

Enhancing Access to Prescription Drug Monitoring Programs

An Introduction to Using Health IT to Combat Prescription Drug Abuse

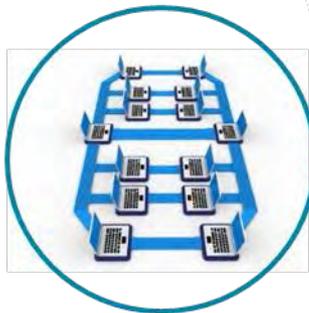
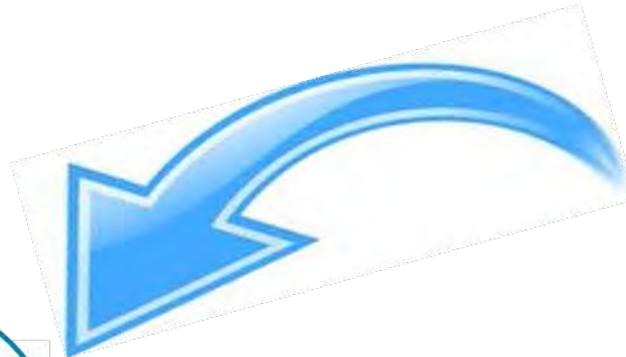
Today's Agenda



**Project
Overview**



**Pilots &
Implementations**



**Technical
Framework**



**Compelling
Vision**

The Team

 <p>The Office of the National Coordinator for Health Information Technology</p>	<p>Jennifer Frazier, ONC, Jennifer.Frazier@hhs.gov</p>
 <p>Substance Abuse and Mental Health Services Administration SAMHSA</p>	<p>Jinhee Lee, SAMHSA, Jinhee.Lee@samhsa.hhs.gov Kate Tipping, SAMHSA, Kate.Tipping@samhsa.hhs.gov</p>
 <p>CDC</p>	<p>Chris Jones, CDC, cjones@cdc.gov</p>
 <p>Office of National Drug Control Policy</p>	<p>Cecelia Spitznas, ONDCP, Cecelia_M_Spitznas@ondcp.eop.gov</p>
 <p>MITRE</p>	<p>Lisa Tutterow, MITRE, ltutterow@mitre.org Jeffrey Hammer, MITRE, jmhammer@mitre.org</p>

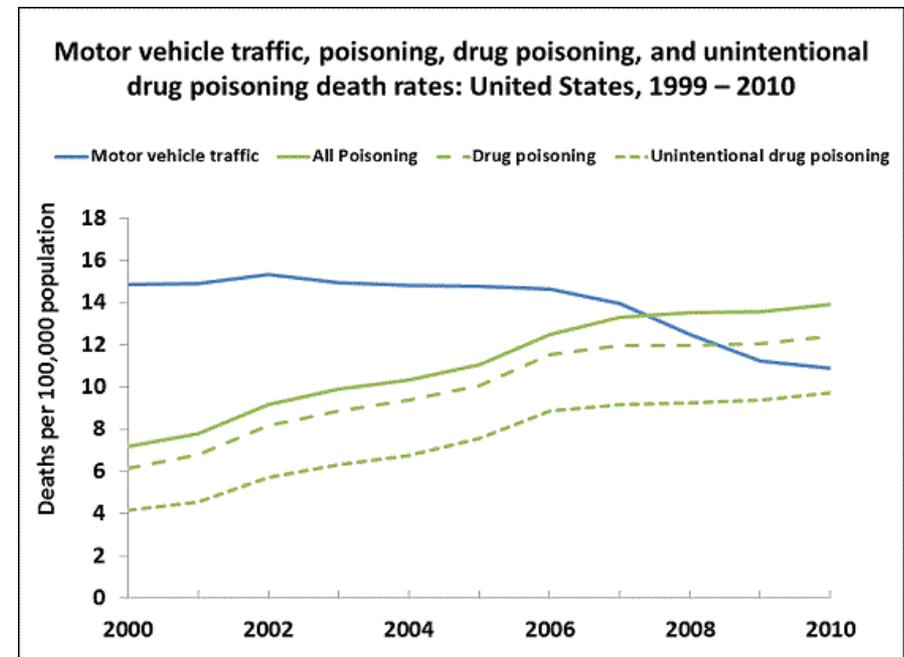
Overview



MITRE

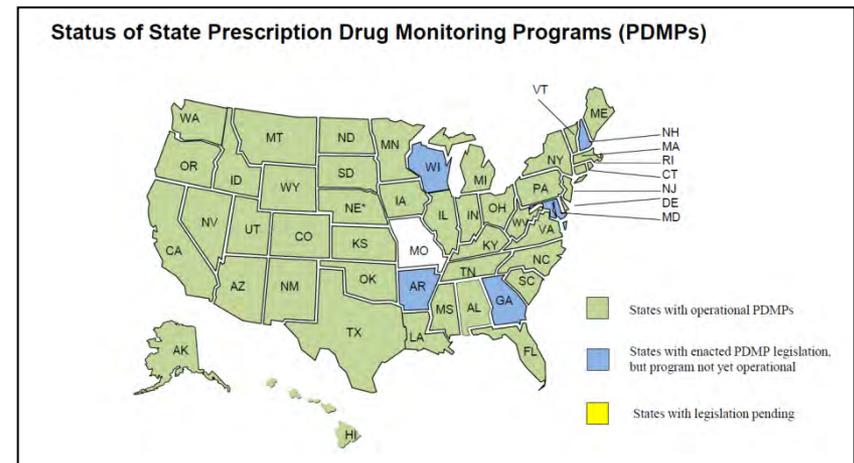
The Problem

- The Centers for Disease Control and Prevention (CDC) declared that deaths from prescription painkillers now **outnumber deaths from heroin and cocaine combined**
- Prescription drug abuse death is one of the fastest growing public health epidemics, **outpacing deaths from traffic fatalities**



