

# Adams County Health Department Strategic Plan

Goal: Data and Technology

Oct 17, 2024



# Data & Technology Strategic Plan Members

## Health Data and GIS Program

Responsible for health and community analytics. Development of data dissemination products including presentations, reports, web-based data products. Development of data applications for facilitating program workflows.

### People

4 FTE on the Data Team

3 FTE data related

County GIS/IT Support

### Strategic Plan Members

2 Staff and 2 Directors

### Software/Hardware

#### ESRI

##### ArcGIS Pro/AGOL

- 35 Creators/15 Mobile Workers
- Health Department AGOL instance

##### ArcGIS Enterprise

- 30 Creators/40 Mobile Workers
- Internal only

##### ArcGIS Knowledge

#### FME

- 8 FME Desktop
- FME Server

#### SQL

- SQL Database

#### Webserver

- <https://phweb.adcogov.org/web/>

# Goal: Data and Technology

Over the next 3-5 years, support the public health workforce and partner organizations by improving data skills and public health data infrastructure to make data more accessible and to drive programmatic decision-making.

## Objectives

Develop and maintain health department **capacity** so staff, academic institutions, and community-based partners can **implement** and **use public health data/information**.

Ensure health department program **data collection** and storage is **streamlined** to meet the needs across the health department.

Develop the components of an **"Integrated Data System"** that will tie together data across the health department to support programmatic decision-making and objectives across the strategic plan.

Ensure programs and the public have **access to systems** where they may access data and information to make **better decisions** for public health topics.

Position ACHD at the forefront of innovation, leveraging **artificial intelligence (AI)**, **machine learning (ML)**, and emerging technologies to transform operations, enhance client-centric services, and champion health equity across our county.



**What is a health department  
integrated data system?**

## What is a health department integrated data system?

The Adams County health Department Integrated Data System is a system of governance and documentation for data/processes/outputs and that ties these pieces together across the health department to support programmatic decision-making and objectives as needed by users.



## Adams County Health Department Divisions

**Environmental Health**

**Epidemiology & Data Science**

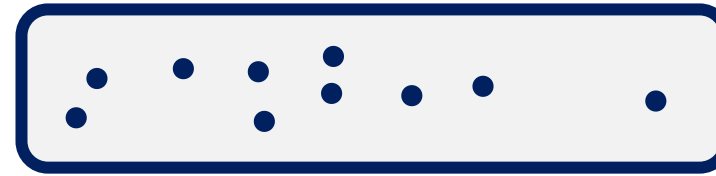
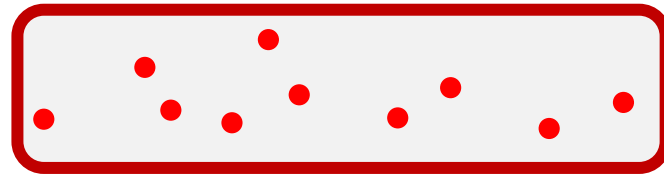
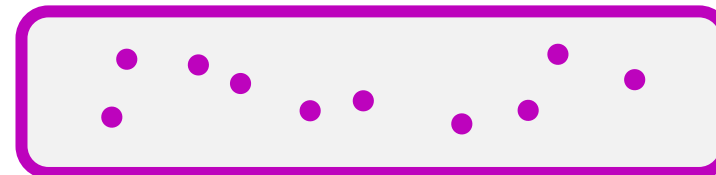
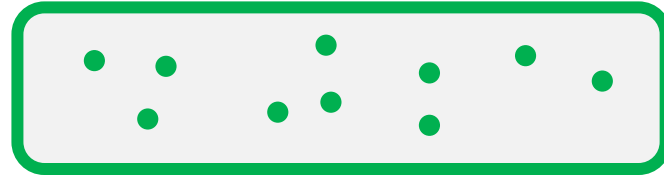
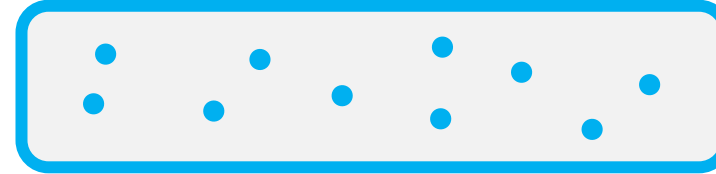
**Nutrition & Family Health**

