

New Orleans, LA October 13-14, 2016

The Architecture and Capabilities of Monterey/San Benito's
Open Source Coordinated Entry System

Presenters:

Roxanne Wilson, Monterey/San Benito CoC Javier Celedon, Community Technology Alliance Bob Russell, Community Technology Alliance Norris Brown, ServingLynk Eric Jahn, Alexandria Consulting



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Introductions

Roxanne Wilson- HMIS Data Coordinator, Coalition of Homeless Services Providers

Bob Russell- Executive Director, Community Technology Alliance

Javier Celedon- Programs Director, Community Technology Alliance

Norris Brown- President, ServingLynk

Eric Jahn- Data Architect/IT Director, Alexandria Consulting LLC

The Continuum of Care

The CA-506 Continuum of Care is comprised of two counties: Monterey County and San Benito County.



Monterey County

- •Monterey County is located on the Pacific Coast of California.
- •As of the 2010 census, the population was 415,057.
- •3,771 square miles.
- Median household income: \$58,582
- •Per capita income in past 12 months: \$25,048
- Poverty Rate: 17%
- Extremely tight rental market with very high monthly rents.

San Benito County

- •San Benito County is located in the Coast Range Mountains of California.
- •Is directly adjacent to Monterey County.
- Population: 58,792
- •1,390 square miles
- Median household income: \$67,874
- •Per capita income in past 12 months: \$26,317
- •Poverty Rate: 14.1%
- Extremely tight rental market with very high monthly rents.

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Homelessness in Both Counties

On any given night, 2,959 men, women and children experience homelessness in CA-506.

29% are sheltered in transitional housing or emergency shelters.

71% are unsheltered with most living in places not meant for human habitation.









13 EMERGENCY SHELTERS



2 RAPID REHOUSING



5 RESIDENTIAL RECOVERY



8 PERMANENT SUPPORTIVE

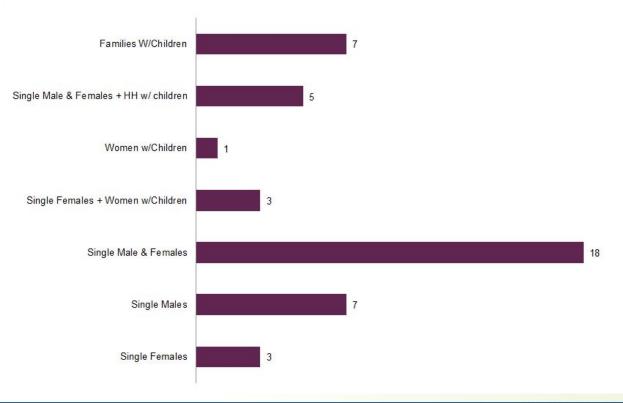


2 PERMANENT HOUSING



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Programs Per Household Structure



Process

- •In 2012, the Leadership Council (CA-506 *CoC governing board*) commissioned a 10-year strategic plan designed to address homelessness.
- Activity coordinated by HomeBase/The Center for Common Concerns.
- •Input gathered from wide variety of stakeholders that included, but was not limited to; County governments, jurisdictional representatives, funders, law enforcement, medical, education, community-based nonprofits, and homeless/formerly homeless.

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Result

- •LEAD ME HOME (LMH)....The game plan for housing homeless people in Monterey and San Benito Counties.
- •LMH laid out specific strategies, timelines and action steps in the following areas: Assure Access to Adequate Housing, Provide Services to Keep People Housed, Support Economic Stability, Return to Housing, and Organize Resources and Govern a Network.

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The Beginning

Exploring ways to provide easy access for individuals and families to homeless programs was a critically identified strategy. At the time, expanding the scale and functionality of HMIS seemed to be the best course of action.

LMH placed a 7 year timeline for full exploration, development, piloting and implementation.

