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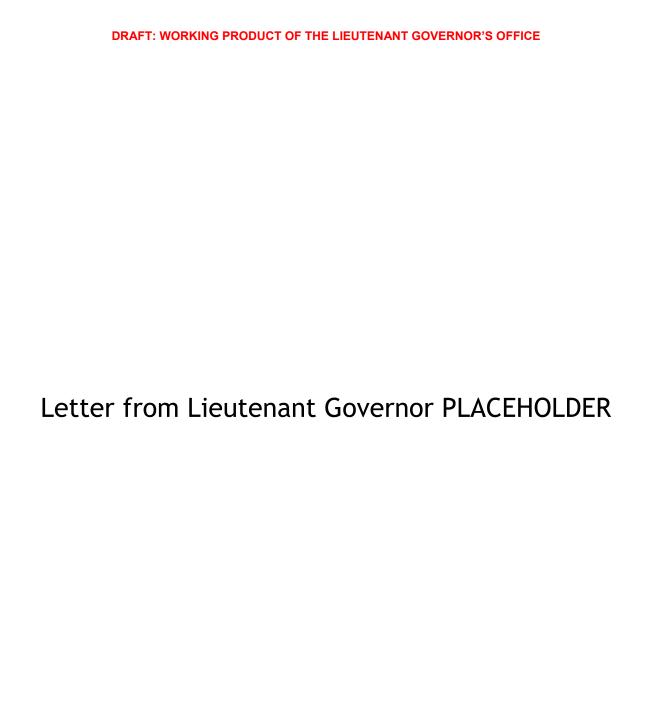
Colorado Health IT Roadmap: All Roads Lead to Health
MONTH 2025

Acknowledgements

The 2025 refresh of the Colorado Health IT Roadmap was a collaborative effort led by the Office of eHealth Innovation (OeHI) and eHealth Commission, involving state agency partners, community organizations, health care providers, and individual Coloradans. Appendix 1 includes a list of participating organizations and individuals. OeHI team members that contributed to development and publication of this edition were: Matt Arment, Gabby Burke, Melissa Gillespie, Karen Haneke, Ashley Heathfield, Michel Jurica, John Kennedy, Bianca Melancon, Stephanie Pugliese, and Karen Shimamoto. eHealth Commission members were: KP Yelpaala, Rachel Dixon, Michael Archuleta, Toni Baruti, Mona Baset, Amy Bhikha, Michael Feldmiller (Advisor), Patrick Gordon, Sophia Gin, Cory Hussain, Micah Jones (Advisor), Krystal Morwood, Jackie Sievers (Advisor), Kevin Stansbury, Parrish Steinbrecher, and Misgana Tesfaye.

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Executive Summary

This Roadmap stems from the 2021 Roadmap values, principles, vision statements, and goals that remain critical to the work that support a Colorado for all. These grounding elements of the 2025 Health IT Roadmap will drive the health technology and innovation for the state and be accomplished through the collaboration and work between OeHI, partners, and champions. Partners include state agencies, consumers and patients, health providers and staff, federally recognized Tribes of Colorado, community-based organizations, hospitals, health systems, coordinated care organizations and health insurance plans, and technology partners.

This Roadmap serves as the agreed-upon course to continue aligning efforts across these partners to work toward three main goals:

- 1. Enhance Community Engagement in Health IT Solutions: Foster a collaborative environment where community members, patients, and health care providers actively participate in the design, implementation, and evaluation of health IT solutions to ensure they meet the diverse needs of the community.
- 2. Support Secure and Appropriate Data Sharing: Develop and implement a robust framework that enhances the interoperability of health technology, establishes and supports industry standards, and strengthens cybersecurity measures to create a secure and seamless health information exchange.
- 3. Foster Responsible Innovation: Encourage the development and implementation of innovative health IT solutions at the local and state levels while ensuring ethical practices, stakeholder engagement, and compliance with regulatory standards.

Colorado envisions a future where the goals of the 2021 Health IT Roadmap, which now serve as vision statements, are true for ALL Coloradans:

- 1. Coloradans, providers, payers, community partners, and state, local, and Tribal agencies share data and have equitable access to needed health and social information, while respecting data sovereignty.
- 2. Coloradans access high-quality in-person, virtual, and remote health services that are coordinated through information and technology systems.
- 3. Colorado improves health equity through the inclusive and innovative use of trusted health IT and digital health solutions.

OeHI, the eHealth Commission, and partners will approach the goals and vision statements through three critical strategies:

- 1. Policy Advocacy
- 2. Funding
- 3. Shared Solutions

Appendix 2 includes a list of key words and their definitions.

Introduction

Health technology serves a vital role in connecting the unique and critical aspects of our health care and health-related systems. For providers, health information technology (IT) provides critical information and essential tools for appropriate and efficient patient care. Through our homes and communities, this technology streamlines the patient experience, empowers individuals and families to better understand their health, and increases their access to providers and health services. For local and state government agencies, health IT supports the enrollment and implementation of benefits programs and enables our neighbors and communities to thrive.

The Office of eHealth Innovation (OeHI) was created through Executive Order B 2015-008 and developed within the Offices of the Governor and Lieutenant Governor of Colorado to coordinate and prioritize health IT throughout the state. OeHI is advised by the eHealth Commission, which comprises private and public sector representation, including health IT entrepreneurs, health systems, state agencies, health plans, and more. Together, OeHI and the eHealth Commission drive priorities and alignment for health IT through the Colorado Health IT Roadmap.

