



**VHCIP Project Status Reports**  
**Health Data Infrastructure Focus Area**  
**March 2016**

**Focus Area: Health Data Infrastructure.....2**

- Project: Expand Connectivity to HIE – Gap Analyses ..... 2
- Project: Expand Connectivity to HIE – Gap Remediation ..... 4
- Project: Expand Connectivity to HIE – Data Extracts from HIE ..... 6
- Project: Improve Quality of Data Flowing into HIE ..... 7
- Project: Telehealth – Strategic Plan ..... 9
- Project: Telehealth – Implementation ..... 10
- Project: EMR Expansion ..... 11
- Project: Data Warehousing ..... 12
- Project: Care Management Tools (Shared Care Plan Project) ..... 13
- Project: Care Management Tools (Universal Transfer Protocol) ..... 15
- Project: Care Management Tools (Event Notification System) ..... 17
- Project: General Health Data – Data Inventory ..... 19
- Project: General Health Data – HIE Planning ..... 21
- Project: General Health Data – Expert Support ..... 22

## Focus Area: Health Data Infrastructure

### Focus Area: Health Data Infrastructure

#### Project: Expand Connectivity to HIE – Gap Analyses

**Project Summary:** The Gap Analysis is an evaluation of the Electronic Health Record (EHR) system capability of health care organizations, interface ability of the EHR system, and the data transmitted within those interfaces. Conducting the ACO Gap Analysis created a baseline determination of the ability of health care organizations to produce Year 1 Medicare, Medicaid, and commercial Shared Savings ACO Program quality measure data. The Vermont Care Partners (VCP) Gap Analysis is evaluating data quality among the 16 designated and specialized service agencies. Finally, the DLSS Gap Analysis was conducted to review the technical capability of DLSS providers statewide. This work stream is complete as of December 2015.

#### **Project Timeline and Key Facts:**

- January 2014 – VITL and ACO teams launched Gap Analysis of the ACO Program quality measures.
- July 2014 – Gap Analysis of the ACO Program quality measure data completed.
- September 2014 – H.I.S. Professionals began DLSS Technical Assessment.
- January 2015 – Scope of Work for VCP Gap Analysis finalized.
- February 2015 – Work began for VCP Gap Analysis with introductory meeting with Designated Agencies.
- February 2015 – H.I.S. Professionals submitted draft of DLSS Technical Assessment and recommendations.
- April 2015 – DLSS Technical Assessment work put on hold pending federal approvals of funding.
- July 2015 – A total of 67 data quality meetings held with DAs & SSAs.
- November 2015 – DLSS Technical Assessment Final Report completed.
- December 2015 – DLSS Technical Assessment findings presented to Health Data Infrastructure (HDI) Work Group.

#### **Status Update/Progress Toward Milestones and Goals:**

- Gap Analysis of ACO Program data quality measures completed in January 2014.
- VITL has conducted numerous data quality interviews with the 16 Designated Mental Health and Specialized Service agencies (DAs and SSAs). VITL has also identified that a number of DA and SSA member agencies' structures are decentralized such that they operate as multiple independent agencies. VCP has confirmed the need for full assessments to be conducted at these agencies. VITL will be pursuing additional funding for this revised scope.
- DLSS Technical Assessment Final Report completed with recommendations on next steps; report has been distributed to stakeholders and findings presented to the HDI Work Group.

#### **Milestones:**

Performance Period 1: Perform gap analyses related to quality measures for each payment program, as appropriate; perform baseline gap analyses to understand connectivity of non-Meaningful Use (MU) providers.

Performance Period 1 Carryover: Perform gap analyses related to quality measures for each payment program, as appropriate; perform baseline gap analyses to understand connectivity of non-Meaningful Use (MU) providers:

1. Complete DLSS technical gap analysis by 9/30/15.
2. Conduct bimonthly SSP quality measure gap analyses for ACO providers.

Performance Period 2: N/A

Performance Period 3: N/A

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

#### **Additional Goals:**

# Lives Impacted: TBD

# Participating Providers: 400

#### **Key Documents:**

- ACO Gap Analysis (Fall 2014)
- [DLSS Information Technology Assessment Report](#) (Fall 2015)

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** VITL; Vermont Care Partners; H.I.S. Professionals; Bailit.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** This project is complete.

## Focus Area: Health Data Infrastructure

### Project: Expand Connectivity to HIE – Gap Remediation

**Project Summary:** The Gap Remediation project addresses gaps in connectivity and clinical data quality of health care organizations to the Health Information Exchange. The ACO Gap Remediation project improves the connectivity and data quality for all Vermont Shared Savings Program measures among ACO member organizations. The Vermont Care Partners (VCP) Gap Remediation will improve the data quality for the 16 Designated Mental Health and Specialized Service agencies (DAs and SSAs).