Prescription Drug Monitoring Programs (PDMPs)

- Many states established PDMPs to address the prescription drug abuse problem
- Purpose: To reduce prescription drug abuse and diversion
- What: Statewide electronic databases
 - Collect, monitor, and analyze electronically transmitted dispensing data on controlled substances
- Who: Authorized healthcare professionals
 - Physicians
(known as prescribers)
 - Pharmacists
(known as dispensers)
 - Other authorized healthcare professionals



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This information was compiled using legal databases, state agency websites and direct communications with state PDMP representatives.

PDMP Value

- **PDMPs contain useful information**
 - Identify patients who are potentially **abusing or diverting** prescription drugs
 - Inform **clinical decisions** regarding controlled substances
- **The issue is how to make this information more available to three key groups of clinical decision-makers:**



The Story So Far



White House Roundtable on Health IT & Prescription Drug Abuse: June 3, 2011



Action Plan

ACTION PLAN FOR IMPROVING ACCESS TO PRESCRIPTION DRUG MONITORING PROGRAMS THROUGH HEALTH INFORMATION TECHNOLOGY

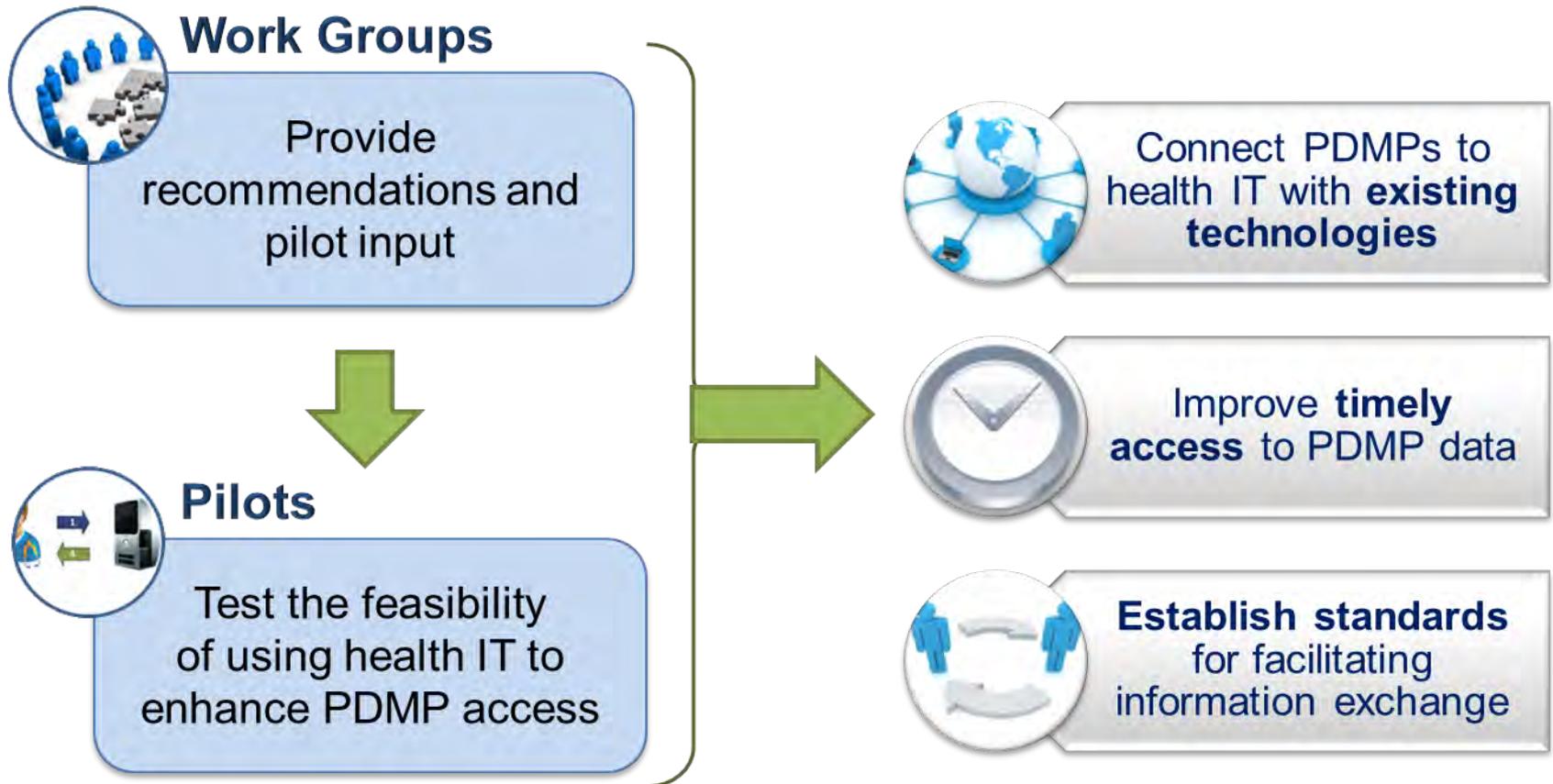
Presented to
 The Behavioral Health Coordinating Committee,
 Department of Health and Human Services
 through
 The Pharmaceutical Abuse Subcommittee
 by the
 Prescription Drug Abuse and
 Health Information Technology Work Group

