Maine's Harold Rogers PDMP Innovation Grant:

Constructing a Substance Use Disorder Focused Master Data Repository



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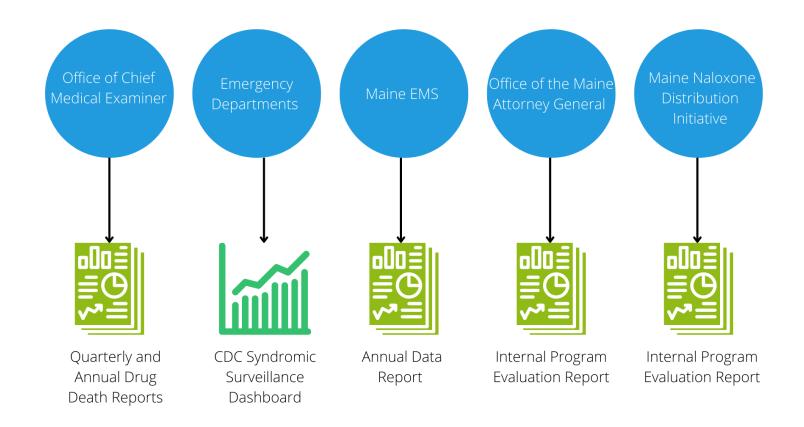
Maine DHHS / Office of Behavioral Health

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Challenges

- We need to know more about people who use drugs
- We need to know more about the circumstances around fatal and non-fatal drug overdoses
- We need to know if State overdose prevention and response efforts are effective

Data silos



Maine's Opioid Response Strategic Action Plan

- Shared Value #3: Improving data collection, analysis, and timely communication
- Strategy 5: Maximize the collection of actionable data and evaluate the impact of interventions
- Strategy 5e: Create an online data hub to increase public transparency
- Strategy 5f: Share key data to inform policy and program design

What is Master Data Management?

- Master Data Management (MDM)
 - A systematized method to consolidate and manage data
 - Incorporates data governance, policies, standards, and tools
 - Determines the most accurate and current data elements across multiple overlapping data sets
- Objective of MDM
 - Provide processes for collecting, aggregating, matching, consolidating, quality-assuring, and distributing data throughout an organization to ensure consistency and control in the ongoing maintenance and application of the information
- MDM example
 - Use of a unique person identifier or "golden record" to isolate and analyze elements across data sets
- Adopting MDM can improve data quality and strengthen the utility of data analysis

Definitions



Unique identifier (UID)

- A unique identifier (UID) is a numeric or alphanumeric string that is associated with a single entity within a given system. UIDs make it possible to address that entity, so that it can be accessed and interacted with.
- Unique identifiers can be assigned to anything that needs to be distinguished from other entities, such as individual users, companies, machines or websites. These distinctive values are usually assigned depending on the needs of the specific application
- Example: Employer Identification Number (EIN)

Unique person identifier (UPI)

- A unique identifier specific to a person, patient, client, student, etc. (as opposed to an entity or product)
- Example: Social Security Number (SSN)

Data Repository

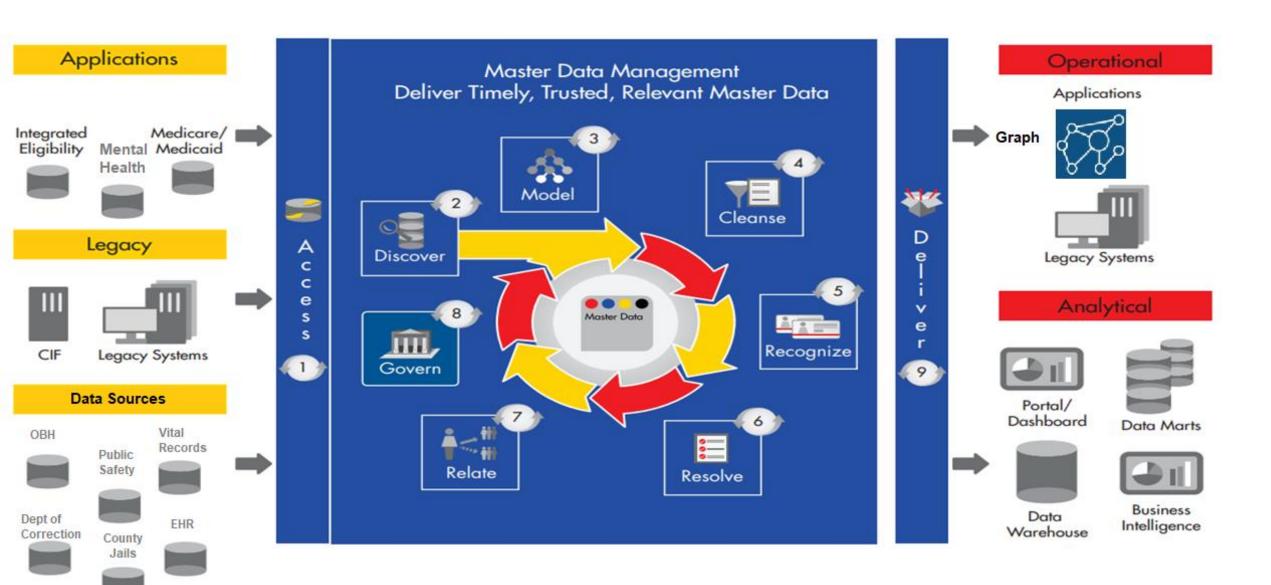
• A data repository refers to an enterprise data storage entity (or sometimes entities) into which data has been specifically partitioned for an analytical or reporting purpose.

Definitions

- Master Data Management (MDM)
 - MDM comprises the processes, governance, policies, standards, and tools that consistently define and manage the critical data of an organization
 - This structure enables an organization to link all of its critical data to one file, sometimes called a "master file" or "golden record", that provides a common point of reference across data sources and systems
 - The purpose of MDM is to allow efficient, streamlined data sharing and data linkage across departments/data systems
- Master Data Repository (MDR)

SUD/OD focused Master Data Repository

- Person-level linkage of 10 data sources
 - 1. All-Payer Claims Database
 - 2. Prescription Drug Monitoring Program
 - 3. Office of Behavioral Health
 - 4. Syndromic Surveillance
 - 5. Maine EMS Trip Record Data System (ImageTrend)
 - 6. Department of Corrections
 - 7. Office of the Chief Medical Examiner
 - 8. Registry of Vital Records and Statistics
 - 9. SUDORS
 - 10. MaineCare



What do we hope to learn?

- Link disparate data sets at the person level to create a comprehensive, holistic understanding of individuals' trajectories with substance use
- Identify patterns of interaction with State services and agencies, health care, and other organizations that could serve as opportunities for proactive intervention, outreach, and/or support for people who use drugs and affected others
- Evaluate State policies and programs to assess quality and effectiveness, particularly for those individuals most at risk for poor outcomes
- Uncover new promising strategies for preventing OD
- Create a more complete understanding of the need/demand for services and supports among people who use drugs and their loved ones

Questions?

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DHHS Analytical and Public Portal

