavioral  
Health Service  
Records  
(2000-2021)

## Outcomes

Behavioral  
Health Services



\*Pending access



\*Pending access

## Clients

CSI  
(1999-2021),  
FSP  
(2006-2021)  
and Program  
Participants

Persons  
receiving  
publicly  
funded  
behavioral  
health services

## Linking Variables

Name, Date of  
Birth, Sex

## State Database

CDE  
Student  
Records  
(2010-2019)

## Outcomes

Absences,  
Suspensions,  
&  
Assessments



## Clients

CSI  
(1999-2021),  
FSP  
(2006-2021)  
and Program  
Participants

Persons  
receiving  
publicly  
funded  
behavioral  
health services

## Linking Variables

Name, Date of  
Birth, SSN, Sex

## State Database

CDPH  
Death Records  
(2000-2019)

CDPH  
Birth Records  
(2000-2019)

## Outcomes

Suicides

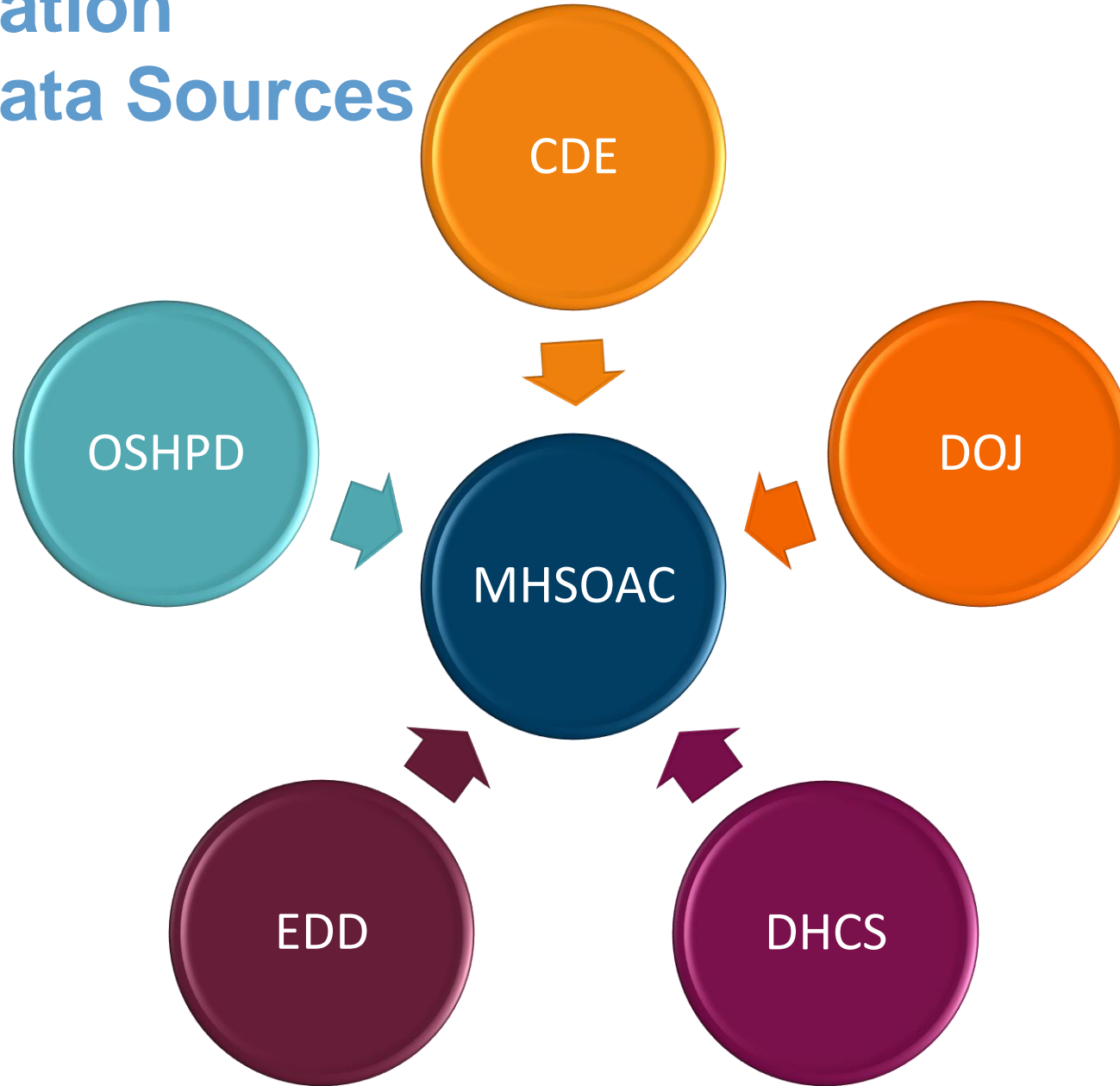
Maternal/  
Perinatal  
Outcomes  
Link Parents\*\*

