Key

System Backgrounds

New System | Operational System | Sunset System

SDOH

CRISPer — CRISPer project involvement

CRN — Community Resource Network project involvement

SDOH Flows

Other

eCQM — eCQM project involvement

Labs

Cancer

Immunizations

Clinical Data Exchange

AHCM1 — Accountable Health Community Model (DRCOG)

AHCM2 — Accountable Health Community Model (RMHP/ RAE1)

Additional process and architectural drawings exist

HRSN — Health Related Social Needs (an assessment tool used in AHCM for determining SDOH needs)

CHORDS Consumers

- Local Public Health Agencies
- CDPHE
- Universities
- Research Agencies

Consumers

CHORDS

Colorado Health Observation Regional Data Service

- Use EHR data to support public health evaluation and monitoring efforts
- Monitors tobacco, diabetes, marijuana, asthma, depression, BMI, adolescent pregnancy and contraception, opioids, and hypertension
- Support Model: CORHIO provides fed query support, CCMCN provides VQM for FQHC's, Popmednet is supported by a group from Harvard via federal funding via FDA and PCORI.
- Status: Ongoing operations

Federated Query

Common Data Model (Org 1)

Common Data Model (Org 2)

Common Data Model (Org n)

CHORDS Partners

CCMCN FQHC Submissions

AHCM2 Community Partners

DRCOG

Denver Regional Council of Governments

- Functions include AHCM support
- Support Model: Process is currently file based
- Status: Transitioning to TerraFrame

Reports

Payment

RMHP

Rocky Mountain Health Plans

- Functions include RAE1, and AHCM contracts
- AHCM is in conjunction with QHN
- Support Model: Internal Support
- Status: Ongoing Operations

SDOH Services

Referral with HRSN Screening (eMail)

ADTs/HRSN Data

Navigation Services

Referrals

AHCM1 Community Partners

Boulder Connect

- Functions include integration of community providers and supports such as BH, medical, and social services providers
- CRISPer user interface
- Agencies include Housing and Human Services, Public Health, and Community Services
- Support Model: Internal support on the IBM/ Salesforce platform
- Status: Ongoing Operations

Geospatial Data From CDPHE

Provider Data

ADT and Lab

Shared System User Interface

CRISPer Interface

Vital Statistics

Commercial Labs

ELR Feeds

Orders and Results

Lab Orders/Results (direct)

RAEs

Regional Accountable Entities

- Provide administrative services to members on behalf of HCPF under contract
- Provide capitated behavioral health services
- Support Model: RAEs have their own internal systems
- Status: Ongoing operations

CCMCN

Colorado Community Managed Care Network

- Provides statewide data warehousing, analytics, and technical support services to safety net providers
- Provides care management application
- Provides PCMH application
- Subcontractor in eCQM effort
- Provides community resource listing and referral online service
- Support Model: Internally supported tools using industry standard COTS software and professional services.
- Status: System is operational

2-1-1

Help Resource Registry

- Provides registry of Colorado Community Services and Supports
- Provides Web lookup for services based on diagnosis. Receives diagnosis codes and returns resource list in support of CRISPer
- Support Model: Supported by the Colorado 211 Collaborative consisting mostly of United Way organizations
- Status: Ongoing operations

QHN

Quality Health Network

- Health Information Exchange for the western slope of the state
- Users include hospitals, provider networks, individual providers, labs
- Provides Community Resource Network (CRN) for SDOH
- Support Model: Self-supported
- Status: Ongoing operations

Key ADT Feeds

CORHIO

Colorado Regional Health Information Organization

- Health Information Exchange for the eastern portion of the state
- Users include hospitals, provider networks, individual providers, labs
- Implements CRISPer Referral Hub
- Perform follow-up analysis on Diabetes Prevention Programs
- Support Model: Self-supported
- Status: Ongoing operations

Diabetes Case Data

DPP

Diabetes Prevention Program

- CDC Sponsored program for the prevention of type II diabetes
- Functionality includes inbound referral, case tracking and intervention, data analysis, and outbound referral to agencies
- Patients are referred by providers
- Users include CDPHE staff
- Support Model: Unknown
- Status: Ongoing operations

