

# Tackling the Opioid Epidemic: Two Infrastructural Approaches From the Field Addressing Population Health Crises



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County

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Montgomery County,  
OH Juvenile Court





# Combating the Opioid Epidemic





# Indiana 211 Partnership, Inc.

- 2-1-1 is a free and confidential service that helps Hoosiers across Indiana find the local resources they need.
- Available by dialing 2-1-1, text, and online.
- Available 24/7/365
- Resources for housing, food, utility assistance, job support, disaster assistance and more.





# Local Partnerships

Indiana  
**2-1-1**<sup>TM</sup>  
Get Connected. Get Answers.





# County Health Rankings & Roadmaps *A collaboration between*

*the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute*

- Ranks nearly every county in the nation based on vital health factors
- Provides a reliable, sustainable source of local data and evidence
- Engages and activates stakeholders across sectors
- Provides tools to create lasting solutions
- Increases awareness of social determinants of health related to health outcomes



# Social Determinants of Health



# IN211 Social Determinants of Health Screening Tool

- What is your housing situation today?
- In the past 12 months has the electric, gas, oil or water company threatened to shut off services in your home?
- Within the past 12 months, have you worried that your food would run out before you had money to buy more?
- In the past 12 months, has a lack of transportation kept you from medical appointments, meetings, work or from getting things you need for daily living?
- How often does anyone, including family, insult or talk down to you?



# IN211 Aspirations

- Better understand how the social determinants of health contribute to health outcomes and inequities.
- Identify and address underlying factors
- Deliver holistic I&R service
- Better empower individuals
- Build strong, multi-sector partnerships
- Share integrated community data
- Explore additional cross-sector innovations

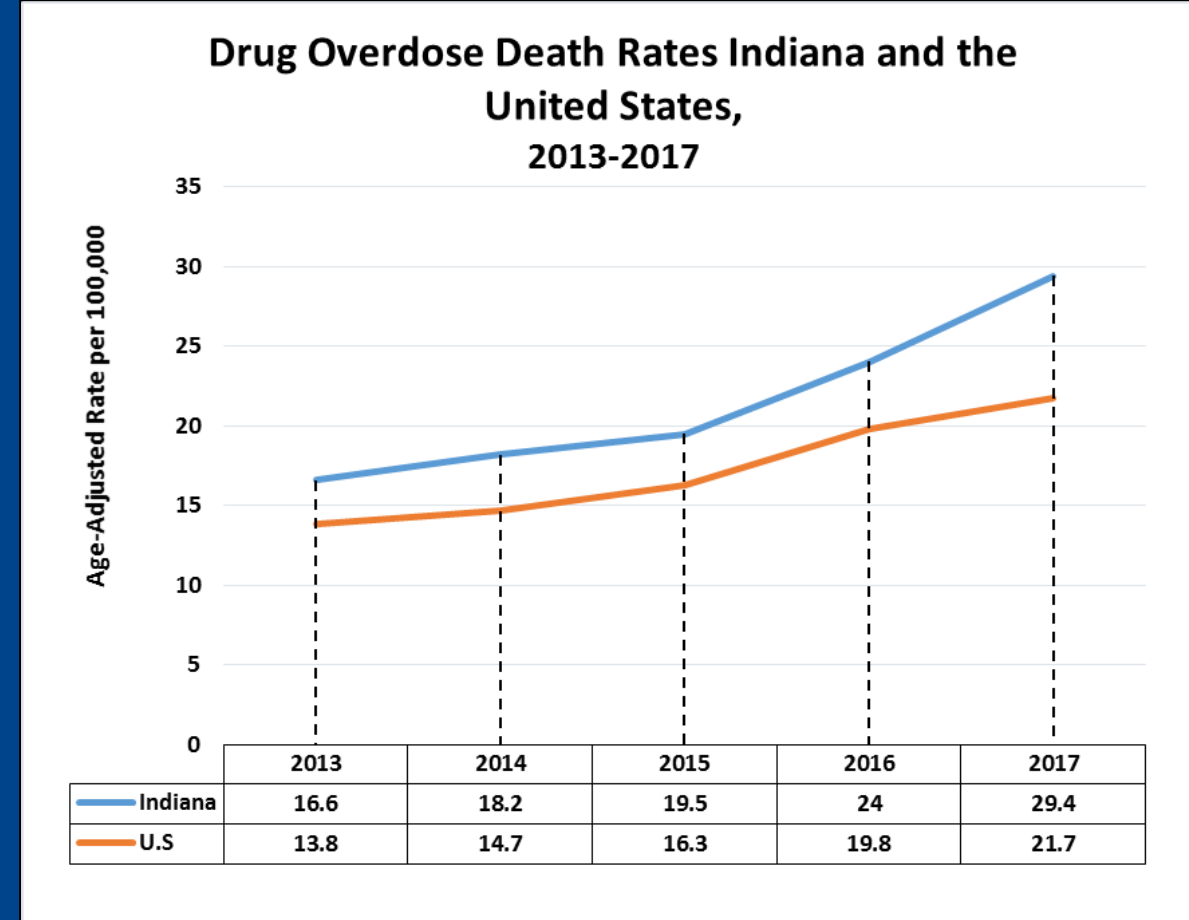
# The Indiana Opioid Epidemic



Indiana   
**2-1-1**<sup>TM</sup>  
Get Connected. Get Answers.



- According to the Indiana Department of Health, 757 Hoosiers were casualties due to opioid poisoning in 2016. <sub>1</sub>
- A large increase in heroin-related deaths occurred from 2012 to 2016—from 111 to 209 deaths.
- Deaths related to synthetic opioids also increased in the same period from 37 to 1717 deaths.
- Indiana Business Review cited that Indiana's battle with opioid yields economic damages amounting to \$43.4 billion over a 15-year study. <sub>2</sub>