JUNE 30, 2011

Situation Today

- **Providers and dispensers need prescription drug history information to improve clinical decision-making**
 - They don't receive the controlled substance history needed from PDMPs
- **Health IT is the link to connect prescribers and dispensers with the valuable data in PDMPs**
- **From the local to national level – never a greater time of action centered around PDMPs and their value**
- **Increasing number of projects centered on PDMPs and health IT connectivity**

Project Goals



Work Groups

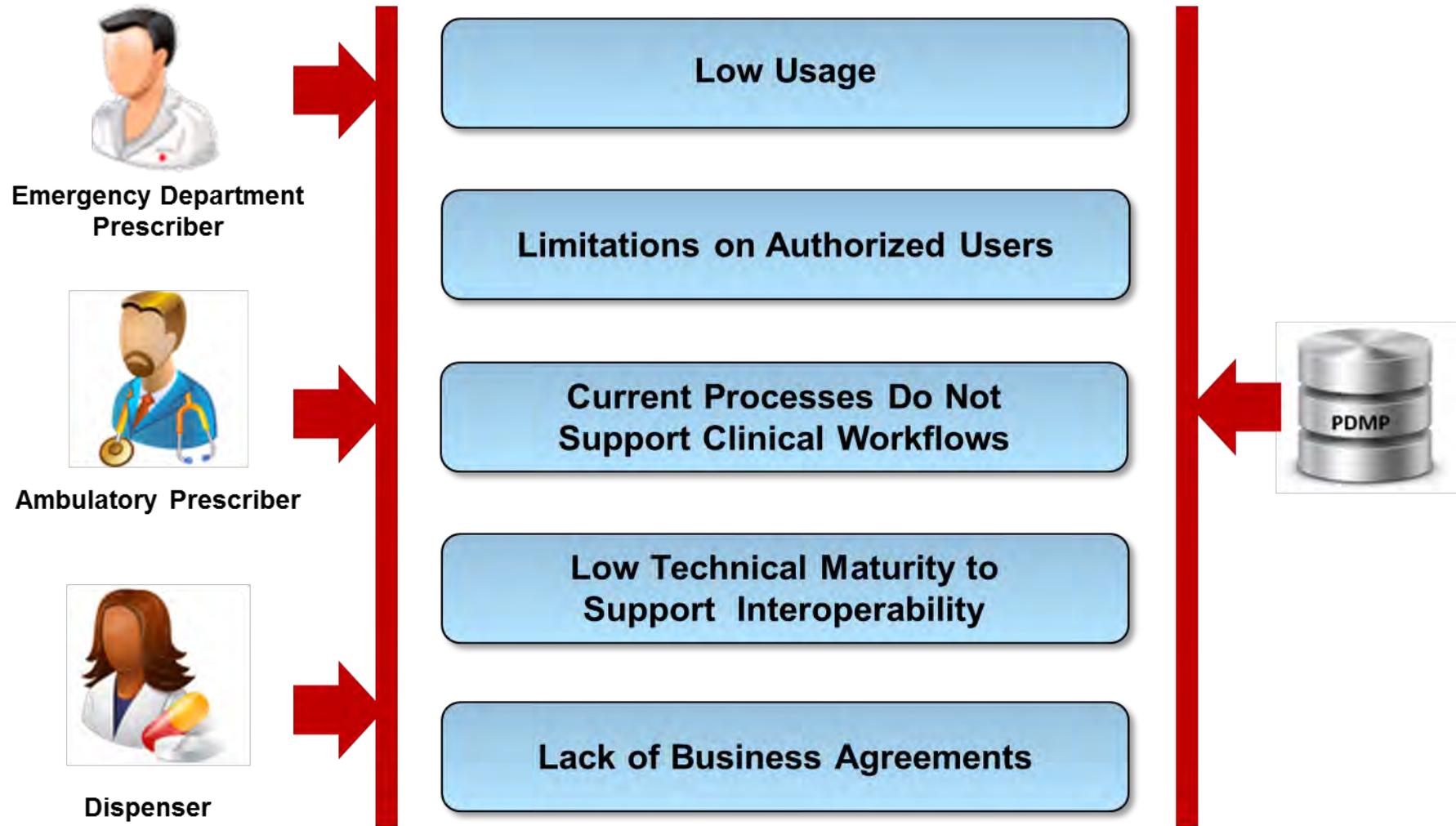


Work Group Engagement

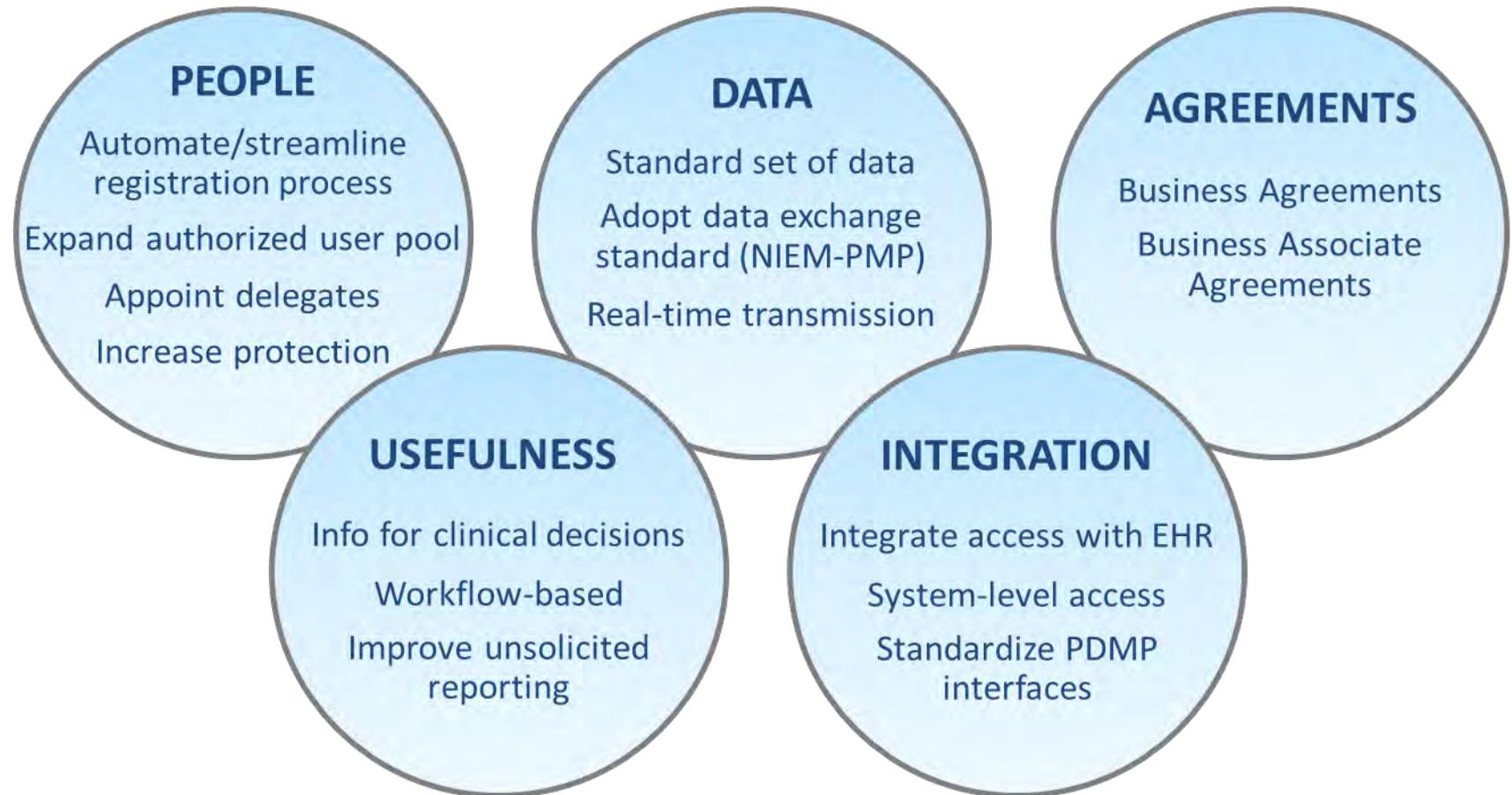


48 recommendations and 11 artifacts for use

PDMP Impediments



Work Group Recommendations Summary



48 Findings and 11 Products

Pilots



Why Pilots?

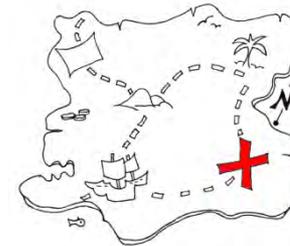
The pilot studies explored effectiveness in multiple areas:



At the point of
decision-making
(timely)



Real-time data, based on the
most up-to-date data in the PDMP
(currency)



Integrated into existing clinical