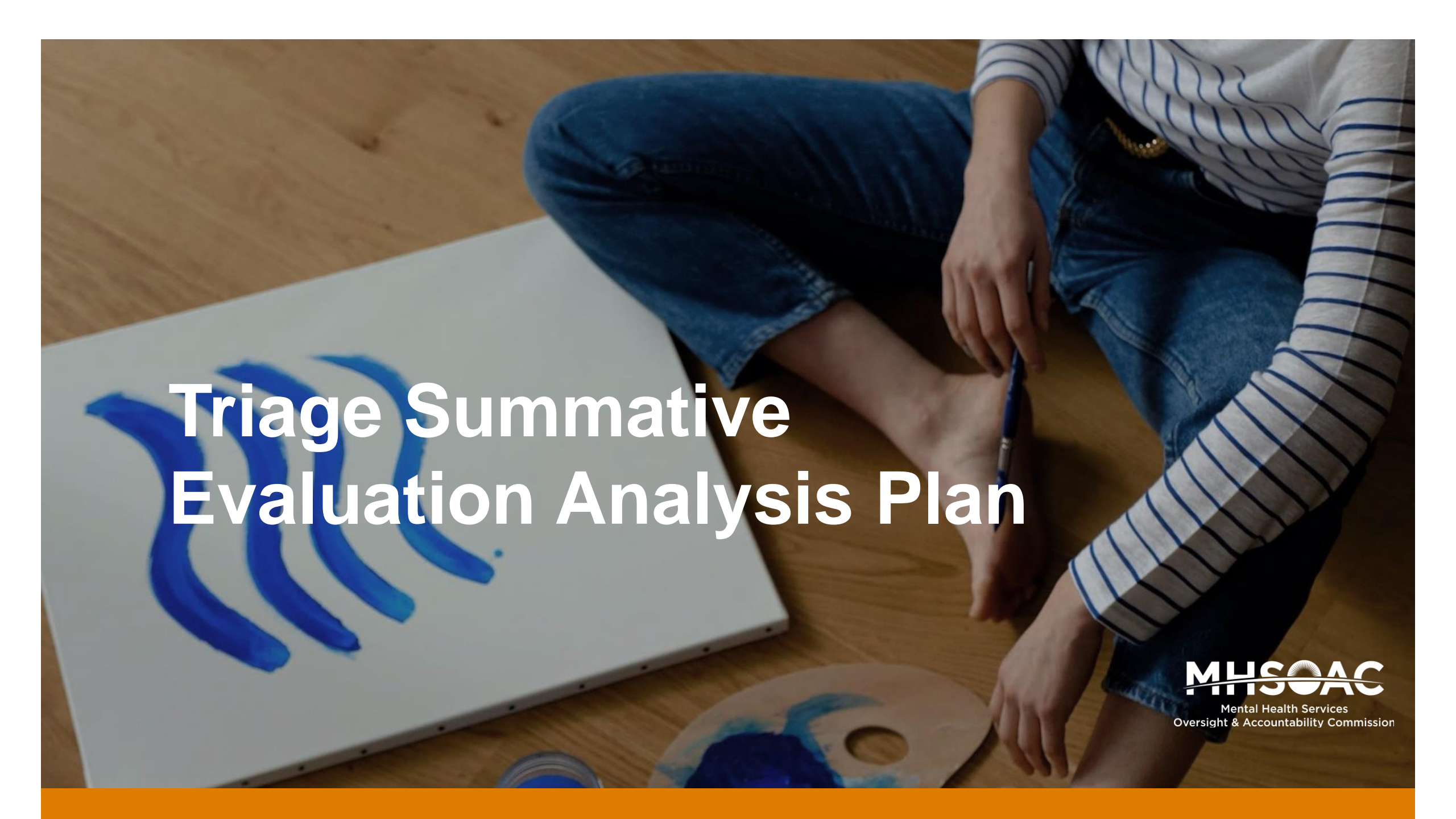
# Application to Triage Evaluation



Mental Health Services  
Oversight & Accountability Commission

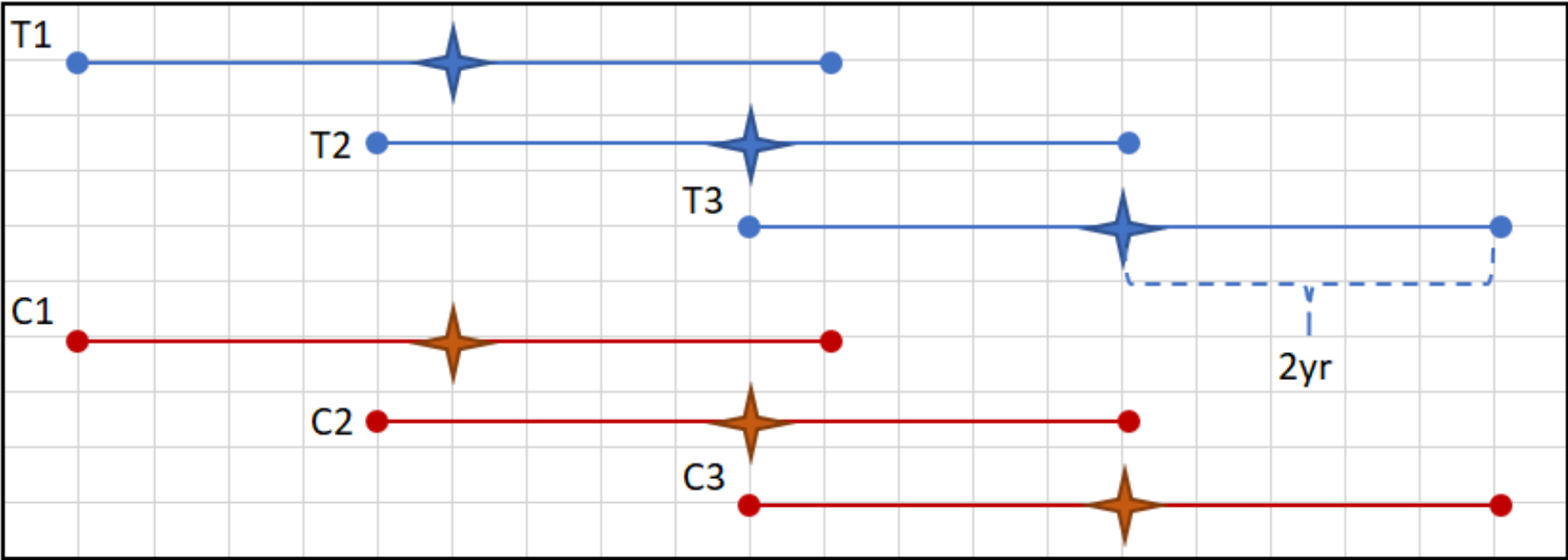
# Triage Evaluation Outcomes Data Sources



A person wearing a blue and white striped long-sleeved shirt and blue jeans is sitting on a wooden floor. They are using a paintbrush to create blue wavy lines on a white rectangular board. A paint palette with blue paint is visible in the foreground. The background is a light-colored wooden floor.