**Nursing**

**Health Equity & Strategic Initiatives**

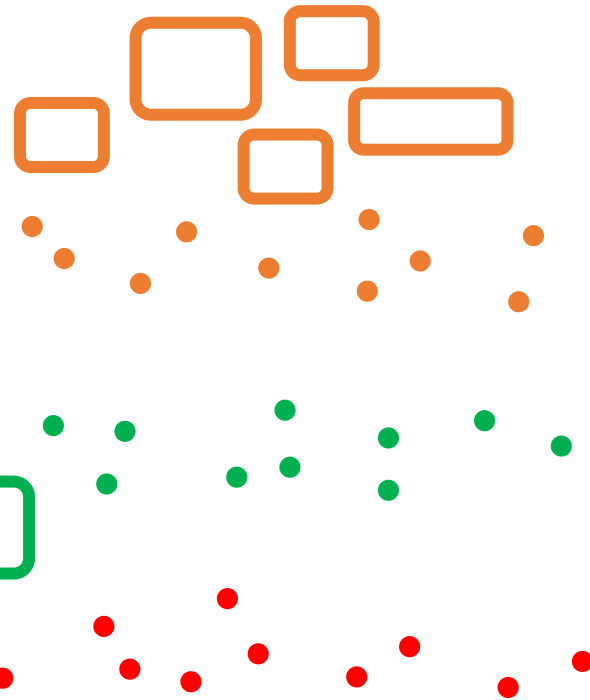
**Operations**

## Adams County Health Department Divisions

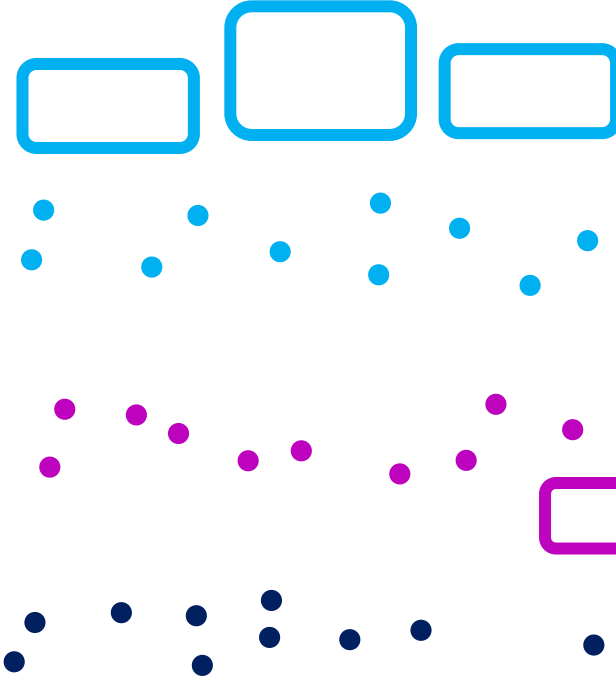




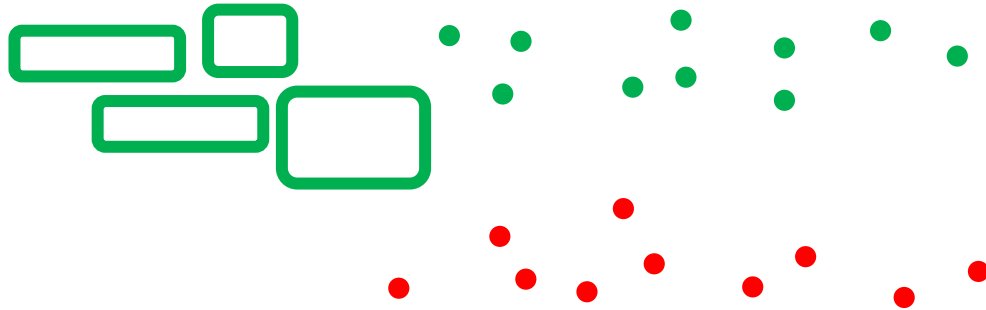