#### Project Timeline and Key Facts:

- March 2015 – ACO Gap Remediation work begun by VITL and ACO member organizations.
- March 2015 – Terminology Services vendor identified by VITL.
- May 2015 – SET Team work completed by VITL and Medicity.
- July 2015 – Gap Remediation work continued, with 95 ADT, VXU, and CCD interfaces in progress.
- October 2015 – Phase II ACO Gap Remediation initially proposed.
- October 2015 – VCP Gap Remediation proposed.
- January 2016 – Phase I ACO Gap Remediation work completed.
- January 2016 – VCP Gap Remediation work began.
- February 2016 – Terminology Services work begins.
- December 2016 – VCP Gap Remediation work to be completed.

#### Status Update/Progress Toward Milestones and Goals:

- ACO Gap Remediation project includes five projects: Interface and Electronic Health Record Installation, Data Analysis, Data Formatting, Terminology Services, and SE Team.
- Contract with VITL executed. ACO Gap Remediation work has been in progress since March 2015, with significant progress to date.
- VITL and VCP proposed additional gap remediation work in Quarter 4 of 2015 for Performance Period 3.
- The HDI Work Group evaluated next steps based on the DLTSS Technology Assessment, and approved proposals for gap remediation for the ACO and VCP projects in the November Work Group meeting.
- The HDI Work Group also recommended further investment into connections for the AAAs and HHAs in the November Work Group meeting.
- In December 2015, VITL increased the percentage of total ACO data being transmitted to the VHIE to 64%.
- The VHCIP Steering Committee approved a motion to recommend further investment into connections for the AAAs and HHAs in the December Steering committee meeting. A proposal was developed in collaboration with the State, VITL, AAAs, and HHAs in January 2016. The VHCIP Core Team approved a proposal for DLTSS Gap Remediation to provide connectivity and accessibility for Home Health Agency health data in January 2016.
- Contract with VITL to provide connectivity interface discovery and implementation to Home Health Agencies is in development. This contract will also provide onboarding services to Home Health Agencies for access to VITL's patient portal, VITLAccess.

#### Milestones:

Performance Period 1: N/A

Performance Period 1 Carryover: N/A

Performance Period 2: Remediate data gaps that support payment model quality measures, as identified in gap analyses:

1. Remediate 50% of data gaps for SSP quality measures by 12/31/15.
2. Develop a remediation plan for gaps identified in LTSS technical gap analysis by 12/31/15.

Performance Period 3:

1. Remediate 65% of ACO SSP measures-related gaps as identified in Fall 2015/Spring 2016 by 6/30/17.
2. Remediate data gaps for LTSS providers according to remediation plan developed in Performance Period 2 by 6/30/17.
3. Incorporate Gap Remediation activities into Sustainability Plan by 6/30/17.

#### Metrics:

CORE\_Health Info Exchange\_[VT]

#### Additional Goals:

# Lives Impacted: TBD

# Participating Providers: TBD

**Key Documents:**

**State of Vermont Lead(s):** Georgia Maheras, Larry Sandage

**Contractors Supporting:** VITL; Vermont Care Partners; H.I.S. Professionals; Pacific Health Policy Group.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.

**Focus Area: Health Data Infrastructure**

Project: Expand Connectivity to HIE – Data Extracts from HIE

**Project Summary:** This project provides a secure data connection from the VHIE to the ACOs analytics vendors for their attributed beneficiaries. Allows ACOs direct access to timely data feeds for population health analytics.

**Project Timeline and Key Facts:**

- March 2014 – OneCare (OCV) Gateway build started.
- February 2015 – Community Health Accountable Care (CHAC) Gateway build started.
- January 2016 – Contract with VITL to build Healthfirst Gateway approved.

**Status Update/Progress Toward Milestones and Goals:**

- OCV Gateway is complete as of December 2015.
- CHAC Gateway is complete as of December 2015.
- Healthfirst Gateway started in February 2016.

**Milestones:**

*Performance Period 1:* N/A

*Performance Period 1 Carryover:* Completed development of ACO Gateways with OneCare Vermont (OCV) by 3/31/15 and Community Health Accountable Care (CHAC) by 12/31/15 to support transmission of data extracts from the HIE.

*Performance Period 2:* N/A

*Performance Period 3:* N/A

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

- # Lives Impacted: TBD
- # Participating Providers: TBD

**Key Documents:**

**State of Vermont Lead(s):** Georgia Maheras

**Contractors Supporting:** Vermont Information Technology Leaders.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.

