



**Manifest**  
MEDEX

# Standing Strong for All: Resilience and Innovation in Public Health

October 2, 2025





# AGENDA

- 1 Introductions
- 2 Youth Suicide Prevention Pilot Overview
- 3 Legal Framework
- 4 Technical Approach and Collaboration
- 5 Project Timeline
- 6 Lessons Learned



# SPEAKER INTRODUCTIONS



Jason Buckner  
Chief Information Officer  
Manifest MedEx

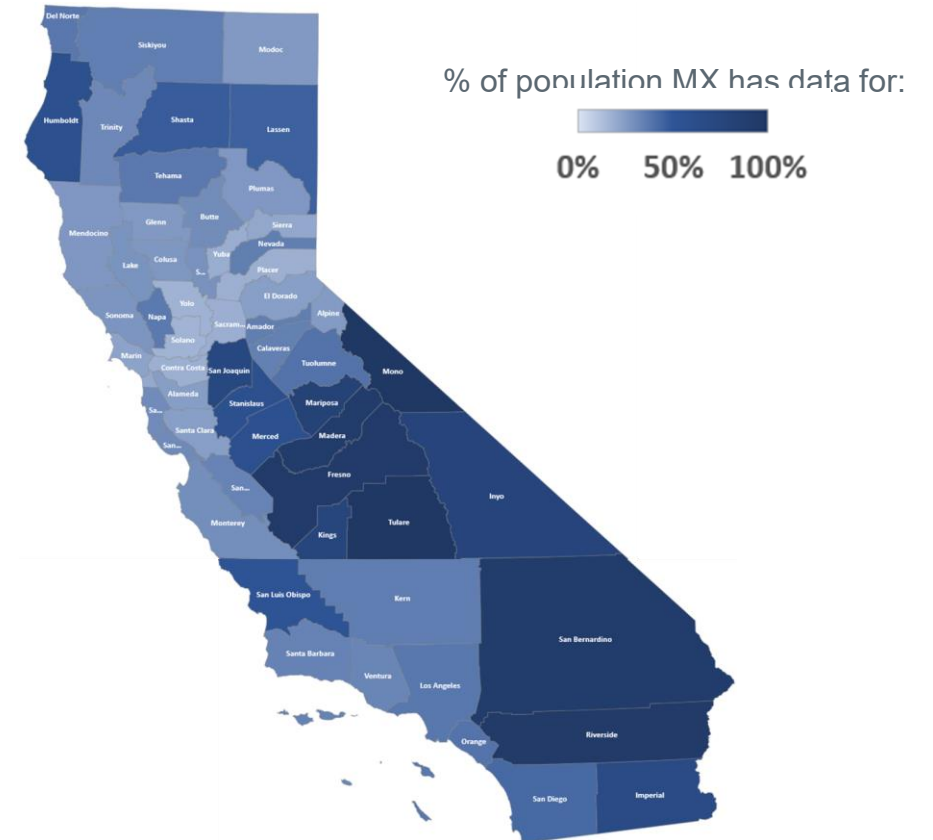


Joe Prado  
Interim Director  
Fresno County Department  
of Public Health



# ABOUT MANIFEST MEDEX

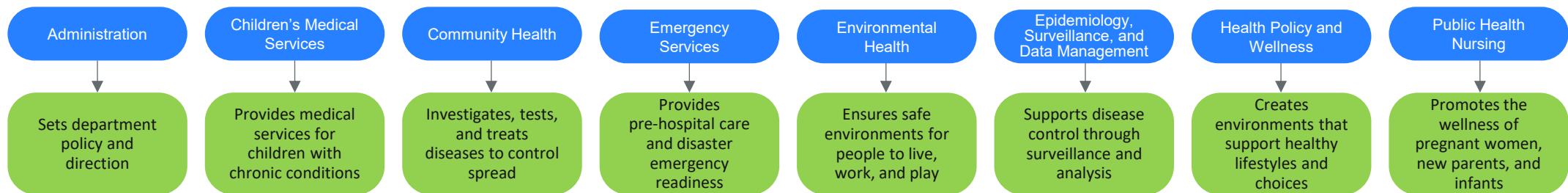
- Mission: provide every healthcare organization in California with the information they need to improve care, enhance health, and lower costs
- Largest nonprofit health information organization in California
  - Providing claims, clinical, and lab data for 44M individual records across 17 health plans, 140+ hospitals, and 2600+ providers.
  - 3M+ admission, discharge, and transfer (ADT) notifications delivered monthly
- CalHHS Data Exchange Framework (DxF) Qualified Health Information Organization (QHIO)
- Interoperability with 70+ EHRs
- Access to national networks via eHealth Exchange, TEFCA
- HITRUST CSF Certified since 2019
- NCQA Validated Data Streams since 2021