### Environmental Health



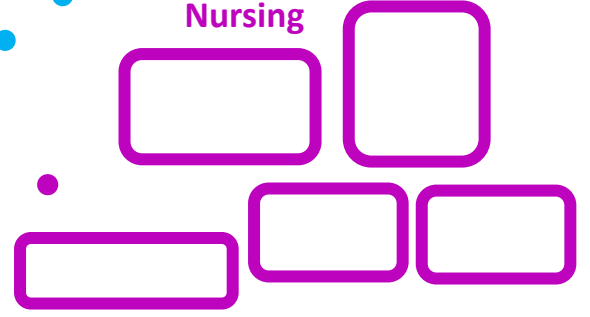
### Epidemiology & Data Science



### Nutrition & Family Health



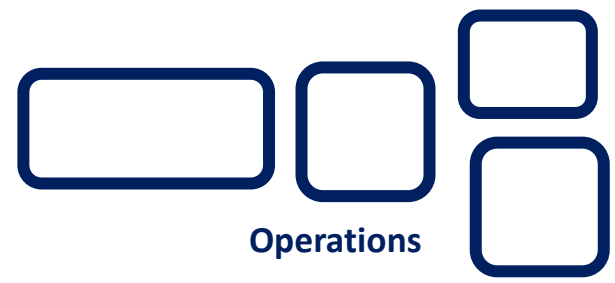
### Nursing



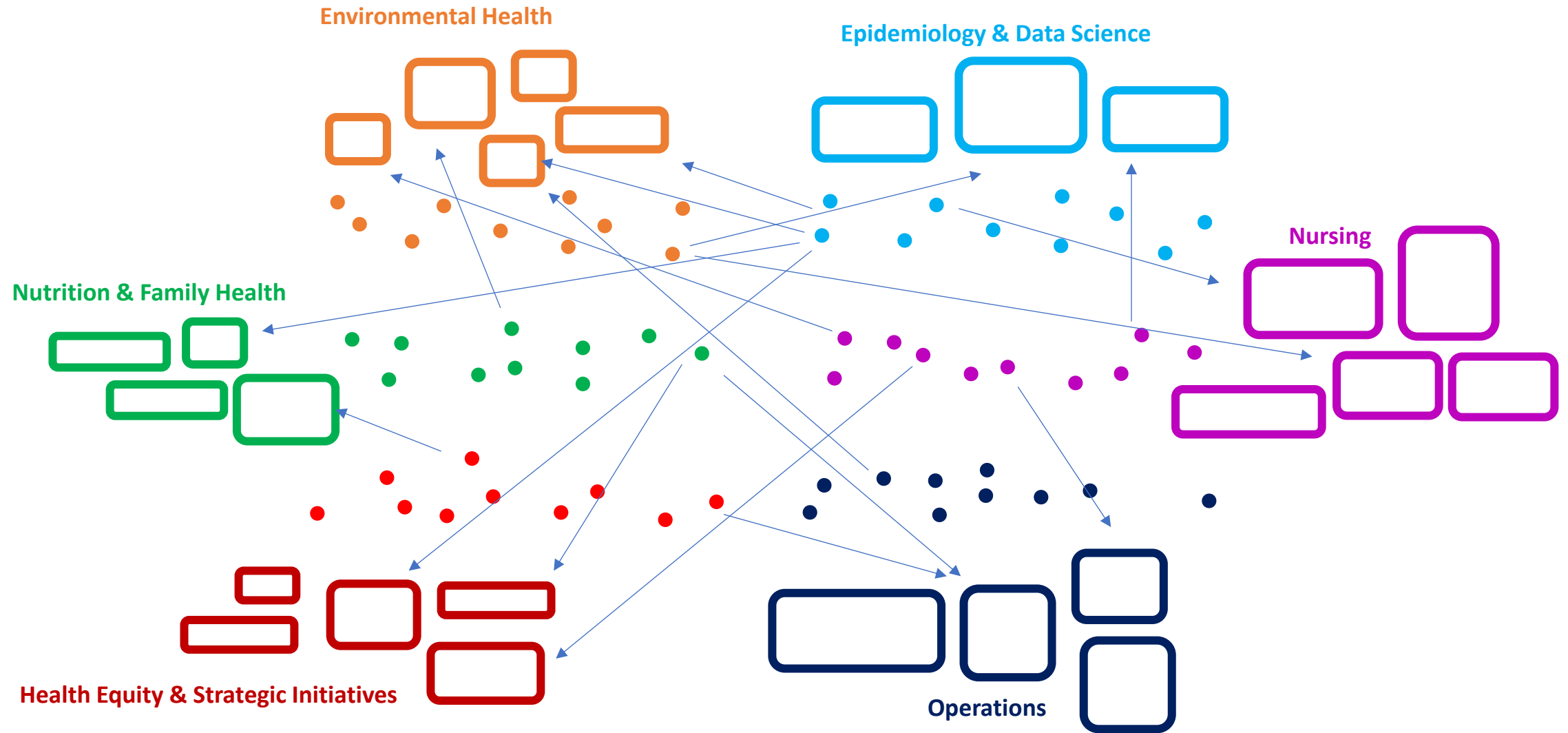
### Health Equity & Strategic Initiatives