# Triage Summative Evaluation Analysis Plan

# Case Control Longitudinal Framework



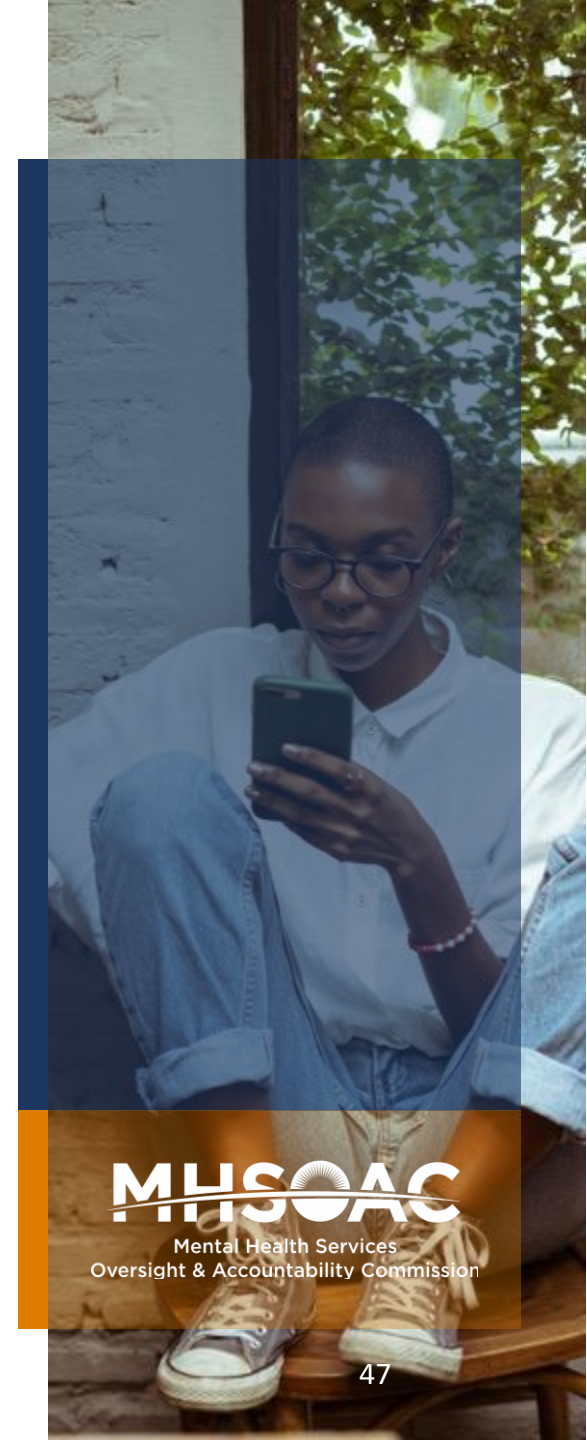
- ★ Index Triage Event
- ★ Control Matched
- Observation Period
- T Triage Client
- C Control

Study Period



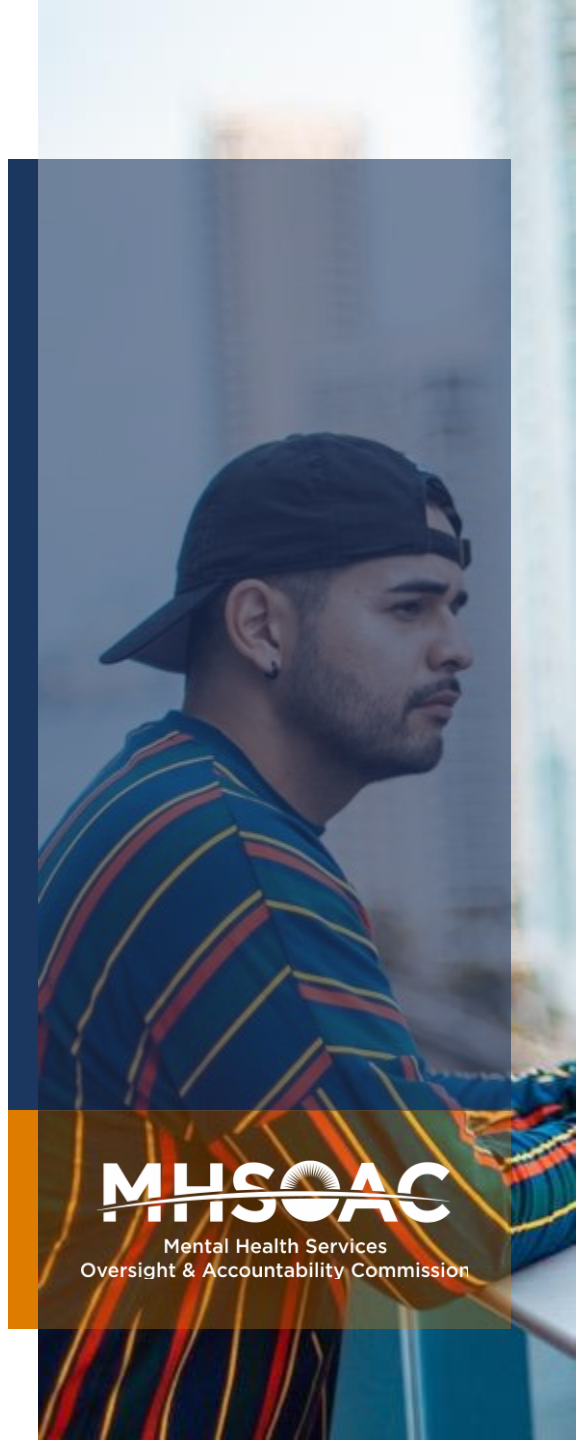
# Study Design

- Randomized Control gold standard
  - Not ethical or practical for many interventions
- Pre/post-intervention study design
  - Not valid during COVID-19: crime down, increased prevalence of mental health disorders and substance abuse
- Non-randomized control group, pre/post-intervention, difference in differences (DiD) design
  - Accounts for unobserved or poorly observed variables



# Selection of Controls

- Chosen from the same county
- Exact match upon diagnosis, age, sex ...
- Propensity score