# ABOUT FRESNO COUNTY DEPARTMENT OF PUBLIC HEALTH

- Mission: *The promotion, preservation and protection of the community's health*
- County profile:
  - 5,959 square miles (6<sup>th</sup> largest)
  - 1,022,707 residents (10<sup>th</sup> most populous)
  - 53% Hispanic, 29% White, 10% Asian, 4% Black, 2% Multiracial
  - 21% of families with children live in poverty
  - 21% of population are K-12 students
- Organization Profile:
  - 400 employees across Administration and 7 Divisions





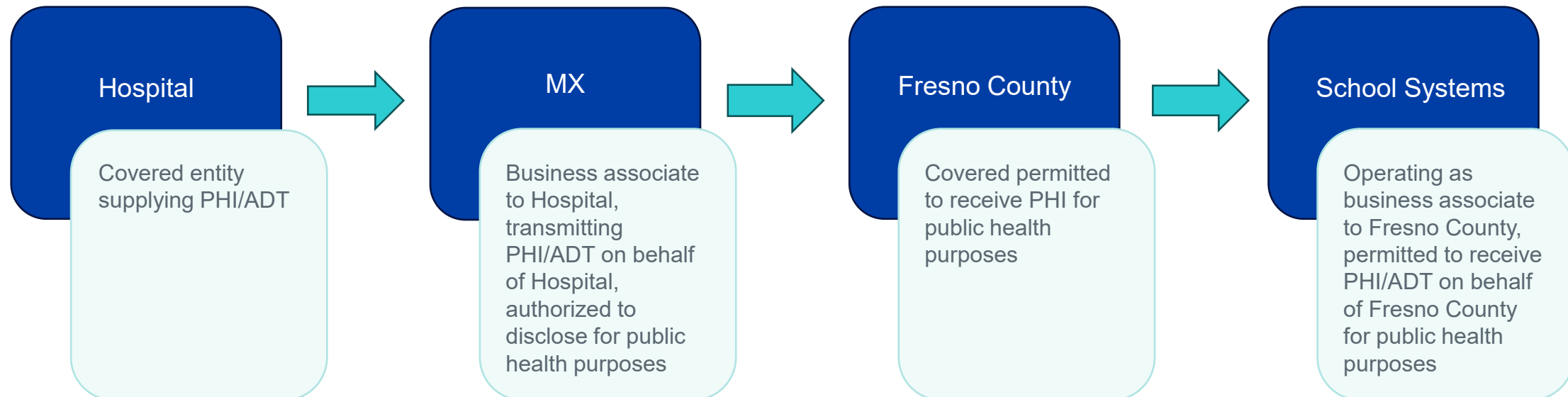
## PILOT OVERVIEW

- The Youth Suicide Prevention (YSP) pilot tested the feasibility of leveraging real-time hospital admit, discharge, transfer (ADT) data to alert school district support staff when a student is in crisis.
- Real-time alerts will enable appropriate school district staff to support the student as quickly as possible.
- Partners in the pilot include:
  - Central Unified School District
  - Sanger Unified School District
  - Manifest MedEx Health Information Exchange (MX)
  - Fresno County Department of Public Health (FCDPH)
  - Fresno County Hospital Partners
- Pre-cursors to pilot launch included:
  - Development of a legal framework to allow for the secure exchange of data
  - Collaboration efforts to design the technical solution.



