

Epidemiology, Evaluation, and Impact of Data for Homeless Populations at the Facility, Local, and State Level

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Disclosures

- Ben King – Project Manager; Hospital Physicians in Clinical Research, PLLC
 - NHCHC Research Coordinating Committee & Conference Abstract Reviewer
 - Ending Community Homelessness Collaborative (ECHO) Austin – Chair; Data Work Group
 - American Public Health Association – Chair; Caucus on Homelessness
 - International Street Medicine Institute – Member

Disclosures

- Daniel Gore – HMIS Project Manager; Texas Homeless Network
 - Ending Community Homelessness Collaborative (ECHO) Austin – Chair; HMIS committee;
 - Texas Interagency Council for the Homeless – Ex-Chair; Homeless Data Warehouse Committee
- Robert Dominguez – Practice Manager; Austin Resource Center for the Homeless (ARCH) HCH Clinic & Right to Sight Vision Clinic
 - Ending Community Homelessness Collaborative (ECHO) Austin – Member; Data Work Group



Overview

- Epidemiology & Homelessness Ben King
- Data Systems
 - Facility perspective Robert Rodriguez
 - Local HMIS & State perspective Daniel Gore
 - Community Data perspective Ben King

Epidemiology of Homelessness

- “Art, like morality, consists in drawing the line somewhere” – W.K. Chesterton
- Defining Homelessness
- Consent / Authorization
- Data Collection Strategies
 - Characterization of populations
 - Needs Assessments
 - Utilization

Definitions

HUD (pre-HEARTH):

- An individual or family who lacks a fixed, regular, and adequate nighttime residence, which includes a primary nighttime residence of:
 - Place not designed for or ordinarily used as a regular sleeping accommodation (including car, park, abandoned building, bus/train station, airport, or camping ground)
 - Publicly or privately operated shelter or transitional housing, including a hotel or motel paid for by government or charitable organizations;
- Or being discharged from an institution where he or she has been a resident for **30 days or less and the person resided in a shelter or place not meant for human habitation immediately prior to entering that institution.**
- Or being evicted within 7 days
- Or is fleeing a domestic violence housing situation and no subsequent residence has been identified and the person lacks the resources and support networks needed to obtain housing.
- No:
 - Living with friends or family
 - Housing instability

Definitions

McKinney Vento:

- In places not meant for human habitation, such as cars, parks, sidewalks, abandoned buildings (on the street).
- In an emergency shelter.
- In transitional or supportive housing for homeless persons who originally came from the streets or emergency shelters.
- In any of the above places but is spending a short time (up to 30 consecutive days) in a hospital or other institution.
- Is being evicted within a week from a private dwelling unit and no subsequent residence has been identified and the person lacks the resources and support networks needed to obtain housing.
- Is being discharged within a week from an institution, such as a mental health or substance abuse treatment facility or a jail/prison, in which the person has been a resident for more than 30 consecutive days and no subsequent residence has been identified and the person lacks the resources and support networks needed to obtain housing.
- Is fleeing a domestic violence housing situation and no subsequent residence has been identified and the person lacks the resources and support networks needed to obtain housing.

Definitions

HEARTH:

- (26 pages in the CFR to consolidate the “final rule”)
 - An Individual or Family Who Lacks a Fixed, Regular, and Adequate Nighttime Residence
 - An Individual or Family Who Will Imminently Lose Their Housing
 - Unaccompanied Youth and Families With Children and Youth Defined as Homeless Under Other Federal Statutes
 - Individual or Family Who Is Fleeing, or Attempting To Flee, Domestic Violence, Dating Violence, Sexual Assault, Stalking, or Other Dangerous or Life-Threatening Conditions

Consent / Authorization

- Research consent
 - Waiver
- HIPAA
 - Authorization to Use and Disclose PHI
 - Waiver
- Release of Information (ROI)
- Business Use Agreement
- Limited Data Sharing Agreement