To update the 2021 Colorado Health IT Roadmap, the OeHI team led an extensive community engagement process to ground the Roadmap updates in the needs of providers, community organizations, and Coloradans and ensure that the state's efforts directly align with the feedback heard during this process. Listening sessions revealed that the cost of adopting, implementing, and maintaining health IT remains the top barrier for health care organizations, particularly those located in and serving rural communities. There is high demand for cross-program alignment at the state level and for opportunities to learn more about best practices for cybersecurity and adopting artificial intelligence (AI) and other emerging technologies.

Community members expressed a need for education centered on health IT tools, such as patient portals and telehealth platforms, as well as a need for user-centered design in the creation of health applications. Additionally, OeHI learned that language access continues to be a hurdle to accessing health care and using digital health tools for many in Colorado communities whose primary language is one other than English.

This document builds on what OeHI heard during listening sessions and the successes achieved through Colorado's previous Health IT Roadmaps and lays out the current and future direction of this work, which will achieved in collaboration with critical partners.

Colorado Landscape

Progress Toward 2021 Roadmap Goals

The following table highlights OeHI-led progress toward the 2021 Roadmap goals. More information about these projects can be found on the OeHI website at oehi.colorado.gov.

Roadmap Goal 1: Coloradans, providers, payers, community partners, state, local, and Tribal agencies share data and have equitable access to needed health and social information, while respecting data sovereignty.

- In partnership with the Government Data Advisory Board (GDAB), developed and enacted the state agency data-sharing agreement template to streamline internal data sharing
- In partnership with the Office of Information Technology (OIT), expanded the Identity Cross-Resolution Service (IDXR) across eight state source systems to link individual records
- Developed the foundation for a consent management proof of concept solution and planning implementation within the Colorado Social Health Information Exchange (CoSHIE) unifying architecture
- Launched feasibility assessment for a centralized consent repository to support improving data-sharing foundations across Colorado as outlined in House Bill 24-1217
- Served as CancerX Founding Member
- Gathered recommendations from local public health agencies to establish data strategy for system improvements
- Deployed chatbot to promote access to women's health in Colorado

Roadmap Goal 2: Coloradans access high-quality in-person, virtual, and remote health services that are coordinated through information and technology systems.

- Managed the HB21-1289 Funding for Broadband Deployment Grant in collaboration with OIT, providing approximately \$6 million to support connectivity for telehealth services
- Completed Northwest/Western Colorado Telehealth Study
- Completed telehealth payment parity and denials analysis
- Completed landscape analysis and recommendations for updating community resource inventories
- In partnership with the Behavioral Health Administration, completed phase 1 of the provider directory interoperability initiative
- Awarded contract and completed beta launch for the CoSHIE unifying architecture
- Awarded first CoSHIE Regional Hubs
- Established CoSHIE Executive Steering Committee and Data Governance Committee

Roadmap Goal 3: Colorado improves health equity through the inclusive and innovative use of trusted health IT and digital health solutions.

- Released the Social Determinants of Health (SDOH) Vendor Guide
- Partnered with 25 rural libraries to deploy telehealth kits for constituents
- Completed feasibility analysis for Colorado Health Innovation Resource Center
- Completed initial demographic data baseline for safety net facilities

- Served as collaborator with In Full Health Initiative
- Funded a baseline connection between 100% of Critical Access Hospitals and Rural Health Centers and the HIE network
- Developed and deployed the rural Community Analytics Platform (CAP), with 81% of Rural Safety Net providers connected
- Awarded \$19.9 million in American Rescue Plan Act (ARPA) funding for technology upgrades for behavioral health and home and community-based service providers
- Co-developed the Colorado Digital Access Plan and planning implementation in partnership with the Office of the Future of Work

History of Colorado's Health IT Roadmaps



How We Got Here — Refreshing the Health IT Roadmap

For the 2025 Roadmap, OeHI designed a strategy to hear from health care providers, community-based organizations, community members, and state agencies.

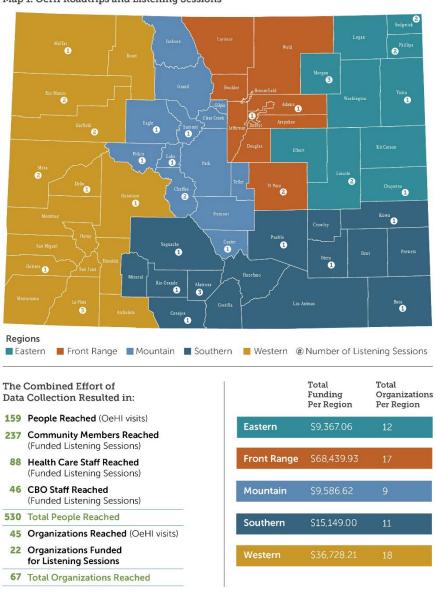
The OeHI team created three question sets for each audience — one for health care providers and health care staff, one for community-based organization staff, and one for community members. These question sets were tailored to each of the three audiences, focusing on health IT barriers and facilitators, social health information collection and processes, telehealth, and information sharing. The OeHI team also created an application process to recruit organizations across the state to host listening sessions with health care providers, community-based organizations, and/or community members, reaching more than 500 Coloradans during 26 listening sessions with 22 organizations, which received a total of \$126,000 for their efforts.