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What it Became

- •Over time and with guidance from HUD and other federal partners, Coordinated Entry became the end goal.
- •The Coalition of Homeless Services Providers was identified to serve as lead for Coordinated Entry System activities.
- •A new committee was formed and work began in 2013.
- •Due to the large geographic area in CA-506, a decentralized system was preferred.

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The Truth of the Matter

- •We spun in circles for the first couple of years.
- •We always seemed to focus on what "couldn't" be done or how a particular program might be affected.
- •Or how will it really work? A Master List? VI- SPDAT? Only enrolling the most vulnerable?

Then We Got Over Our Own Selves

- •We took a long look at ourselves and decided to shift gears.
- •We agreed to move forward and tackle each hurdle as it came as opposed to anticipating problems.
- •We agreed that prioritizing the most vulnerable was important. Especially here with such a tight rental market.

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Movement

- •Community Technology Alliance (CTA) has long served as the technological HMIS consultant to CA-506. CTA contracts directly with CHSP who serves as the local HMIS lead agency.
- •CTA began exploring technological options related to Coordinated Entry systems.
- •CA-506 selected the VI-SPDAT as the assessment tool with OrgCode contracted to provide training to almost 100 homeless service provider staff members.

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Open Source Coordinated Entry System Movement (contd.)

Two major organizational challenges remained.

- Insufficient capacity
- Insufficient funding

After six months, CHSP was finally able to negotiate funding from the County government to: secure a consultant, add 2 staff members to CHSP, and pay for some technological costs related to Coordinated Entry.

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Movement (contd.)

After much exploration and consultation, an app was identified as the most logical mechanism for Coordinated Entry. Others will dazzle you with the sophistication, user interface and expandability, but I can tell you about one huge advantage from a provider level.

A custom built app does not require a person to have an HMIS license in order to VI-SPDAT a homeless person and place them on the Master List.

This is very useful in our local community.

In the End

The fusion of policy, technology, compassion, and sheer collective will to move it all forward.

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CES Implementation Overview

- In our discussions with multiple CoCs, several themes became apparent:
 - Replacing our current systems is not an option;
 - Automated communication between systems;
 - Create a "single source of truth" for reporting and visualization purposes.
- Open source software is software with source code that anyone can inspect, modify, and enhance. Open source products and initiatives embrace principles of open exchange, collaborative participation, rapid prototyping, transparency and community-oriented development.
- Technology can be expensive. Corporate and private funding was critical in order to provide open source and enterprise level tools in a cost-effective way to CoCs and communities.

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CES Technical Implementation Requirements

- Use the VI-SPDAT to determine level of service clients need
- Use local priorities in combination with VI SPDAT to rank clients based on need
- Generate an "Active List"
- Create and send referrals to agencies with available housing
- Keep and track housing inventory information
- Keep and track status of clients as they go through the system
- Report on data collected and HMIS data

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CES Technical Implementation

How we work together (ongoing):

Issue trackers and code repositories:

- Trello for HOME
- github for Data Warehouse/HMIS API Server: https://goo.gl/cvC9B1
- github for Coordinated Entry API Server: https://goo.gl/hL28AZ

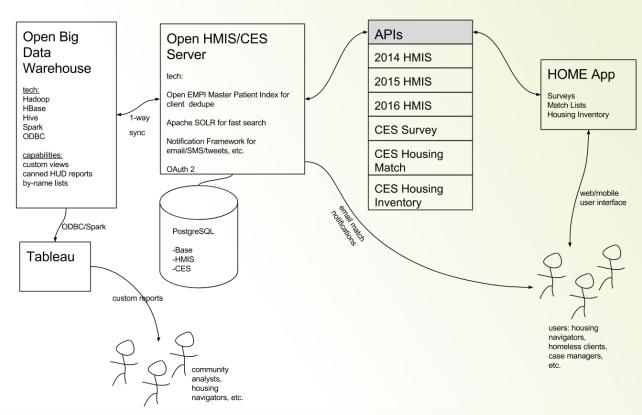
Conference calls and #slack channels (we have a public one anyone can join on request) for coordination between developers.