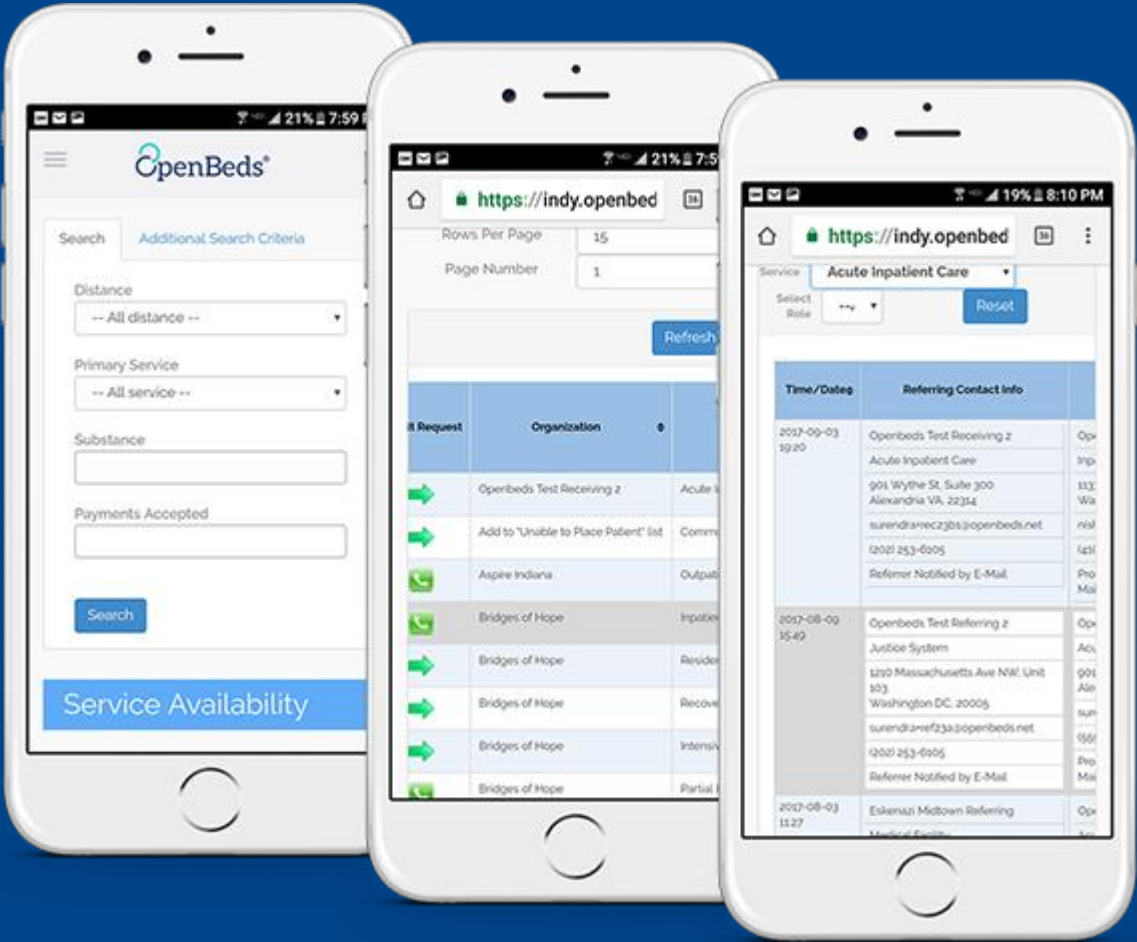


AN ENHANCED APPROACH  
TO BEHAVIORAL HEALTH





OpenBeds® is a software platform that manages health services. This innovative service combines access to available treatment options as well as a comprehensive list of health, human and social services across Indiana and can be accessed by simply dialing 2-1-1, 24 hours a day, 7 days a week, 365 days a year.



Search Criteria

Additional Search Criteria

Search by Distance

Primary Service

Substance

Payments Accepted

Search by ZIP

Search

Service Availability

Organization ▼	Primary Service ▼	Inpatient/Residential Beds Available					Outpatient		Comments	Contact and Service Info	Last Updated ▼
		Adult		Adolescent		Total	Next Available Appointment	Walk-in Access			
		M	F	M	F						
211	Community-Based Services-1							<div></div>	211 Wait List for priority populations (i.e. pregnant with SUD, women with SUD & children, or persons who inject drugs) that can't be placed	<div>i</div>	09:23 04-16-2019
211	Community-Based Services-2							<div></div>	211 Wrap-Around Service requests that are not associated with treatment referrals.	<div>i</div>	09:23 04-16-2019



Search Criteria
 Additional Search Criteria
 Search by Distance

Primary Service

\* Acute Inpatient / Dual Diagnosis

Substance

\* Heroin

Payments Accepted

\* Medicaid

Search by ZIP

Search

Service Availability

Organization ▾	Primary Service ▾	Inpatient/Residential Beds Available					Outpatient		Comments	Contact and Service Info	Last Updated ▾
		Adult		Adolescent		Total	Next Available Appointment	Walk-in Access			
		M	F	M	F						
Bloomington - IU Health	Acute Inpatient / Dual Diagnosis	0	0	-	-	0					15:09 04-15-2019
Brentwood Springs	Acute Inpatient / Dual Diagnosis	8	8	-	-	16			Bed availability not gender specific. Walk in available 24/7		15:17 04-15-2019
Deaconess Cross Pointe	Acute Inpatient / Dual Diagnosis	1	1	0	0	2			We do not have any residential services.		15:41 04-15-2019

# Referral Request

## Contact Information

Treatment Organization:	Brentwood Springs
Service:	Acute Inpatient / Dual Diagnosis
Address:	4488 Roslin Road, Newburgh IN, 47630
Phone #:	(812) 758-4193
Email:	openbedsbrentwood@spsh.com

Your preferred method to contact as per your profile is

E-Mail ▼

Changing this will update your profile upon submit

## Submit Request

Primary Service\*

Acute Inpatient / Dual Diagnosis ▼

Urgency of need\*

Gender and Age\*

Substance(s) – leave blank if not applicable

Difficult to Place Medical and Psychiatric Conditions

Special Populations\*

Payment\*

Sending Service\*

-- Select Service-- ▼

Request (Maximum 200 characters)\*

Enter additional information here regarding the client's condition including co-occurring medical and/or psychiatric conditions. Maximum 200 characters

☐ Check If referral is voluntary

☐ Check If referral is non-voluntary

Wrap Around Services\*


This generates a notification to 211. Consent the patient about 211 contacting them. 211 will reach out within 48 hours.

SubmitCancel

Patient Information



Time/Date ▾	Referring Contact Info	Receiving Contact Info	Request Details	Receiving Service ▾	Status ▾	ID ▾	Patient Info	
14:39 04-16-2019	Referring1 Admin State Authority, Referring-1 1150 K St NW 711 Washington, DC 20005 training+refadmin@openbeds.net (555) 555-5555 Referrer Notified by E-Mail	Receiving-1 Outpatient Counseling 301 King St, Alexandria, VA 22314 Training+Rec1-OC@openbeds.net (555) 555-5555 Provider Notified by Service E-Mail	Test	Outpatient Counseling	Closed	137	Joe Doe 	
New Message 12:35 04-10-2019 Requested 12:31 04-10-2019	Referring1 Admin State Authority, Referring-1 1150 K St NW 711 Washington, DC 20005 training+refadmin@openbeds.net (555) 555-5555 Referrer Notified by E-Mail	Receiving-1 Outpatient Counseling 301 King St, Alexandria, VA 22314 Training+Rec1-OC@openbeds.net (555) 555-5555 Provider Notified by Service E-Mail	Test	Outpatient Counseling	Opened and Declined	131	Joe Doe 	

Time/Date ▾	Name	Role	Activity	Action/Message	Attachment
14:47 04-16-2019	Referring1 Admin	Referring Administrator	Action	I'm going out to lunch.	
14:45 04-16-2019	Referring1 Admin	Referring Administrator	Closed	Thanks	
14:45 04-16-2019	Rec1 Admin1	Receiving Service Administrator	Messaging	Thanks. We will review the case.	Test_Doc.docx
14:39 04-16-2019	Referring1 Admin	Referring Administrator	Opened	Test	Test Doc.docx 

1 - 4 of 4

Rows Per Page

25 ▾

Send Message

Messages and notifications of messages are automatically received by sending and receiving providers.

Choose Files

No file chosen

Select below to notify your team members

Select

Send

Local Action

Actions are only seen locally at your organization. Add a note in the box below and click on 'Save' for your own purposes.

Select below to notify your team members

Select

Save



# lyft



Indiana   
**2-1-1**<sup>TM</sup>  
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# What is Lyft ?

- Lyft is public ridesharing platform, that allows individuals to request rides through a live-online network.
- Lyft provides a "Concierge" platform that allows organizations such as IN211 to request rides on behalf of clients.
- IN211 provides free Lyft rides to/from substance use recovery programs.
- IN211 cannot provide rides to Medicaid/HIP clients at this time.





# Where does the data go?



Indiana   
**2-1-1**™  
Get Connected. Get Answers.



# Management Performance Hub

- IN211 provides this data to the State of Indiana
- Data is entered the Management Performance Hub (MPH)
- <https://www.in.gov/mph/930.htm>

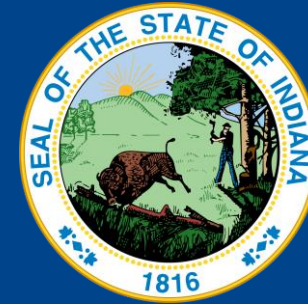


# What are Indiana's leaders saying?



"Our new 2-1-1 OpenBeds program has made more than 4,000 referrals for treatment services and support groups, connecting people quicker than ever, which can mean the difference between life and death."<sup>3</sup>

**Eric Holcomb, Governor of Indiana**



"The feedback that we got from 2-1-1 and the referrer was that it was the easiest thing they had ever done."<sup>4</sup>

**Dr. Jennifer Walthall, Indiana FSSA Secretary**





# References

1. In.gov. (2019). *Opioid Epidemic - MPH: Management Performance Hub*. [online] Available at: <https://www.in.gov/mph/930.htm>.
2. Brewer, R. and Freeman, K. (2017). *Cumulative economic damages from 15 years of opioid misuse throughout Indiana*. [online] Ibrc.indiana.edu. Available at: <http://www.ibrc.indiana.edu/ibr/2018/spring/article1.html> [Accessed 19 Apr. 2019].
3. State of Indiana: Office of the Governor (2019). *2019 State of the State*. [online] Available at: [https://www.in.gov/gov/files/2019\\_SOTS\\_Speech.pdf](https://www.in.gov/gov/files/2019_SOTS_Speech.pdf) [Accessed 19 Apr. 2019].
4. Walthall, J. (2018). *State Partners with OpenBeds to Boost Opioids Treatment*.