In addition to funding organizations to host listening sessions, the OeHI team conducted 45 inperson listening sessions with health care providers and staff across Colorado.

The OeHI team created and shared facilitator resources to encourage a streamlined and consistent listening session process, including a note-taking template, question list, slide deck, sample listening session flyers, facilitation tips and tricks, and sign-in sheet. These resources were created for each audience and distributed to the internal OeHI team and awardees to use during listening sessions.

Notes from each of the listening sessions were entered into a spreadsheet according to the audience (health care providers/health systems, community-based organizations, community members) and organized according to question. The OeHI team then took each question and separated responses by different themes. Each of these themes was then counted to assess how many times it came up in responses from listening session participants. From this, general themes for each topic area were identified, along with context for the themes. This was completed for each question and each audience spreadsheet. These results were then organized by initiative area in a document that was shared with the rest of the OeHI team.

Following the analysis of the listening session notes and associated themes, the OeHI team met with state agency partners to ensure complementary work and agency perspectives were captured in this Roadmap.



Map 1. OeHI Roadtrips and Listening Sessions

What We Heard

Health care partners reported that their top health IT adoption barrier was cost, ranging from the cost of electronic health record (EHR) systems and other vendor fees to patient outreach and rising technology costs. Other leading barriers included state and federal program requirements, lack of interoperability and disjointed technology, challenges with EHRs (such as poor vendor service, a lack of reporting ability, and integration challenges), insurance and reimbursement issues, and patient digital access.

The top health IT requests from health care partners included:

- Funding, particularly for rural organizations and those with fewer resources, for technology, health information exchange (HIE) access, EHRs, and pilot programs
- Better data-sharing practices and alignment with national and state standards
- Advocacy, policy, and partnership around issues with health insurers, increasing purchasing power of smaller organizations
- Support and technical assistance with AI, telehealth, state programs and reporting, and cybersecurity

The biggest takeaway from listening sessions with community members was the need for education and assistance using and learning how to use health IT tools such as patient portals and telehealth. This was followed by how important trust, privacy and security, and protecting a person's information is in health care. Access to health IT and health care in languages other than English was also a central need for many communities.

The Work

Changes from the 2021 Roadmap

Two main principles — accessibility and tangibility — drove the 2025 Roadmap refresh. The OeHI team strove to make the updated Roadmap more brief, direct and targeted, and measurable. The major changes from the 2021 Roadmap include:

- Developing new goals to work toward the vision statements
- Revising values and principles
- Detailing how OeHI will measure progress toward the vision statements and goals
- Directly tying in OeHI initiatives and state projects
- Incorporating a more intentional and robust community engagement strategy, led by the OeHI team
- Integrating a more patient-centered approach

Values and Principles

Accountability: Commit to transparency, fairness, and standards in vendor and community partnerships, ensuring that health IT solutions effectively serve the needs of Coloradans.

Collaboration: Engage and coordinate across state and local agencies, providers, payers, and community partners to strategically leverage efforts and maximize impact to Coloradans.

Equity: Facilitate individual-, community-, and systems-level solutions that measure, address, and reduce disparities and advance equity.

Reusability: Leverage existing, affordable solutions that support end users' needs when feasible and appropriate.

Sustainability: Promote solutions that provide value and encourage and justify long-term financial support.

Vision Statements

The 2025 Colorado Health IT Roadmap vision statements stem from the 2021 Roadmap goals, as they remain critical to the work of health technology in Colorado. These statements, separate and together, paint a future that we continue to work toward and center our work on achieving.

- Coloradans, providers, payers, community partners, and state, local, and Tribal
 agencies share data and have equitable access to needed health and social
 information, while upholding data sovereignty.
- 2. Coloradans access high-quality, in-person, virtual, and remote health services that are coordinated through information and technology systems.
- 3. Colorado improves health equity through the inclusive and innovative use of trusted health IT and digital health solutions.

Goals

The newly established goals make progress toward achieving the vision statements in alignment with the Roadmap values and principles. These goals focus on the pillars of **people**, **technology**, and **innovation** to support the health technology ecosystem in Colorado.

- 1. Increase Community Engagement in Health IT Solutions: Foster a collaborative environment where community members, patients, and health care providers actively participate in the design, implementation, and evaluation of health IT solutions to ensure they meet the diverse needs of the community.
- 2. Support Secure and Appropriate Data Sharing: Develop and implement a robust framework that enhances the interoperability of health technology, establishes and supports industry standards, and strengthens cybersecurity measures to create a secure and seamless health information exchange.
- 3. Foster Responsible Innovation: Encourage the development and implementation of innovative health IT solutions at the local and state level while ensuring ethical practices, stakeholder engagement, and compliance with regulatory standards.

Strategies

Bolstered by the feedback gathered from extensive listening sessions across the state, OeHI, the eHealth Commission, and state partners will continue to utilize the strategies outlined in the 2021 Roadmap to work toward the goals outlined in this Roadmap.