Data Collection Strategies

Overview:

- Census / Registration
- Sampling:
 - Convenience Sample
 - Snowball Sample
 - Peer to Peer
 - Random Sampling
- Ex: 100,000 Homes Campaign
- Ex: Austin's Point in Time Count Sample

Data Collection Strategies

- **Selection Bias:**
 - Error in choosing the individuals or groups to take part in a study or assessment
 - Causes distortion of the resulting data analysis
 - Can lead to erroneous conclusions

Data Collection Strategies

Census:

- 100% of a population
 - (therefore not a true sample)
- Examples:
 - event registrations
 - Institutional data
 - (patient population=population of interest)
 - The Census

Data Collection Strategies

Convenience sample:

- Sample defined by a non-random variable
 - Usually a location or time window
- Typically characterized by ease of access
- Examples:
 - Institutional / Agency data
 - (if patient population = subset of population of interest)
 - ED patients presenting during business hours

Data Collection Strategies

Snowball Sampling:

- Also called: Chain sampling, referral sampling
- Existing subjects recruit future subjects from among their acquaintances
- Useful for accessing hidden populations (IVDUs, sex workers)
 - modification of selection bias issues
- Allows for environmental studies of social network structures
- Cannot make unbiased estimates of a population from snowball
 - Caveat: “respondent driven sampling”

Data Collection Strategies

Peer to peer sampling:

- Members of population being studied are used as data collectors
- Quality of data heavily depends on training & complexity of the assessment in question
- Example: CBP Community Health Workers as data collectors

Data Collection Strategies

Random sampling:

- Involving some component of unpredictability
- Observations (individual units of sample) are independent
- All units of population have an equal chance of being selected from the entire population
- Not perfectly representative of population sampled
 - Difference can be called 'sampling error', standard error, or confidence interval

Data Collection Strategies

Examples:

- 100,000 Homes campaign: Vulnerability Index
- HUD CoC- Point in Time Count
- Homeless Resource Fair

**100,000
HOMES**

For 100,000 homeless
Americans by July 2013

- Austin Point in Time Count - Survey



Healthcare for the Homeless

Our Mission: We will work with the community as peers with open eyes and a responsive attitude to provide the right care, at the right time, at the right place.