**Focus Area: Health Data Infrastructure**  
**Project: Improve Quality of Data Flowing into HIE**

**Project Summary:** The Data Quality Improvement Project is an analysis performed of ACO members' Electronic Health Record on each of sixteen data elements. Additional data quality work with Designated Agencies (DAs) to improve the quality of data and usability of data for this part of Vermont's health care system. VITL will engage providers and make workflow recommendations to change data entry to ensure the data elements are captured. In addition, VITL will perform comprehensive analyses to ensure that each data element from each Health Care Organization (HCO) is formatted identically. VITL will work with the HCOs to perform some or all of the following: (1) The HCO can change their method of data entry; (2) the HCO's vendor can change their format used to capture data; and (3) a third party could use a terminology service to transform the data.

**Project Timeline and Key Facts:**

- March 2015 – VITL-ACO Data Quality work began by deploying VITL's eHealth Specialist teams to member organizations for review of Data Quality input and workflow.
- July 2015 – Significant progress made in data quality assessment and initial phases of gap remediation through an existing underlying contract approved in Performance Period 1; additional gap remediation progress in Performance Periods 2 & 3 pending Federal approval of contract amendment.
- January 2016 – Funds to support continued work on the VCP Data Quality project approved by the VHCIP Core Team.

**Status Update/Progress Toward Milestones and Goals:**

- VITL contract in place to work with providers and the ACOs to improve the quality of clinical data in the HIE for use in population health metrics within the Shared Savings Program.
- Data quantity and quality improvements resulted in 64% of data gaps for SSP quality measures for OneCare Vermont achieved.
- Contracts with Vermont Care Network and VITL to improve data quality and work flows at Designated Mental Health Agencies (DAs). VITL will work with DAs to implement the desired state in each agency through the development of a toolkit that will provide the necessary documentation, workflows, and answers to specific questions needed.
- The HDI Work Group approved additional data quality work for the ACO and VCP project in the November Work Group meeting.
- The VHCIP Steering Committee approved the motion to continue the data quality work for the VCP project, but requested that the ACO project continue to develop its proposal in the December Steering Committee meeting.
- The VHCIP Core Team approved the VCP Data Quality project to continue its work with the Designated Agencies in January 2016.
- Contract with VITL to provide continued Data Quality services for the Designated Mental Health Agencies (VCP Data Quality project) is in development.

**Milestones:**

Performance Period 1: Clinical Data:

1. Medication history and provider portal to query the VHIE by end of 2013.
2. State law requires statewide availability of Blueprint program and its IT infrastructure by October 2013.

Performance Period 1 Carryover:

1. Data quality initiatives with the DAs/SSAs:  
Conduct data quality improvement meetings with the DAs/SSAs to focus on the analysis of the current state assessments for each agency: at least 4 meetings per month with DA/SSA leadership and 6 meetings per month with individual DAs/SSAs to review work flow.
2. Access to medication history to support care: 150 medication queries to the VHIE by Vermont providers by 12/31/15.

Performance Period 2:

1. Implement terminology services tool to normalize data elements within the VHIE by TBD.
2. Engage in workflow improvement activities at provider practices to improve the quality of the data flowing into the VHIE as identified in gap analyses. Start workflow improvement activities in 30% of ACO attributing practices by 6/30/16.

Performance Period 3:

1. Engage in workflow improvement activities at provider practices to improve the quality of the data flowing into the VHIE as identified in gap analyses. Start workflow improvement activities in 50% of ACO attributing practices by 7/1/16. Complete workflow improvement by 12/31/16.
2. Engage in workflow improvement activities at designated mental health agencies (DAs) as identified in gap analyses. Start workflow improvement activities in all 16 DAs by 7/1/16 and complete workflow improvement by 12/31/16.

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

# Lives Impacted: TBD

# Participating Providers: 977

**Key Documents:**

- VITL Contract SIM Amendment 2
- SFY 15 Year-End VITL Progress Report
- Gap Remediation Monthly Status Report – 8/31/15

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** Behavioral Health Network/Vermont Care Network; Bi-State Primary Care Association/Community Health Accountable Care; H.I.S. Professionals; UVM Medical Center/OneCare Vermont; Vermont Information Technology Leaders.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.



## Focus Area: Health Data Infrastructure

### Project: Telehealth – Strategic Plan

**Project Summary:** Vermont contracted with JBS International to develop a Statewide Telehealth Strategy to guide future investments in this area. The Strategy, developed in collaboration with the State of Vermont and private sector stakeholders, includes four core elements: a coordinating body to support telehealth activities; alignment of state policies relevant to telehealth; telehealth technology investments that are secure, accessible, interoperable, cloud-based, and aligned with Vermont’s HIT infrastructure; and clinician engagement. The Strategy also includes a Roadmap based on Vermont’s transition from volume-based to value-based reimbursement methodologies to guide prioritization of telehealth projects and their alignment with new clinical processes adopted as payment reform evolves. This project is complete.