Immunizations (from HIE)

Cancer Reports (from HIE)

Claims (from CIVHC)

Clinical Data (from EHRs)

Web UI

Administrative Services

Case Management Services

Child Care Support Services

Child Support Services

Eligibility Assistance

Family Services

Health Plan Shopping

Clients

Health Care Services

Medications

Applications for Benefits

CRISPer Diagnosis

CRISPer Resource List

HRSN Data

Clinical Data Exchange

Lab Orders/Results (via HIE)

Cancer Case Report (via HIE)

Immunizations (via HIE)

Provider Community

DPP Referrals (1-800-DIABETES)

CRISPer Referrals and Reports

Cancer Case Reports (direct to CR)

Immunizations (direct to IR)

Lab Requests and results; Newborn Screening Data; ELR Reporting

Prescriptions

Rx

PDMP via HIE

Rx Claims

PDMP (direct)

HIE to PDMP

Rx Payments

Provider Credentialing

Medical Claims

Medical Payments

Additional RAE Data

Eligibility (HIPAA 834 Transactions) and KPI Reports

Presumptive Eligibility UI

Demographics (eligibility)

Eligibility Case Referral

Denver County

Nightly Batch

ICON/Eclipse

Office of the State Court Administrator

- Functions include case management for court system
- Users include DOJ and OBH employees
- Support Model: Unknown
- Status: Ongoing operations

Probation system UI

Judicial System Database

- Functions include OBH access to database
- Users include DOJ and OBH employees
- Support Model: Unknown
- Status: Ongoing operations

Database UI

BH Management Services

OBH Worker

Trails UI

Social Worker

C4HCO

Connect for Health Colorado

- CO's independent health benefit exchange
- Includes separate eligibility calculator to support referrals to CBMS and calculate subsidies
- Support Model: Outsource contract to CGI
- Status: Ongoing operations

PEAK

Program Eligibility and Application Kit

- Functions include Public Portal for eligibility screening, application and determination. Includes cash, early childhood, food, and medical assistance programs.
- Users include public users seeking benefits
- Support Model: Outsource contract to Deloitte running on Salesforce cloud platform
- Status: Operational

Trails

Statewide Automated Child Welfare Information System (SACWIS)

- CO's SACWIS system, which provides child abuse/neglect, adoption, and foster care case tracking for CDHS Division of Child Welfare
- Users include agency social workers and legal system staff
- Support Model: Self-Supported
- Status: Implemented in 2001 and in need of replacement.

OOHC Eligibility Case Referral

CBMS

Colorado Benefits Management System

- Determines eligibility for Medicaid, CHIP, MAGI, SNAP, and TANF
- Users include state staff
- Support Model: Outsource contract to Deloitte
- Status: Ongoing Operations

Eligibility

Support Case Referral

Eligibility Case Referral

Eligibility Worker

ACSES

Automated Child Support Enforcement System

- Functions include Child support case tracking for CSE state staff
- Users include state CSE staff
- Support Model: Self supported
- Status: Ongoing operations

Third Party Insurance

CS Enforcement Worker

Crisis System

Office of Behavioral Health

- Functions include call center hotline, intake, mobile apps for both addicts and first responders
- Addict app called "OPtaxfe".
- First Responder app provides help with administering Narcan
- Support Model:N/A
- Status: Ongoing Operations

CHATS

Child Care Automated Tracking System

- Supports Colorado Child Care Assistance Program (CCCAP)
- Users include county CCCAP, and state staff (700 users)
- .Net, Oracle, BizTalk, SSRS, Salesforce cloud
- Support Model: Developed by Deloitte and maintained by state staff
- Status: Ongoing operations

County CCCAP Worker

Ariel

Long-Term Care & Case Management Tool

- Functions include Care/Case Management tool for HCBS Waiver programs including assessments, care plans, service authorization, referrals, and interventions
- Users Include: County Care Managers
- Support Model: Axis Point product acquired by Medecision
- Status: Medecision replacing Axis Point with their Aerial product

