



The Office of the National Coordinator for  
Health Information Technology



# Prescription Drug Monitoring Program (PDMP) & Health IT Integration Initiative

## Standards and Interoperability Framework

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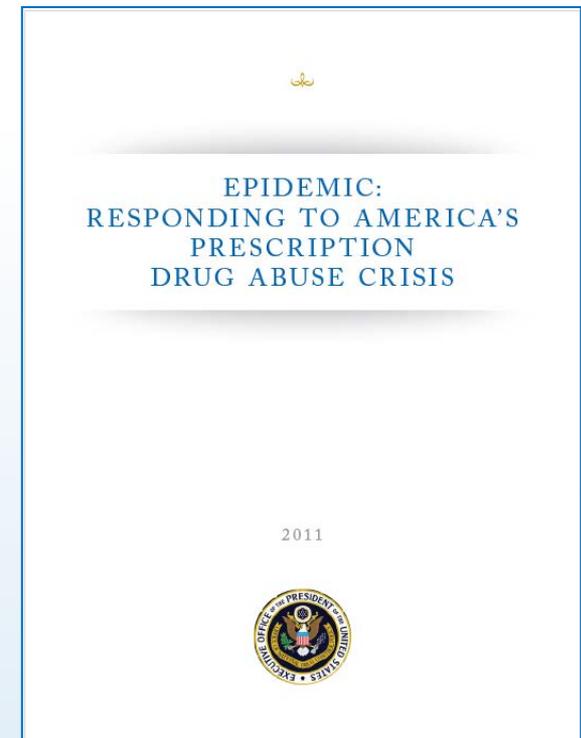
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Office of the National Coordinator for Health Information Technology (ONC)  
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10 December 2014

Putting the **I** in Health **IT**  
[www.HealthIT.gov](http://www.HealthIT.gov)

## Prescription Drug Misuse and Abuse in the United States and Our Response

- Deaths from drug overdose have been rising steadily over the past two decades and have become the leading cause of injury death in the United States.\*
- In 2013, an estimated 24.6 million (9.4 percent) Americans aged 12 or older were current (past month) illicit drug users.#
  - 4.5 million(1.7%) persons aged 12 or older use pain relievers
  - Rate of current use of illicit drugs highest among young adults aged 18 to 25 (21.5%)
- The majority of people (~70%) who use pain relievers nonmedically receive their drugs from a friend or relative.#
- 20.2 million need but are not receiving treatment for illicit drug or alcohol use.#
  - 746,000 persons aged 12 or older received treatment in the past year for use of pain relievers
- White House Prescription Drug Abuse Prevention Plan
  - Blueprint for Federal Agency efforts on prescription drug abuse
  - 4 focus areas:
    - Education, Monitoring (i.e., PDMPs), Proper Medication Disposal, Enforcement



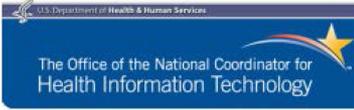
\* Centers for Disease Control and Prevention <http://www.cdc.gov/homeandrecreationalsafety/overdose/facts.html>