#### **Project Timeline and Key Facts:**

- February 2015 – Contractor presented project plan to the HIE/HIT Work Group.
- March-July 2015 – Vermont Telehealth Steering Committee convened in March 2015 to guide Telehealth Strategy development; the Steering Committee continued to meet through July.
- June 2015 – Contractor presented draft strategy elements to the HIE/HIT Work Group for comments.
- August 2015 – Final Strategy elements approved.
- June-September 2015 – Strategy review and editing.
- September 2015 – Final Strategy document approved by State of Vermont; final Strategy released. The project is complete.

#### **Status Update/Progress Toward Milestones and Goals:**

- JBS International convened the Vermont Telehealth Steering Committee in March 2015 to guide Telehealth Strategy development. Steering Committee members met biweekly via phone between March and July to come to consensus on a telehealth definition, identify guiding principles for the strategy, review key features on telehealth programs across the country, and develop strategy elements.
- A draft Statewide Telehealth Strategy was submitted to DVHA in June 2015; JBS worked with SOV staff to refine the Strategy between June and September 2015.
- The final strategy elements were approved by the HIE/HIT Work Group, Steering Committee, and Core Team in August 2015.
- The State of Vermont finalized the Strategy in September 2015 and released the final Strategy in mid-September.

#### **Milestones:**

*Performance Period 1:* N/A

*Performance Period 1 Carryover:* N/A

*Performance Period 2:* Develop Telehealth Strategic Plan by 9/15/15.

*Performance Period 3:* N/A

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

#### **Additional Goals:**

# Lives Impacted: N/A

# Participating Providers: N/A

#### **Key Documents:**

- [A Statewide Telehealth Strategy for the State of Vermont](#)
- [Vermont Telehealth Pilots RFP](#)

**Lead(s):** Sarah Kinsler

**Contractors Supporting:** JBS International.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** This project is complete.

## Focus Area: Health Data Infrastructure

### Project: Telehealth – Implementation

**Project Summary:** Vermont is funding pilot projects that can address a variety of geographical areas, telehealth approaches and settings, and patient populations over a 12-month time period. The primary purpose is to explore ways in which a coordinated and efficient telehealth system can support value-based care reimbursement throughout the State of Vermont. Projects were selected in part based on demonstration of alignment with the health reform efforts currently being implemented as part of the SIM Grant process.

#### **Project Timeline and Key Facts:**

- August 2015 – Approval of draft RFP scope.
- September 2015 – RFP released.
- November 2015 – Pilot projects selected.
- February 2016 – Pilot launch.
- April 2016-January 2017 – Pilot period.
- December 2016-February 2017 – Pilot project wrap-up, evaluation, and reporting.

#### **Status Update/Progress Toward Milestones and Goals:**

- A draft RFP scope was developed by the State and JBS International, drawing on the telehealth definition, guiding principles, and key Telehealth Strategy elements.
- The draft RFP scope was approved by the HIE/HIT Work Group, Steering Committee, and Core Team in August 2015.
- The RFP was released on September 18, 2015; the bid period closed on October 23, 2015.
- Bid selection committee met four times to review bids; bids were scored and top two received notification of award.
- Project staff have met with two apparent awardees to initiate contract negotiations; contract execution expected in April 2016.

#### **Milestones:**

Performance Period 1: N/A

Performance Period 1 Carryover: N/A

Performance Period 2:

1. Release telehealth program RFP by 9/30/15.
2. Award at least one contract to implement the scope of work in the telehealth program RFP by 1/15/16.

Performance Period 3:

1. Continue telehealth pilot implementation through contract end dates.
2. Incorporate Telehealth Program into Sustainability Plan by 6/30/17.

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

#### **Additional Goals:**

- # Lives Impacted: N/A – Program not yet launched.
- # Participating Providers: N/A – Program not yet launched.

#### **Key Documents:**

- [A Statewide Telehealth Strategy for the State of Vermont](#)
- [Vermont Telehealth Pilots RFP](#)

**Lead(s):** Sarah Kinsler

**Contractors Supporting:** TBD – to be selected in October 2015.

#### **Anticipated Risks and Mitigation Strategy:**

- Delays in bidder selection and contract negotiations have resulted in delayed program launch.
  - The State is working to limit the impact of this delay. Project staff are working with apparent awardees to conclude contract negotiations, minimize implementation challenges, and execute contracts; program launch is expected in April 2016. The timeline above reflects delays.

**Focus Area: Health Data Infrastructure**

**Project: EMR Expansion**

**Project Summary:** EMR Expansion focuses on assisting in the procurement of EMR systems for non-Meaningful Use (MU) providers. This would include technical assistance to identify appropriate solutions and exploration of alternative solutions.

**Project Timeline and Key Facts:**

- January 2015 – EMR acquisition project began with VITL, VCP, and ARIS for five Specialized Service Agencies (SSAs).
- January-June 2015 – VITL assisted Vermont DMH in procuring new EMR solution for State Psychiatric Hospital.
- July 2015 – Vendor selected for SSA EMR acquisition and contract negotiations completed.
- August 2015 – Contract executed for SSA EMR acquisition. The project is complete.