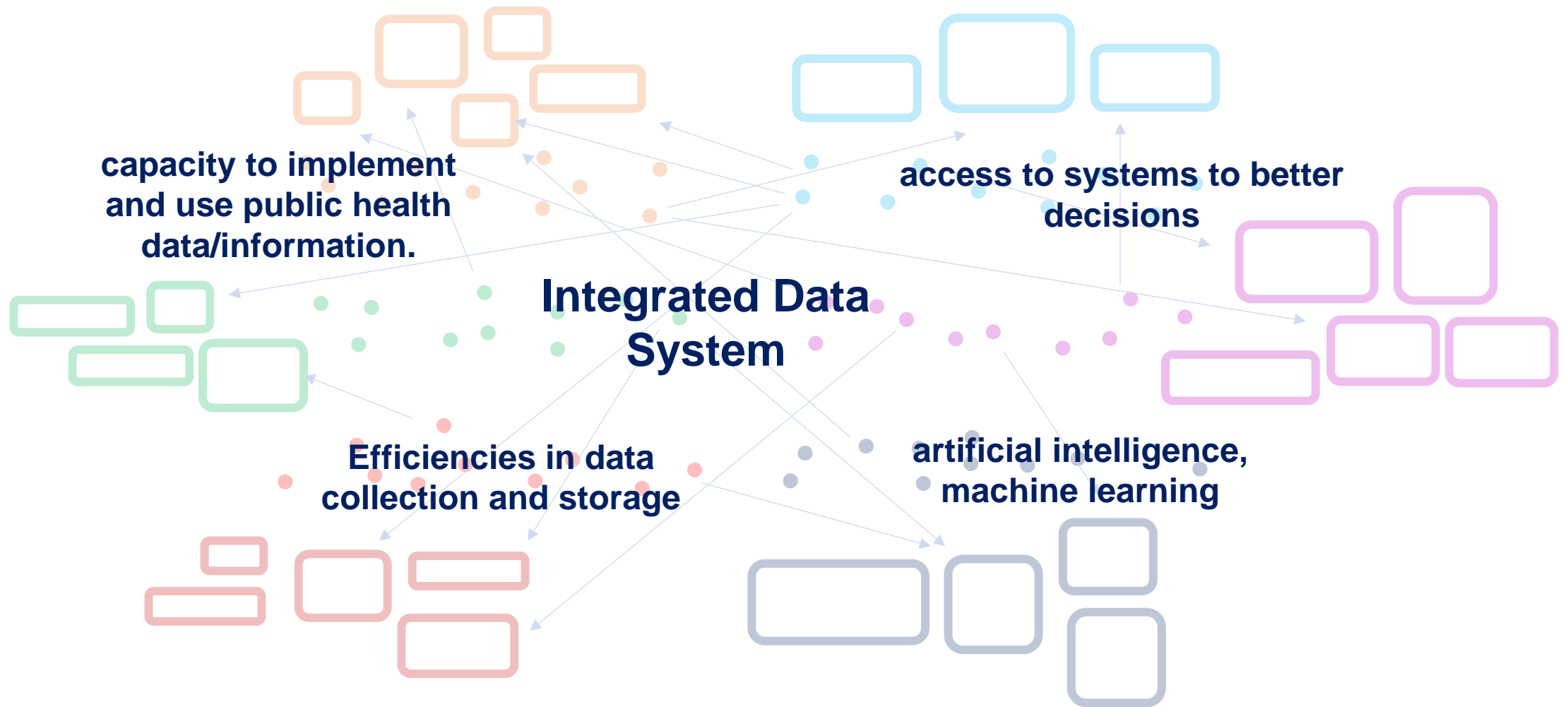


### Operations





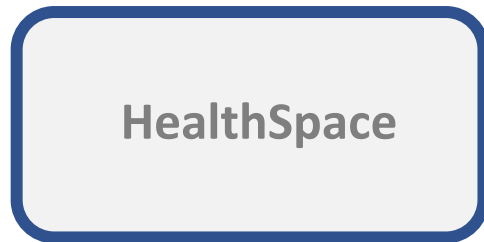




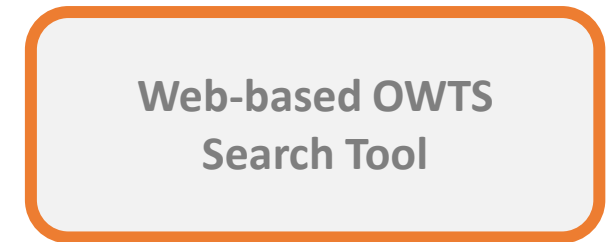
## Use-Case 01

Create a web-based tool to allow anyone in the public to search for septic records permitted by Adams County.

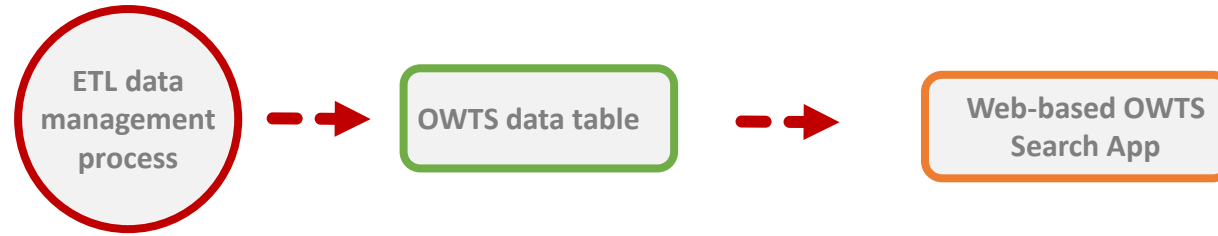
Where does the data live?



What is the data process?



What is the final deliverable?



