

Executive Summary for Office of eHealth Innovation Uniquely Identifying Individuals Initiative

Title: Unique Individual Identity

Brief Description:

[Colorado's Health IT Roadmap](#) Identity Initiative develops and implements a comprehensive approach – that includes both health and social services information – that will be used across Colorado to uniquely identify a person across multiple systems and points of care.

Achieving health care reform through improved health outcomes and cost reduction requires the unambiguous identification of a person. This is needed so that health information can be accurately associated with an individual. Throughout Colorado's health and social services organizations – including State agencies – there are many siloed Master Patient/Person Index (MPI) implementations. Most of these MPIs are focused on patient identification and are typically used by a single organization or system. Knowing that the information presented is for the correct individual, and that it is accurate, complete, and current is critical to appropriate care. Today, each of these siloed systems has its own unique way of identifying a person. These individual system's identifications are rarely, if ever, compatible with other organizational systems. This makes the effort to correctly identify a patient across organizations – and ensure that the data retrieved is accurate – both cumbersome and expensive. Due, in part, to the differences in these MPIs, information about a person cannot easily be shared across systems. It will continue to be difficult for Colorado to integrate information from various systems and points of care – so that a person's complete health information and the services provided to an individual can be easily known and coordinated – until a single common approach to identity is implemented statewide.

The purpose of this initiative is to uniquely and accurately identify a person across a variety of health systems and settings. This will facilitate accurate and appropriate data sharing, care and service coordination, value-based payment information, and accurate analytics

Approach:

Through collaborative work with Colorado's State Agencies that include Health Care Policy and Financing, Human Services, Office of Information Technology, Public Health and Environment, the Office of eHealth Innovation steered by the eHealth Commission recognizes the need to solve community problems through data sharing and the modernization of current systems and process for uniquely identifying individuals who receive state health and human services benefits. Efforts to define how to best move this work forward have been ongoing and include the Background section.

Background:

- 2008-Master patient index concept established as a potential solution for statewide identity issues in Medicaid State Health Information Plan
- 2015-Master Data Management (MDM) recommended as a potential solution by several state consultants (Deloitte and Cedar Bridge)
- 2015- Office of eHealth Innovation and eHealth Commission started MDM requirements
- 2016- eHealth Commission suggested OeHI focus on Master Patient Index and Master Provider Director as separate but complementary projects instead of focusing on Master Data for the due to existing efforts and infrastructure in the community and state. This existing infrastructure

includes a provider directory developed by Colorado's Department of Public Health and Environment and identity resolution infrastructure and services within Colorado's health information exchanges.

- 2017- OeHI released several draft RFPs for public comments in 2017. Comments requested more information on the scope and architecture of the proposal.
- 2018- OeHI requested business analyst support from OIT to better understand user stories for uses cases. Top use case was sharing information between HCPF and CDHS to support benefits management.
- 2018- Planning discussions began with Joint Agency Interoperability Project to define approach and alignment of each effort.
- 2018- OeHI/OIT established high-level understanding of current state infrastructure and user stories. This work includes compiling details on the state identifier- SIDMOD and reviewing Joint Agency Interoperability current and future state architecture recommendations developed by Deloitte. (Add report link)
- 2018- Food Security Workgroup launches efforts to understand gaps in enrollment of WIC, SNAP, and Medicaid and how to best approach analysis and outreach. Initial strategies included building processes and matching in OIT and working with OeHI to leverage health information exchange to match due to existing legal agreements between agencies (HCPF and CDPHE) and technical infrastructure for identity matching.
- 2018- OeHI set up regular touch-points for agency leadership and program staff with OIT, HCPF, CDPHE, and CDHS to discuss potential strategies for leveraging community infrastructure such as CORHIO's identity service to address the Food Security WG needs and strategies improving care coordination and case management.
- 2019- OeHI/OIT agree to launch pilot efforts with CORHIO to test out solution and begin defining future state architecture for SIDMOD. This work is funded by [Colorado's Health IT Roadmap](#).
- August 2019- Completed Pilot 1 with CORHIO to match WIC and Medicaid members. Pilot successfully completed and demonstrated value to participating agencies for ongoing matching and reporting in partnership with agencies outreach and program efforts.
- October 2019- Pilot 2 underway to match WIC, SNAP, and Medicaid members.

Funding Strategy:

OeHI proposes to support care coordination of Medicaid clients by funding Identity resolution and application program interfaces in alignment with the Joint Agency Interoperability Project. Both the state and health systems in Colorado have invested significant dollars in establishing Colorado's Regional Health Information Organization. The eHealth Commission, C4 Board, and Federal Partners have strongly encouraged the use of CORHIO's identity infrastructure.

OeHI also proposes to continue funding an expanded pilot identity reports for WIC, SNAP, and HCPF until infrastructure is available to produce reports internally.

Amount:\$3,400,000 - Colorado Health IT Roadmap Funds to be invested in the planning, design, and implementation of both individual and provider identity efforts by Sept 2021. Additional general funds are available to support some ongoing operations beginning in 2022. And sustainability planning of all HITECH funds is underway with Health Care Policy and Financing.

See below for a table of identity projects for individuals and providers. Note CORHIO Pilot 1 has been completed, CORHIO Pilot 2 is in flight, and Mulesoft Developer contract has been executed with OIT. All other components are being further defined.

Draft Budget Tables

| Master Data Management (MPI/MPD) | | | | |
|----------------------------------|-------------|-------------|------------|------------|
| Initiative | Capital | | | |
| | FY 2018-19 | FY 2019-20 | FY 2020-21 | FY 2021-22 |
| Budget | \$1,950,000 | \$1,500,000 | \$0 | \$0 |
| Contracted Amount | \$1,987,292 | \$784,792 | \$0 | \$0 |
| CORHIO-Pilot 1 | \$25,000 | | | |
| CORHIO-Pilot 2 | \$25,000 | | | |
| CORHIO- Identity Resolution SOW | \$990,000 | | | |
| MuleSoft Developer | \$62,500 | | | |
| Statewide Cross Over Reporting | \$234,792 | \$234,792 | | |
| CORHIO/QHN Workforce Directory | \$200,000 | | | |
| OIT - MDM (Cross Reference DB) | \$450,000 | | | |
| OIT- SIDMOD Replacement | | \$550,000 | | |
| Budget Remaining | (\$37,292) | \$715,208 | \$0 | \$0 |

| Master Data Management (MPI/MPD) | | | | |
|--------------------------------------|------------|------------|------------|------------|
| Initiative | Operating | | | |
| | FY 2018-19 | FY 2019-20 | FY 2020-21 | FY 2021-22 |
| Budget | \$0 | \$0 | \$763,692 | \$763,692 |
| Contracted Amount | \$0 | \$0 | \$570,000 | \$600,000 |
| CORHIO Identity - Software Licensing | | | \$570,000 | \$600,000 |
| OIT MDM | | | | |
| Statewide Crossover reporting | | | | |
| Vendor 4 | | | | |
| Vendor 5 | | | | |
| Vendor 6 | | | | |
| Vendor 7 | | | | |
| Budget Remaining | \$0 | \$0 | \$193,692 | \$163,692 |