

## Executive Summary

**Human Services Research Institute (HSRI)**, a nonprofit corporation headquartered in Cambridge, Massachusetts, is pleased to submit this proposal in response to RFP # 201207352, Health Data Warehouse. Maine Health Data Organization (MHDO)'s objectives for a highly robust and secure data warehouse can be met with our qualified team of professionals using the specifications and budget outlined in this proposal. We believe that the Health Data Warehouse solution that we will describe in this proposal will offer the MHDO the best data warehouse that is: designed based on a systematic assessment of the requirements of MHDO staff and other constituencies; is managed in a way that involves MHDO staff in all aspects of system design and testing; provides a secure environment for data storage; provides seamless remote data access to authorized data users; and, provides training and technical support to insure that data users are able to make maximum use of this unique resource.

We understand that it is imperative that the successful bidder be adept in responding to emerging priorities as well as longer term planning in order to make this project a success. This proposal will demonstrate that the team that HSRI is proposing, with our partners the National Opinion Research Center (NORC) as our IT provider, and the Public Consulting Group (PCG) providing health data content expertise, will be able to offer to MHDO the products they have requested with value added through services already developed by HSRI and our partner organizations. In addition, our management team will be headquartered in our Maine offices providing MHDO with easy in-person access to data warehouse project staff.

This proposal will show that HSRI and its partners have the content, technical and organizational capabilities to meet these requirements, including:

- Experience managing large and complex projects and competently managing multiple projects simultaneously;
- Capacity to mobilize resources quickly for ad hoc requests;
- Breadth and depth of content areas and technical skills;
- The ability to bring multiple disciplinary perspectives to bear on the project;
- Knowing how to assemble teams appropriately to assign work so MHDO gets the best staff, value and service.

The HSRI team proposes to build a state-of-the-art system that will utilize a multi-tiered model to deliver data upload, automated data cleaning, data warehousing and self-service access functionality that will be accessible to data submitters, MHDO staff and other authorized users via the internet. This system will make use of cloud technologies to provide a robust, scalable and highly secure data platform capable of handling high volumes of data and achieving high levels of availability. It will provide a flexible ETL platform that will load data to a set of common data structures that will support the creation of Master Indexes that will provide unique identifiers and other information for patients, providers and payers in the State of Maine. The ETL system will be configurable by MHDO staff through an online interface that will enable them to define file validation rules at the submitter level and upload irregularly formatted data

files into the warehouse. The system will provide authorized users access to raw datasets and a variety of pre-generated and interactive reports on data held in the warehouse, both through the online interface and through web services.

Our teaming arrangements will provide MHDO with the full range of staff expertise required to successfully complete this project. HSRI will be heading up the project, performing core Project Management functions and will lead and staff the Product Development team, which will develop the user-facing elements of the web applications, the ETL processing and the self-service reporting and download functions. HSRI staff will also be involved in the process of defining the common data structures and the creation of the master indexes. HSRI will also lead and staff the Quality Assurance Team. The IT technical infrastructure team will be led and staffed by NORC; they will be hosting the system as a part of their Secure Data Enclave and will be responsible for the core engineering and maintenance of the warehouse infrastructure, in partnership with Metadata Technology North America Inc. (MTNA). NORC will also be developing the core web services that will provide access to warehoused data and will take the lead in providing training to MHDO staff on system and database architecture, system administration and other technical tasks. PCG will lead and contribute staff to the Health Data Content Team. They will be involved in the Data Governance and Management tasks as well as working with HSRI on the common data structure definition. Project teams and staffing, including the HSRI team organizational chart can be found in Section 2.16 – Staff.