# Regenstrief Institute

Better Care. Better Health.

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## An Infrastructure to Address the Opioid Crisis and Other Population Health Needs

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FHIMSS

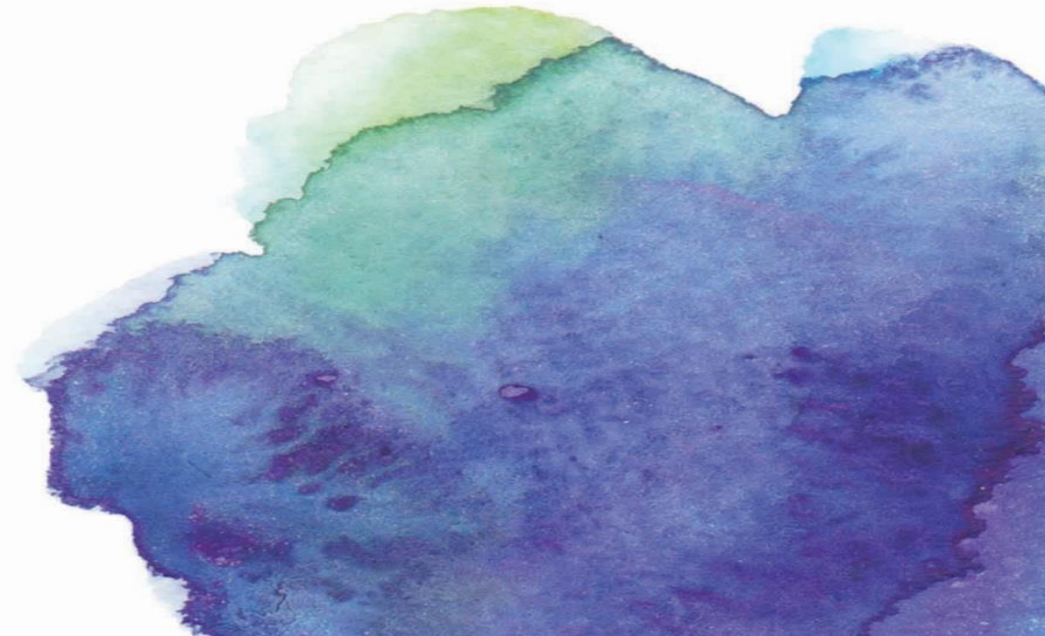
Associate Professor and Research  
Scientist

April 25, 2019



**IUPUI**

FAIRBANKS SCHOOL OF PUBLIC HEALTH



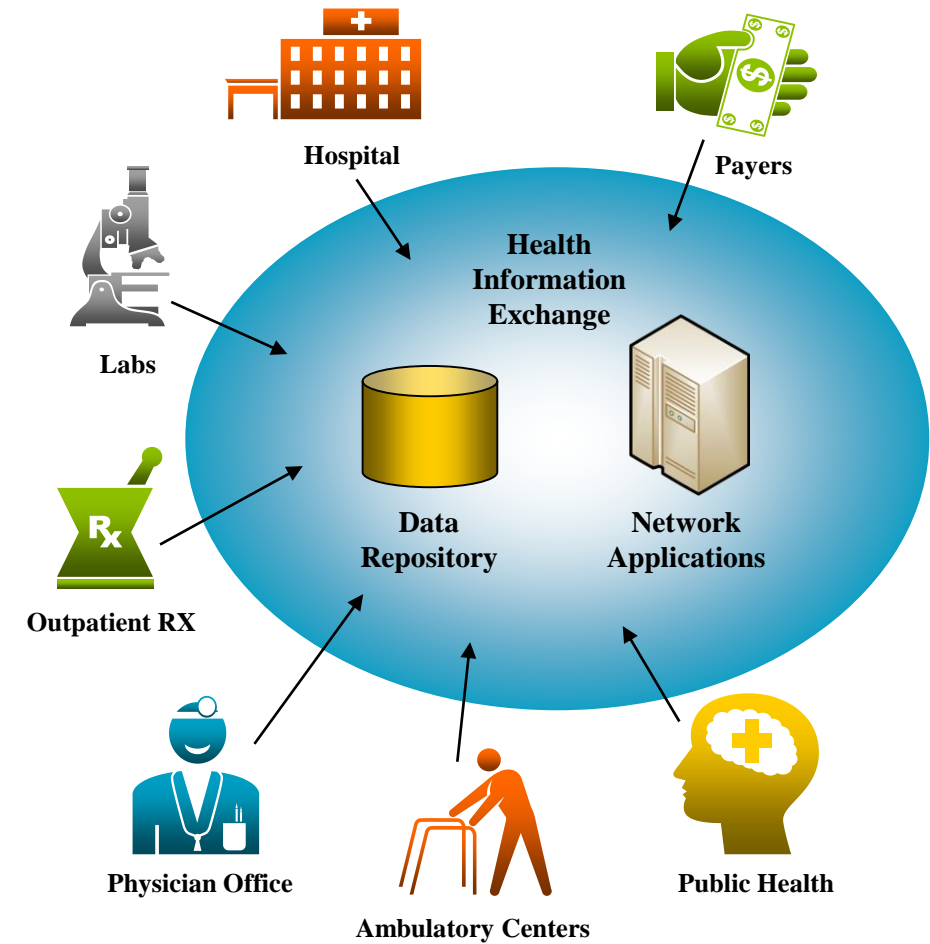
# Outline of Presentation

- The Indiana Network for Population Health (INPH)
  - An update to the fabulous INPC...
  - Vision and Architecture
- Leveraging the INPC to Support Opioid Epidemiology and Health Services Research
  - Supporting the IU Addictions Grand Challenge





# The Fabulous INPC

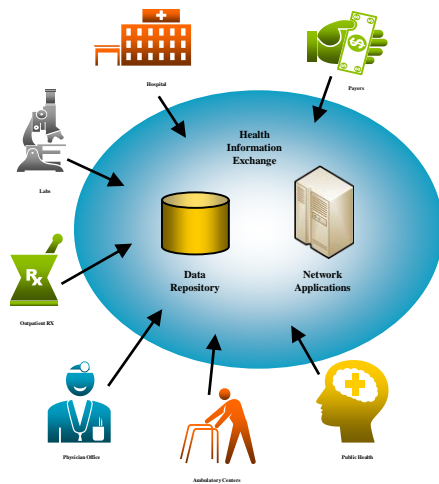


# Quick Stats on the INPC

- 117 hospitals, representing 38 health systems
- Over 16,000 practices with over 45,000 providers
- Over 14 million patients
- Nearing 12 billion pieces of clinical data
  - Doubled in the past 2 years!

