



LOOPBACK ANALYTICS

Data, Insights, And Action

Addressing At-Risk Populations in Real-Time



Software-as-a-Service (SaaS) company founded in 2009



Focusing on ***value-based care*** enabled through ***collaboration across the care continuum***

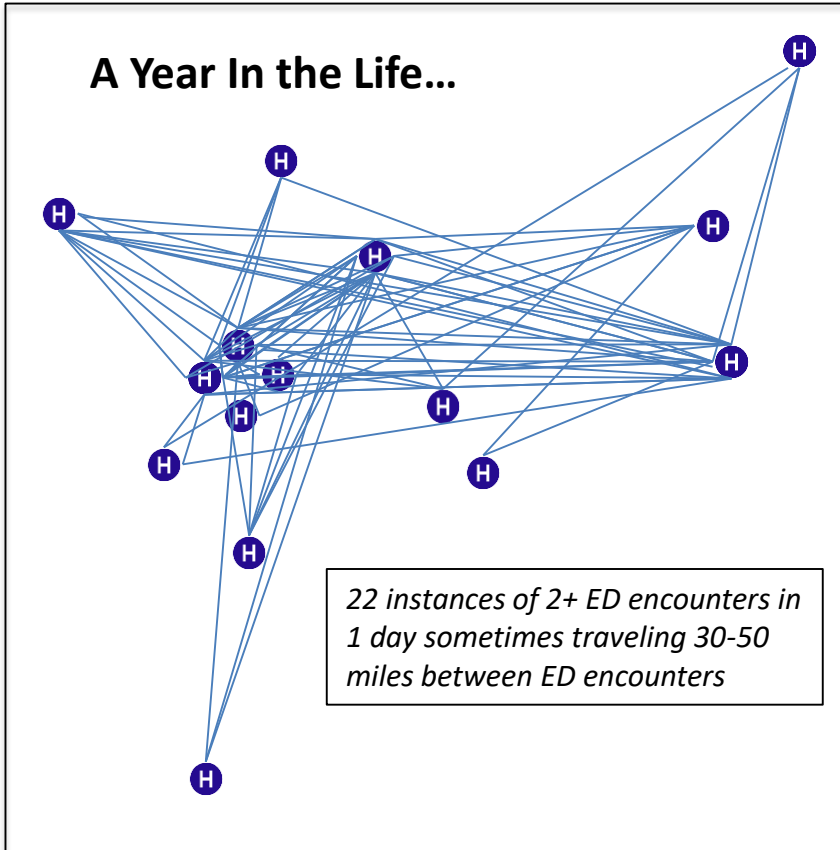


Our solutions encompass ***retrospective, real-time*** and ***predictive*** analytics



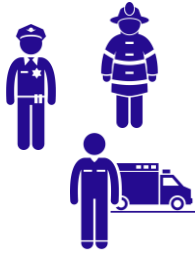
Everything we do is within a ***continuous learning loop***





12 Month Summary	
Health Systems	6
Hospital Locations	16
Total Encounters	154
Approximate Cost	\$250K

- Recurring diagnoses
 - Unspecified pain
 - Hep C
- Bipolar disorder comorbidity noted in some encounters



Law Enforcement / First Responders

- 15,593 behavioral health calls a year in Dallas
- Since 2012, an increase of 18% overall and 59% needing an ambulance