# Substance Abuse and Mental Health Services Administration, 2013 National Survey on Drug Use and Health



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

### Federal & State Partners



State Participants

### Stakeholders



### Organizations



National Alliance for Model State Drug Laws

## Action Plan

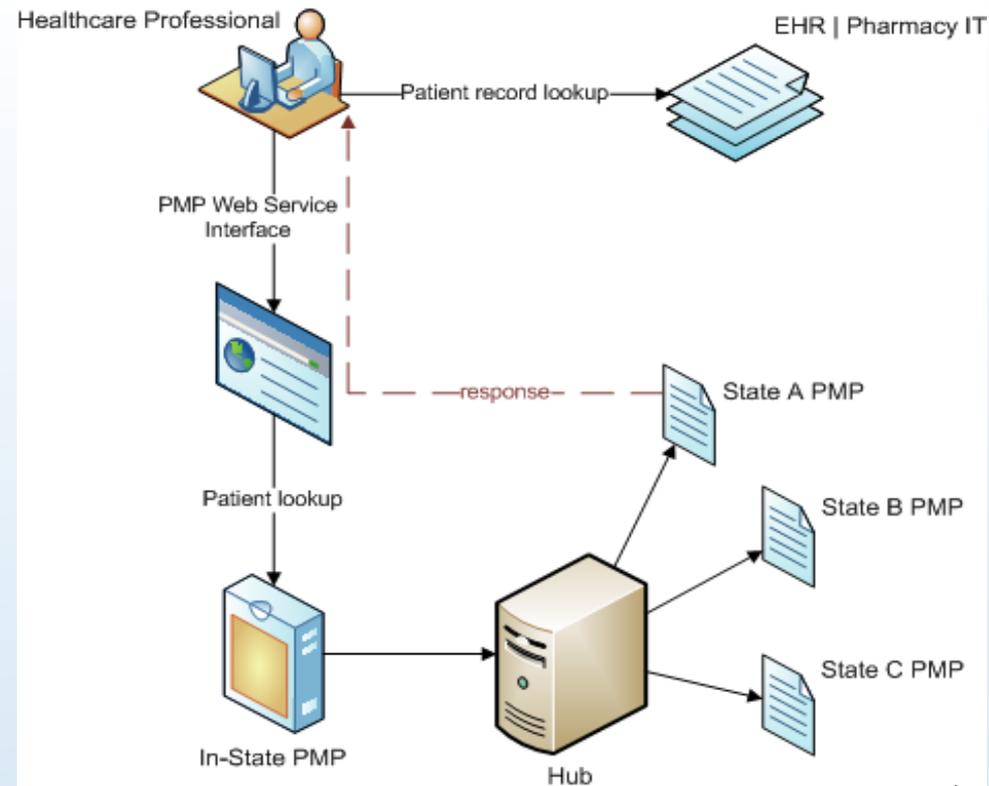
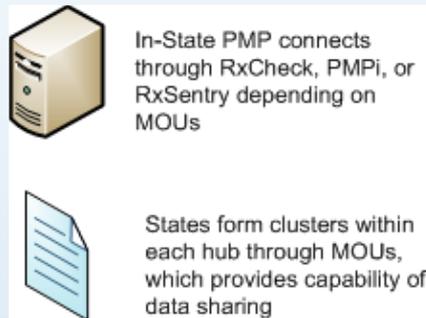
**ACTION PLAN FOR IMPROVING ACCESS TO  
PRESCRIPTION DRUG MONITORING  
PROGRAMS THROUGH HEALTH INFORMATION  
TECHNOLOGY**

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

# Prescription Drug Monitoring Programs (PDMPs)

- State-run databases that collect controlled substances dispensed by pharmacies
- PDMP data can enhance health care professionals' understanding of their patients' controlled substance history and in turn, support better informed clinical decision making
- Authorized users can query PDMPs through portals to determine appropriateness of prescriptions for a particular patient



## Goal: Integrate query within health IT systems to streamline PDMP data to healthcare professionals



How to make data more available to three key groups of clinical decision makers with varying workflows, policy implications, regulations?

### Primary Challenges Include:

- Healthcare professional's burdened by separate logins and separated workflow
- Complex data workflows involving HIEs, PDMP Hubs, Pharmacy Networks, and HIT systems
- PDMP data structures are based upon existing NIEM architectures for PDMP to PDMP data sharing and are not typically natively supported by EHR systems
- There are no widely adopted standards for the flow of data from a PDMP to a Health IT System.

# PDMP & HIT Integration Initiative Summary

## Sponsoring Agencies

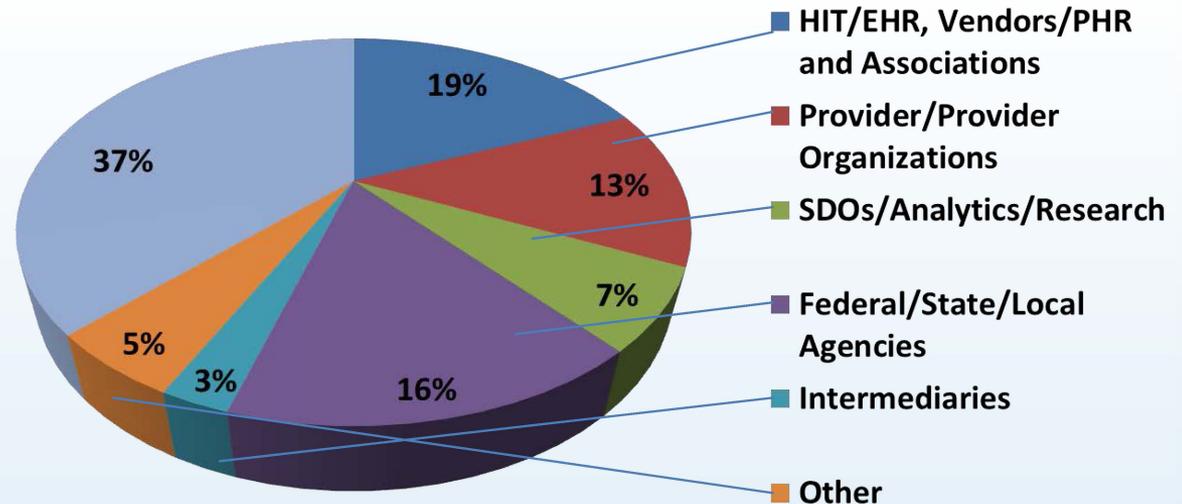
- ONC: OCPO & OST
- SAMHSA
- Whitehouse Office of National Drug Control Policy (ONDCP) – interested party