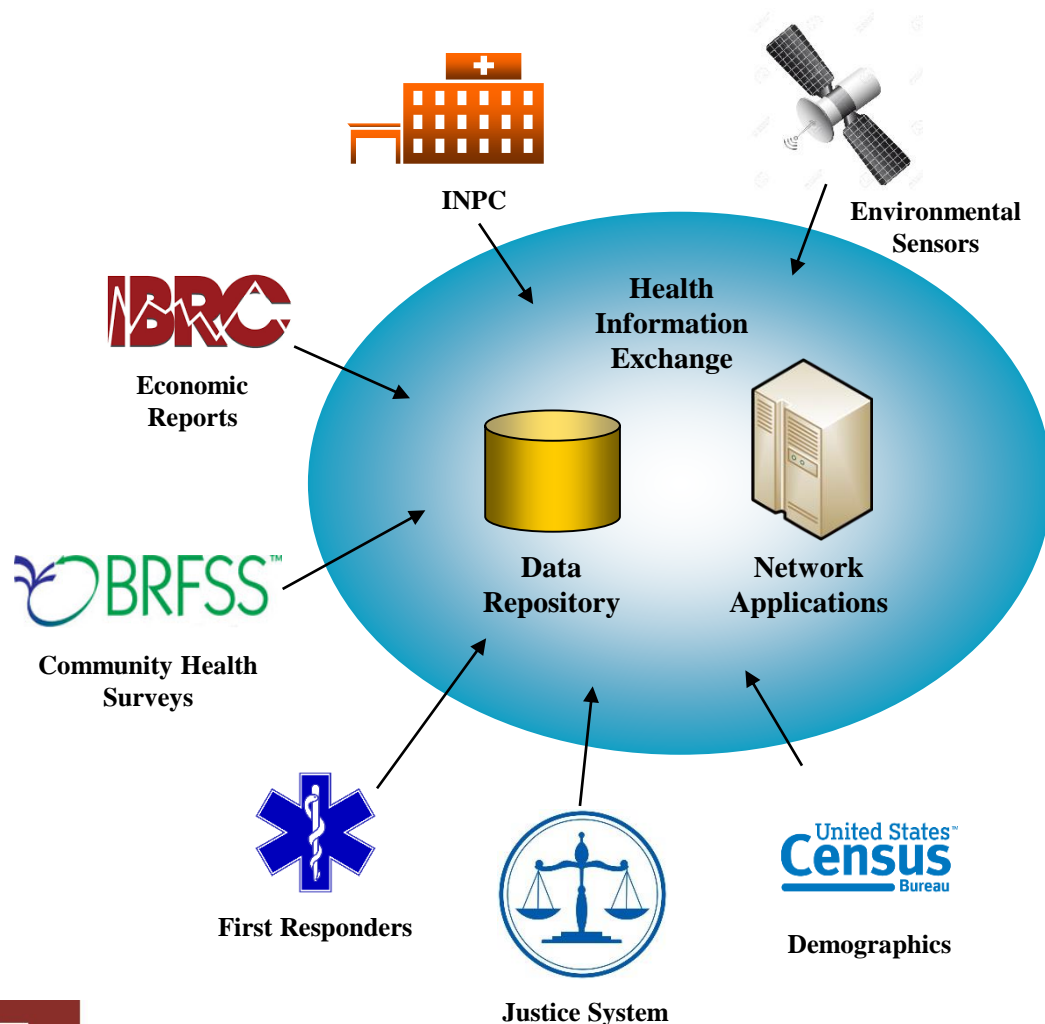


# The Indiana Network for Population Health



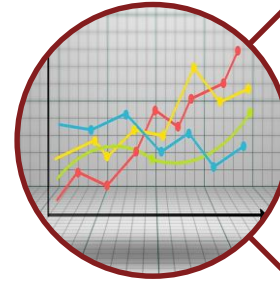


# The Indiana Network for Pop Health (INPH)



## Population Health Assessment

- Population health needs and services
- Analytics to identify populations and sub-populations in need of services



## Enhancing Health Surveillance

- Trends in disease prevalence and incidence among populations
- Enhanced reporting of data to public health agencies



## Clinical and Population Health Decision Support

- Situational Awareness
- Connecting patients to community services



# How Do We Create the INPH?

- Robust Governance
  - Engage committed stakeholders in building trust
- Flexible, Scalable Architecture
  - Embrace messy, heterogeneous data and info systems
- Focus on a Culture of Health
  - Concentrate on local health needs and challenges



# Indiana University's Addiction Grand Challenge



<https://grandchallenges.iu.edu/addiction/index.html>





# The Indiana Addictions Data Commons

- Goal
  - Address the addiction crisis by making robust, comprehensive, and commonly accessible data available to physicians, researchers, public health, and policy-makers in order to appropriately characterize, address, and monitor the crisis.
- Challenge
  - Data to address the crisis exist but they are fragmented, and there exists no unified process for accessing and integrating them to support a culture of health





Indiana Health  
Information Exchange

Engage Stakeholders via Governance

MANAGEMENT  
PERFORMANCEHUB



Indiana  
Hospital  
Association



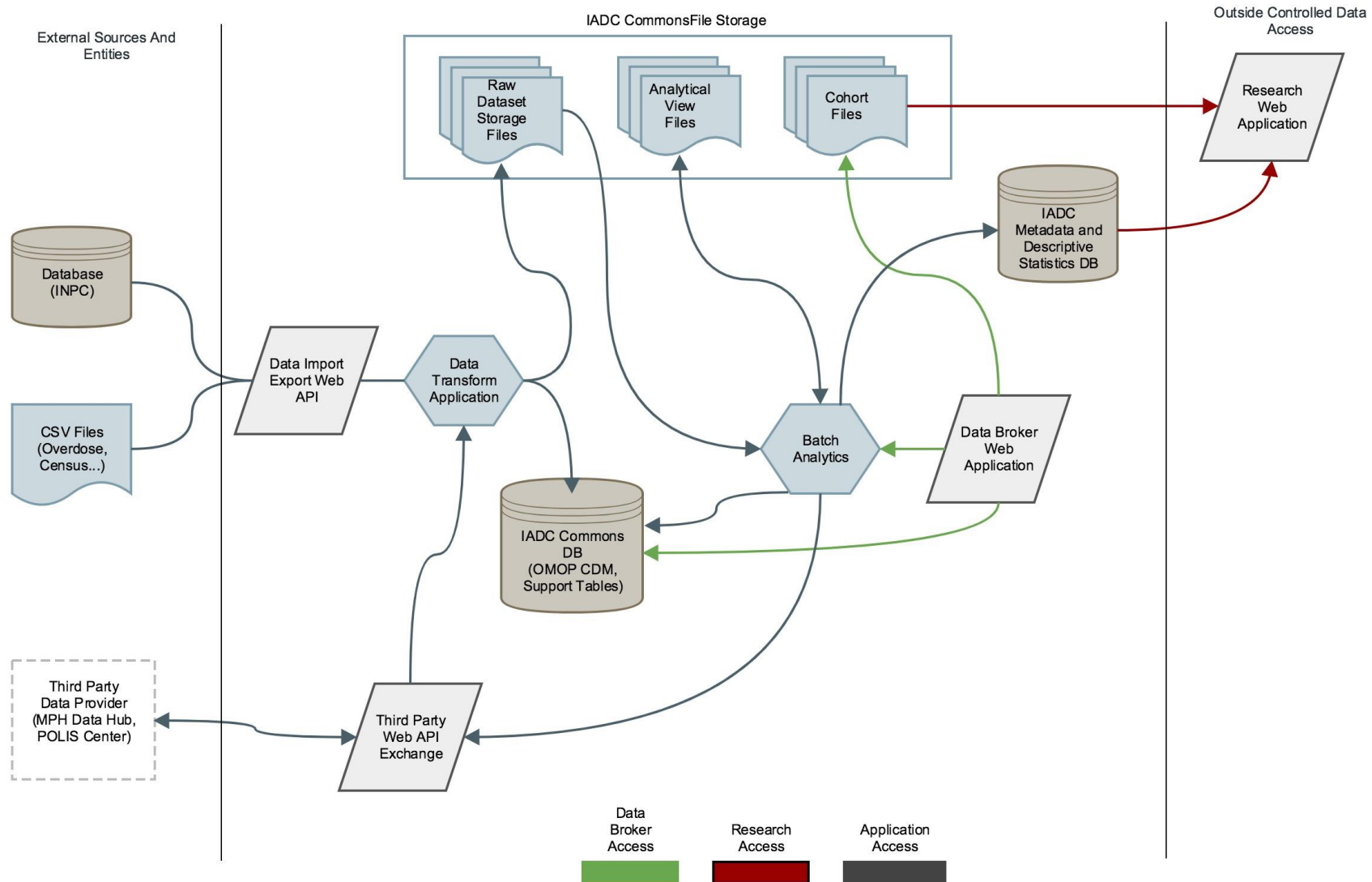
Indiana State  
Department of Health



**Grand** Challenges



# A Scalable, Flexible Architecture for IADC





# Acknowledgements

- The IADC is funded through a grant from the IU Grand Challenges Program (PI: Peter Embi; Shaun Grannis)
- Dr. Dixon receives funding from AHRQ, NLM/NIH, VA HSR&D, and the Indiana State Department of Health
- We acknowledge the fabulous talent at Regenstrief:
  - Dan Hood, IADC Program Manager
  - Katie Allen, MS, PhD Student (RI Data Core)



Questions?