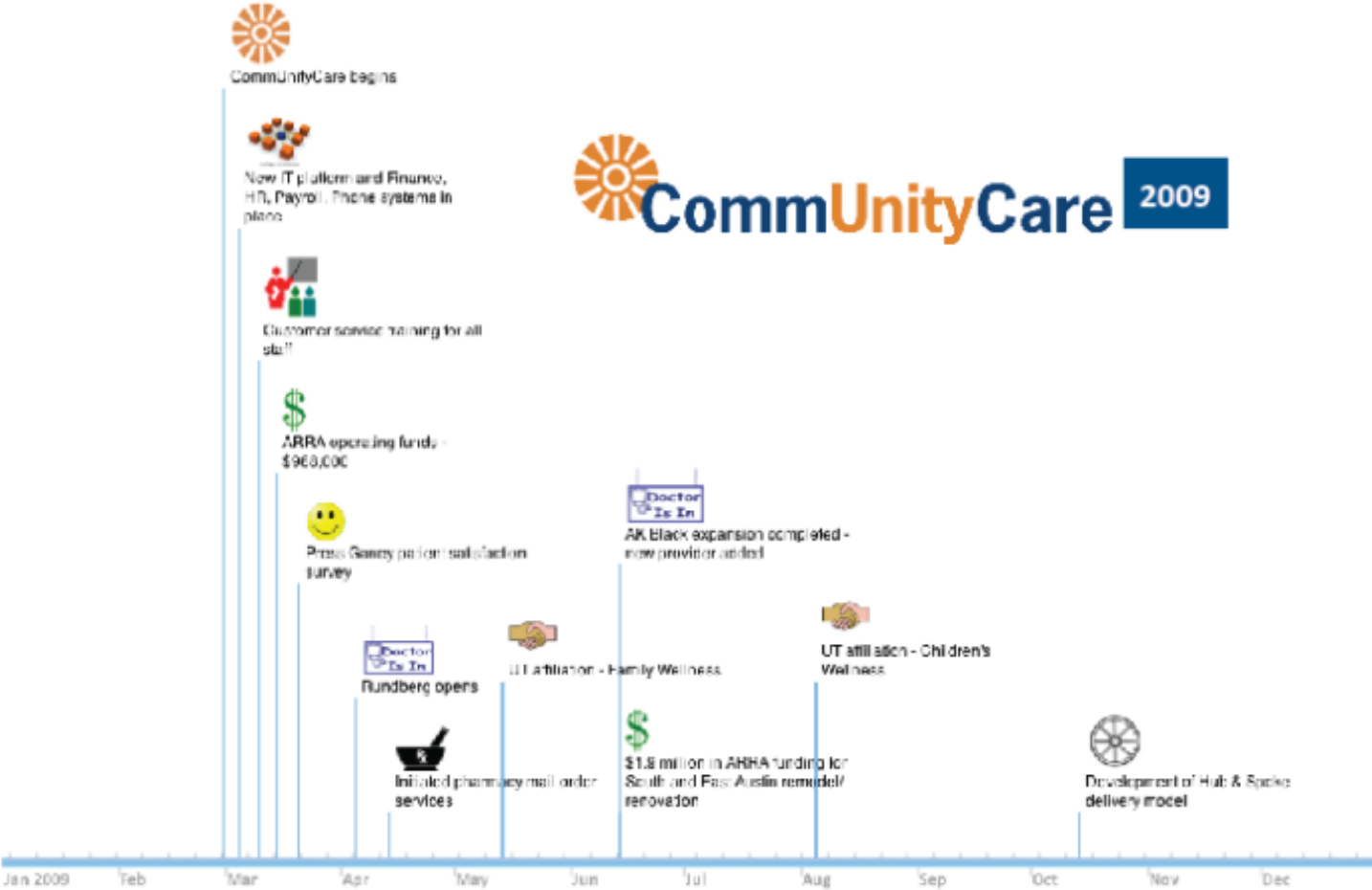
Austin/Travis County, Texas

- Largest safety net provider of primary care in Austin/Travis County; UDS 2011:
 - 57,296 unduplicated patients
 - 237,451 clinic visits
- 20 medical clinics, 4 dental clinics, 1 specialty care clinic
- Primary medical care, dental, behavioral health, specialty care: cardiology, dermatology, endocrinology, gastroenterology
- Vision screening services by referral to area providers through a local foundation grant
- Special population-of-focus clinics:
 - David Powell Clinic, serving Central Texas patients with HIV
 - ARCH, dedicated to serving Austin's homeless
 - Began seeing patients in October 2004
 - HCH grantee under our HRSA 330 since 2005

History

- Local health department clinics funded and operated under the City of Austin and Travis County until March 1, 2009
- Transition from the City of Austin to the Travis County Healthcare District (Central Health)