## LEGAL FRAMEWORK

- Through business associate agreements (BAAs) between participating school districts and FCDPH, the use and disclosure of PHI for public health purposes is permissible under HIPAA.
  - **School district staff who receive ADT alerts will be required to complete HIPAA training.**
- FERPA: For patient matching purposes, the schools will provide only demographic data not protected by FERPA (directory data). Schools are required to inform parents (or eligible students) what will be disclosed and give them an opportunity to submit an opt-out form.



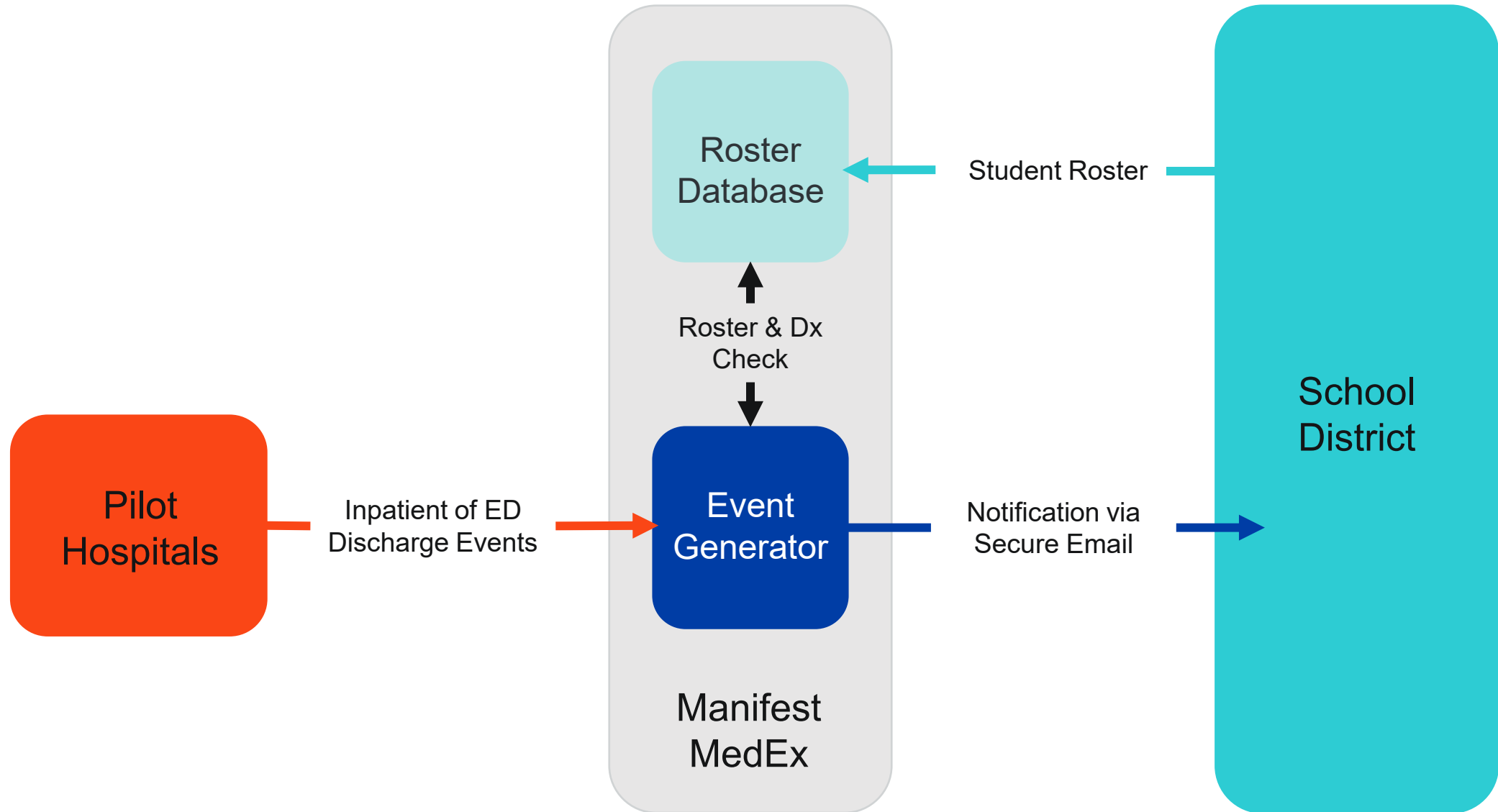


## TECHNICAL APPROACH & COLLABORATION

- Initial project design targeted 5150 holds (involuntary admissions) to trigger ADT notifications to be delivered to appropriate school district support staff and behavioral health experts.
- Through hospital interviews and analysis of ADT data, MX concluded that 5150 holds are not consistently identified in the ADT feeds.