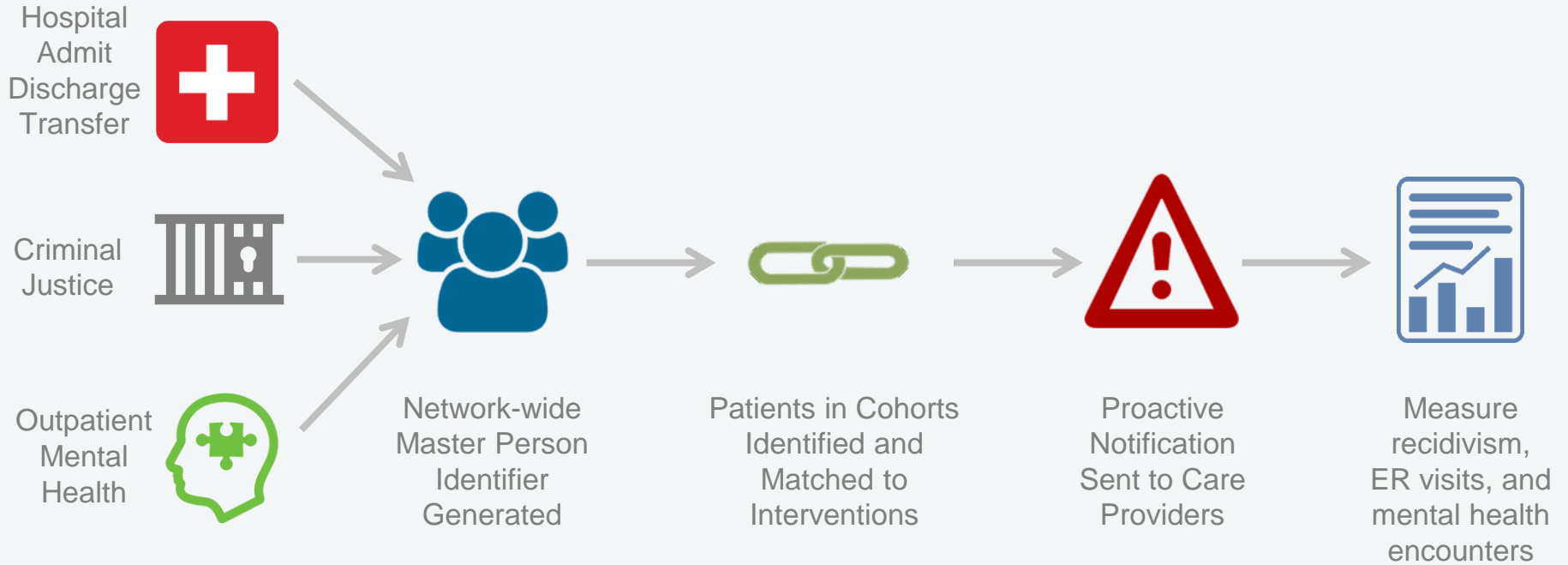
Super-Utilizers

- More than 6,000 “super-utilizers” in Dallas, with 4,000 living in poverty
- Less than 1 in 7 are in care
- 75% use jail repeatedly
- Need ongoing intensive care, housing, and supervision



Criminal Justice Population

- 21% receive psychotropic medication
- 25% have past/current mental health system contact
- 58% rearrested



4 Cohorts: ACT/FACT, Mental Health Consumer, High Utilizer, Super Utilizer
Interventions: ACT/FACT (LOC 4), Transitional Services (LOC5)



Housing Insecurity

Explicit: ICD-10 Diagnosis, HL7 IN2 Living Arrangement

Implicit: Shelter/Church/Hospital Address, Frequent Address Change



Food Insecurity

Implicit: Address in USDA Low Income/Low Access Zip

Implicit: Nutrition-Sensitive Condition



Medication Access / Adherence


Explicit: ICD-10 Diagnosis

Implicit: Medication-Sensitive Condition

Implicit: Distance From Home Address to Pharmacy


The cohort(s) the consumer is attributed to: MHP Consumer, ACT/FACT, High Utilizer, Super Utilizer

Action to be taken based on cohort the consumer is attributed to



Integrated Health Patient Summary

This patient has a history of contact with the behavioral health system.
Please review to ensure the patient receives the most appropriate care path.



John Doe

Cohort(s): Mental Health Consumer

DOB: 1/1/1960 Gender: Male

Summary of Key Information, including most recent DX, OP BH DX, and medication

Actions

If the consumer is not part of the ACT Cohort, please proceed with current procedure. If consumer is part of the ACT Cohort, please contact one of the following provider numbers:

ACT contact information not available. Please proceed with current procedure.

Summary of Key Information

Last Known Event	Diagnosis / Medication	Date of Diagnosis / Fill Date
ED Diagnosis & Date	Unknown	1/1/2018
Outpatient BH Diagnosis & Date	Alcohol intoxication~ With mild use disorder	9/30/2017
RX Filled by NTBHA & Fill Date	GABAPENTIN CAP 300MG	10/1/2017

Outpatient Behavioral Health Services Received						
Service Date	Provider	Provider Type	Location	Services	Primary Diagnosis	Crisis
09/30/2017	BH Provider	Residential Facility	Service Facility	Observation for the evaluation of a client~ includes coordination of care with other providers or agencies~ low severity~ up to 48 hours	Alcohol intoxication~ With mild use disorder	Y
06/30/2017	BH Provider	Residential Facility	Service Facility	Observation for the evaluation of a client~ includes coordination of care with other providers or agencies~ low severity~ up to 48 hours	Alcohol intoxication~ With mild use disorder	Y

Recent Hospital Visits					
Facility - Stay Type	Admit Date	Admitting Complaint	Primary Diagnosis	Discharge Disposition	
Demo Hospital - Dallas	1/1/2018	*	*	Home	
* Information not provided by organization					

Medication History					
Medication	Fill Date	Days Supply	Prescriber	Pharmacy Name	
MIRTAZAPINE TAB 15MG	10/1/2017	30	Dr. A	Pharmacy A	
GABAPENTIN CAP 300MG	10/1/2017	30	Dr. A	Pharmacy A	
FLUOXETINE CAP 20MG	10/1/2017	30	Dr. A	Pharmacy A	