Service Authorization

County Care Manager

BIDM

Business Intelligence and Data Management

- Medicaid data warehouse implemented by IBM Watson Health
- Users include Medicaid staff, providers, other depts, other vendors, Univ of CO (DUA)
- Support Model: Outsource contract to IBM Watson Health
- Status: Ongoing operations

Claims/Provider/Fin

Claims/Provider/Fin (Rx)

Claims/Recoveries

PA Requests

PA Results

Eligibility

Adjudicated Claims

MMIS

Medicaid Management Information System

- DXC's InterChange MMIS system. Claims, provider, member, TPL, reporting and analysis
- Users include fiscal agent staff, state staff, and Medicaid providers
- Support Model: Fiscal agent contract with DXC
- Status: Ongoing operations

PBM

Pharmacy Benefits Manager (Medicaid)

- Magellan's pharmacy management system with professional services. Provides claims processing , rebate management, and reporting services to HCPF for Medicaid members
- Users include Magellan staff, state staff, and RX providers
- Support Model: PBM contract with Magellan
- Status: Ongoing operations

PDMP

Prescription Drug Monitoring Program

- Functions include monitoring of scheduled drugs
- Users include prescribers, pharmacies, and agency users
- Includes Web Portal
- Includes connectivity to HIE
- Support Model: Apprise products; vendor supported.
- Status: Ongoing operations

UM

Medicaid Utilization Management

- Functions include prior authorization for Medicaid patients
- Users include eqHealth Staff, providers submitting prior auth requests, state staff
- Support Model: Outsource contract to eqHealth
- Status: Ongoing operations

TPL

Third Party Liability

- Functions include tracking of non-Medicaid coverage provided for Medicaid members and recovery processing
- Users include Medicaid TPL and recovery staff
- Support Model: Outsource contract to eqHealth
- Status: Ongoing operations

Immunizations Given

Medicaid Claims

CIVHC

Center for Improving Value in Health Care

- Functions include maintenance of Colorado's All Payer Claims Database, research and analytics, and data services
- Users include state agencies, providers and other private sector stakeholders
- Support Model: IT Outsource Vendor
- Status: Ongoing operations

Claims (40 + Payers)

Payers

NPPES

NPPES Provider Feed

CMS

CMS.GOV

CENTERS FOR MEDICARE & MEDICAID SERVICES

Provider DB/ Directory

Provider Database

- Functions include matching and "best record" generation from multiple sources of provider data including MMIS, APCD, NPPES, State Licensing (from DORA), and 6 others
- Users include CDPHE and DORA staff to determine provider shortages and incentive plans
- Support Model: Self supported by CDPHE using MS SQL and BizTalk
- Status: Project is operational, but new. State intends to expand into Provider Directory

License Feed

State License System

Provider Licensing

- Functions include state provider licensing
- Users include providers, DORA staff, and public
- Support Model: Unknown
- Status: Ongoing operations

APCD Provider Feed

MMIS Provider Feed

CIIS

Colorado Immunization Information System

- Functions include immunizations given and inventory management
- Users include CDPHE staff, and providers
- Support Model: Self-supported by CDPHE
- Status: Ongoing operations with connectivity to provider EMRs

CCCR

Colorado Central Cancer Registry

- Functions include cancer case tracking, and cancer research support
- Users include CDPHE staff, and providers
- Support Model: Self-supported
- Status: Ongoing operations

Vital Statistics

Colorado Vital Statistics Registry

- Functions include birth/death registry
- Users include CDPHE staff
- Support Model: Self-supported
- Status: Ongoing operations

State Lab

Colorado Department of Public Health and Environment Lab

- Performs metabolic screening of newborns
- Microbiology lab tests
- Users include CDPHE staff, hospitals, and providers
- Support Model: Vendor supported
- Status: Ongoing Operations

ELR

Reportable Disease

Public Health Reportable Disease Registry

- Tracks reportable disease incidents. System is CDC's NEDSS based system, which includes Rhapsody
- Users include CDPHE epidemiologists
- Support Model: Local Resources
- Status: Ongoing operations

OeHI

Office of eHealth Innovation

Colorado Health Information Technology Landscape

April 25, 2019: Added CHORDS information from website -jw