**Governance Document**  
OWTS ETL Process  
Use-case: Create a data table of OWTS records to be used by the health dept

**UC01**

```

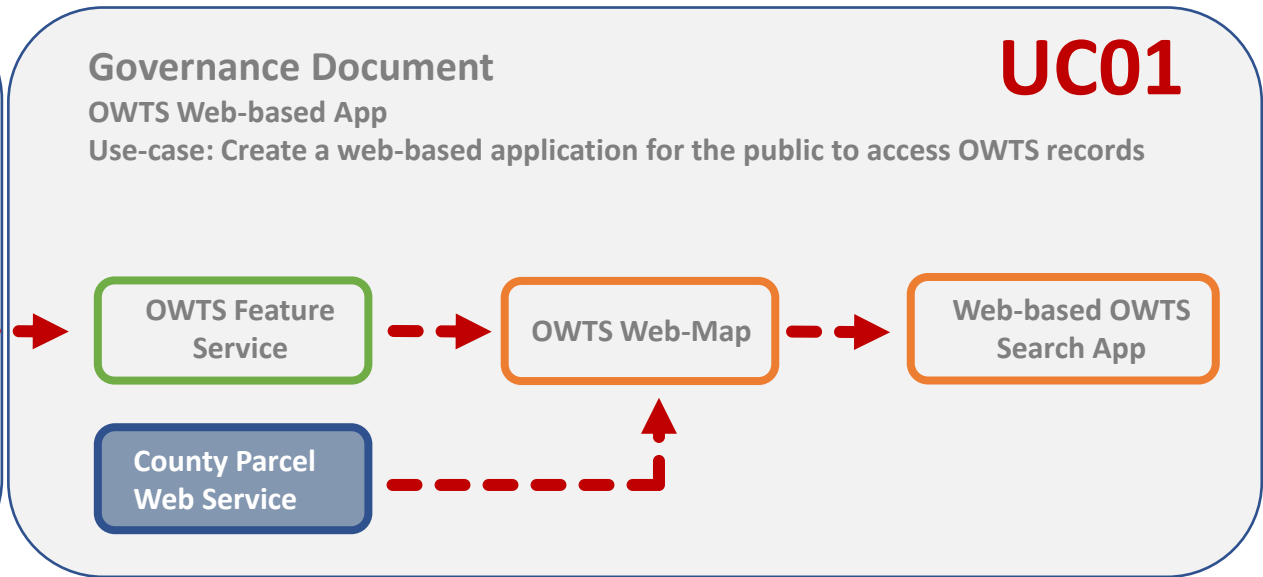
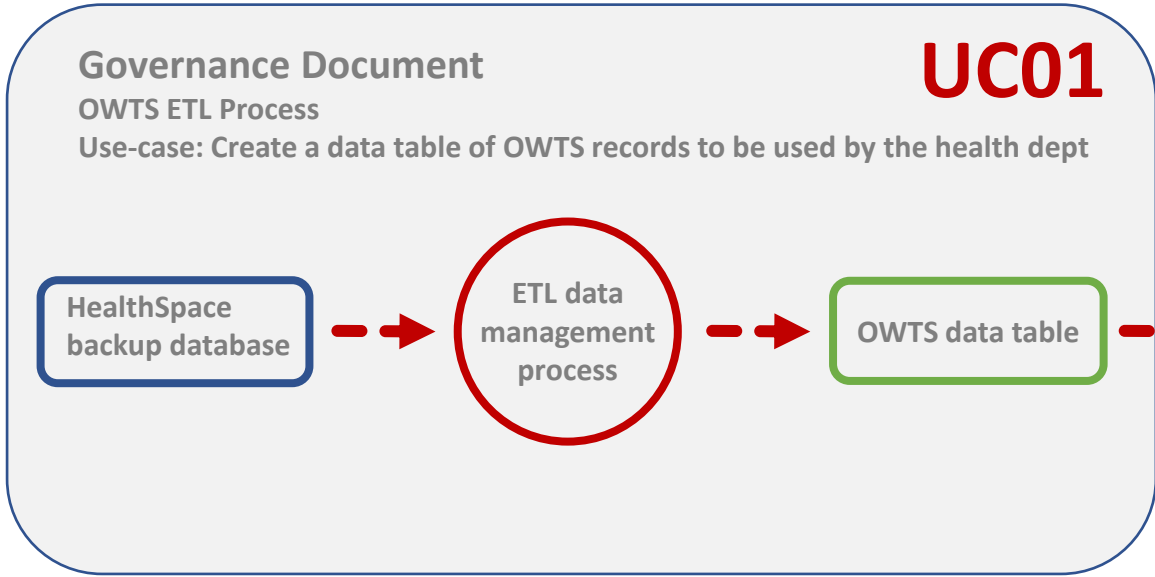
    graph LR
      A[HealthSpace backup database] -.-> B[OWTS data table]
  
```

**Governance Document**  
OWTS Web-based App  
Use-case: Create a web-based application for the public to access OWTS records

**UC01**

```

    graph LR
      A[HealthSpace backup database] -.-> B[OWTS Feature Service]
      B -.-> C[OWTS Web-Map]
      D[County Parcel Web Service] -.-> C
  
```



# What Does Governance Documentation Mean?

- Governance Document**  
OWTS ETL Process  
Use-case: Create a data table of OWTS records to be used by the health dept
- Overview
  - User Access
  - Update Cycle
  - File locations
  - Data sources
  - Data workflow map
  - HealthSpace Documentation
    - Database tables
    - Data dictionary
  - ETL documentation:
    - Data management steps
  - Output Table
    - Data dictionary

- Governance Document**  
OWTS Web-based App  
Use-case: Create a web-based application for the public to access OWTS records
- Overview
  - User Access
  - Update Cycle
  - File locations
  - Data sources
  - Data workflow map
  - Feature Service(s)
    - Data dictionary, URL, Ownership
  - Web-Map
    - Configuration, URL, Ownership
  - Application
    - Configuration, URL, Ownership

## Use-Case 01

Create a web-based tool to allow anyone in the public to search for septic records permitted by Adams County.