**Status Update/Progress Toward Milestones and Goals:**

- EMR acquisition for five Specialized Service Agencies is ongoing.
- VITL provided technical assistance to the Department of Mental Health to support procurement of the EMR system for the State’s new hospital.

**Milestones:**

*Performance Period 1:* N/A

*Performance Period 1 Carryover:* N/A

*Performance Period 2:*

1. Assist in procurement of EMR for non-MU providers: Vermont State Psychiatric Hospital (by 6/30/15) and ARIS (Developmental Disability Agencies) (by 6/30/16).
2. Explore non-EMR solutions for providers without EMRs: develop plan based on LTSS technical gap analysis.

*Performance Period 3:* N/A

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

- # Lives Impacted: TBD
- # Participating Providers: TBD

**Key Documents:**

- [DLTSS Information Technology Assessment Report](#) (Fall 2015)

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** VITL, Vermont Care Partners, ARIS.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.

## Focus Area: Health Data Infrastructure

### Project: Data Warehousing

**Project Summary:** The VCN Data Repository will allow the Designated Mental Health Agencies (DA) and Specialized Service Agencies (SSA) to send specific data to a centralized data repository. Long-term goals of the data repository include accommodating connectivity to the Vermont Health Information Exchange (VHIE), as well as Vermont State Agencies, other stakeholders and interested parties. In addition to connectivity, it is expected that this project will provide VCN members with advanced data analytic capabilities to improve the efficiency and effectiveness of their services, and support the Triple Aim of health care reform. This project will also allow the network to show the incredible value it provides to the people of Vermont and participate more fully in health care delivery reform. Additionally, it will support the agencies as we transition from a fee-for-service reimbursement structure, to an outcome based payment methodology.

#### **Project Timeline and Key Facts:**

- March 2015 – RFP released for this project.
- May 2015 – Selection Committee selected preferred vendor and begins contract negotiations.
- September 2015 – Vendor contract executed.
- September 2016 – Phase 1 as defined in contract to be completed.

#### **Status Update/Progress Toward Milestones and Goals:**

- Vermont Care Network (VCN/BHN) is working on behalf of Designated Mental Health Agencies (DAs) and Specialized Service Agencies (SSAs) to develop a behavioral health-specific data repository, which will to aggregate, analyze, and improve the quality of the data stored within the repository and to share extracts with appropriate entities.
- Data quality work, data dictionary development, training of analytic software, and other supporting tasks are all in progress to support the project once the team is ready for implementation.

#### **Milestones:**

Performance Period 1: N/A

Performance Period 1 Carryover: Prepare to develop infrastructure to support the transmission, aggregation, and data capability of the DAs and SSAs data into a mental health and substance abuse compliant Data Warehouse:

1. Develop data dictionary by 3/31/15.
2. Release RFP by 4/1/15.
3. Execute contract for Data Warehouse by 10/15/15.
4. Design data warehousing solution so that the solution begins implementation by 12/31/15.

Performance Period 2:

1. Implement Phase 1 of DA/SSA data warehousing solution by 12/31/15 (implementation follows implementation project plan).
2. Procure clinical registry software by 3/31/16.
3. Develop a cohesive strategy for developing data systems to support analytics by 3/31/16.

Performance Period 3:

1. Implement Phase 2 of DA/SSA data warehousing solution by 12/31/16.
2. Begin to implement cohesive strategy for developing data systems to support analytics by 12/31/16.

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

#### **Additional Goals:**

- # Lives Impacted: 35,000
- # Participating Providers: 5,000

#### **Key Documents:**

- Data Repository RFP

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** Behavioral Health Network/Vermont Care Network; H.I.S. Professionals; Stone Environmental; Vermont Information Technology Leaders; TBD.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.

## Focus Area: Health Data Infrastructure

### Project: Care Management Tools (Shared Care Plan Project)

**Project Summary:** The Shared Care Plan (SCP) project (formerly part of the SCÜP project) will provide a Shared Care Plan solution to Vermont's provider organizations. This project will ensure that the components of a shared care plan will be captured in a technical solution that allows providers across the care continuum to electronically exchange critical data and information as they work together in a team based, coordinated model of care.