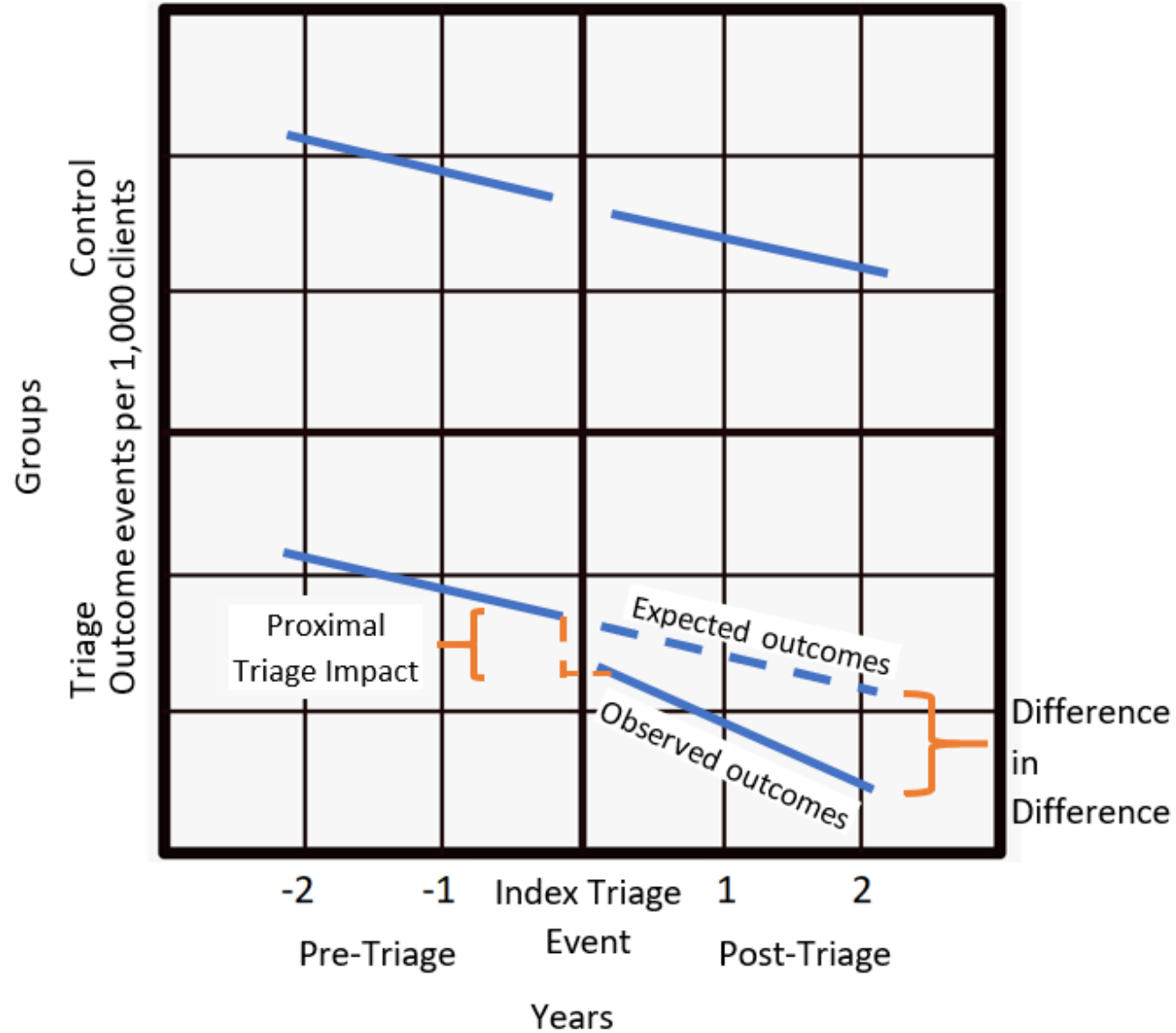


# Interrupted Time Series Difference in Difference Model

- The Commission will employ a pre-/post-test design called an Interrupted Time Series with a Difference in Differences (DiD) non-randomized control study design
- The DiD design will compare the experience pre-/post-Triage index date among the Triage clients to the experience of a non-Triage control group
- The model explores whether:
  - ✓ Trends in the outcomes among Triage clients is significantly different than that of non-Triage clients
  - ✓ An intervention had an immediate impact upon outcomes

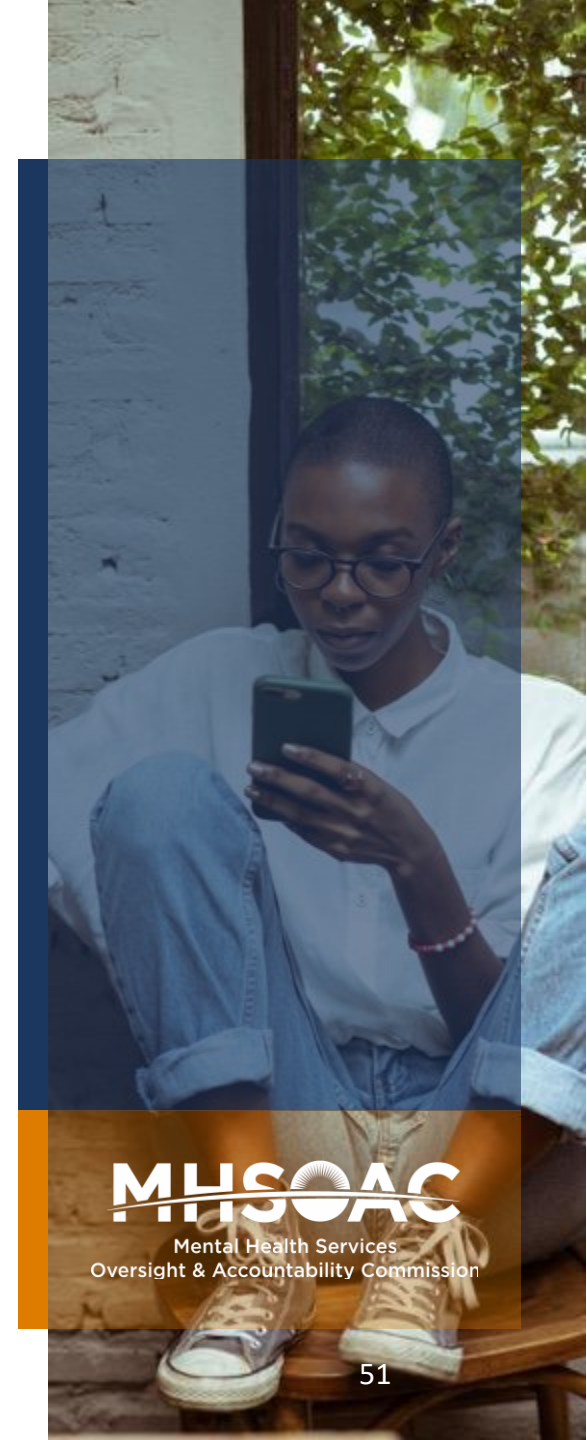
$$Y_t = \beta_0 + \beta_1 time_t + \beta_2 intervention_t + \beta_3 time\_post_t + \beta_4 Group + \beta_5 Group \times time_t + \beta_6 Group \times intervention_t + \beta_7 Group \times intervention \times time\_post + \beta_8 Covariate_1 + \dots + \beta_{(p+8)} Covariate_p + \varepsilon_t$$