## Outputs

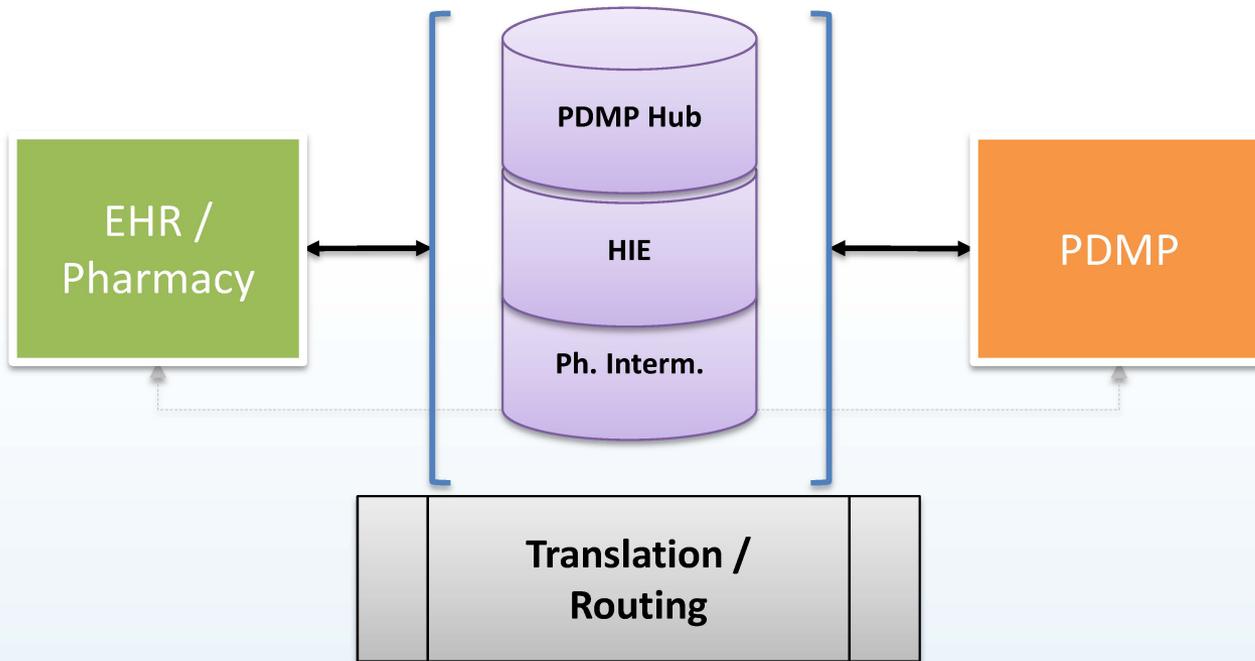
- Charter 01/07/2014
- Use Case 03/25/2014
- Implementation Guide: 09/09/2014
- Pilots Fall/Winter 2014

## Strong Community Participation

- 223 Registered Members
- 166 unique registered organizations
- 78 Committed Members



# Solution Planning Approach: Integrated Query Landscape



**Variant 1:** Intermediary provides translation functionality

**Variant 2:** Translation is handled at HIE, providing mapping to PMIX from native EHR standards

**Variant 3:** Interface engine provides functionality to send PMIX message derived from EHR / Pharm standards

EHR/Pharmacy Exchange Standard:

HL7 V2

NCPDP SCRIPT

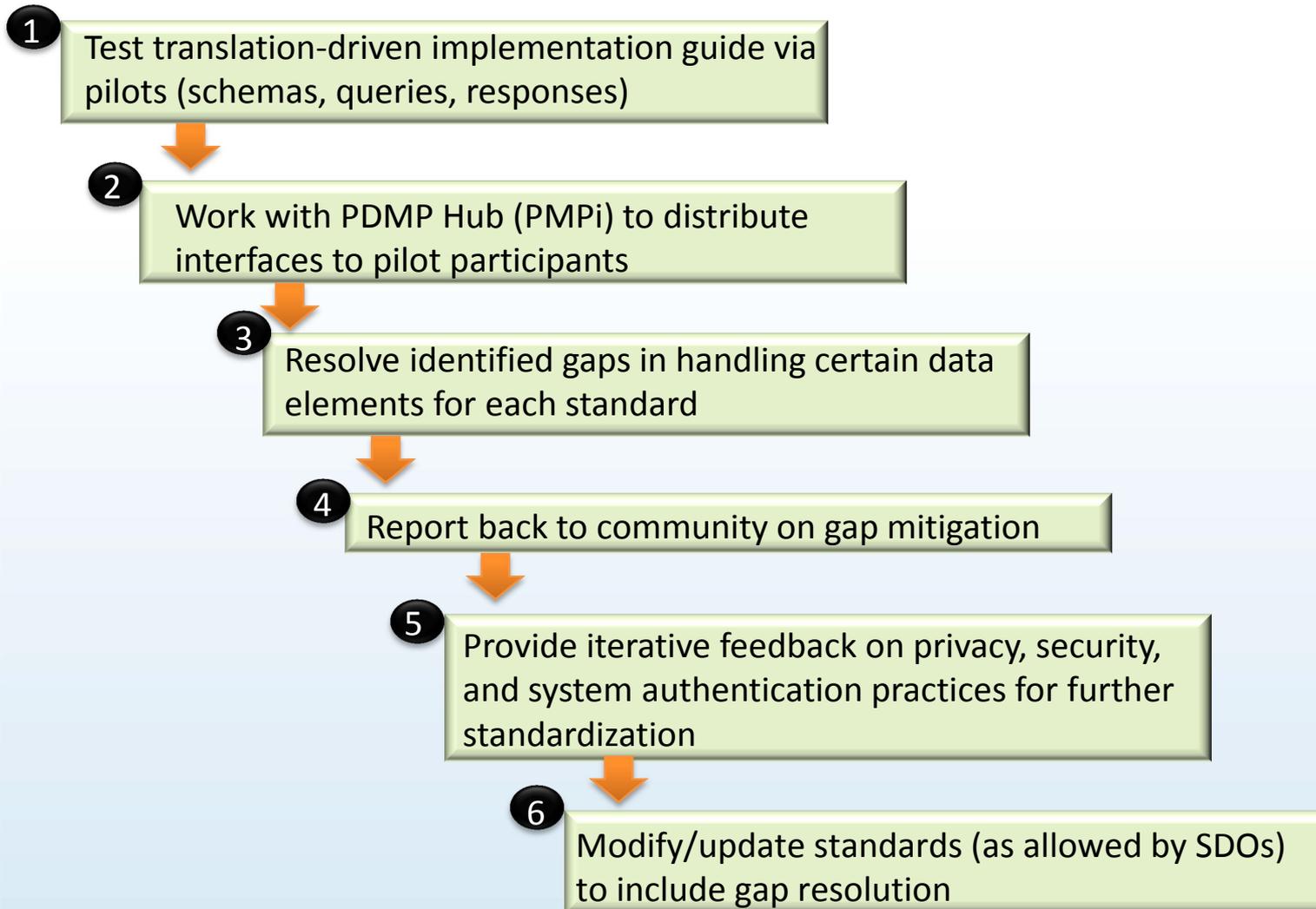
ASAP Web Services

PDMP Standard

PMIX-NIEM

*\*Solution is agnostic to transport*

## Implementation Guide Testing and Evaluation



Coordinate pilots and testing materials

# PDMP Pilot Participants

EHR/PHARMACIES/OTHER VENDORS	PRIMARY STANDARD BEING TESTED (HIT System to Hub)
Epic	NCPDP SCRIPT 10.6
NextGen	NCPDP SCRIPT 10.6
Dr. First	NCPDP SCRIPT 10.6
Cognosante	HL7 V2.7
QS/1	ASAP Web Services v1.1
Digital Simplistics, Inc.	ASAP Web Services v1.1
PDX, Inc.	ASAP Web Services v1.1
Prescription Advisory Systems & Technology (PAST, Inc.)	ASAP Web Services v1.1
Transaction Data Systems, Inc.	ASAP Web Services v1.1
SoftWriters, Inc.	ASAP Web Services v1.1

# PDMP Pilot Participants (cont)

INTERMEDIARY/HUB	PRIMARY STANDARD BEING TESTED (Hub to PDMP)
Appriss	NCPDP SCRIPT 10.6 ASAP Web Services v1.1 HL7 v2.7
OneHealthPort HIE	NCPDP SCRIPT 10.6

## PDMP PILOT PARTICIPANTS

Kentucky Cabinet for Health and Family Services (KASPER)

Washington State Department of Health

New Mexico PMP

Virginia Prescription Monitoring Program

Arizona Board of Pharmacy

Wisconsin Department of Safety and Professional Services

- S&I PDMP/HITI Wiki Page:  
<http://wiki.siframework.org/PDMP+%26+Health+IT+Integration+Homepage>
- Federal Sponsors:
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Thank you!

Questions?