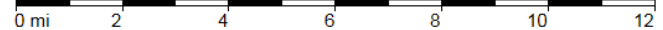
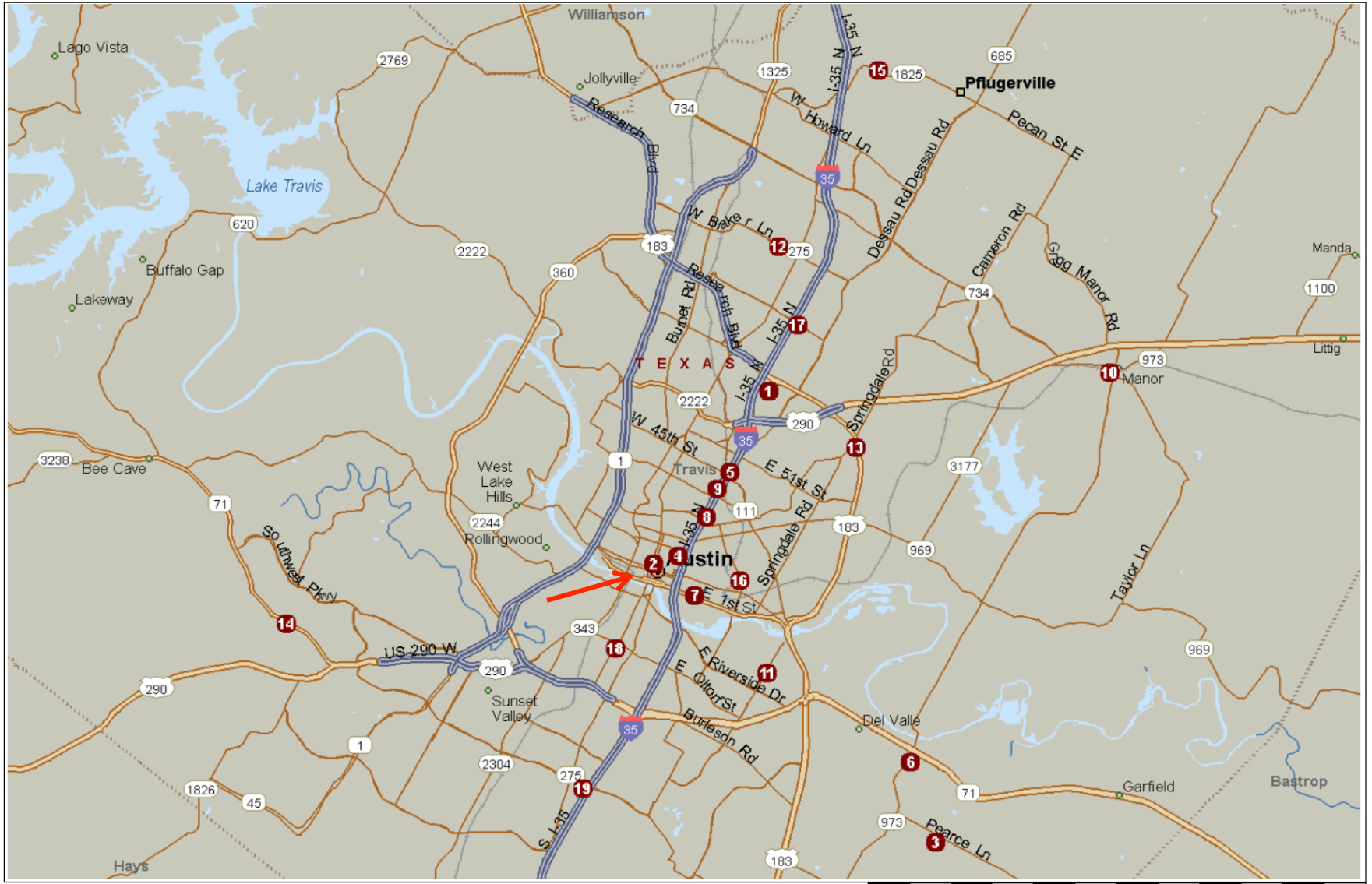
CommUnity Care Timeline



ARCH, Austin Resource Center for the Homeless



CommUnityCare Locations



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- Resource Center owned by City of Austin
 - Constructed in 2003
 - Managed under contract by Front Steps, a local private non-profit
- Located in the heart of downtown Austin (2 on the map)
- Services provided at ARCH
 - Day Resource Center, emergency overnight shelter (100 beds), physical and mental health care (through CommUnityCare), legal assistance, substance abuse treatment
- Facilities include
 - large common-use room, showers and locker rooms, laundry facilities, computer room, art studio,
 - large commercial kitchen and dining room