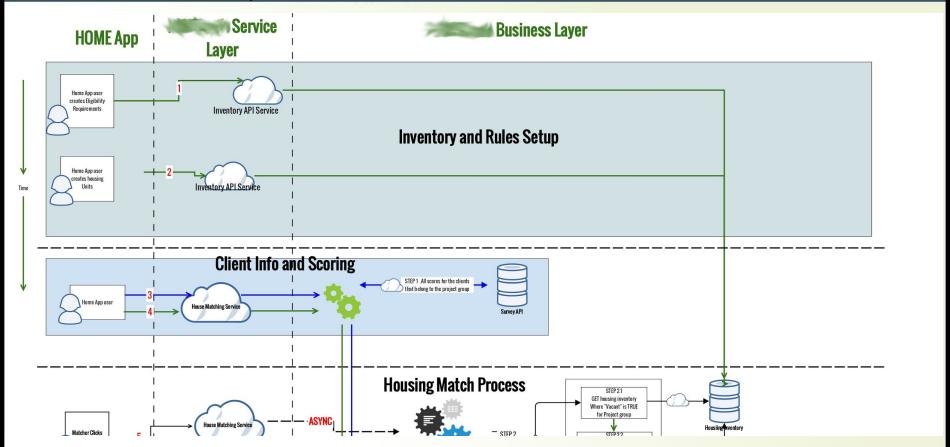
Ongoing development to add more general human services features and stay current with the changing data standards.

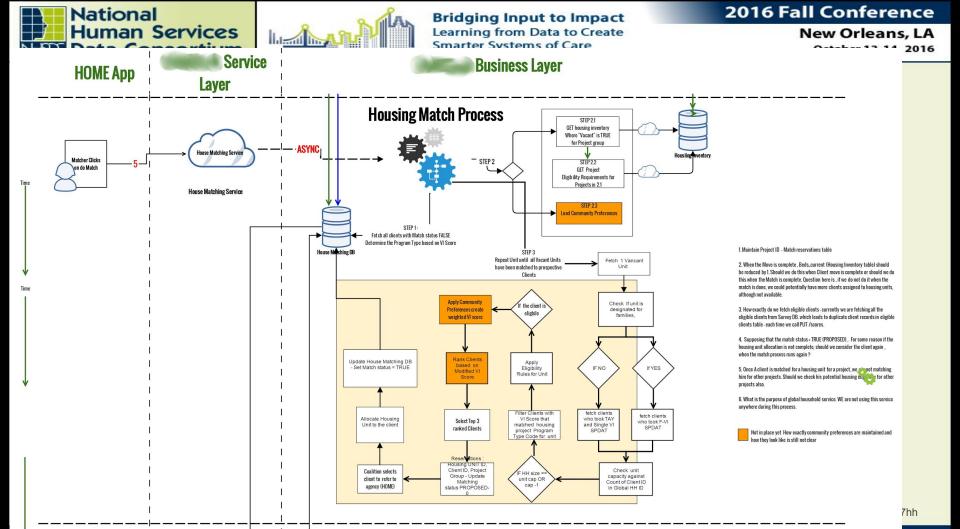


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CES Technical Implementation