and health IT workflows
(placement)



Meaningful return of patients'
prescription drug information
(essential, easily absorbed, and actionable)

Pilot States and Summary

Indiana (IN₁)

Emergency Department

Automated query to PDMP upon patient admission to ED
PDMP data integrated into EHR



Indiana (IN₂)

Provider

Unsolicited PDMP reports sent via Direct

Michigan (MI)

Provider

Automated query to PDMP to create integrated prescription history and alerts

Pilot States and Summary (Cont.)

**North Dakota
(ND)**

Pharmacy

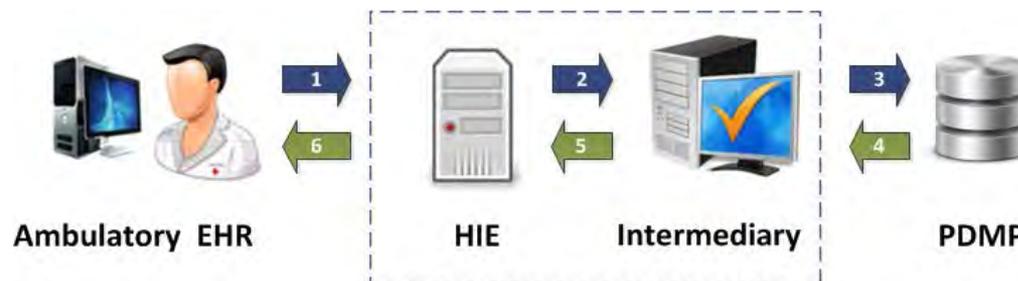
Automated query to PDMP using an existing benefits management switch and return results to Indian Health Service pharmacy



Ohio (OH)

Provider

Automated query to PDMP upon appointment scheduling and patient check-in; patient risk score displayed in EHR



**Washington
(WA)**

Opioid
Treatment
Program

Hyperlink to PDMP within EHR

Pilot Results – Usability



98–100%
when systems were mostly
Automated

Ease of Use



Prescribers and
Dispensers
reported data was
easier to access...