- Clinic services provided by CommUnityCare
 - Family Medicine (Dr. Matthew Carlberg, MD and Jordan Swindle, PA-C)
 - Dental (mobile dental provided off site)
 - Vision- Right to Sight
 - Behavioral Health Care
 - Case Management (2 staff on site)
 - Lab services and Class D Pharmacy
- 4 exam rooms in 1,500 sq ft of clinic space
- 9 FTEs on site, including two providers
- 40 hours of clinical coverage per week
- Eligibility Services- in house screening for MAP
- Network Pharmacy Services- patients can have prescriptions filled at any one of 17 local pharmacies
 - One location less than 2 miles from the clinic
 - Two more locations less than 3 miles from clinic
- Patients have no copay for services
- Transportation services: bus passes, cab service

HCH UDS 2011:

- 1,207 unduplicated patients
 - 23% female, 77% male
 - 97% between 20 and 64 yo
 - 16 individuals younger than 20
 - 16 individuals older than 64
 - 98% under 100% FPL
 - 75% covered by MAP, local county program funded by Central Health (Travis County Healthcare District)
 - 11% unfunded
 - 8% Medicaid
 - 5% Medicare
 - Race/Ethnicity
 - 48% White
 - 32% African American
 - 18% Hispanic
 - 2% Asian, Native American, Pacific Islander
- 5,230 clinic visits
 - 2,833 (54%) medical visits
 - 1,771 (34%) case management visits
 - 626 (12%) behavioral health visits

HCH UDS 2011, cont:

- **Diagnosis Profile**
 - Behavioral Health issues (~25% of patients)
 - Including depression, anxiety, PTSD, substance abuse
 - Hypertension (9%)
 - Diabetes (6%)
 - Hepatitis C (4%)
 - Respiratory illness (4%)
 - Including Asthma, bronchitis, emphysema

Data Systems and Collection

- NextGen Practice Management since 2004
 - Patient demographics, appointments, third party billing
- NextGen EHR since 2006
 - Early versions were highly customized and tailored to individual providers needs
 - Moving away from extensive customization
 - LESS customization with MORE functionality and consistency across the network
 - Next EHR upgrade scheduled for June 15, 2012
 - Featuring improved process and workflow

Strategic and Operational Use of Data

- OC3 metrics (Optimizing Comprehensive Clinical Care)
 - A framework for redesigning the “system” to maximize health outcomes and remove unnecessary waits and delays for patients.
 - Measuring access, improving it, getting patients in when they need to be seen, and to be seen by their doctor
 - *See your own and don't make them wait*
 - Measures: Productivity, Cycle Time, Red Zone, No Show Rates, 3NA, Continuity, Panel size (supply & demand), clinical outcomes
- Forecasting placement of new clinics
 - Patient demographics helped determine the placement of our new North Central location

Thank you!

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Homeless Service Data

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HUD Reporting Objectives

- To improve the capacity of local communities to collect high quality data;
- To enhance the way data are used to inform local, regional and national understanding of homelessness and the performance of homeless assistance programs and systems;
- To support informed decision making about resource needs and allocations;
- To build information partnerships with other agencies and systems to achieve goals; and,
- To manage grant cycles more efficiently so communities can focus on programming.

What is HMIS?

- A Homeless Management Information System is a *locally* administered, electronic data collection system that stores longitudinal client-level information on persons who access the homeless service system.
- A federal response to a congressional directive to capture better data on homelessness.
- Early efforts in the 80s – 90s by the National Human Services Data Consortium preceded congressional action in 2001's McKinney-Vento Act.
- HUD publishes HMIS standards in 2004 via the Federal Register related to data collection, privacy and security (subsequent updates).

What is HMIS Important?

- Every Continuum of Care (CoC) is required to implement an HMIS and participation is scored annually in the CoC Notice of Funding Availability (NOFA).
- Local data is submitted to HUD for the Annual Homeless Assessment Report (AHAR) to Congress (first report in 2007).
- Local systems support coordinated intake, eligibility determination, assessment and case management.