# Difference-in-Difference (DiD) Statistical Analysis



# Cost Analysis

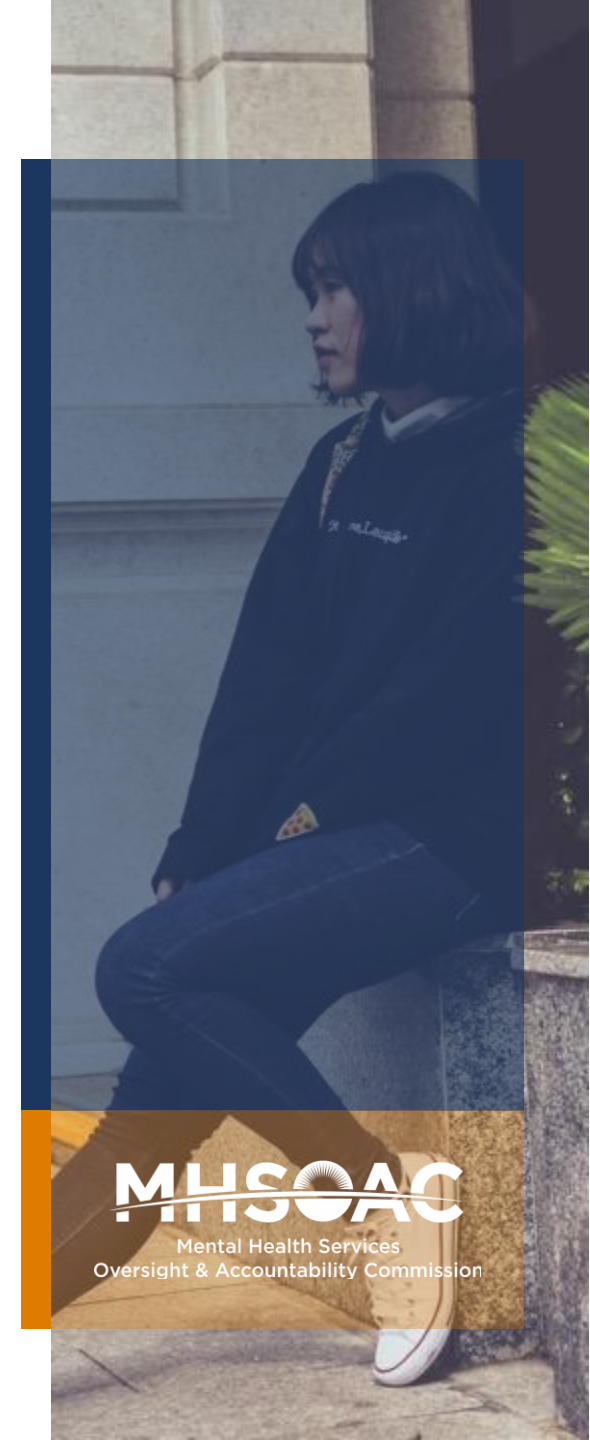
- Estimate public costs associated with evaluation outcomes
- Calculate cost change as a function of outcome changes
- Subtract amounts of Triage grant awards from calculated cost change



# Beyond evaluation of statewide success

Sub-analyses for Triage currently under consideration are:

- Individual counties
- Triage program type
- By race/ethnicity
- Age
- Trauma
- More than one PDC code
- Geographic region
- Place of birth
- Language



## Limitations

- This approach uses proxies for mental health and cannot assess client experience.
- Data is not standardized and evenly reported across counties. Commission is working on standardizing with dashboards, feedback, & training.
- Record linking errors – need assessment
- Varied timing of data availability may restrict periods for evaluation

# Comments from Committee Members

- The plan generally has the right evaluation questions and design.
- Data quality must be considered.
- Consider measuring: (1) not only whether an outcome occurred but when an outcome occurred, and (2) varying treatment effects by county.
- More information about programs and how they work (formative and process evaluations)

*“Need to understand how the Triage program links people to the right programs/services, and why people do and do not follow-up with services.”*

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Dissemination Timeline\*

- Dashboard, *April 2022*
- Statewide Triage conference, *Sept 2022*
- Data briefs, *2023*
- Final report, *July 2024*

\*Pending data availability

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Policy/Programmatic Implications

- Replicate successful Triage models
  - Best practices
  - Contextual factors
  - Equity and inclusion of hard-to-reach populations
- Provide the legislature with reliable data to support policy making