#### **Project Timeline and Key Facts:**

- April 2015 – Through Learning Collaboratives, the need for a technical solution for Shared Care Plans was identified; UTP and SCP projects are aligned under a single project named SCÜP.
- June 2015 – Discovery on aligned SCÜP project began.
- July 2015 – Requirements gathering sessions with multiple communities performed and initial technical and business requirements drafted.
- August 2015 – Requirements validated with target communities.
- October 2015 – Technical Assessments of existing or proposed solutions meeting SCÜP use cases reviewed for alignment.
- November 2015 – Technical proposal submitted to HDI Work Group by SCÜP team. SCÜP split into two projects (SCP and UTP) due to a difference in proposed solutions.
- December 2015-January 2016 – Continued discovery activities.
- March 2016 – Status update provided to the HDI Work Group recommending that the SCP project continue its review of the consent requirements for Shared Care Plans. A technical solution is not recommended at this time.

#### **Status Update/Progress Toward Milestones and Goals:**

- Integrated Care Management Learning Collaborative Cohort 1 communities requested shared care planning tools.
- Final findings reviewed with HDI Work Group. A technical solution is not recommended at this time.
- The final report including project findings for this project will be distributed in April 2016. Work on the consent requirements and consent management system will begin in Q2 2016.

#### **Milestones (all Care Coordination Tools work streams):**

Performance Period 1: N/A

Performance Period 1 Carryover:

1. Discovery project to support long- term care, mental health, home care and specialist providers through a Universal Transfer Protocol solution:  
Report due 4/15/15.
2. Engage in research and discovery to support selection of a vendor for event notification system in Vermont by 10/1/15.

Performance Period 2: Engage in discovery, design and testing of shared care plan IT solutions, an event notification system, and uniform transfer protocol. Create project plans for each of these projects and implement as appropriate, following SOV procedure for IT development:

1. Event Notification System: Procure solution by 1/15/16 and implement according to project plan for phased roll out.
2. SCÜP (shared care plans and uniform transfer protocol): Create project plan for this project that includes business requirements gathering by 9/30/15; technical requirements by 10/31/15; and final proposal for review by 1/31/16.

Performance Period 3:

1. Event Notification System: Continue implementation of ENS according to contract with vendor through 12/31/16.
2. Shared Care Plan: Recommend revisions to the VHIE consent policy and architecture to better support shared care planning by 6/30/17.
3. Universal Transfer Protocol: Support workflow improvements at provider practices through existing contracts through 12/31/16.
4. Continue implementation of care management solutions, including VITLAccess, supporting Home Health Agencies and Area Agencies on Aging.

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

# Lives Impacted: TBD

# Participating Providers: TBD

**Key Documents:**

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** Bailit Health Purchasing; im21; Vermont Information Technology Leaders.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.

## Focus Area: Health Data Infrastructure

### Project: Care Management Tools (Universal Transfer Protocol)

**Project Summary:** The Universal Transfer Protocol (UTP) project (formerly part of the SCÜP project) will provide a Universal Transfer Protocol to Vermont's provider organizations. This project will ensure that a Universal Transfer Protocol will allow providers across the care continuum to exchange critical data and information as they work together in a team based, coordinated model of care; particularly when people transition from one care setting to another.

#### **Project Timeline and Key Facts:**

- September 2014 – Contractor im21 began UTP discovery.
- February 2015 – Draft UTP charter and final UTP report submitted.
- April 2015 – Through Learning Collaboratives, the need for a technical solution for Shared Care Plans was identified; UTP and SCP projects are aligned under a single project named SCÜP.
- June 2015 – Discovery on aligned SCÜP project began.
- July 2015 – Requirements gathering sessions with multiple communities performed and initial technical and business requirements drafted.
- August 2015 – Requirements validated with target communities.
- October 2015 – Technical Assessments of existing or proposed solutions meeting SCÜP use cases reviewed for alignment.
- November 2015 – Technical proposal submitted to HDI Work Group by SCÜP team. SCÜP split into two projects (SCP and UTP) due to a difference in proposed solutions.
- March 2016 – Status update provided to the HDI Work Group recommending that the UTP project work with the Learning Collaboratives to provide support services to transform practice workflows to support the UTP use case.

#### **Status Update/Progress Toward Milestones and Goals:**

- Integrated Care Management Learning Collaborative Cohort 1 communities requested shared care planning tools.
- Former SCÜP project separated into two separate projects (SCP and UTP).
- Final findings reviewed with HDI Work Group. Project staff recommended that the UTP project work with the Learning Collaboratives to provide support services to transform practice workflows to support the UTP use case.

#### **Milestones (all Care Coordination Tools work streams):**

Performance Period 1: N/A

##### Performance Period 1 Carryover:

1. Discovery project to support long-term care, mental health, home care and specialist providers through a Universal Transfer Protocol solution:  
Report due 4/15/15.
2. Engage in research and discovery to support selection of a vendor for event notification system in Vermont by 10/1/15.