Key Stakeholders

- Continuum of Care lead agency/entity
 - Oversight, policies, protocols
- HMIS lead agency/entity
 - Implementation, training, support
- Participating agencies
- Grantors and local sponsors
- HUD Technical Assistance providers
- Software Vendors
- Users
- Clients

<http://www.hudhre.info/>

Why Integrated Data Systems?

- Identify the prevalence and patterns of service utilization within and across various systems;
- Identify the risk and protective factors associated with program use;
- Identify costs associated with various types of utilization;
- Design interventions or program investments in one or more domains (e.g. housing stabilization) to reduce costs in another domain (e.g. health care);
- Identify vulnerable subpopulations (e.g. preschool children) based on antecedents in other systems (e.g. child welfare);
- Inform policy decisions with analysis and demonstrable program outcomes (e.g. reduced teen pregnancies).

Texas Homeless Data Warehouse

- An effort to integrate data from 15 separate HMIS systems and other agencies providing mainstream services;
- Goals include the ability to report:
 - Trends in transactional data;
 - Population characteristics;
 - Unduplicated count of the state's *served* homeless population; and
 - Performance measures and outcomes.
- Project is currently in Phase 1 of 4.

Project Timeline

- **Phase 1: Planning**
 - Identify Stakeholders (September 2010)
 - Benefits Analysis (May 2011)
 - Project Governance/Management (January 2012)
 - Request For Information (April 2012)
 - Define scope and requirements
 - Design data sharing agreements and security protocols

Project Timeline

- **Phase 2: Development**
 - Request For Offer (July 2012)
 - Request For Proposal (September 2012)
 - Budget approval from sponsor (TBA)
 - Select software vendor and implementation provider
 - Sign off on deliverables

Project Timeline

- **Phase 3: Implementation**
 - Integrated Homeless Service Data
 - Training and Technical Assistance
 - Reporting Tools
 - Monitoring and Evaluation

Project Timeline

- **Phase 4: Expansion**
 - Planning to integrate with other health and human service data
 - Review changes to project scope and product features
 - Iterative rollout (2020 – 2025)

Challenges

- No single statewide HMIS
- No statewide data warehouse
- No federal funding at this time
- Only a recent history of cross-departmental collaboration and governance on State IT projects
- Exclusive planning processes
- Lack of dialogue between key stakeholders
- Focus on cost and resources without first understanding need and requirements

Lessons Learned... So Far

- Building a data warehouse is a human process, NOT an IT project
- Build an infrastructure where it is needed and only when necessary
- Promote inclusive AND integrated planning processes
- Sustain momentum
- Embrace ambiguity
- Identify your project champion