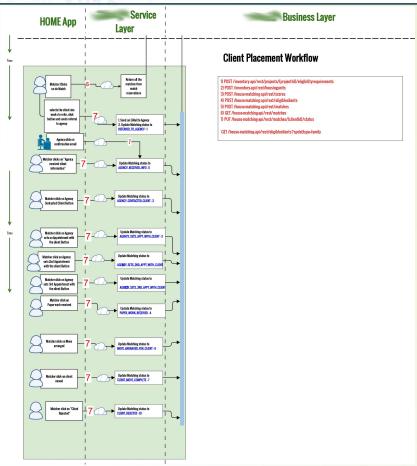








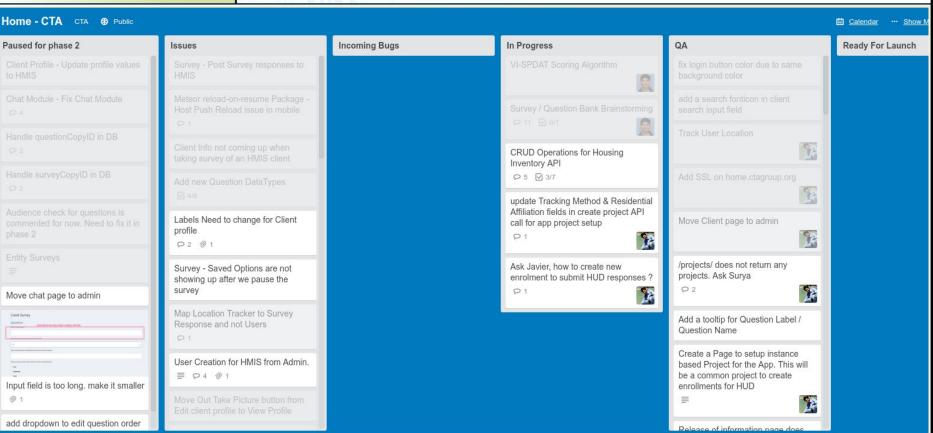
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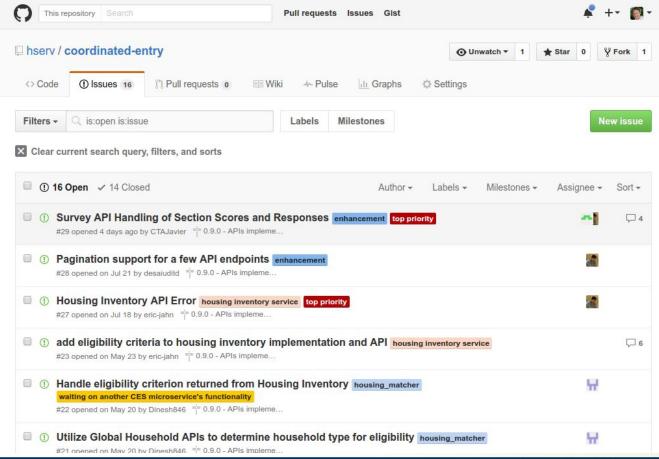
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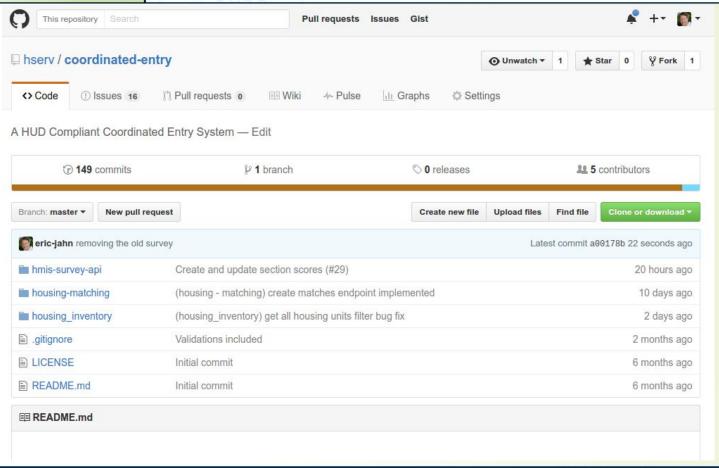