Performance Period 2: Engage in discovery, design and testing of shared care plan IT solutions, an event notification system, and uniform transfer protocol. Create project plans for each of these projects and implement as appropriate, following SOV procedure for IT development:

1. Event Notification System: Procure solution by 1/15/16 and implement according to project plan for phased roll out.
2. SCÜP (shared care plans and uniform transfer protocol): Create project plan for this project that includes business requirements gathering by 9/30/15; technical requirements by 10/31/15; and final proposal for review by 1/31/16.

##### Performance Period 3:

1. Event Notification System: Continue implementation of ENS according to contract with vendor through 12/31/16.
2. Shared Care Plan: Recommend revisions to the VHIE consent policy and architecture to better support shared care planning by 6/30/17.
3. Universal Transfer Protocol: Support workflow improvements at provider practices through existing contracts through 12/31/16.

4. Continue implementation of care management solutions, including VITLAccess, supporting Home Health Agencies and Area Agencies on Aging.

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

# Lives Impacted: TBD

# Participating Providers: TBD

**Key Documents:**

**State of Vermont Lead(s):** Larry Sandage

**Contractors Supporting:** Bailit Health Purchasing; im21; Vermont Information Technology Leaders.  
To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.



## Focus Area: Health Data Infrastructure

### Project: Care Management Tools (Event Notification System)

**Project Summary:** The Event Notification System (ENS) project will implement a system to proactively alert participating providers regarding their patient's medical service encounters. VITL and the Vermont ACOs worked with the State to perform discovery and design of proposed ENS solutions. The selected ENS solution will provide admission, discharge, and transfer data to participating providers.

#### **Project Timeline and Key Facts:**

- July 2014 – VITL begins ENS project.
- August 2014 – Proof of concept began with 2 selected vendors.
- January 2015 – Research and discovery related to vendor selection.
- September 2015 – Vendor selected.
- October 2015 – VITL, State, and vendor in contract negotiations.
- March 2016 – Contract approved.

#### **Status Update/Progress Toward Milestones and Goals:**

- State of Vermont is working with VITL to procure Event Notification System. Contractor selected. Contract being routed for approval as of January 2016.
- PatientPing and VITL have completed implementation of all 15 VITL feeds in the PatientPing environment.
- Event Notification project is scheduling a formal launch in early April.

#### **Milestones (all Care Coordination Tools work streams):**

Performance Period 1: N/A

##### Performance Period 1 Carryover:

1. Discovery project to support long- term care, mental health, home care and specialist providers through a Universal Transfer Protocol solution:  
Report due 4/15/15.
2. Engage in research and discovery to support selection of a vendor for event notification system in Vermont by 10/1/15.

Performance Period 2: Engage in discovery, design and testing of shared care plan IT solutions, an event notification system, and uniform transfer protocol. Create project plans for each of these projects and implement as appropriate, following SOV procedure for IT development:

1. Event Notification System: Procure solution by 1/15/16 and implement according to project plan for phased roll out.
2. SCÜP (shared care plans and uniform transfer protocol): Create project plan for this project that includes business requirements gathering by 9/30/15; technical requirements by 10/31/15; and final proposal for review by 1/31/16.

##### Performance Period 3:

1. Event Notification System: Continue implementation of ENS according to contract with vendor through 12/31/16.
2. Shared Care Plan: Recommend revisions to the VHIE consent policy and architecture to better support shared care planning by 6/30/17.
3. Universal Transfer Protocol: Support workflow improvements at provider practices through existing contracts through 12/31/16.
4. Continue implementation of care management solutions, including VITLAccess, supporting Home Health Agencies and Area Agencies on Aging.

#### **Metrics:**

CORE\_Health Info Exchange\_[VT]

#### **Additional Goals:**

- # Lives Impacted: TBD
- # Participating Providers: TBD

#### **Key Documents:**

**Lead(s):** Georgia Maheras, Larry Sandage

**Contractors Supporting:** Vermont Information Technology Leaders.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:**

**Focus Area: Health Data Infrastructure**  
**Project: General Health Data – Data Inventory**

**Project Summary:** Vermont engaged a contractor, Stone Environmental, to complete a statewide health data inventory that will support future health data infrastructure planning. This project built a comprehensive list of health data sources in Vermont, gathered key information about each, and catalogued them in a web-accessible format. The resulting data inventory is a web-based tool that allows users (both within the State and external stakeholders) to find and review comprehensive information relating to the inventoried datasets. This work stream is complete.

**Project Timeline and Key Facts:**

- November 2014 – Contract executed.
- December 2014 – Project launched.
- January 2015 – Project convened Health Data Inventory Steering Committee to guide work.
- January-May 2015 – Dataset discovery and initial information collection.
- February-May 2015 – One-on-one meetings with Health Data Inventory Steering Committee members and other key stakeholders.
- April-May 2015 – Dataset prioritization.
- May-August 2015 – Contract on hold pending CMMI approval of Performance Period 2 budget.
- August 2015 – Project re-launched.
- September-November 2015 – Data collection on prioritized datasets, recommendations development.
- November 2015 – Draft report and recommendations submitted and shared with project leadership and HDI Work Group co-chairs for feedback.
- December 2015 – Final recommendations presented to Health Data Infrastructure Work Group; final report submitted to project leadership; final web-accessible inventory launched. The project is complete.