+

## Use-Case 02

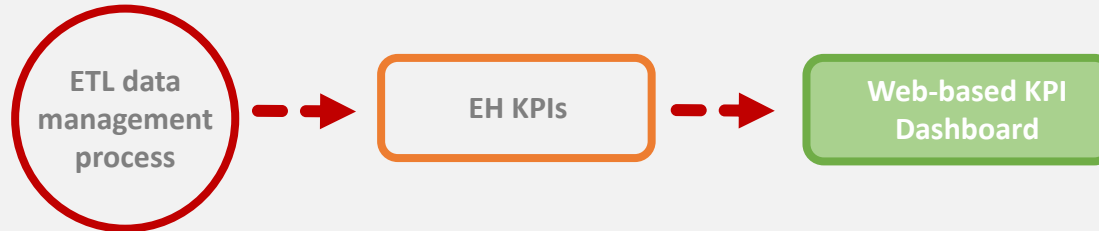
Automatically report OWTS KPIs for the Environmental Health



### Governance Document

EH KPI Reporting: OWTS

Use-case: Automatically capture KPIs for OWTS workflows for reporting dashboard



- Number of new permits
  - YTD, monthly
- Number of repairs
- Time for a permit
- Number of inspections with title transfers

**UC02**

### Governance Document

OWTS ETL Process

Use-case: Create a data table of OWTS records to be used by the health dept

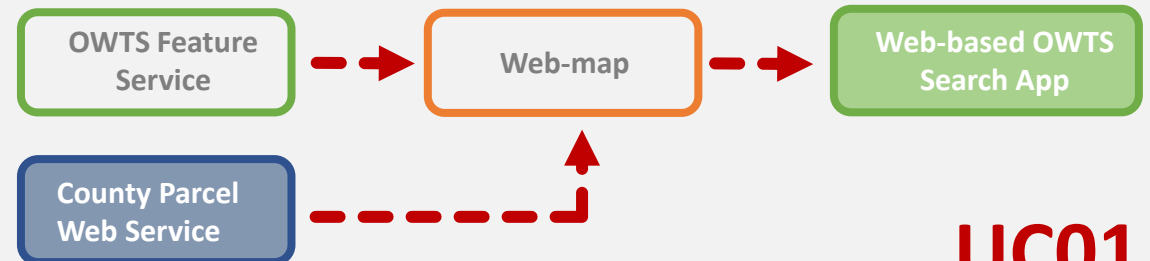


**UC01,02**

### Governance Document

OWTS Web-based App

Use-case: Create a web-based application for the public to access OWTS records



**UC01**





## Use-Case 01

Create a web-based tool to allow anyone in the public to search for septic records permitted by Adams County.

+

## Use-Case 02

Automatically report OWTS KPIs for the Environmental Health

+

## Use-Case 03

Create parcel-based search tool to find environmental health records

Historic Landfills Web Service

County Parcel Web Service

**Governance Document**  
**UC03**  
 EH Parcel Based Search Tool: EH Complaints  
 Use-case: Create a data table of complaint records to be used by the health dept

Web-based Parcel Look-up Search App

**Governance Document**  
**UC02,03**  
 EH Parcel Based Search Tool: EH Complaints  
 Use-case: Create a data table of complaint records to be used by the health dept

ETL data management process → EH complaint data table

**Governance Document**  
**UC02**  
 EH KPI Reporting: OWTS  
 Use-case: Automatically capture KPIs for OWTS workflows for reporting dashboard