**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission



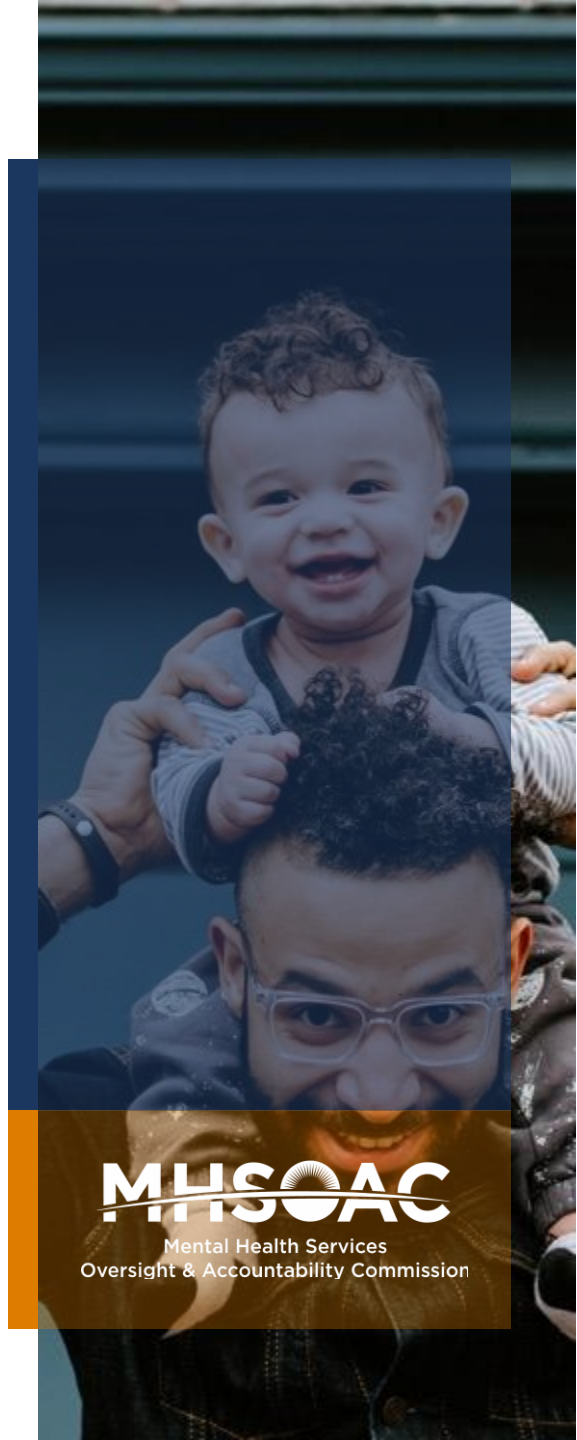
# Application to Mental Health Student Services Act



Mental Health Services  
Oversight & Accountability Commission

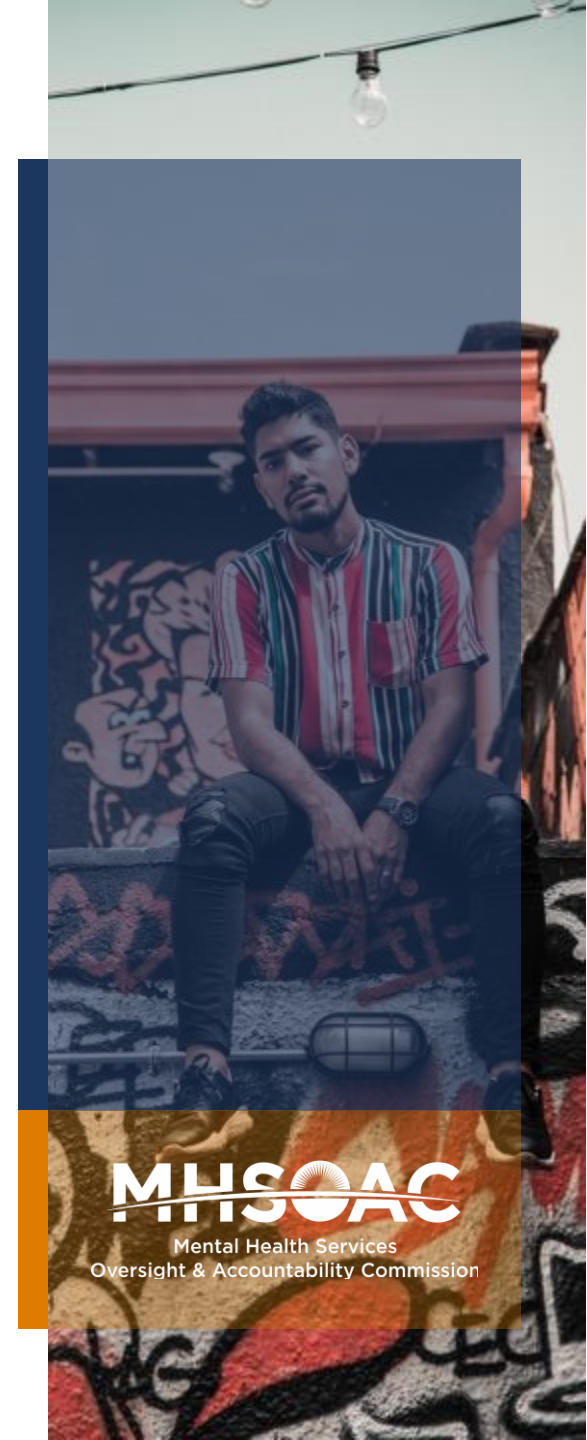
# Mental Health Student Services Act (MHSSA)

- Partnerships of behavioral health and education
- Provide services to students and their families
- 38 School-County partnerships
- The Commission is anticipating an additional 20 awards next year, amounting to 58 MHSSA programs statewide



