

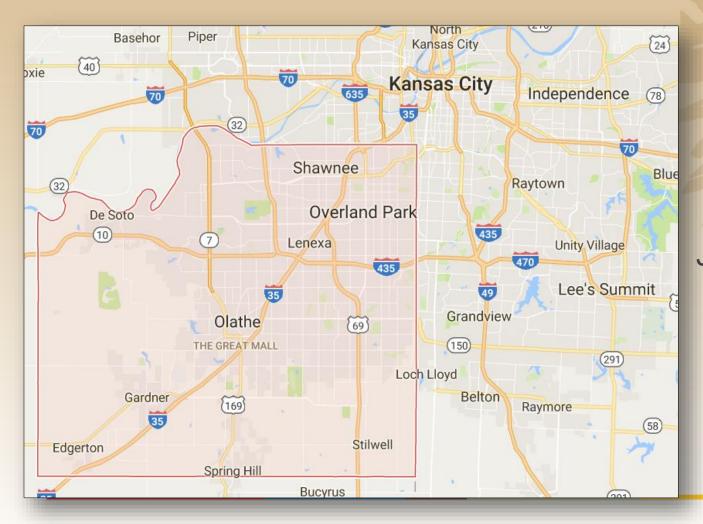
THE DATA DRIVEN JUSTICE INITIATIVE



Where is Johnson County, KS?







KC metro population

2.3 million

Johnson County population 580,000



About Johnson County, KS



20 cities



municipal & county law enforcement agencies



1,100 beds



750 avg. daily population



BRIEF JAIL MENTAL HEALTH SCREEN General Comments Section 2 Do you currently believe that someone can Questions control your mind by putting thoughts into your head or taking thoughts out of your head? Do you currently feel that other people know your thoughts and can read your mind? Have you currently lost or gained as much as two pounds a week for several weeks without Have you or your family or friends noticed that you are currently much more active than you Do you currently feel like you have to talk or move more slowly than you usually do? Have there currently been a few weeks when you felt like you were useless or sinful? Are you currently taking any medication prescribed for you by a physician for any emotional or mental health problems? 8. Have you exer been in a hospital for emotional or mental health problems? Officer's Comments/Impressions (check all that apply): Under the influence of chugs/alcohol Referral Instructions: This detainee should be referred for further mental health evaluation if he/she answer YES to item 7; OR • YES to at least 2 of items 1 through 6; OR If you feel it is necessary for any other reason ☐ Not Referred Referred on Person completing screen ©2005 Policy Research Associates, Inc. INSTRUCTIONS ON REVERSE

Brief Jail Mental Health Screen

- Conducted by jail staff at intake
- It is <u>not</u> considered protected health information (a person cannot self diagnose)
- We attempt to screen every detainee booked



Brief Jail Mental Health Screen

o.	Questions	Yes	No	Refused	General Comments
1.	Do you CURRENTLY believe that someone can control your mind by putting thoughts into your head or taking thoughts out of your head?	0	•	0	
2.	Do you CURRENTLY feel that other people know your thoughts and can read your mind?	0	•	0	
3.	Have you CURRENTLY lost or gained as much as two pounds a week for several weeks without even trying?	•	0	0	LOST
4.	Have you or your family or friends noticed that you are CURRENTLY much more active than you usually are?	•	0	0	
5.	Do you CURRENTLY feel like you have to talk or move more slowly than you usually do?	0	•	0	
6.	Have there CURRENTLY been a few weeks when you felt like you were useless or sinful?	•	0	0	
7.	Are you CURRENTLY taking any medication prescribed for you by a physician for any emotional or mental health problems?	0	•	0	IN THE PAST FOR SCHIZOPHRENIA/BIPOLAR
8.	Have you EVER been in a hospital for emotional or mental health problems?	0	•	0	



Prior to BJMHS





Prior to BJMHS

Two key problems:



Only captures
the most
vulnerable
population



Of our detainees are released in 48 hours or less



Our review of data found



The county's current prevalence rate



More than one third of our flagged detainees
had a subsequent booking within
the last 12 months





 Individuals that screened for further evaluation have a length of stay 63% longer than the general population.

Date	Point in Time Counts	Jail Census	%
08/01/17	126	789	16%
09/01/17	112	785	14%
10/01/17	112	799	14%
11/01/17	91	791	11.5%



Leverage BJMHS with Other Data

We have the ability to:



Compare the length of stay for detainees with mental illness symptoms



Look at peak booking/release times for detainees with mental illness







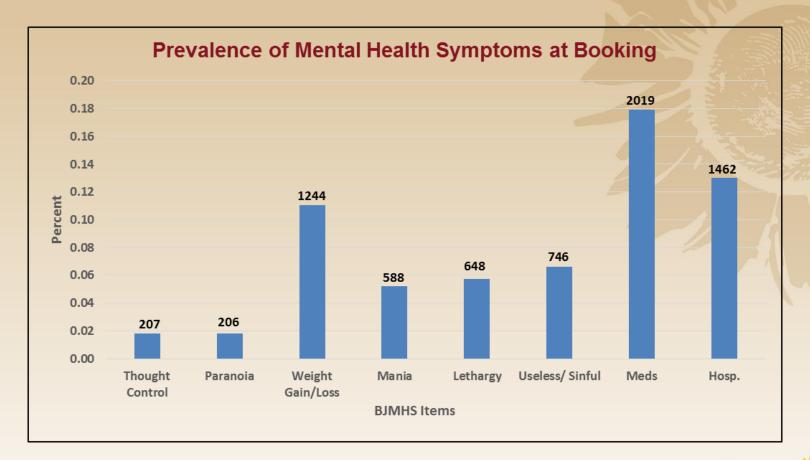


Break down
data
from each
police
dept.