**Status Update/Progress Toward Milestones and Goals:**

- Contractor, working with SOV staff and key stakeholders, identified ~20 high priority datasets for deeper data collection; additional data collection on these prioritized datasets began in May 2015 and relaunched in September.
- Contractor engaged in research on possible portal framework options, and selected a solution already licensed by the State of Vermont.
- Draft report submitted to contract manager and shared with project leadership and HDI Work Group co-chairs in November 2015.
- Final report submitted and web-accessible inventory launched in December 2015.

**Milestones:**

Performance Period 1: Conduct data inventory.

Performance Period 1 Carryover: Complete data inventory:

1. Draft analysis of health care data sources that support payment and delivery system reforms by 4/15/15.
2. Final data inventory due by 10/31/15.

Performance Period 2: N/A

Performance Period 3: N/A

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

- # Lives Impacted: N/A
- # Participating Providers: N/A

**Key Documents:**

- [Stone Environmental Health Data Inventory Contract](#)
- Final Health Data Inventory Report
- [Searchable Health Data Inventory](#)

**State of Vermont Lead(s):** Sarah Kinsler

**Contractors Supporting:** Stone Environmental.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** This project is complete.



**Focus Area: Health Data Infrastructure**  
**Project: General Health Data – HIE Planning**

**Project Summary:** The HIE Planning project resulted from a perceived gap in high-level planning and research in local and nationwide best practices for providing a robust, interoperable ability to transmit accurate and current health information throughout the Vermont health care landscape. This project will conduct further research in best practices around improving clinical health data quality and connectivity resulting in recommendations to the HIE/HIT Work Group. Additionally, the HDI Work Group has participated on multiple occasions in the 2015 revision of Vermont Health Information Technology Plan, which is scheduled for release in January 2016.

**Project Timeline and Key Facts:**

- December 2014 – Contractor selected for HIE Planning project.
- April 2015-September 2015 – HIE Planning project contracting process put on hold pending Federal approval.
- October 2015 – HIE Planning work began.

**Status Update/Progress Toward Milestones and Goals:**

- Contractor selected and kick-off meeting with outlined roles and responsibilities conducted.
- Work is ongoing.
- HIT Plan released in January 2016 and is pending approval at the Green Mountain Care Board as of March 2016.

**Milestones:**

*Performance Period 1:* Provide input to update of state HIT plan.

*Performance Period 1 Carryover:* N/A

*Performance Period 2:*

1. VHCIP will provide comment into the HIT Strategic Plan at least 4 times in 2015.
2. HDI Work Group will identify connectivity targets for 2016-2019 by 6/30/16.

*Performance Period 3:* Finalize connectivity targets for 2016-2019 by 12/31/16.

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

- # Lives Impacted: N/A
- # Participating Providers: N/A

**Key Documents:**

**State of Vermont Lead(s):** Georgia Maheras

**Contractors Supporting:** Stone Environmental.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Additional Supporting Information:** None at this time.

**Focus Area: Health Data Infrastructure**  
**Project: General Health Data – Expert Support**

**Project Summary:** This is a companion project to all of the projects within the Health Data Infrastructure focus area. Due to the nature of those projects, we need specific skills to support the State and stakeholders in decision-making and implementation. The specific skills needed are IT Enterprise Architects, Business Analysts, and Subject-Matter Experts.

**Project Timeline and Key Facts:**

- Accessed as necessary to support various Health Data Infrastructure projects.

**Status Update/Progress Toward Milestones and Goals:**

- IT-specific support to be engaged as needed.
- Enterprise Architect, Business Analyst and Subject Matter Experts identified.

**Milestones:**

*Performance Period 1:* N/A

*Performance Period 1 Carryover:* N/A

*Performance Period 2:* Procure appropriate IT-specific support to further health data initiatives – depending on the design of projects described above, enterprise architects, business analysts, and others will be hired to support appropriate investments.

*Performance Period 3:* Procure appropriate IT-specific support to further health data initiatives – depending on the design of projects described above, enterprise architects, business analysts, and others will be hired to support appropriate investments.

**Metrics:**

CORE\_Health Info Exchange\_[VT]

**Additional Goals:**

- # Lives Impacted: N/A
- # Participating Providers: N/A

**Key Documents:**

**State of Vermont Lead(s):** Georgia Maheras

**Contractors Supporting:** Stone Environmental; TBD.

To view executed contracts, please visit the [VHCIP Contracts](#) page.

**Anticipated Risks and Mitigation Strategy:** None at this time.