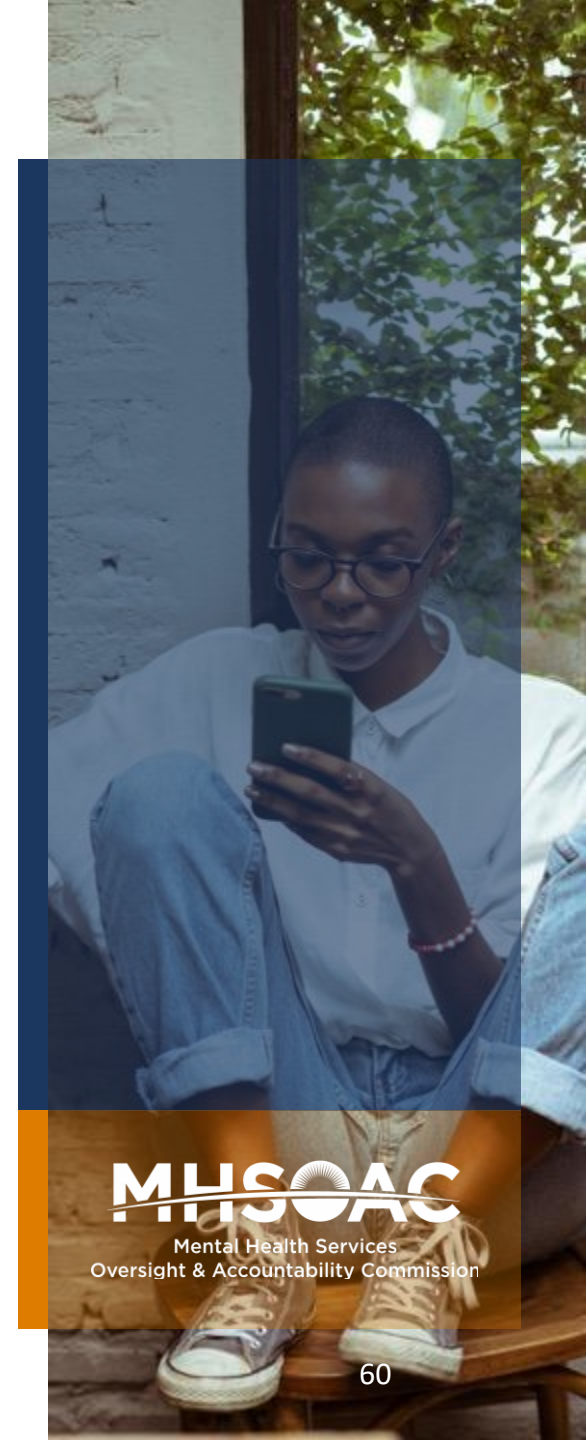
# Priority areas of MHSSA grant programs

1. Preventing mental illnesses from becoming severe and disabling.
2. Improving timely access to services for underserved populations.
3. Providing outreach to families, employers, primary care health care providers, and others to recognize the early signs of potentially severe and disabling mental illnesses.
4. Reducing the stigma associated with the diagnosis of a mental illness or seeking mental health services.
5. Reducing discrimination against people with mental illness.
6. Preventing negative outcomes in the targeted population, including: (a) Suicide; (b) School failure or dropout; (c) Removal of children from their homes; (d) Involuntary mental health detentions



# Application of the Framework to MHSSA

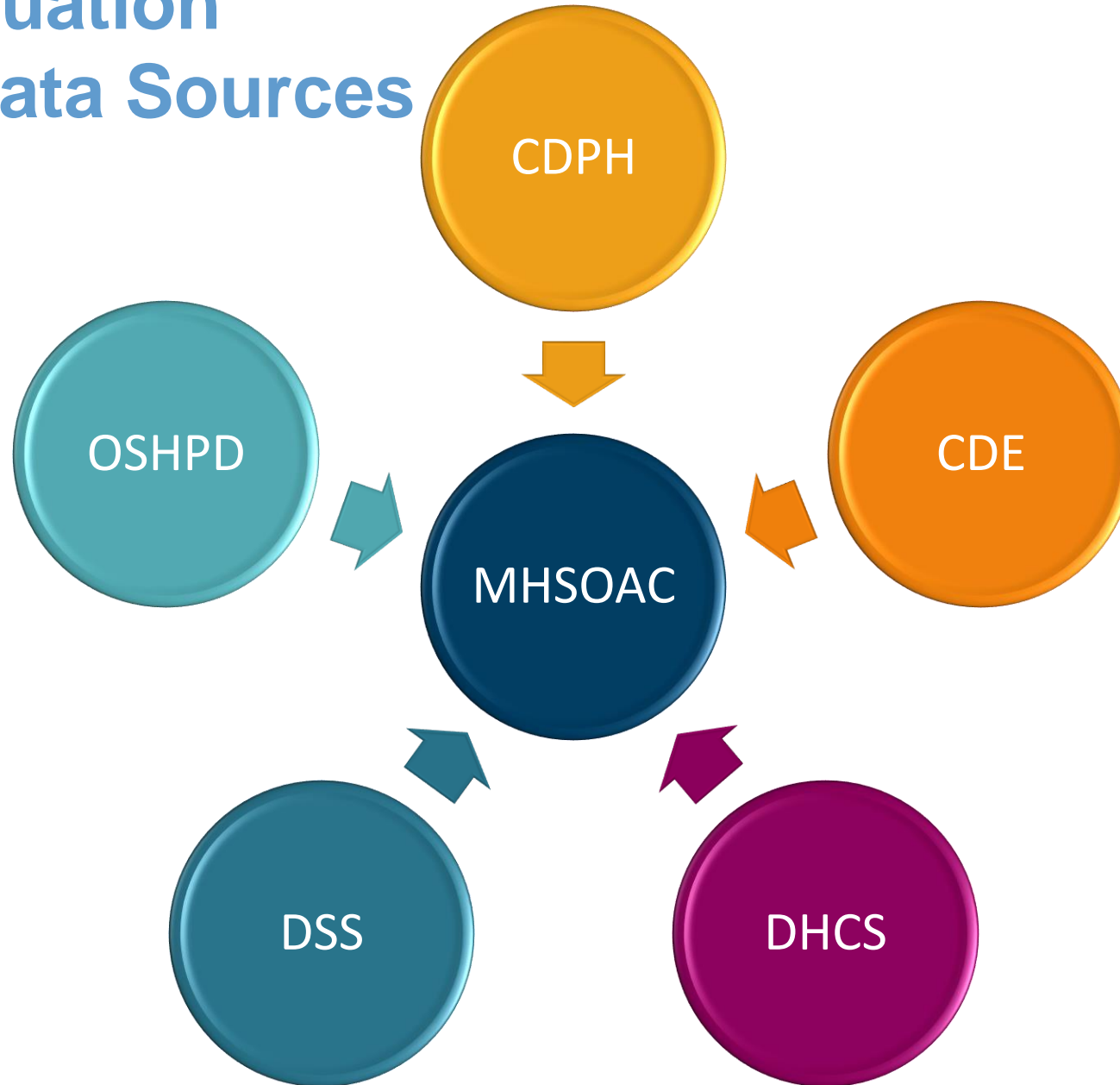
- The same approach can be used for the summative evaluation of MHSSA programs
- CDE data can be utilized to gather educational data over time for participants
- Utilizing the infrastructure presented, high-risk youth can be identified
  - This potentially includes foster youth, gender identity, those with suspensions and/or expulsions