67–75%
when some actions
remained
Manual



Prescribers and dispensers
uniformly agreed that the
**position of the
new tasks**
in the workflow was correct

Pilot Results – Impact

Less than

3

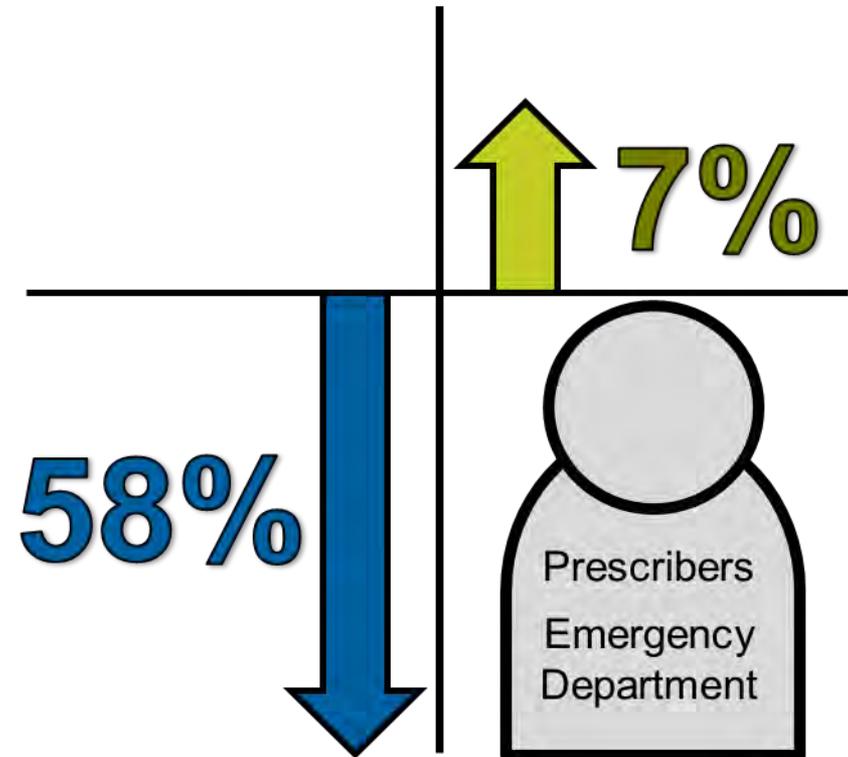


Multiple types



of pilot designs and technology
were successful

% of responses reporting a
change in prescriptions written
or number of pills dispensed



Pilot Results – Scalability

4 of 6



pilot locations are

continuing

to use the new connections to PDMP

Automation = Satisfaction



Triage helpful, but...

... full data access
visibility and
integration desired

Pilot Results

- ***Immediate improvement*** to the patient care process after connection
- ***Streamlined the user workflows*** by leveraging technology to enable PDMP query and processing tasks
- Prescribers and dispensers were the ***most satisfied*** with their new workflows when ***technology automated*** the majority of workflow tasks

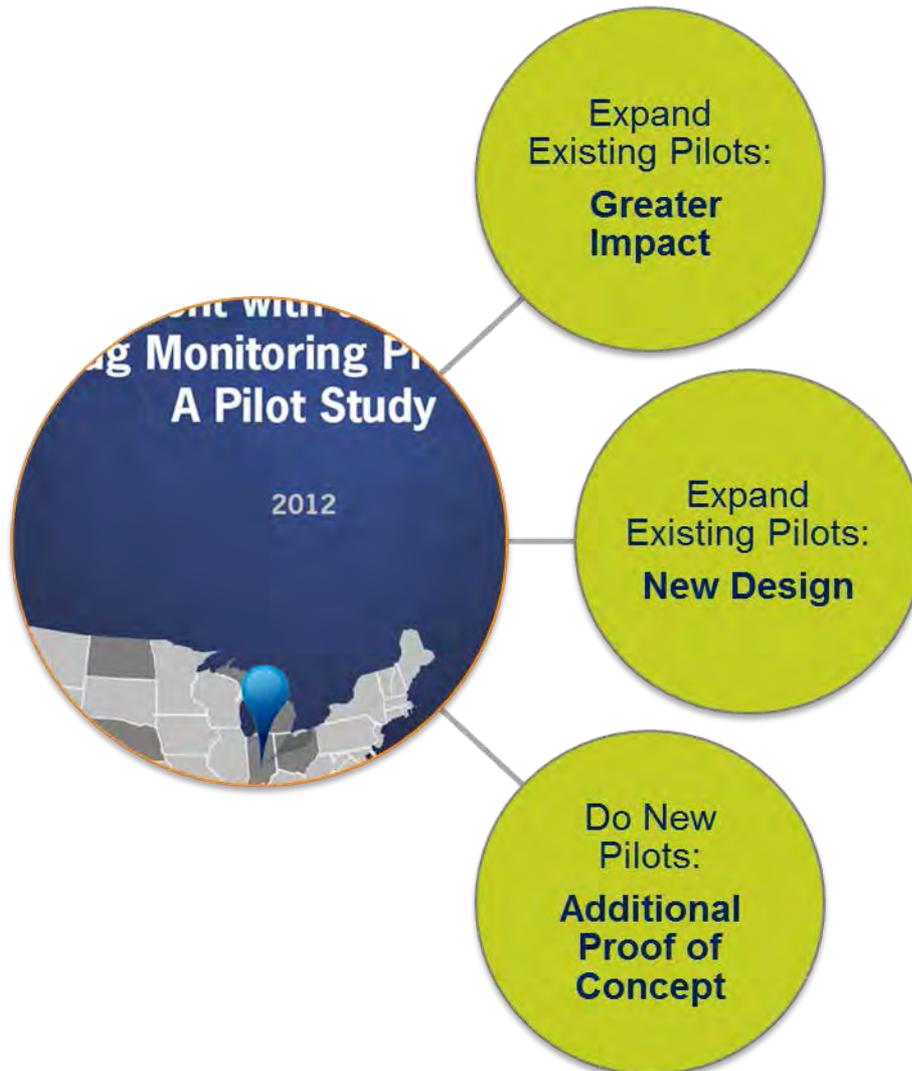
In their own words...

