EXECUTIVE SUMMARY

OBH SUD-Focused Master Data Repository

Introduction

Administrative data is a public tool for public good. Administrative data are collected every day through routine administration of programs and services throughout the State of Maine. The data encompass touchpoints Mainers have with State programs and services across the lifespan. This information is valuable for understanding and promoting the health and wellbeing of Mainers as well as the health of the State's service system.

The State of Maine's administrative data are managed by numerous, disparate data systems. These systems tend to operate in isolation within and across offices and departments and contain data of varying quality, completeness, and consistency (e.g., demographic information about an individual may be different across different data systems).

Siloed data limits the ability to answer seemingly simple questions such as, "How many unique clients were served by the State's service system overall," or "How many clients received services from two or more separate programs concurrently." Siloed data prevents a holistic understanding of an individual's experiences with State programs and services over the lifespan and ultimately limits insights regarding conditions in communities, understanding who exactly is being served, the impact of programs, service delivery, and equity in services and outcomes across the state. In short, siloed data limits the potential of administrative data as a public tool for public good.

Integrated Data Systems

Data sharing is the practice of providing partners with access to information they cannot access in their own data systems, thereby allowing stakeholders to learn from each other and collaborate on shared priorities. Data integration takes data sharing one step further by involving record linkage (i.e., joining or merging) of data based on common data fields (e.g., a unique person identifier). Record linkage enables a more holistic view of the experiences and outcomes of individuals, families, and communities and supports investment in policies and programs that work.

The value of linking disparate administrative data through integrated data systems (IDS) is rapidly gaining traction among State agencies across the nation, including here in Maine. For example, Maine's Department of Education (MDOE) has developed the Maine Statewide Longitudinal System (SLDS), which links Maine's public education data from secondary and post-secondary institutions, enabling analyses at the individual, course, institution, and system level. Building off SLDS, MDOE has developed the Early Childhood Integrated Data System (ECIDS) which leverages cross-agency data to inform policies that aim to improve outcomes for young children statewide. MDOE has also partnered with Maine's Department of Labor (DOL) to develop the Maine Education and Attainment Research Navigation System (MaineEARNS) which combines a variety of data sources (e.g., MDOL, MDOE, MCCS, and UMS) to understand the relationship between workforce interventions and labor market outcomes.

Let's Get Technical

While the technical aspects of developing an integrated data system can vary greatly in terms of purpose, scope, approach, and architecture, most systems require the creation of a few common elements:

- **Unique Person Identifier (UPI)** – key linking administrative data records
- **Master Data Records and Repository (MDR)** – consolidated, consistent record of "truth" for key entities
- **Data Warehouse (DW)** – houses transactional data, the records we want to link
- **Analytics and Reporting Interface** – enables use of linked data for decision-making

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OBH SUD-Focused Master Data Repository

OBH SUD-Focused Master Data Repository (MDR)

Data sharing and integration are promising evidence-based strategies for understanding and successfully addressing addiction and the opioid epidemic devastating communities across the State of Maine. In alignment with data-focused strategies presented in Governor Mills' Strategic Action Plan, the current project aims to build an SUD-focused integrated data system to support the State of Maine's opioid response.

With funding from the Department of Justice's Harold Rogers Prescription Monitoring Program grant, the Office of Behavioral Health and Maine OIT aim to build the OBH SUD-Focused Master Data Repository, which will house and link SUD-relevant data from multiple, disparate sources. Data sources targeted for the project include Maine's Prescription Monitoring Program (PMP), Office of Behavioral Health, Maine Emergency Medical Services (EMS), Maine Health Data Organization (MHDO), Department of Corrections (DOC), Office of Chief Medical Examiner (OCME), Vital Records, State Unintentional Drug Overdose Reporting System (SUDORS), MaineCare, and Syndromic Surveillance.

Project Phases and Key Activities

As shown below, the project consists of two phases. The first phase is focused on data acquisition, developing the integrated data system, and standing up a data governance program to support the second phase of the project. The second phase of the project is focused on utilization of the integrated data system to understand and successfully address addiction and opioid-related overdoses and deaths in the State of Maine.