Discussion



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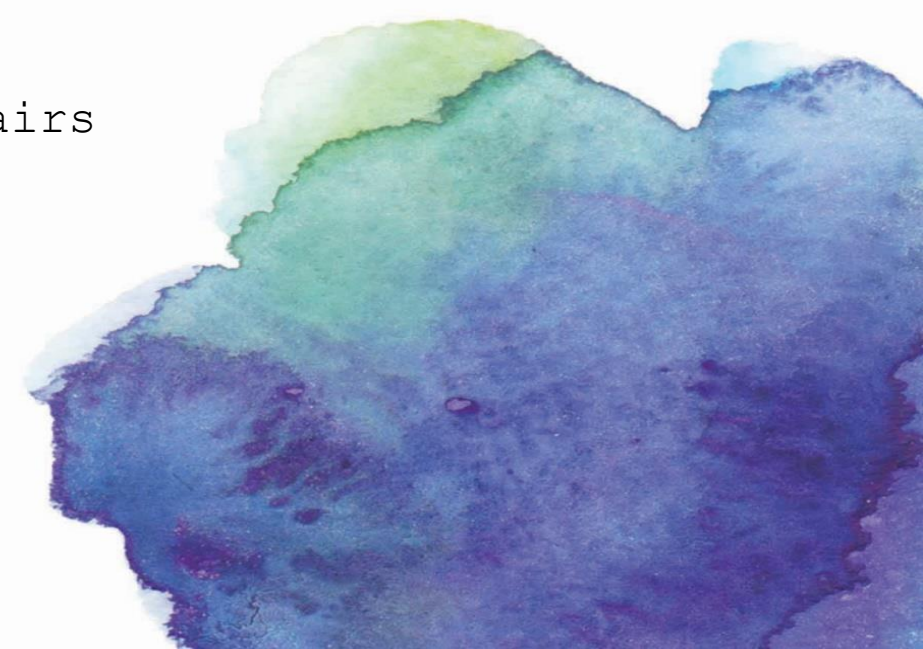
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**Regenstrief Institute**  
**Center for Biomedical Informatics**

Better Care. Better Health.





# The Dayton and Ohio Experience

- Judge Tony Capizzi
- Montgomery County, Ohio Juvenile Court
-



# Montgomery County

- One of 88 counties in Ohio
- 534,700 population; 124,000 youth under age 18
- 76% Caucasian; 24% youth of color
- Legal age for youth in Ohio = 18
- 2017 Juvenile Cases- Approximately 21,190
  - Adult civil cases: parentage, support: 1,511
  - Adult criminal cases: 565
- Juvenile court staff: 450

# Goals of Juvenile Courts



We must be the catalyst to protect children by:

- Being a leader in effective and cost efficient utilization of community resources for the treatment of children and families
- Providing for the protection of the community through just and speedy consequences
- Being sensitive and responsive to individual victims and their families



# Specialty Courts

## Juvenile Treatment Court

Began in 1998

 Averaged  
25 youth  
per year

Expanded

 Now serves  
100-125 youth  
per year

Served

 1500 youth  
since 2005

Graduation Rate

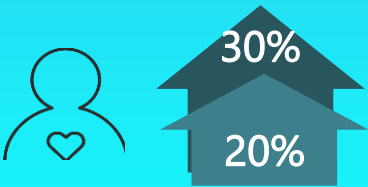
64%



## Family Treatment Court

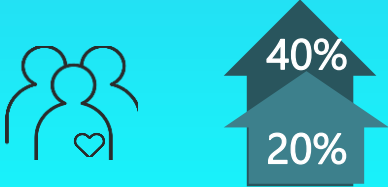
Designed to improve the safety and well-being of children in the dependency system by providing parents access to drug and alcohol treatment, judicial monitoring of their sobriety and individualized services to support the entire family.

### Graduation Rate Increase



Graduation rates are 20-30% higher for FTC participants than for comparison participants