- ***“I have to say that this is probably one of the more **genius moves of the 21st century** . . . having easy access to [the PDMP] without going to a totally different website and have it pop up instantly has taken a lot of time off of decision making for me.”***
 - *Emergency department physician*
- ***“Yes, **much easier**. Especially like being able to click on the report and be **taken directly to the patient’s report** without having to enter the patient’s name, date of birth, and zip code (this was very time consuming and sometimes prevented me from looking up the information in the past).”***
 - *Ambulatory family physician*

Indiana/Regenstrief Story



Pilots Expanded

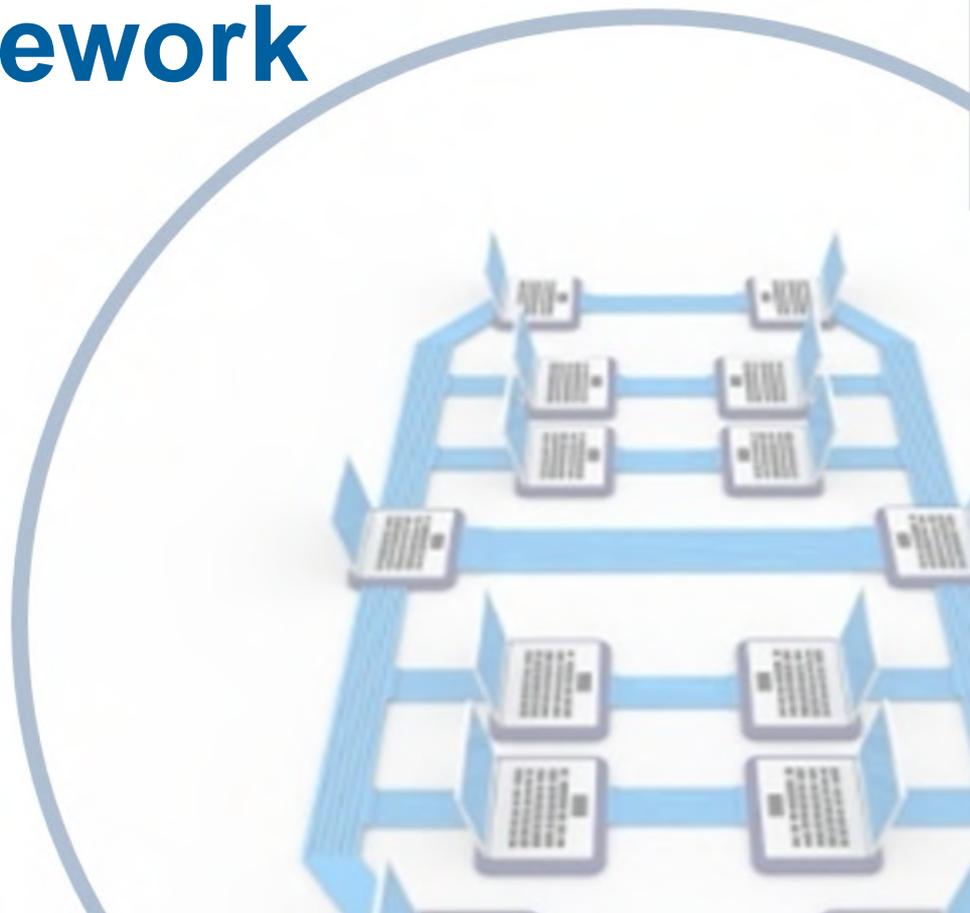


Stay tuned to find all pilot reports and findings at the new PDMP Resource Center (coming soon)

Pilots Expanded in Phase 2

State	End User	Pilot Summary
Illinois (IL)	Emergency Department	Automated query via HIE to PDMP upon patient admission to ED PDMP data integrated into EHR via a Direct message
Indiana (IN ₃)	Emergency Department	Automated query via HIE to multiple states' PDMPs upon patient admission to ED Patient risk score and PDMP data integrated into EHR
Kansas (KS)	Providers	Unsolicited report of at-risk patients sent via Direct to EHR-integrated mailboxes
Michigan (MI)	Providers	Automated query via e-Prescribing software to multiple states' PDMPs and result integrated in patient's medication history
Nebraska (NE)	Emergency Department	Automated query via HIE to PDMP upon patient admission to ED PDMP data integrated into EHR
Oklahoma (OK)	Emergency Department	Automated query via HIE to PDMP upon patient admission to ED PDMP data integrated into EHR
Tennessee (TN)	Pharmacy	Reporting data in real-time to the PDMP from pharmacies