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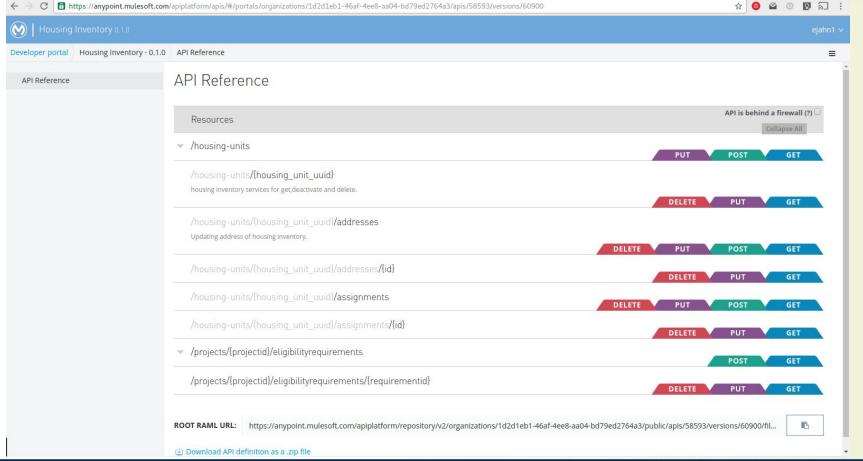








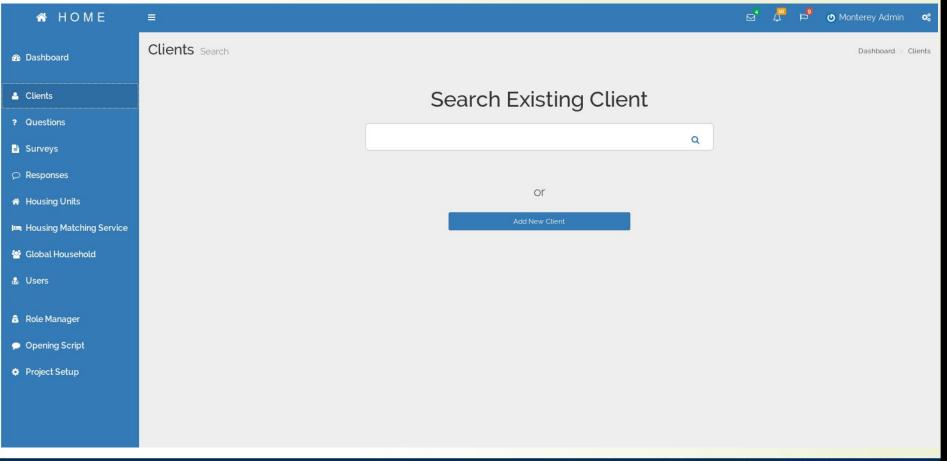
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CES Technical Implementation

- First and foremost Monterey's CES is not an HMIS system, it works alongside HMIS.
- There is minimal duplicate data entry,
- Automatic server level deduplication
- Historical information is maintained and reportable
- Works on any device with a modern web browser
- Stores housing inventory information
- Allows for release of information to be captured on the spot
- Demo



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CES Technical Implementation

- HOME App is built on the open source Meteor javascript framework
 - Runs on any modern web browser
 - Easy to code, it's all in javascript
 - Flexible enough to allow dedicated app creation (coming soon)
- HOME App consumes the recipes for communication (APIs) that the HMIS/CES Data Warehouse Server has implemented (http://goo.gl/PnOC9u)
 - We coded all client data to be stored on the HMIS CES server once we have enough information to create a client record.
 - The app pulls existing HMIS information from the data warehouse to prevent duplicate data entry.

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CES Technical Implementation Reporting

- Demo
- We needed a tool that allowed us to visualize the data captured and see who we were serving
- We connected our reporting tool to the big data warehouse that allows us to report on information from the CES system and from HMIS.
- Live data from CES system, and daily uploads of HMIS data



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Legacy HMIS

- Monterey's CES system is NOT an HMIS
- Monterey's Legacy HMIS system will continue to be used for all standard data entry, and for HUD mandated reporting.
- Exporting XML 4.1 (and now 5.1) is critical to be able to have enough information for matching clients to housing
- Much stricter control on who is using HMIS

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Next Steps

- Get more apps to use its API, for more community connectedness
- Add more communities/CoCs
- More features
 - More complex notifications and workflow
 - More case management features, general human services functionality
- More community involvement in development process
- More hackathons/sprints/grants





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