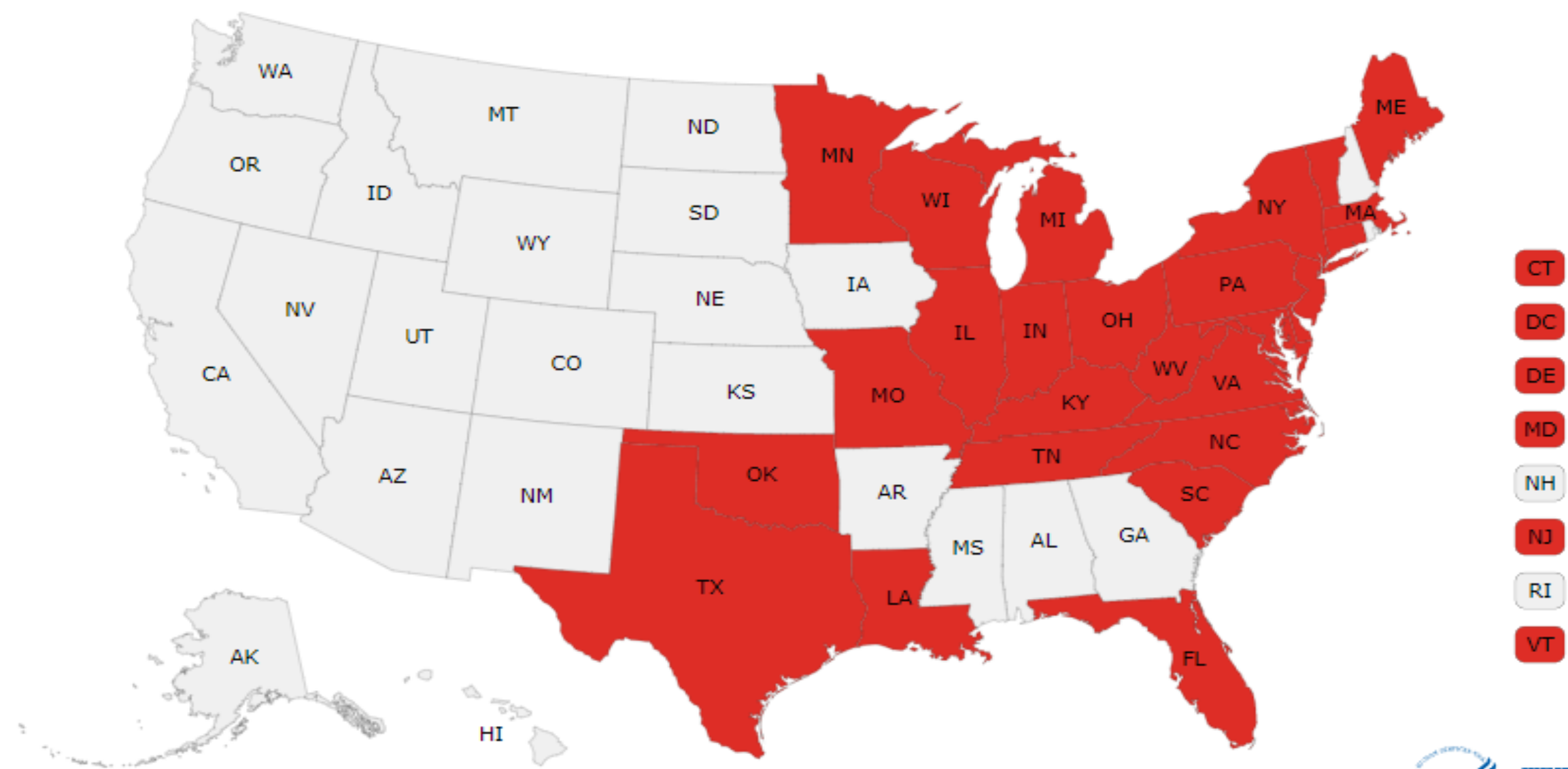
### Reunification Rate Increase



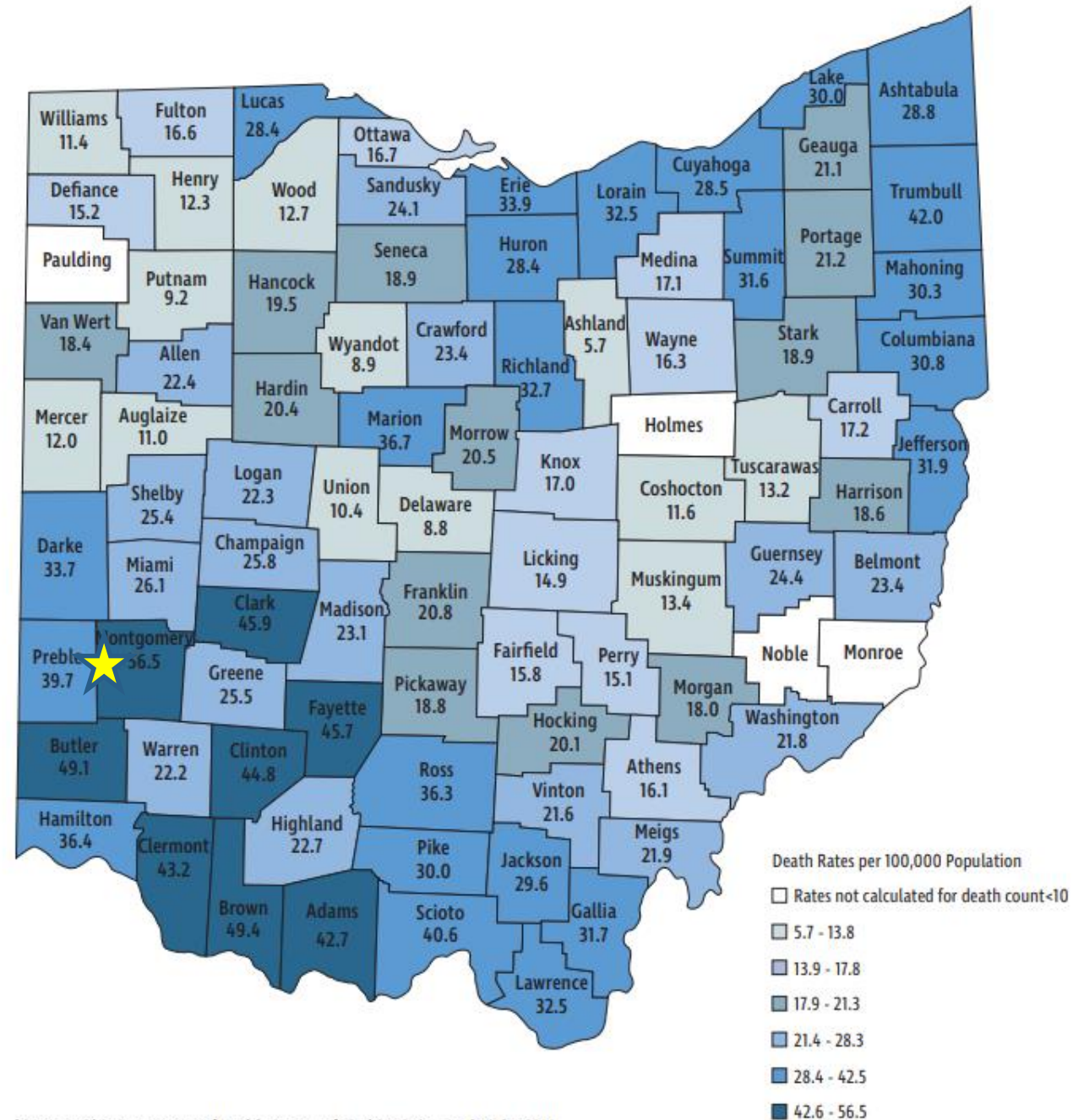
Family reunification rates are approximately 20 – 40% higher for FTCs than for the comparison group



Statistically significant drug overdose death rate increase from 2015 to 2016, US states