Technical Framework



Technical Framework – Challenges

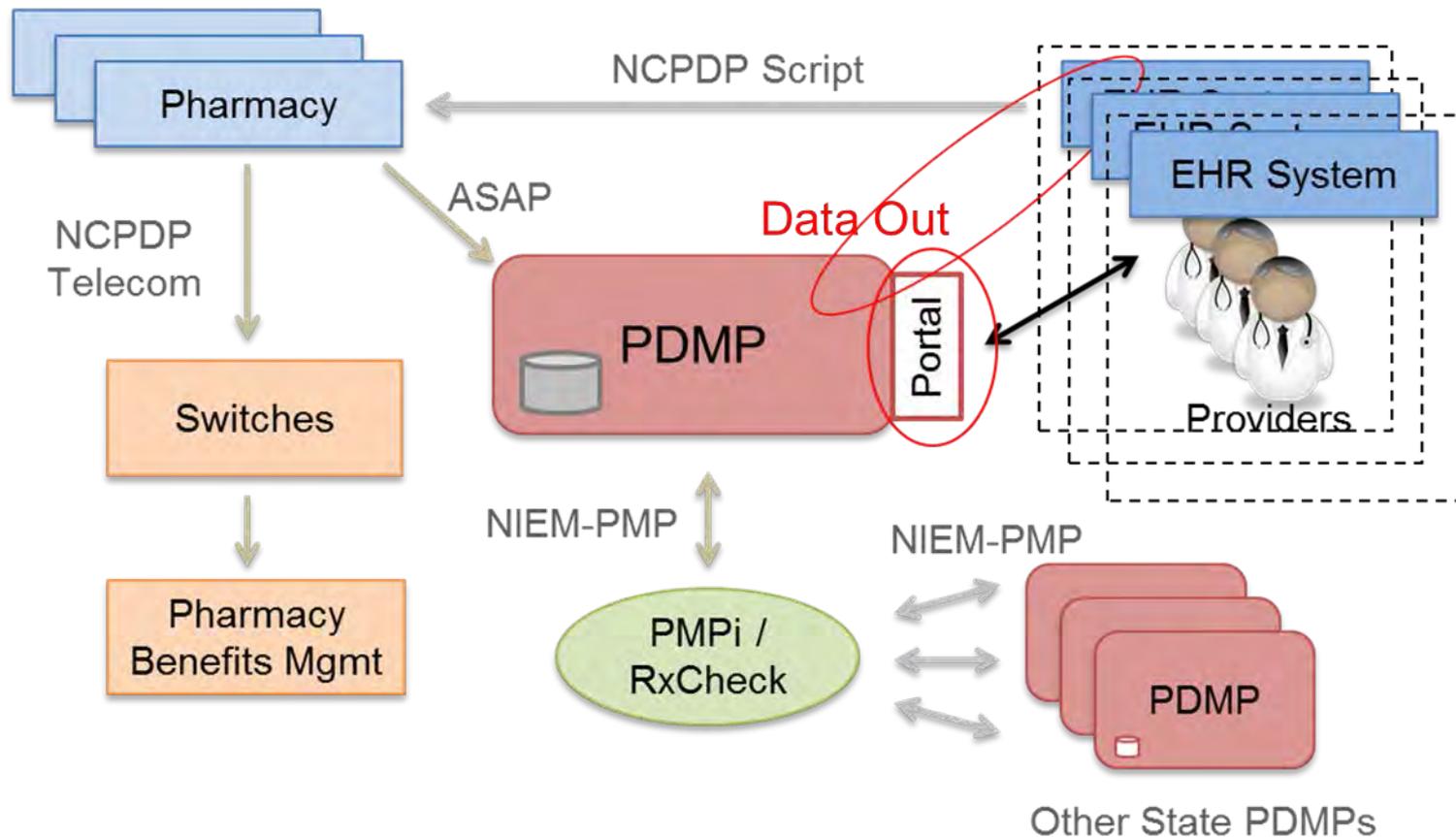
What's the problem?

- **Ease of use – PDMPs are not integrated in provider workflows**
- **Interoperability – PDMPs don't talk to other health IT**
- **Cost of operations – PDMPs cost too much to run**

PDMP S&I Community Focus/Scope

- **Need for standards:**

- Data format and content, transport and security protocols



PDMP S&I Initiative

Goal
Establish standards to facilitate information exchange

Method
Healthcare systems automatically query PDMP services to locate patient prescription information

Community Engagement
Continue to engage healthcare, health IT, and PDMP community in standards discussions