- MX team and Fresno DPH collaborated to identify appropriate ICD-10 diagnosis codes to trigger ADT alerts.



# TECHNICAL WORKFLOW





## TECHNICAL COLLABORATION: IDENTIFYING ICD-10 CODES

- MX and DPH initially chose to use the following three ICD-10 codes to identify qualifying ADTs:

ICD-10	Description
T14.91	Suicide attempts and interrupted attempts
Z91.5	Personal history of a suicide attempt(s)
R45.851	Suicidal ideation

- MX found **747** youth age 0-19 in Fresno County meeting that criteria in 2024.



## TECHNICAL COLLABORATION: IMPROVING ICD-10 CODES

Upon further investigation, the team proposed including additional ICD-10 code filtering logic published by Gabella et al. (2022) which demonstrated high positive predictive value for identifying intentional self harm in ED billing records.

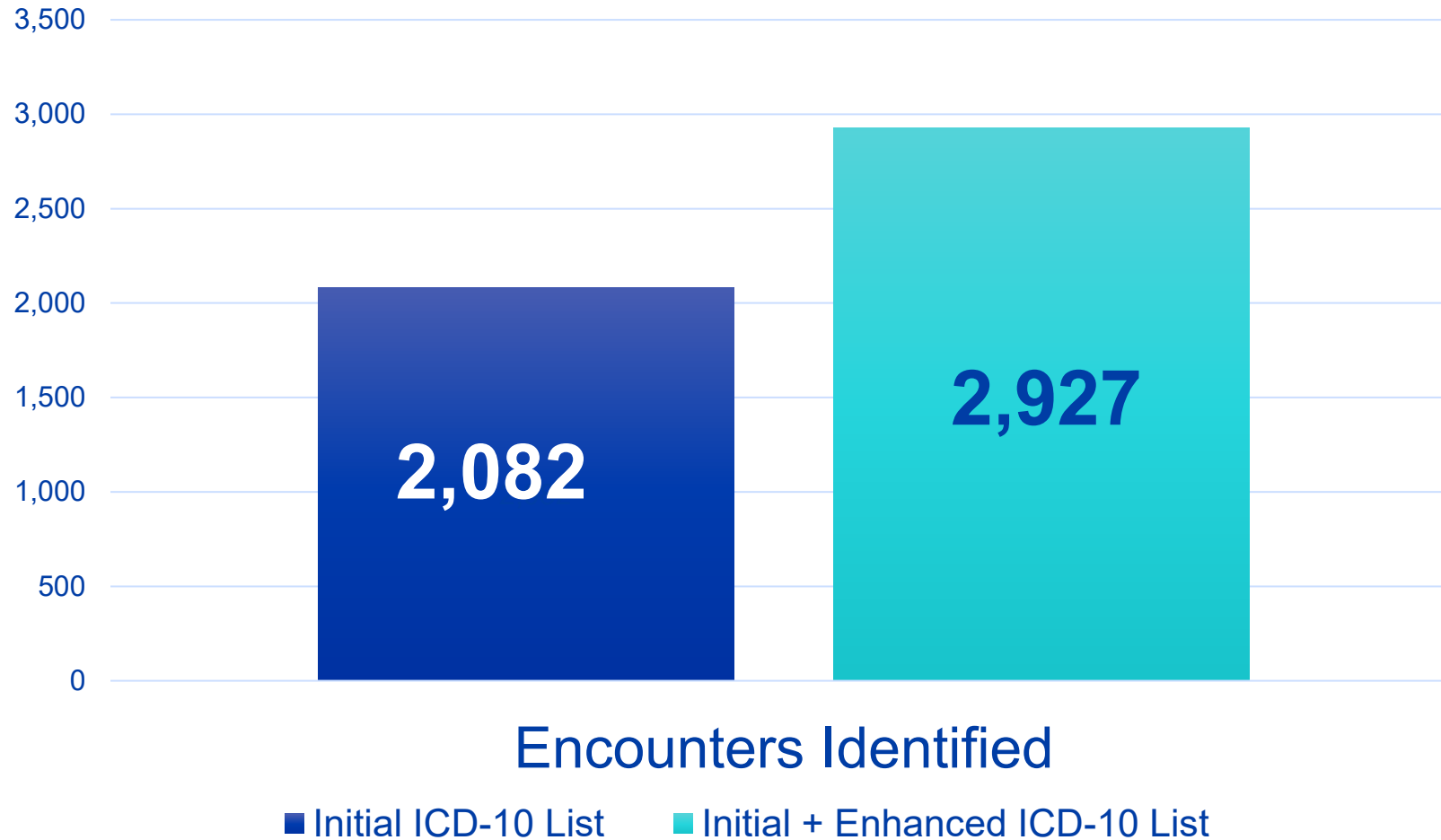
ICD-10	Description	Modifiers
X71-X83	Intentional Self-Harm Codes	
T36-T50	Poisoning	Intentional Self-Harm
T51-T65	Toxic Affects of Substances	Intentional Self-Harm
T71	Asphyxiation, suffocation, hanging	Intentional Self-Harm