Policy Advocacy: Policymaking at all levels of government plays a significant role in the adoption and implementation of health IT. Examples of OeHI's work include identifying policy

gaps, working with lawmakers to support equitable health IT, engaging with federal partners, coordinating on public comments to federal policies, and managing data-sharing and consent agreements.

Directed Funding: Equitable investment in health IT strategies ensures health care and community-based partners across the state can benefit from health IT. Examples of OeHI's work include state agency investments, Centers for Medicare and Medicaid Systems (CMS) funding allocation and management, nongovernmental funding, grantmaking, federal funding applications, and financial support for providers and community organizations in adopting health IT.

Shared Solutions: Collaborating across state agencies and initiatives is essential to leveraging different resources strategically. Examples of OeHI's work include coordination and collaboration in building a scalable, data-sharing platform for social health information and co-designing reporting platforms and health IT solutions with rural providers.

Figure 1. The 2025 Colorado Health Information Technology Roadmap

Values and Principles

Based on the learnings from the listening sessions, OeHI outlined the Roadmap work using the following vision, values, goals, and strategies.







Reusability



Vision Statements

The 2025 Colorado Health IT Roadmap vision statements stem from the 2021 Roadmap goals, as they remain critical to the work of health technology in Colorado. These statements, separate and together, paint a future that we continue to work toward and center our work on achieving.

Coloradans, providers, payers, community partners, and state, local, and Tribal agencies share data and have equitable access to needed health and social information, while upholding data sovereignty.

Colorado improves health equity through the inclusive and innovative use of trusted health IT and digital health solutions. Coloradans access high-quality, in-person, virtual, and remote health services that are coordinated through information and technology systems.

Goals

The newly established goals make progress toward achieving the vision statements in alignment with the Roadmap values and principles. These goals focus on the pillars of people, technology, and innovation to support the health technology ecosystem in Colorado.



Increase Community Engagement in Health IT Solutions:

Foster a collaborative environment where community members, patients, and health care providers actively participate in the design, implementation, and evaluation of health IT solutions to ensure they meet the diverse needs of the community.



Support Secure and Appropriate Data Sharing:

Develop and implement a robust framework that enhances the interoperability of health technology, establishes and supports industry standards, and strengthens cybersecurity measures to create a secure and seamless health information exchange.



Foster Responsible Innovation:

Encourage the development and implementation of innovative health IT solutions at the local and state level while ensuring ethical practices, stakeholder engagement, and compliance with regulatory standards.

Championing the Work

Accomplishing the Roadmap goals requires collaboration to align strategies, policies, funding, and technology in the service of health care affordability, reducing health disparities, and increasing access for under-resourced populations. Meeting these goals cannot be achieved by one organization or entity, but must rely on public, nonprofit, and private sector champions that bring unique capabilities and expertise. These champions all play a role in aligning and operationalizing policy, funding, and service decisions, community engagement, governance, and accountability.

Community partners are other important champions in these efforts. Community partners, including local government agencies, health care providers and systems, payers, community members, and technical vendors, can offer pragmatic feedback on the benefits and limitations of services and solutions.

Champions also include state agencies that play critical roles, especially those promoting health and health-related services. These agencies already or can steward many of the efforts outlined in the Roadmap and foster alignment and efficiency. These agencies include the Office of Information Technology, Colorado Broadband Office, Department of Health Care Policy and Financing, Department of Public Health and Environment, Department of Labor and Employment, Office of the Future of Work, Department of Human Services, and the Behavioral Health Administration. The following list highlights projects led by some of these champions:

- Office of Information Technology (OIT)
 - O Colorado Broadband Roadmap
 - O Digital Government Strategic Plan
- Department of Health Care Policy and Financing (HCPF)
 - O Rural Connectivity Program Sustainability Payments
 - O Medicaid eConsult Program
 - O Medicaid Prescriber Tool (Real-Time E-Prescribing, Real-Time Benefits Inquiry, Real-Time Prior Authorization, Opioid Risk Module)
 - O Medicaid Care and Case Management System
 - O Medicaid Value Based Payments
- HCPF and Colorado Department of Human Services (CDHS)
 - O Colorado Benefits Management System
 - O Joint Agency Interoperability
- Colorado Department of Human Services (CDHS)
 - O Interoperability Roadmap
- Colorado Department of Public Safety (CDPS)
 - O Colorado Trusted Interoperability Platform
- Behavioral Health Administration (BHA)
 - O Data Lakehouse
 - O Administrative Burden Initiative

- O OwnPath
- Colorado Department of Public Health and Environment (CDPHE)
 - O TeleORALhealth training and resources for the oral health workforce
 - O Oral health integration project to improve referral tracking between medical and dental
 - O Public Health Data Modernization Initiative
 - O Provider Directory
- <u>Colorado Department of Labor and Employment (CDLE)</u>, <u>Office of the Future of Work</u>
 (OFW)
 - O Colorado Digital Access Plan and implementation
- Colorado Department of Regulatory Agencies, Division of Insurance
 - O Provider Directory
 - O Price Transparency work
 - O Primary Care and Value Based Payments

While OeHI, with the support of the eHealth Commission, is tasked with maintaining Colorado's Health IT Roadmap and leading the coordination and collaboration around health IT initiatives and strategies, the Roadmap belongs to all champions of health IT in our state. OeHI:

- Provides leadership in advancing Colorado's health IT priorities and supports system integration across state agencies and community partners
- Aligns, integrates, and coordinates the policy, funding, and technology investments for the state's health agencies through intentional partnership
- Supports health IT adoption, implementation, and maintenance through the facilitation of the eHealth Commission, coordination with state agencies, and intentional community engagement with community partners and Coloradans
- Advises state agencies on their health IT implementation efforts, and offers avenues for investing in innovative solutions that hold promise and promote policy solutions at the state level
- Leads health IT efforts through effective collaboration and project and contract management

As OeHI plays a lead role in health IT coordination, this Roadmap will guide OeHI's work in advancing health IT in Colorado. However, the success of the goals and outcomes in this Roadmap, and health IT progress in Colorado depends on the leadership, accountability, innovation, and partnerships from all of the champions of this work.

Initiatives

While many organizations and agencies contribute to achieving equitable health IT adoption and implementation in Colorado, the OeHI team focuses specifically on aligning, integrating, and coordinating the policy, funding, and technology investments for the state through collaboration and strong working relationships. OeHI has three main initiatives: care coordination, digital inclusion and community engagement, and health data governance. These initiatives encompass a variety of projects, ranging from building the Colorado Social

Health Information Exchange to collaborating on improving digital equity for under-resourced communities to building consent and data-sharing standards. These initiatives and projects are guided by the eHealth Commission and are all connected by their aim to achieve the overarching vision statements and goals. In this section, there is information on each of OeHI's initiatives including an initiative overview, overarching goals, how the initiative utilizes the three strategies of policy, shared solutions, and funding, key community feedback relevant to that initiative, future opportunities, and other state projects that the initiative works in collaboration with. More information on each of the initiatives can be found on OeHI's website.

Care Coordination

Care Coordination is an overarching strategy that contains several key OeHI projects, including the Colorado Social Health Information Exchange (CoSHIE), provider directory, and community resource inventory projects. The purpose of this work is to strengthen care coordination by quickly connecting people to the services they need to bring about a healthier, more equitable Colorado for all.

Goals of the CoSHIE project

- Remove data silos.
- Work with existing infrastructure throughout the state to complement strengths and fill gaps.
- Promote whole-person health through securely sharing physical, behavioral, and social health information between providers.
- Eliminate the need for individuals seeking care to recount complex medical and social histories repeatedly when visiting a provider.

Strategy Alignment

	Policy	Shared Solutions	Funding
Associated Projects	Consent Management	Provider Directory and Community Resource Inventory	Regional SHIE Hub Proof of Concept Grant
	Identity Resolution	CoSHIE Statewide Unifying Architecture	
		Data Governance	

Key Community Feedback

- Health care providers said they wished they had access to previous referrals and outcomes, homelessness data, benefits eligibility information, and information on behavioral health and substance use data for patients. Duplication of data entry was a common and consistent problem for example, reporting the same data to different entities and internal duplication. Most referrals are done via phone or email, then tracked in the EHR due to many different systems being used and low participation in social care platforms.
- Community-based organizations reported challenges with complexity and dissatisfaction with referral platforms due to many different systems being used.
 Duplication of data entry was very frustrating and typically due to multiple programs requesting the same data in different formats, a lack of compatibility and interoperability between systems, and limited staff capacity to think through improving internal processes.

Future Opportunities

- Sharing coordinated entry data from Homeless Management Information System (HMIS) with care coordinators
- Sharing housing voucher status data between state systems and care coordinators
- Implementing consent into the CoSHIE environment
- Working in partnership with state agencies and OIT toward unified identity and access management
- Sharing booking and release data between detention centers and care coordinators

Other Related State Projects

- Provider Directory coordination and inclusion of additional provider types
- <u>Department of Corrections</u>, HMIS, and Harvard Kennedy School Government Performance Labs Initiative

Digital Inclusion and Community Engagement

Digital Inclusion and Community Engagement is an overarching effort to support safety net providers in providing telehealth services, implement innovative solutions; connect to the Colorado Health Information Exchange (HIE), Contexture; and improve Colorado's ability to measure health equity. It includes the statewide Telehealth, Digital Inclusion, and Equity initiative as well as the Rural Connectivity initiative.

Goals of Telehealth, Digital Inclusion and Equity Initiative

Improve equity of telehealth access for Coloradans through improved digital access

- Support community providers in offering telehealth services
- Support health care providers in aligning with changing demographic data requirements
- Support more accurate health equity analysis to inform policy and initiatives

The main strategies for working toward these goals include research, funding to health care providers and community-based organizations, and partnerships with community organizations like libraries.