**MHSSOAC**

Mental Health Services  
Oversight & Accountability Commission

# MHSSA Evaluation Outcomes Data Sources



# MHSSA Evaluation Design Consideration

- Statewide implementation requires special attention when building comparison groups
- Can staggered implementation (2020, 2021 and 2022) of awards be used to form control groups?
- Potential of long-term follow up of students beyond award period remains



**MHSOAC**

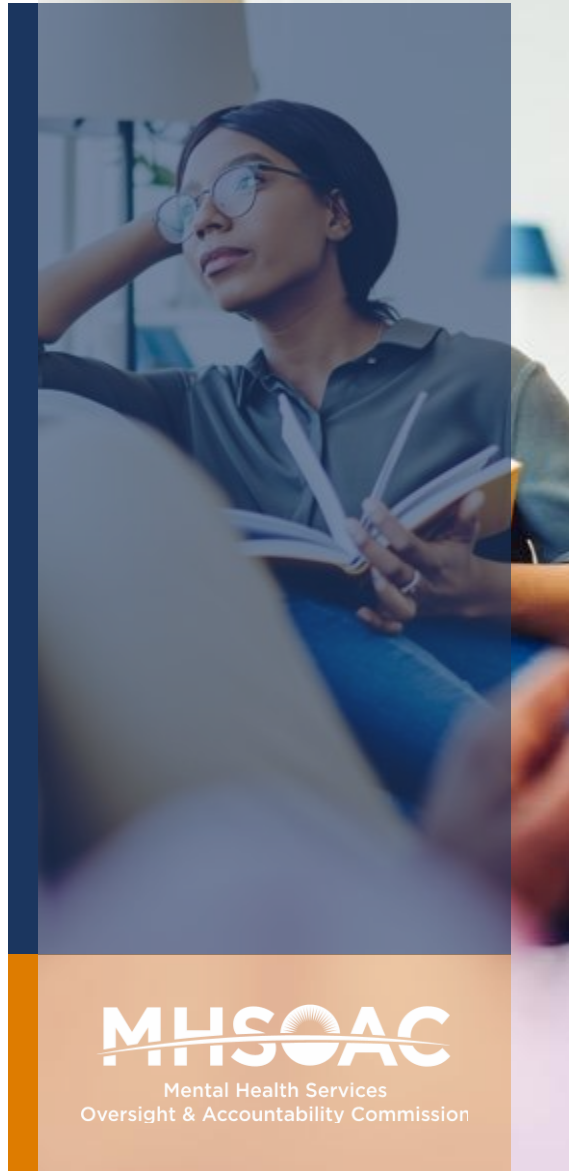
Mental Health Services  
Oversight & Accountability Commission

## ...and beyond: An example

A child receives services by a school counselor funded by a program in their southern California middle school. A file is opened for this child in the CSI. Access to these services by this child allows the Commission to investigate the child's academic performance by linking to the Department of Education.

This child moves with their family to a northern California halfway through their freshman year in high school. Fortunately, this school can help the child with the transition to a new environment at their wellness center. This student goes on to graduate.

As time moves beyond graduation, the student has only one minor incident with the criminal justice system. While this student moved across and beyond several school systems (moving, graduation), the Commission can observe outcomes beyond the educational system.



**MHSOAC**

Mental Health Services  
Oversight & Accountability Commission

# Acknowledgments

Dawnté Early, PhD, MS; Chief of MSHOAC Research and Evaluation Division

Brian Sala, PhD; MHSOAC Deputy Director for Research and CIO

Ann A Lazar, PhD; UCSF Statistician

Kai LeMasson, PhD, MHSOAC Researcher

Heather Barr, MPH, CPH; former Triage Program Manager

Triage county frontline and administrative staff





Mental Health Services  
Oversight & Accountability Commission

For questions or comments, please email:  
[Evaluations@mhsoac.ca.gov](mailto:Evaluations@mhsoac.ca.gov)

# BREAK

---

# Agenda Item #4

## Action: Summative Evaluation Plan

---

FACILITATOR: BRIAN SALA, DEPUTY DIRECTOR OF RESEARCH AND CIO



# Discussion

---

# Question #1a

---

1a) **Are we asking important evaluation questions?**

**What suggestions do you have for improving the framing of those questions, given our charge to conduct a statewide evaluation of highly heterogeneous grant programs?**

# Question #1b

---

- 1b) **Given the program constraints and the data constraints, how would you suggest we refine our methods to answer these important evaluation questions?**

## Question #1c

---

- 1c) **What is your advice regarding the overall evaluation plan? Are there major outcome domains that we are missing and what are your recommendations? Are there major confounders that we are missing and what are your recommendations?**

## Question #2a-c

---

**Issues of health equity are of high interest to the Commission.**

- 2a) How can we improve this evaluation's attention to equity?**
- 2b) What lessons can and should we apply to future evaluation efforts about how to better build equity considerations in from the start?**
- 2c) How will the results allow us to inform practice, policy, and improve equity?**



# Public Comment

---



# VOTE

---



# Wrap-Up & Adjourn

---

COMMISSIONERS DR. ITAI DANOVITCH AND KEN BERRICK



# Thank you!

---