➤ This added **1,083** diagnosis codes for consideration.



# TECHNICAL COLLABORATION: IMPROVEMENT IN ENCOUNTER IDENTIFICATION

Hospital encounters in 2024 for patients up to 18 years old with indication of suicide or self-harm attempt





# ENCOUNTERS ANALYSIS: RACE, ETHNICITY, DIAGNOSIS

## Top 5 Race & Ethnicity

<b>Race + Ethnicity</b>	<b>Encounters</b>
WHITE   Hispanic or Latino	1,043
OTHER RACE   Hispanic or Latino	368
WHITE   Non-Hispanic or Latino	365
UNKNOWN   Unknown	318
WHITE   Unknown	222

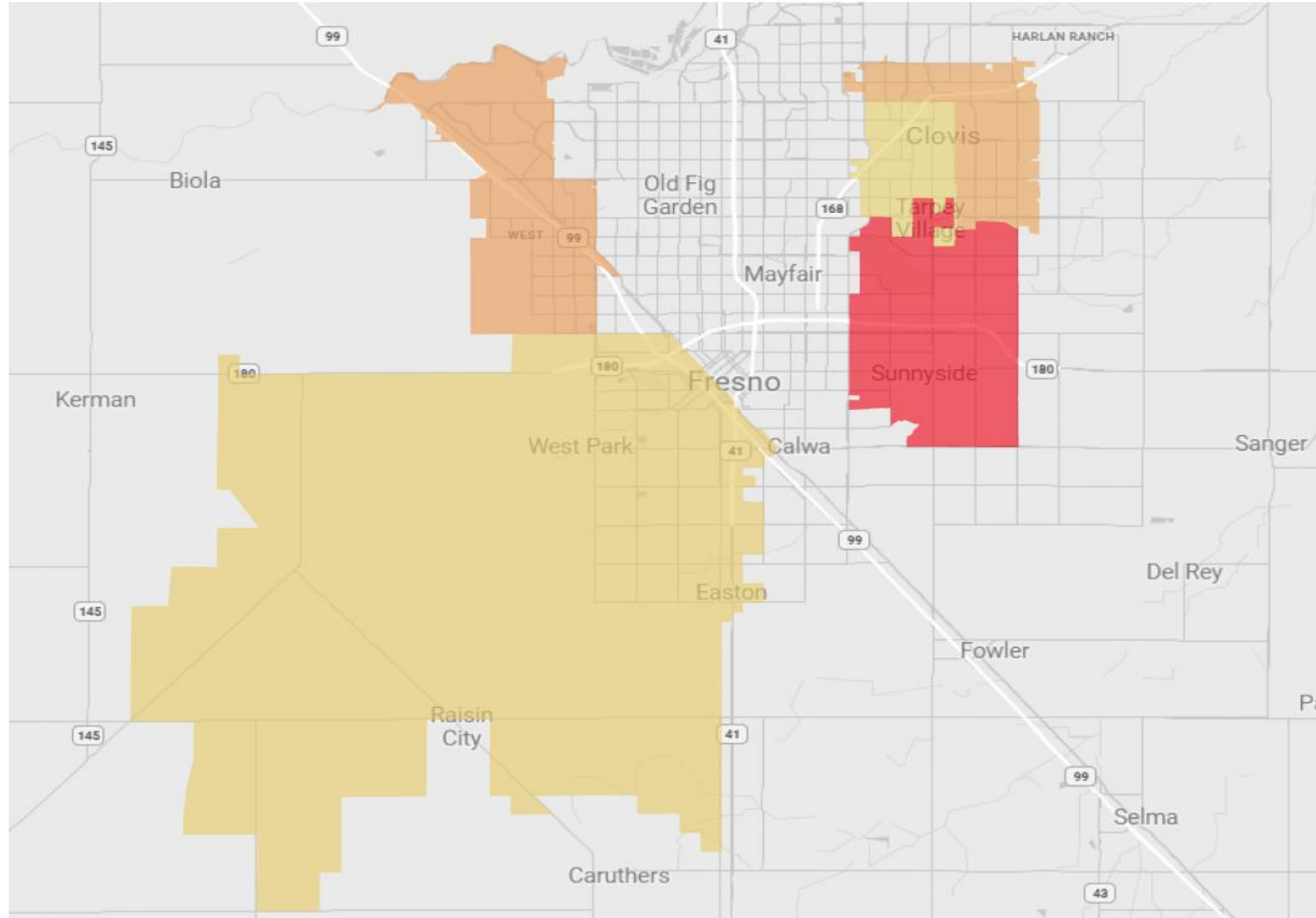
## Top 5 Diagnosis

<b>Diagnosis</b>	<b>Encounters</b>
Suicidal ideations	1,841
Poisoning by unsp drug/meds/biol subst, self-harm, init	183
Poisoning by 4-Aminophenol derivatives, self-harm, init	148
Personal history of self-harm	80
Intentional self-harm by other specified means, init encntr	74



# ENCOUNTERS ANALYSIS: GEOGRAPHY

## Top 5 Zip Codes







## LESSONS LEARNED

- FERPA considerations
  - FERPA protects student IDs. Schools needed to generate another unique ID for purpose of sharing data with MX.
  - The student's association with the school district will be blinded to the MX network and in outgoing data feeds.
  - School districts must inform parents of directory data disclosures and provide an opportunity to opt-out; pilot school districts have decided to include the YSP disclosures in their annual student handbook distribution.
- Schools want to minimize exposure to PHI. Minimal details about their hospital encounter are shared.
- School districts have existing workflows to receive crisis alerts and perform “wellness” check-ins with students. Our solution needed to feed into those processes.



# TECHNICAL COLLABORATION: CONTINUOUS IMPROVEMENT

## Phase 1

- ADT filtering based upon ICD-10 codes

## Phase 2

- Investigate free-text search in ADT data.

## Phase 3

- Evaluate AI to identify qualifying visits using other clinical data not found in ADT.



## NEXT STEPS

### ➤ Post-launch

- MX will monitor ADT alerts and provide monthly reports to school districts.
- Stakeholder workgroup will convene to review data, processes, and workflow.
- Process refinements to take place as they are identified.
- Identify and recruit additional school districts for SY '26-'27.





# FRESNO COUNTY INFORMATION EXCHANGE: MISSION, VISION, AND OBJECTIVES

## > Vision

- To create a data-driven, interconnected community in Fresno County where timely and effective support is provided to those in need.

## > Mission

- Expedite data sharing across sectors to allow for improved communication and coordinated services for students and families in Fresno County.