PHASE ONE

Data Acquisition
Identify Use Cases, Required Data and Data Sources
Establish Data Sharing/Use Agreements
Obtain and Profile Data for Creation of UPI and Master Records

Develop Integrated Data System
Create Unique Person Index
Design Master Data Model, Architecture, Maintenance
Obtain and Profile Transactional Data for *Future* Data Linkages
Identify Analytics Interface for *Future* Data Utilization

Standup Data Governance Program
Identify Stakeholders, Form Council
Identify Existing Regulations, Policies, Procedures
Develop Policies and Procedures for SUD-Focused MDR
Implement, Audit, and Sustain Data Governance Program

PHASE TWO

Develop Data Request Process
Develop Data Request Form
Develop Review and Approval Process
Develop Data Use Agreements for Users

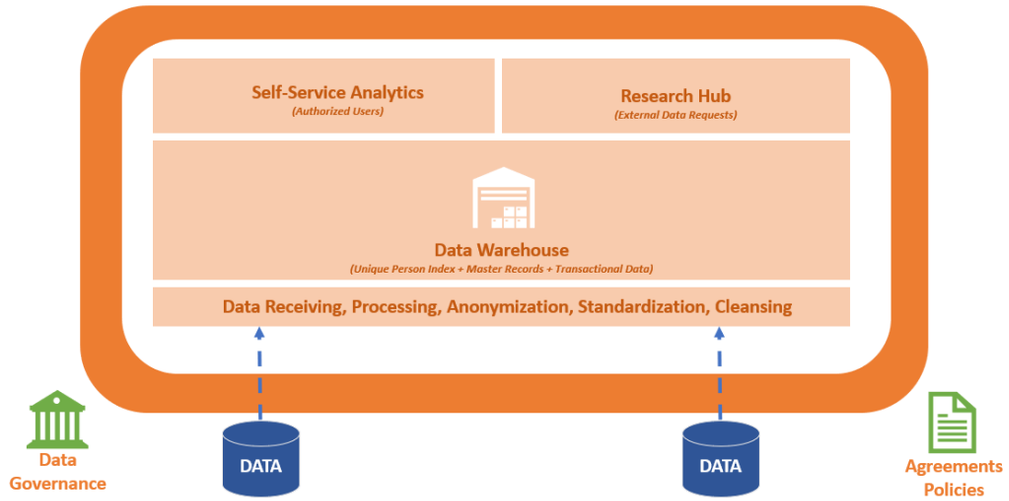
Launch Analytics and Reporting Interface
Link Interface to Data Warehouse
Deploy Interface

Manage and Monitor Access and Utilization
Establish Data Use Agreements with Users
Monitor Access and Utilization
Enforce Data Governance and Data Use Agreements

EXECUTIVE SUMMARY

OBH SUD-Focused Master Data Repository

Project Vision



Project Team

Executive Sponsor – Rebecca Taylor
Product Owner/Project Manager – Jennifer Sedivy
Grant Administrator – Nicole Record
Technical Lead – Nick Leeman
Technical Director – Chris Boudreau
DHHS Applications Support – Jeff Jordan and Karen Curtis

PHASE ONE TIMELINE

	APR '23	MAY '23	JUN '23	JUL '23	AUG '23	SEP '23	OCT '23	NOV '23	DEC '23	JAN '24	FEB '24	MAR '24	APR '24	MAY '24	JUN '24	JUL '24	AUG '24	SEP '24
Data Governance																		
Identify Stakeholders, Form Council																		
Identify Existing Regulations, Policies, Procedures																		
Develop Policies and Procedures for SUD-MDR																		
Implement SUD-MDR DG Program																		
Technical Work																		
Maintain Repository																		
Maintain Warehouse																		
Identify Variables for Use Cases																		
Identify Data and Data Sources																		
Obtain, Profile, Define Data																		
Develop UPI																		
Create, Test, and Store Master Records																		
Store Transactional Data																		
Establish Analysis and Reporting Platform																		