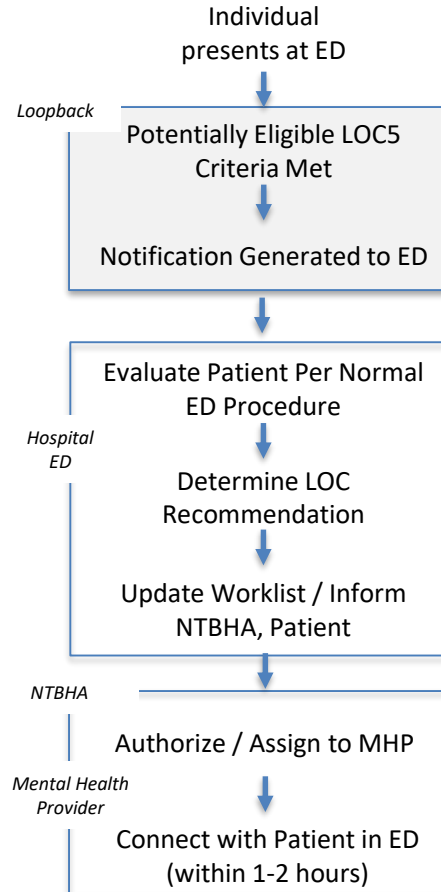
The most recent hospital visits based on the data received from the live hospital data feeds

The most recent Outpatient Behavioral Health Services the consumer has received

The most recent medication data based on the medications that NTBHA provides

Notification Criteria

Diagnoses	<ul style="list-style-type: none"> • Depressive • Psychosis • SUD
Crisis Events ¹	<ul style="list-style-type: none"> • 3+ in last 90 days including criminal justice
Payor	<ul style="list-style-type: none"> • Uninsured, unable to pay, Medicare • Excludes Medicaid and commercial
Other	<ul style="list-style-type: none"> • Not currently authorized in any LOC • Eligible for ongoing services in service area



Metrics

Process

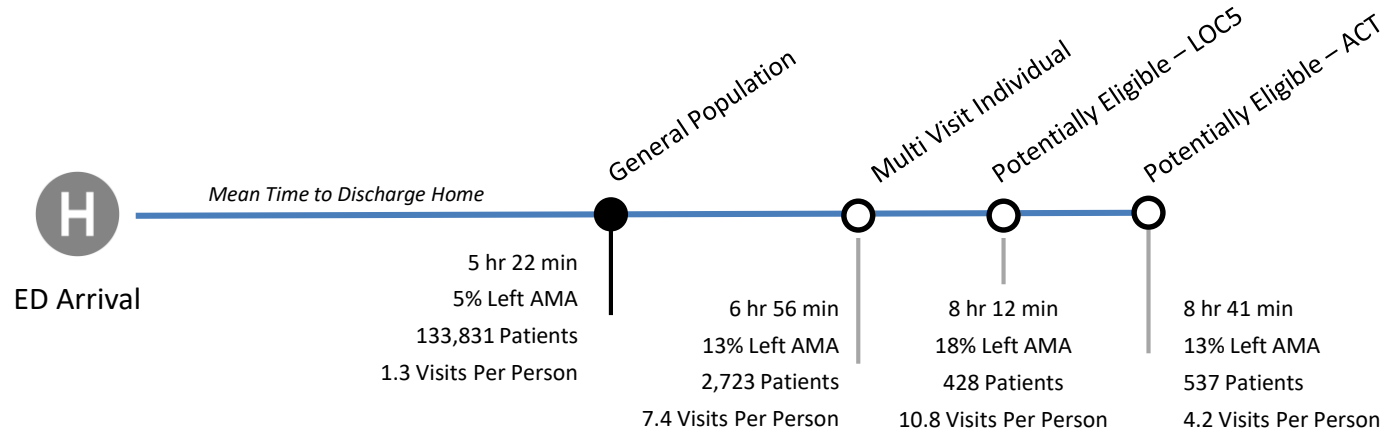
Count of Potentially Eligible LOC5

- Identified
- Referred
- Authorized
- Enrolled

% connections within 2 hours of referral

Outcomes

- Reduced ED encounters
- Reduced ED dwell time
- Reduced inpatient psychiatric admissions and hospital days
- % completion of LOC5 treatment plan
- % LOC5 consumers transitioned to new LOC



Operational Impacts

Patient Flow
Wait Time
Safety

Economic Impacts

Boarding
Duplicative Charges
Bed Utilization

Time Period: 4/13/2018 – 9/27/2018