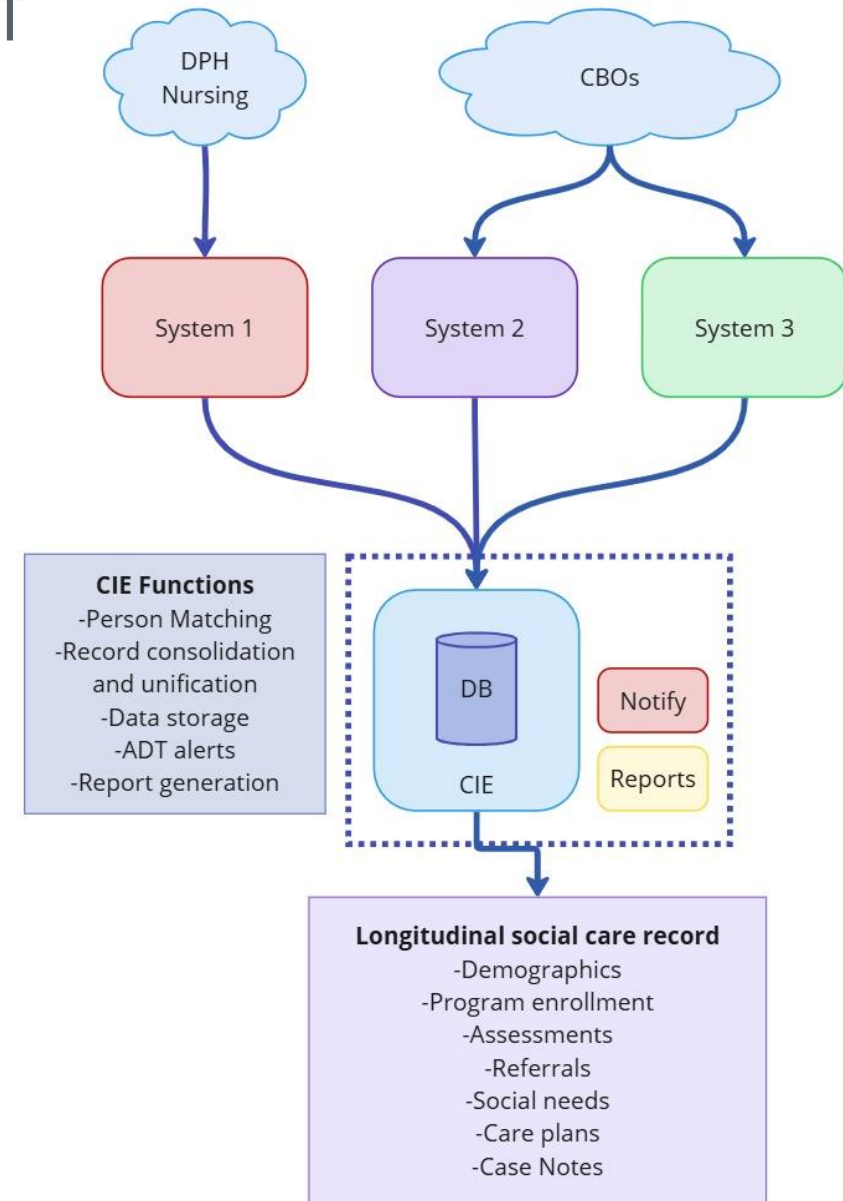
## > Objectives

- Develop initial FCIE partnerships, governance, legal framework, and technical infrastructure to set the stage for ongoing development.
- Enhance care coordination and expand accessibility to services for Fresno County residents.
- Streamline service delivery and improve outcomes in key areas.
- Foster trust among stakeholders through clear and effective data governance.



# FCIE VISION – HOME VISITATION PILOT

- Initial scope will integrate data from 3 systems.
- The CIE will match incoming records to specific individuals.
- Incoming records will be combined and consolidated into a single unified social care record enabling:
  - Visibility into a client's care team creating opportunities for collaboration.
  - Reductions in service duplication
  - Streamlined client intake processes and community referrals.



# Q&A

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