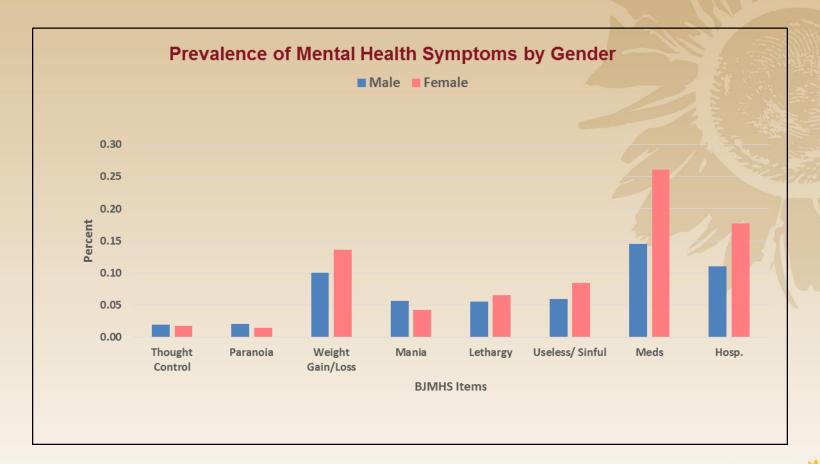
Compare booking types

Review charge descriptions

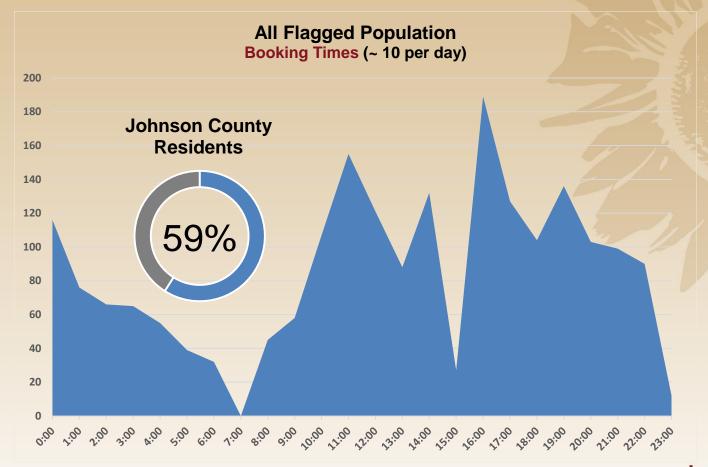














Booking processes



to Johnson
County Mental
Health staff daily

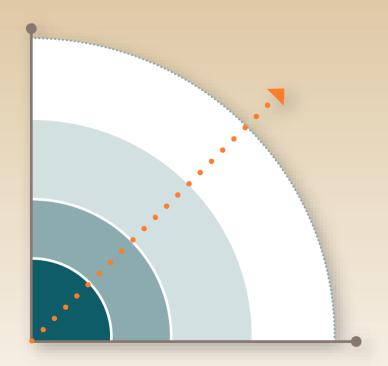


Screen results
entered in JIMS
by the
Sheriff's Office



Mental health staff
look up each
person in
Electronic Record







Developed a predictive analytics model to identify people who are most likely to have a police encounter resulting in a jail booking in the next 12 months.



Proactive Engagement Efforts







Mental Health



Booking



De-identified Data by Hashing it First

One – Way Data Transfer Only					
John Doe	e8dd4aab87dd88f961a4b10701296c89				
Pat Clark	f5ad1699ca5178e70f3e7ead8d0a963e				
Robert Sullivan	534052add2ceabbc054c4759c698bccd				
519-00-1234	a53794d214dc5dedbcecdf827bf683a2				
620-34-4321	2faf048b14739ef68413b94fe3a088d2				
000-00-0000	cae8621b72f01f3f29addbea185d0ca4				



Data Source

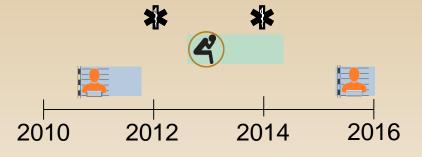
Aggregation

Prediction

Risk Score







Machine Learning

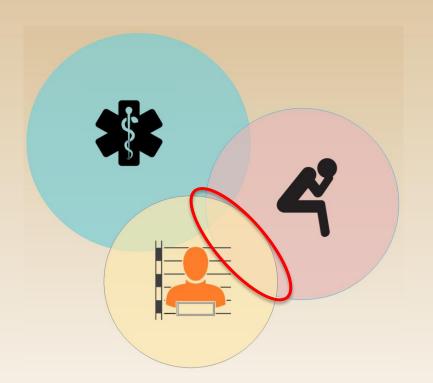


Risk score for next year









Prioritized List: top 200 people



Eric Hosmer	6.94
Salvador Perez	6.17
Alex Gordon	5.79
Mike Moustakas	5.75
Alcides Escobar	5.02





104 individuals were booked



19 years of total jail time



2 years since last mental health contact



Stayed in jail twice as long



Key Data Requirements

- Requires linking individuals across multiple systems
 - Consistent combinations of identifying information can be used to match afterwards (more is better, must be normalized across silos):
 - Name fields
 - Date of birth
 - SSN
 - Gender
 - Race
 - Address
- Important to ensure data covers similar time periods



Robert Sullivan Criminal Justice Coordinator

County Manager's Office 111 S. Cherry Street, Suite 3300 Olathe, Kansas 66061 Direct (913) 715-0745 | Office (913) 715-0725