Strategy Alignment

	Policy	Shared Solutions	Funding	
Associated Projects	Telehealth Payment Parity Analysis Reports	Colorado Digital Access Plan creation and implementation	Connect to Health @Your Library	
		Reproductive and Sexual Health Chatbot	Lead applicant for	
	Effects of Remote Patient Monitoring Research	Telehealth Equity Analysis Dashboard	Digital Equity Competitive Grant	
		Northwest/Western Colorado Telehealth Study	Telehealth + Broadband Request	
		eConsult Community of Practice	for Application (RFA)	
	Demographic Data, Community Engagement, and Policy Framework	Cancer Diagnoses, Treatment, and Mortality Analysis	Support to safety net organizations in improving demographic data	

Key Community Feedback

- Health care providers reported that the lack of training for patient portals and the
 lack of support for patients to adopt telehealth were among their top health IT
 barriers. They also cited a challenging insurance reimbursement landscape for
 telehealth. The biggest provider needs for telehealth included better connectivity for
 facilities and patients, funding and resources for telehealth equipment, embedding
 telehealth workflows, reduced vendor fees, and support for patients to adopt and use
 digital tools. Providers expressed interest in using eConsults and Remote Patient
 Monitoring (RPM) services, but they needed more support to implement.
- Community members reported mixed use of patient portals about half of those
 participating in listening sessions had never used one. For those who had used portals,
 their experiences were positive, and they were enthusiastic about them. For people
 who had never used a patient portal, low digital literacy and a lack of awareness or
 support for using the portal were among the top reasons. It's important to note that

digital literacy could also represent a lack of usability of patient portal platforms, versus a lack of an end user's digital skills. Similarly, community members who had used telehealth generally had positive experiences and found it helpful. For those who had never used telehealth or were uncomfortable with it, barriers included digital literacy and a lack of awareness of what telehealth is and how it is used. Most important to community members was their need for education and assistance with using health IT tools such as patient portals and telehealth. They also emphasized the importance of trust, privacy and security, and protection of a person's information in health care.

Future Opportunities

- Support for community providers for telehealth equipment, vendors, and the development of telehealth workflows
- Campaigns to increase community trust and confidence in telehealth services
- Continued focus on digital inclusion and access
- Support local innovation, targeting smaller grassroots and community organizations and providers

Other Related State Initiatives

- Colorado Digital Access Plan
- Colorado Broadband Roadmap

Rural Connectivity

Goals of the Rural Connectivity Initiative

- Establish a sustainable model for rural technical connectivity, including:
 - O Connecting providers to Colorado's HIE network
 - O Supporting rural providers to adopt health IT, data-sharing and security, and analytics tools
 - O Technical assistance to support care coordination and quality measurement
- The Rural Steering Committee guides and champions this work

Strategy Alignment

	Policy / Project	Shared Solutions	Funding
Associated Projects	Rural Connectivity Program Sustainability Payment	Community Analytics Platform	Rural Connectivity Program Sustainability Funding
		Rural Data Mapping to analyze the reporting efforts within the HIE network	Management of Rural Connectivity Program Implementation

	Rural Data	Rural Environmental Scan to identify providers not participating in the Rural Connectivity Programs	Funding
Analytics Project	Cyber Security and Network Security work group	Centers for Medicare and Medicaid Systems funding match	

Key Community Feedback

- Health care provider barriers
 - O Health care providers reported that the top health IT barrier was cost, specifically for EHRs, other vendor fees, and HIE.
 - O Providers also reported redundant reporting requirements across state programs as a barrier and a particularly large burden on smaller facilities.
 - O Other top barriers involved challenges with EHRs, including poor vendor service, lack of accountability, a lack of reporting ability/analytics, integration challenges, lack of support and training, data gaps, and inefficient processes due to workarounds created when working in the EHR.
 - O Providers also reported challenges with disjointed systems that don't work well together such as HIEs and EHRs and HIE to HIE and data gaps within the HIE network due to facility/provider types that are missing or not contributing data, such as nursing homes, behavioral health, midwives.
- Health care providers' needs
 - O Health care providers' top needs included funding for health IT, particularly funds supporting small and rural organizations, interoperability between systems, and data standardization.
 - O Additionally, providers needed better coordination of reporting for state programs, one central state point of contact for data needs, funding to get reports built, and training on program requirements.
 - Other top needs included funding for upgrading and implementing new EHRs, as well as funding and training for cybersecurity, AI, and telehealth.

Future Opportunities

- Exploring the potential of a centralized reporting entity in response to streamlining one central point of contact for data needs and reporting to the state
- Researching additional funding opportunities to implement and/or expand cyber, physical, and network integrity in rural facilities
- Exploring a statewide EHR solution with technical assistance that helps ease the administrative and financial burden on health care providers
- Collaborating with the Colorado Perinatal Care Quality Collaborative (CPCQC) on addressing disparities among newborns and maternity deserts in rural Colorado
- Working with the Department of Corrections to connect jails to the HIE network

Other Related State Initiatives

- Rural Connectivity Program Sustainability Payments
- Medicaid eConsult Program
- Hospital Transformation Program (HTP)
- CDPHE Colorado Immunization Information System (CIIS)

Health Data Governance

Governance is an approach to manage availability, quality, integrity, and security of health-related data. The purpose of health information governance is to develop and implement policies, common processes, standards, and procedures to improve the accuracy and interoperability of health information. This initiative includes OeHI's Health Data Governance and Consent Management initiatives.

Goal of the Health Data Governance Initiative

Develop and implement policies, common processes, standards, and procedures to improve the accuracy and interoperability of health information and to form a community-centered health information governance model that aligns with nationwide standards. This initiative will result in high-quality, trusted data that can be readily and appropriately accessed and shared. This initiative includes leading the CoSHIE Data Governance Committee (DGC).