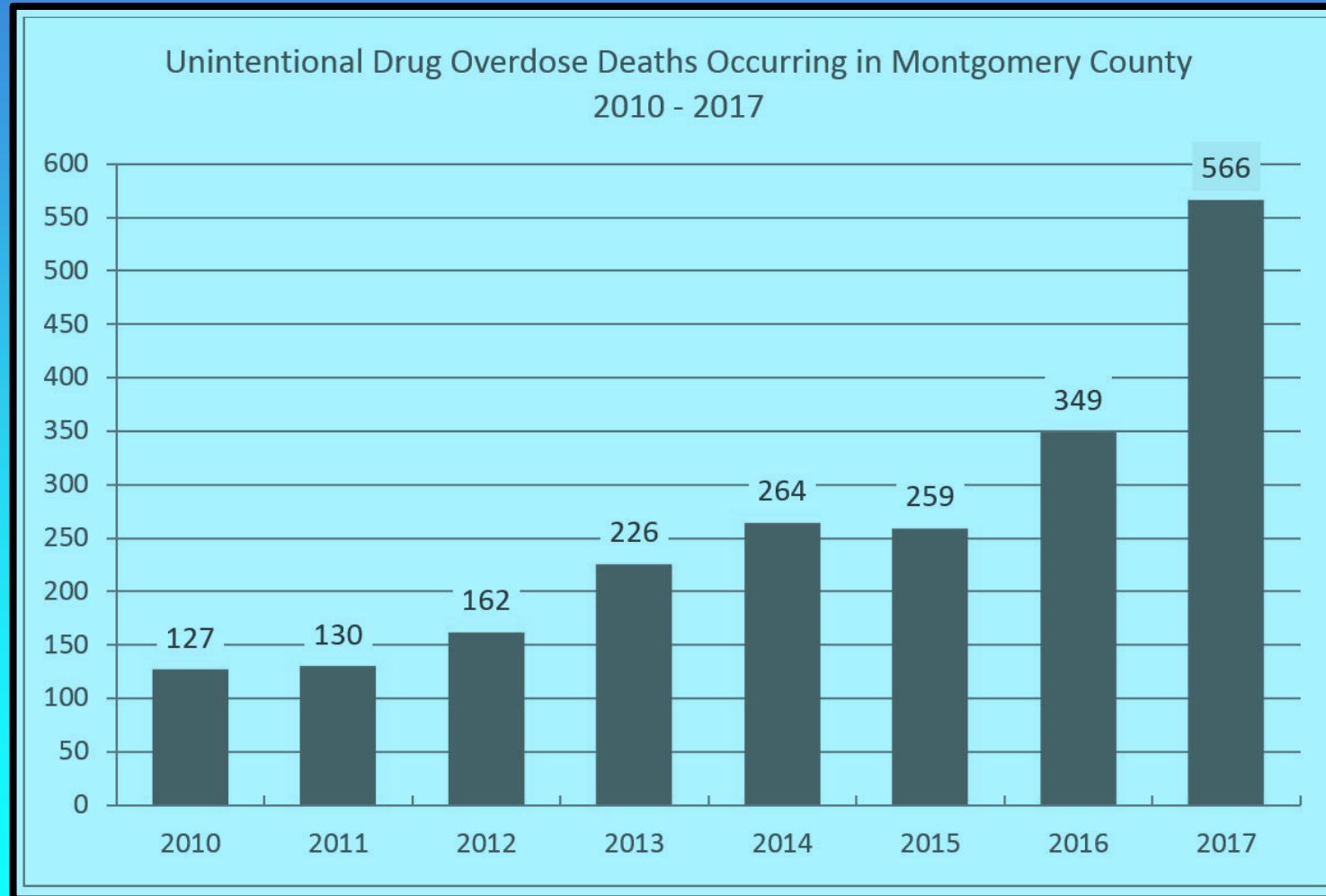


# 2017 State of Ohio Overdose Death Rate



# Unintentional Drug Overdose Deaths

## Montgomery County Ohio





# Our Response

## The Community Health Improvement Plan



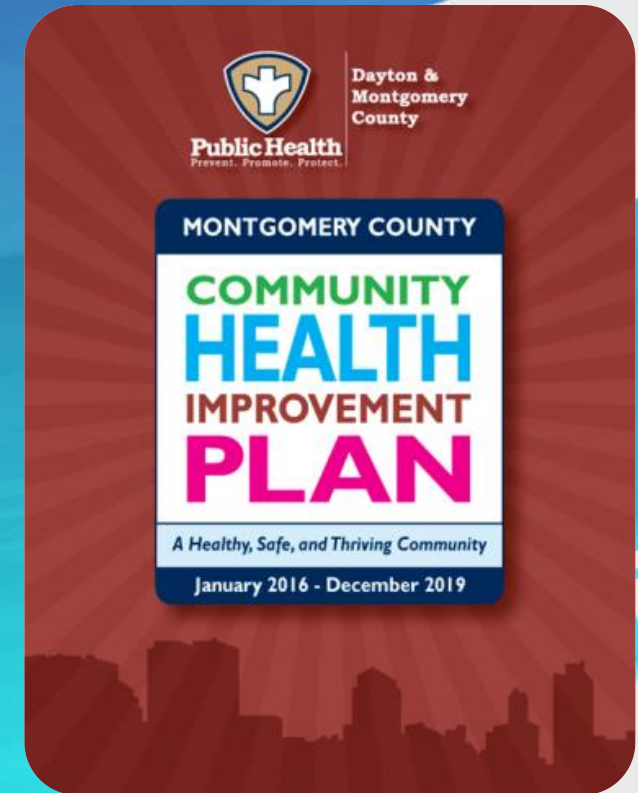
Birth  
Outcomes



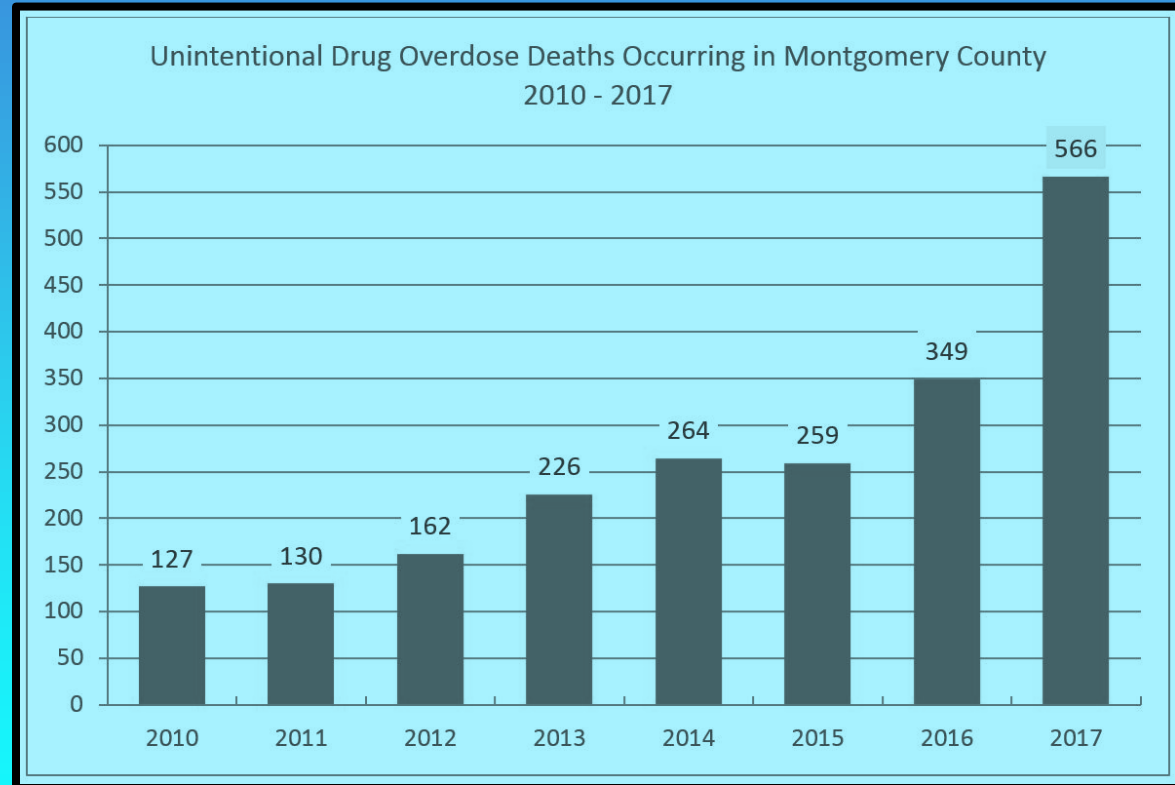
Chronic  
Disease  
Prevention



Behavioral  
Health



# Partnership: Montgomery Co. ADAMHS & Public Health Dayton–Montgomery County

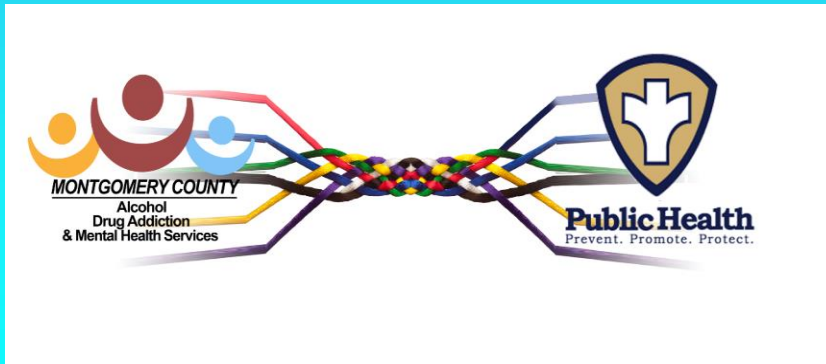


**BUT** Many centers of excellence in the community were struggling to align countywide efforts to change the trend

- 4 coalitions
- 3 hospital systems
- 30+ treatment providers
- Recovery support providers
- Prevention providers
- Harm reduction providers - syringe exchange, Project Dawn program, LE naloxone repository
- Business partners
- Other community agencies

# What Led to the Development of the Community Overdose Action Team

- In late summer of 2016, Montgomery County Leaders approached ADAMHS and Public Health to create and lead a unified county wide response to organize system partners