62 people signed up



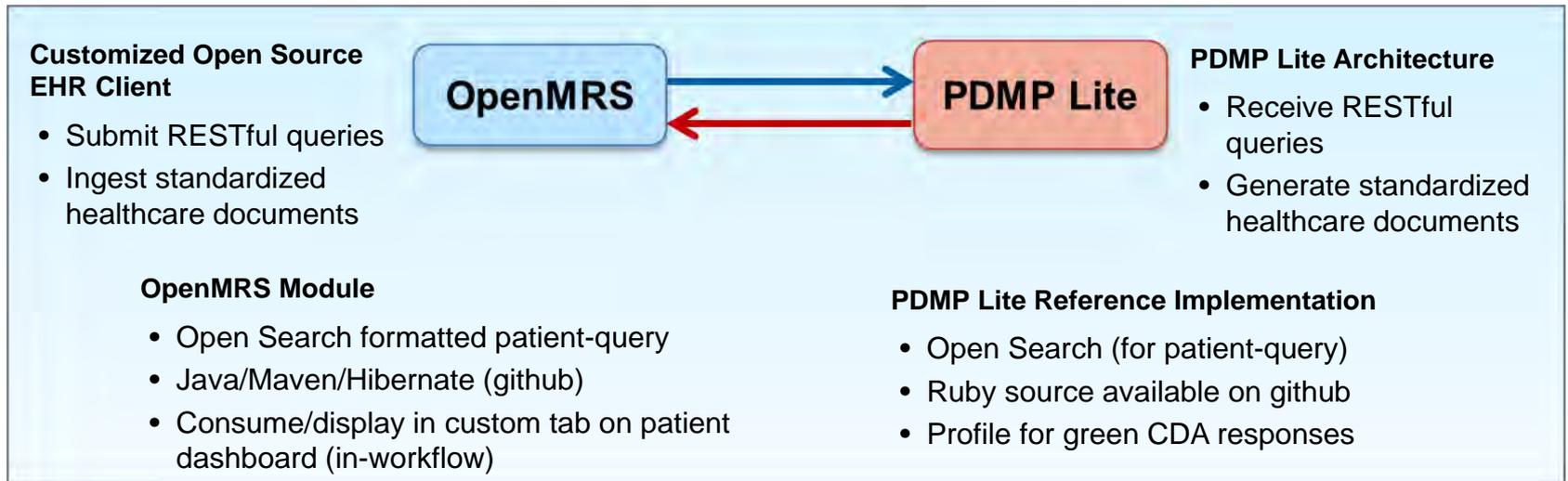
28 posts



60 active participants on calls

PDMP/EHR Exchange Reference Implementation

- **Demonstration of EHR querying PDMP using Internet / healthcare standards and protocols**
- **Next Steps**
 - Replace one or both ends with EHR and/or PDMP vendors
 - Demonstrate a reference implementation in live setting



Enable interoperability between HIE/EHR vendors and PDMP vendors

Compelling Vision



Articulating a Compelling Vision



PDMP Resource Center

PDMP Connection: Making Connections with PDMPs
The Office of the National Coordinator for Health Information Technology

Select Interest

Conversation

Featured

- NATIONAL GOVERNMENT**
Enhancing Access to PDMPs Using Health IT FAQ
- PILOTS**
FY12 Pilot White Papers
Indiana Implementation
- TECHNICAL**
HIMSS 2013 Overview
NASCA Presentation
- SAMHSA Grants**
FY12 Workgroup White Paper

Events

- HIMSS Conference** March 3-7
Conference site
- Virginia Pilot Kick off** July 27
Virginia Pilot Pages
- Live Tweeting on PDMP** Sept 1
#Live-PDMP

Dynamic Links

- #PDMP**
Press Release
- #Pilots**
Oklahoma White Paper
Indiana White Paper
- #PHYSICIAN**
Anticipated Benefits
- #TECHNICAL**
Tech Flash with Toby

PDMP Connection: Making Connections with PDMPs
The Office of the National Coordinator for Health Information Technology

Indiana Pilot #1

Location

#PDMP-IN-1

John Techlead
321 Connect RD
Indianapolis, IN

Contact

Email: first.last@gmail.com
Website: www.first.last.com
Twitter: @first.last
Google+: @first.last.com

Role
Technical

Interests
Pilot 1

Twitter @Indiana-Pilot

ParCare Database not ready for prescription drug monitoring program: Local/2wE0

medicalinformer Database not ready for prescription drug monitoring program: Local/SpK1te

tetchyspandre! My advice for #AZHQ med abuse: Mandate doctors check Prescription Drug Monitoring Program before prescribing stimulant. Local/2Q55Q2

Featured

Pilot Article #1
Tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Maecenas faucibus mollis interdum. Nulla vitae elit libero, a pharetra augue.

PDMP Video
Tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Maecenas

Dynamic Links

- @Indiana-Pilot
Georgia Sets up it's PDMP
- #Pilot
PDMP Video
- #Technical
Indiana's Scheduled Prescription Electronic Collection & Tracking

Roadmap Workflows

■ Goals

- To connect and engage stakeholders
- Accelerate adoption and use of PDMPs

■ Key features

- Models the connection
- Technology workflows
- Project plan
- Implementation
- Evaluation and optimization



Technology Logic Diagram and Workflows

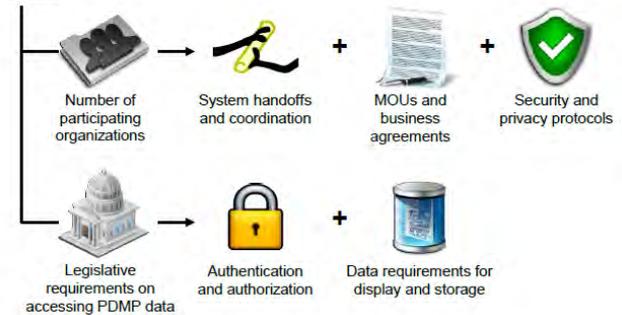
INTRODUCTION to Connection Models



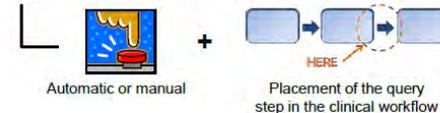
1 How to make a query to your state's PDMP



Assess the system-to-system, EHR-to-PDMP, technical capabilities for transporting a prescription drug data request to your state's PDMP



Determining the mechanism in the clinical systems workflow for initiating the patient search



In Summary...

Questions or Comments?

Email pdmphit@mitre.org