Strategy Alignment

	Policy	Shared Solutions	Funding
Associated Projects	Advises other state agencies, health care providers, and social care organizations on policies and regulations, and ensures OeHI compliance. These regulations include: • Health Insurance Portability and Accountability Act (HIPAA) • Confidentiality of Substance Use Disorder Patient Records (42 CFR Part 2) • Personal Identifying Information (PII) (2 CFR 200.79) • Colorado Information Security Policies (CISPs) and Technical Standards • National Institute of Technical Standards (NIST) Security Policies	CoSHIE Data Governance Model: Includes governing committees, policies, data sharing practices, and legal agreements eHealth Commission Data Governance Workgroup: An OeHI-led workgroup that includes state agencies, health insurance companies, Regional Accountable Entities (RAEs), health care and social organizations, and patient advocates	Included in specific initiative funding streams

Policy	Shared Solutions	Funding
 Coordinator (ONC) Cures Act Health Level 7 (HL7) Fast Healthcare Interoperability Resources (FHIR) 		

Key Community Feedback

• Health care providers expressed a need to adopt national standards for data and support interoperability between systems

Other Related State Initiatives

- Government Data Advisory Board (GDAB) Subcommittees
- Generative Artificial Intelligence (GenAI) Community of Practice

Consent Management

Goal of the Consent Management Initiative

Create a solution that gives Colorado residents granular control over their health and social data, empowering them to selectively share information while maintaining access to care.

Strategies

	Policy	Shared Solutions	Funding
	Provides guidance and support to state agencies, health care providers, and social care organizations to implement consent-based solutions that align with state	Leveraging the CoSHIE to support secure, streamlined data sharing	
Associated Projects	and federal policies These policies include: • Health Insurance Portability and Accountability Act (HIPAA) • House Bill 24-1217 • 42 CFR Part 2 • Colorado Data Privacy Act Interoperability and Patient Access Final Rule (CMS-9115-F) • ONC Cures Act	Consent Proof of Concept for CoSHIE	Included in specific initiative funding streams

Key Community Feedback

• Community members expressed a high preference for being able to provide consent to share their health information, with many preferring to limit information sharing.

Future Opportunities:

- Statewide Consent Repository Feasibility Study
- Work with state systems to implement consent into state benefits programs to allow seamless data sharing with CoSHIE
- Pursue consent pilots with different types of organizations to reduce fears around data sharing
- Develop a consent system that allows for the legally appropriate sharing of medical, behavioral, and social data to allow participants to give, edit, and revoke organization or provider access

Other Related State Initiatives

- BHA's Friends and Family Form
- <u>CDPHE's Colorado Women, Infants, and Children (WIC) Program</u> new management information system (MIS)

Measuring Progress

In alignment with OeHI values of accountability and transparency, this section describes the key activities to measure progress toward the three 2025 Roadmap goals. These key activities are informed by the feedback collected during OeHI's community engagement process.

Goal 1: Increase Community Engagement in Health IT Solutions

- Establish community advisory panels comprised of diverse stakeholders to gather input on health IT initiatives
- Develop a framework for a feedback loop that supports continuous improvement based on community insights for OeHI projects and share with other state agencies
- Develop a dashboard that visualizes OeHI projects at various stages and the connection to other relevant state agency goals, data, and projects for transparency

Goal 2: Support Secure and Appropriate Data Sharing

- Establish a task force to identify and adopt relevant HIT standards to facilitate interoperability across systems in alignment with national efforts
- Develop a comprehensive data mapping strategy to ensure consistent data integration and sharing across platforms
- Implement advanced cybersecurity protocols and training programs to protect sensitive health information and build trust among users
- Collaborate with stakeholders to create a unified health data exchange framework that aligns with national and local regulations
- Establish a working group of state agency programs to identify shared data requests from health care and community partners, with the goal of aligning ways this information is collected and identifying opportunities to decrease burden on community partners

Goal 3: Foster Responsible Innovation

- Develop a framework for evaluating the ethical implications and societal impact of new health technologies
- Engage diverse stakeholders, including patients, providers, and community organizations, in co-designing health IT solutions to address real-world needs
- Explore the creation of an AI community of practice for health care professionals, health innovators, and other partners to share best practices and resources for successful implementation in the health care setting
- Provide ongoing training and resources on responsible innovation practices for health IT professionals and organizations
- Explore opportunities to support local innovation for under-resourced health care organizations and community partners
- Develop a framework for future OeHI projects and funding
 - One of OeHI's biggest assets is flexibility to adapt to changing health IT needs in the state. However, with flexibility comes responsibility to ensure projects fit within OeHI's vision and mission. The team will develop a decision workflow

for considering its new projects in an effort to help those looking for funding and partnership understand what is within OeHI's scope.

Conclusion

OeHI and the State of Colorado appreciate all of the engaged stakeholders that provided feedback in virtual and in-person listening sessions and contributed to refreshing the Roadmap. The calls for funding, interoperability, support for secure and appropriate data sharing, fostering responsible innovation, and enhancing community engagement for health IT solutions are ways in which OeHI will meet the affordability, access, and equity goals. OeHI will continue to utilize the strategies outlined in the 2021 Roadmap to work toward these goals. Strategies from 2021 included identifying and collaborating on federal policies, datasharing and consent policies, as well as making strategic financial investments in responsible health IT strategies and shared solutions.