# **Community Overdose Action Team**

*Working Together To Combat Opioid Overdoses*



***Goal:***

**Reduce the number of fatal overdoses**

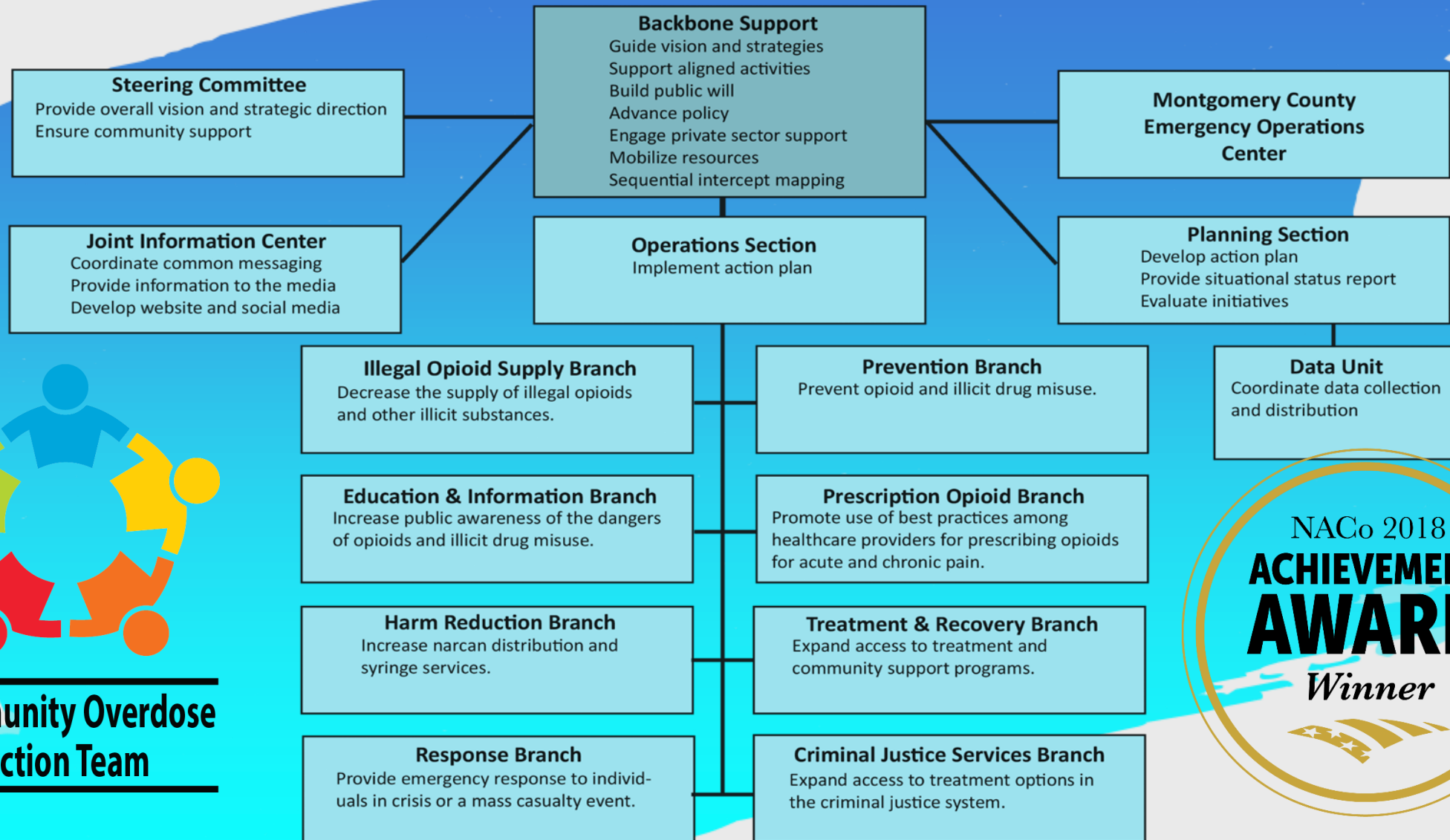
***Response:***

**Incident Command System**

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## Community Overdose Action Team



# COAT Success Highlights

- **Re-allocation of local funding and new funding**
- **Increase in data sharing**
- **Community education**
- **Outreach efforts**
- **Naloxone distribution**
- **Expansion of syringe exchange services**
- **Increase coordination of law enforcement and fire/EMS**
- **Increase in training opportunities**
- **CDC guidelines implemented in hospitals**
- **Increase in Certified Peer Supporters**
- **Increase in treatment services**
- **Development of school prevention curriculum**



## Best practices for deploying local resources in response to an addiction crisis:

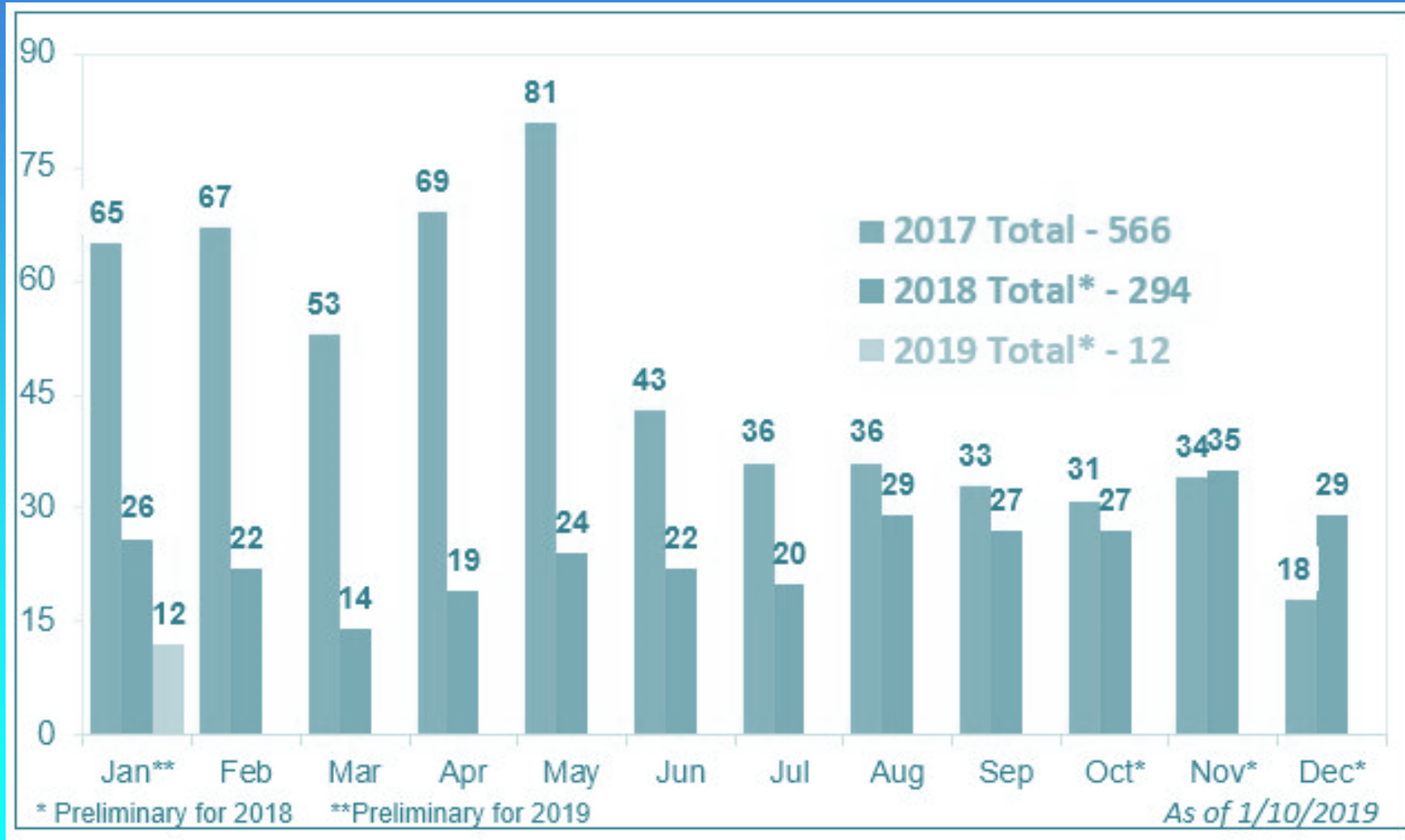
- **Rapid and targeted data collection and use**
- **Collaboration between agencies and organizations**
- **A law enforcement strategy focused on prevention and support—not criminalization**
- **Building a community of recovery and support**
- **Access to treatment**
- **Promoting safer substance use**

Source: Center for American Progress Dayton Ohio Opioid Report



# Unintentional Drug Overdose Deaths

## Montgomery County Ohio



# Overdoses are Declining

## Between January to June 2017 and January to June 2018

Overdose Emergency Department Visits ↓ **73%** (2,590 to 705)

EMS Overdose Runs ↓ **68%** (1,383 to 438)

Law Enforcement Overdose Calls ↓ **66%** (2,239 to 761)

Drug Overdose Deaths ↓ **65%** (379 to 132)

Naloxone Doses Administered by EMS ↓ **60%** (1,790 to 715)

---



**Where We Are  
Going Next?**

# Where We Are Going Next?

- Increase Naloxone distribution
  - Expand and enhance syringe services
  - Improve coordination of recovery club organizations
  - Continue to seek out federal and state funding that align with collaborative initiatives
  - Increase media campaigning to reduce stigma of mental illness and addiction through the Think Again Campaign, #Voices Project (Indigo Media), speaking engagements and town hall meetings
  - Continue to use data to establish COAT strategic directions
-



# New Challenges

- How to maximize progress made in addressing the opioid epidemic to the larger population health issue of addiction of all kinds
  - Response to changing drug trends (meth, cocaine)
  - Will the current structure sustain over time?
-

[illegible]

# Judge Tony Capizzi

Montgomery County Juvenile Court

Dayton, Ohio

937-496-6600

[acapizzi@mcjcoho.org](mailto:acapizzi@mcjcoho.org)

To view the **COAT Incident Action Plan & other COAT documents**: <http://www.phdmc.org/coat>

To view “**A Community of Recovery: Dayton, Ohio’s Compassionate, Collective Approach to the Opioid Crisis**”: <https://www.americanprogress.org/issues/criminal-justice/reports/2019/01/10/464889/a-community-of-recovery/>