Community Data

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Federal

- HUD
- NIDAA / SAMHSA
- CDC
- Census
- Bureau of Labor Statistics
- Advocacy

State

- State Housing Agency
- Data Warehousing
- Advocacy

Local

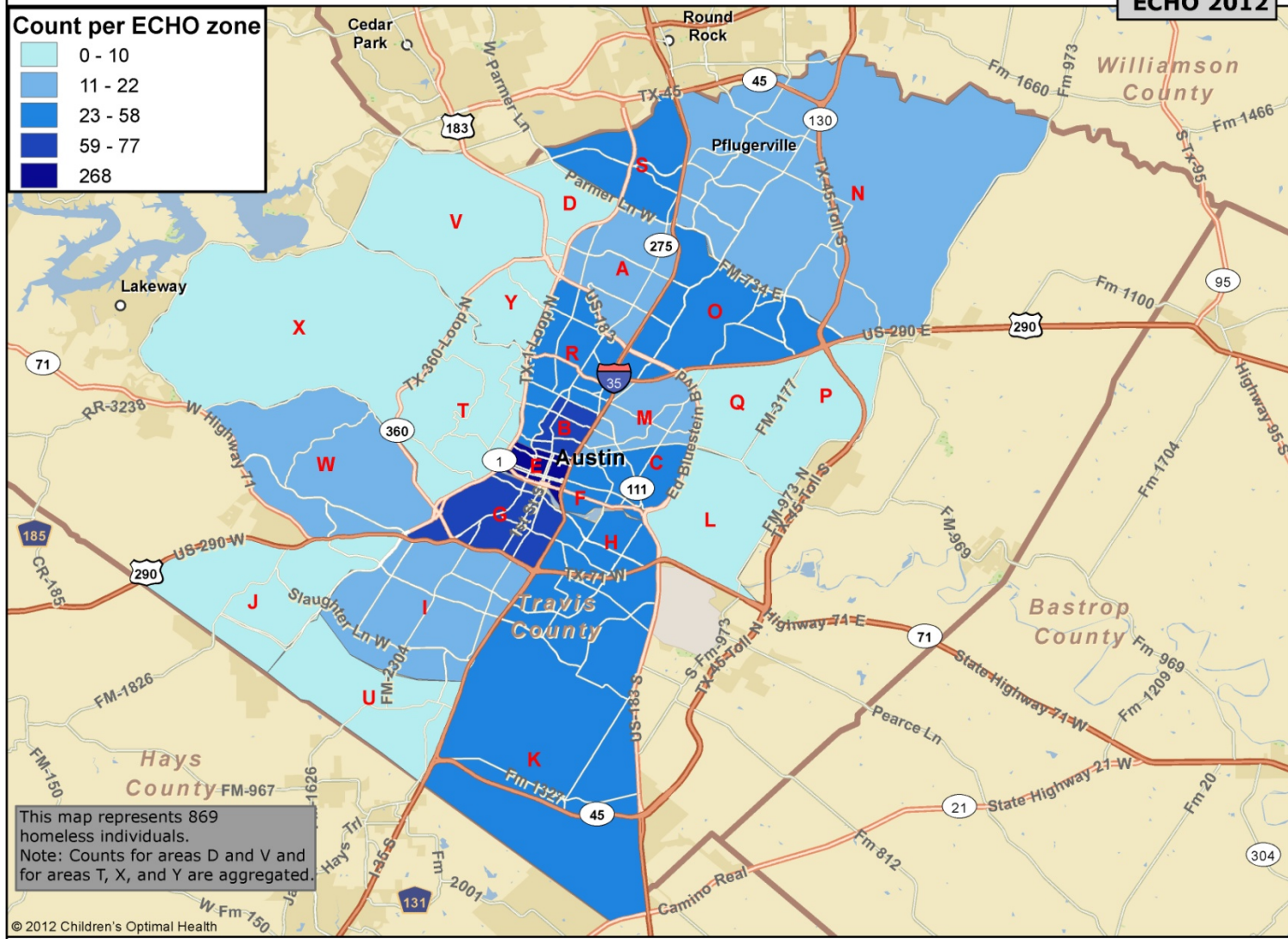
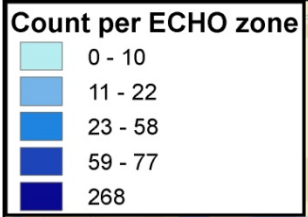
- AHAR
- HIC
- PITC (CoC)
- HMIS
- Community Reporting Metrics
- Advocacy

Community Reporting Metrics

- Reports
- White Papers
 - Strategy /Planning
 - Advocacy
 - Fundraising support
- Graphics / GIS

Count of homeless individuals by ECHO Zones

ECHO 2012



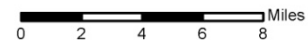
This map represents 869 homeless individuals.
 Note: Counts for areas D and V and for areas T, X, and Y are aggregated.

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Maps produced by Children's Optimal Health display visual correlations among multiple layered datasets. They do not represent cause and effect relationships.

Data Sources:
 ECHO 2012;
 ESRI 2011;



Mohan Rao
 05/02/2012

Discussion...

Questions?