Colorado's updated Health IT Roadmap will continue to focus on a statewide and coordinated health technology landscape, digital tools and services, and opportunities to leverage different funding streams and policies. This roadmap is charting a path forward and driving innovative approaches to reduce costs, increase access, and address health equity issues across our state. The Office of eHealth Innovation will lead efforts and be effective champions of innovative health IT solutions that advance community health priorities to achieve a Colorado for all.

Appendix 1: Participating Organizations

The following agencies and organizations participated in the 2025 Roadmap refresh process through interviews, presentations, listening sessions, in-person site visits, and public comments.

A. Philip Randolph Institute (APRI), Denver

Chapter

AllHealth Network

Arkansas Valley Regional Medical Center

Aspen Community Health Aspen Valley Hospital Axis Health System Bright by Text

Buena Vista Public Library Conejos Library District

Delta Health

Denver Health and Hospital Authority

Diversus Health

Dolores Library District/Montezuma County

East Morgan County Hospital

Envida

Family Health West

Fort Morgan Public Library East Morgan County Hospital

East Morgan County Library District

Front Range Area Health Education Center

Gateway to Success

Grand River Health Hospital

Gunnison Valley Family Physicians

Haxtun Health

Health District of Northern Larimer County

Heart of the Rockies Regional Medical

Center (HRRMC) Hugo Public Library

Ignacio Community Library

InnovAge

International Survivors and Families

Empowered (iSAFE)
Julesburg Public Library
Keefe Memorial Hospital
Kids First Health Care
Kiowa Community Hospital

Kiowa County Memorial Hospital Lincoln Health Community Hospital

Meeker Family Health Center Melissa Memorial Hospital Memorial Regional Health

Mesa County Collaboration for the

Unhoused

Metamorphosis Pain Management

Northern Saguache County Library District Northwest Colorado Community Health Partnership (The Health Partnership)

Pioneers

Poudre River Public Library District Pueblo Community College - Health

Information Technology

Rangely Family Medicine/Rangely District

Hospital

Rio Grande Hospital

San Luis Valley Behavioral Health Group San Luis Valley Health Regional Medical

Center

Sedgwick County Memorial Hospital

Silver Key Senior Services
Silverton Public Library
Southeast Colorado Hospital
Southern Ute Health Center
St. Vincent Family Health Center
Summit County Community Health

Collaborative
Therapy Thursday

Ute Mountain Ute Health Center

Vail Health

Valley View Hospital

West Custer County Library District

Wezesha Dada Center Yuma District Hospital

Appendix 2: Definitions

- Critical Access Hospital (CAH): A rural hospital that has been certified by the Centers for Medicare and Medicaid Services (CMS) to meet certain requirements:
 - O Location: Located at least 35 miles from another hospital or CAH, or 15 miles if the area has mountainous terrain or only secondary roads
 - O Inpatient beds: No more than 25 acute care inpatient beds
 - O Emergency care: 24-hour emergency department services
 - O Length of stay: Average stay of no more than 96 hours for acute inpatient care
- Cybersecurity: Protecting networks, devices, and data from unauthorized access or criminal use and the practice of ensuring confidentiality, integrity, and availability of information.
- Data sovereignty: A Tribal Nations' inherent sovereign authority to administer the collection, ownership, and application of its own data, rooted in a Tribal nation's right to govern its people.
- Digital inclusion: Activities necessary to ensure that all individuals and communities have access to information, communication, and affordable technologies and the skills and resilience to use them. Digital inclusion ultimately leads to digital equity.
- Digital literacy: The ability to use digital technologies to find, evaluate, create, and communicate information.
- Health Information Exchange (HIE): Electronic health information exchange allows doctors, nurses, pharmacists, other health care providers, and patients to appropriately access and securely share a patient's vital medical information electronically — improving the speed, quality, safety, and cost of patient care.
- Health Information Technology (IT): A broad concept that encompasses an array of technologies. Health IT is the use of computer hardware, software, or infrastructure to record, store, protect, and retrieve clinical, administrative, or financial information.
- Interoperability: The ability of technology systems or software to exchange and make use of information.
- Rural health clinic (RHC): A designation by the Centers for Medicare & Medicaid Services to receive enhanced reimbursement rates for providing Medicare and Medicaid services. An RHC is an outpatient facility that provides primary care and other services to rural and underserved communities:
 - O Location: RHCs are located in rural areas that are designated as Health Professional Shortage Areas (HPSAs) or Medically Underserved Areas (MUAs).
 - O Services: RHCs provide primary care and routine laboratory services. They must use a team approach with physicians, nurse practitioners, physician assistants, and certified nurse midwives.
 - O Reimbursement: RHCs receive cost-based reimbursement for their services, which is a flat fee per visit. They can also collect higher reimbursement rates for government-funded individuals.
 - O Ownership: RHCs can be public, nonprofit, or for-profit. Independent RHCs are owned by physicians, while provider-based RHCs are operated by health care providers as part of a hospital or other facility.

- Social Health Information Exchange (SHIE): A network to securely share physical, behavioral, and social health information between providers involved in whole-person care.
- Telehealth: A broad term that encompasses a variety of telecommunications technologies and tactics to provide health services from a distance. It is not a specific clinical service, but rather a collection of means to enhance care and education delivery.