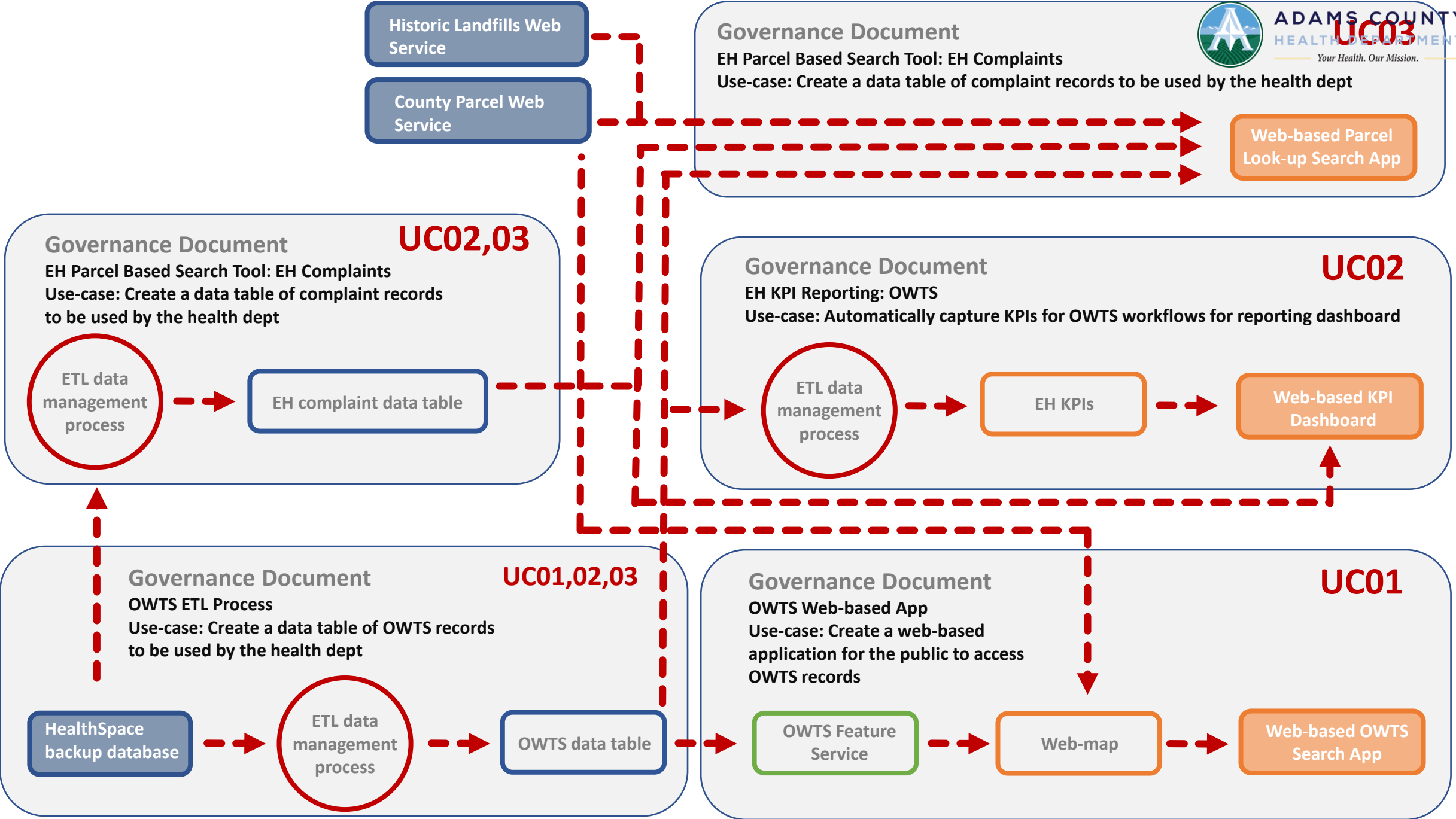
ETL data management process → EH KPIs → Web-based KPI Dashboard

**Governance Document**  
**UC01,02,03**  
 OWTS ETL Process  
 Use-case: Create a data table of OWTS records to be used by the health dept

HealthSpace backup database → ETL data management process → OWTS data table

**Governance Document**  
**UC01**  
 OWTS Web-based App  
 Use-case: Create a web-based application for the public to access OWTS records

OWTS Feature Service → Web-map → Web-based OWTS Search App



# Environmental Health Use-Cases



Create search tool for the public to find septic system records

Create parcel-based search tool to find environmental health records

Create an elevated blood lead case management system

Create a process to capture retail food inspection records from HealthSpace

Create a process to capture childcare inspection records from HealthSpace

Create a process capture, store, manage, and provide access to climate data

Create a process to automate environmental health KPI reporting

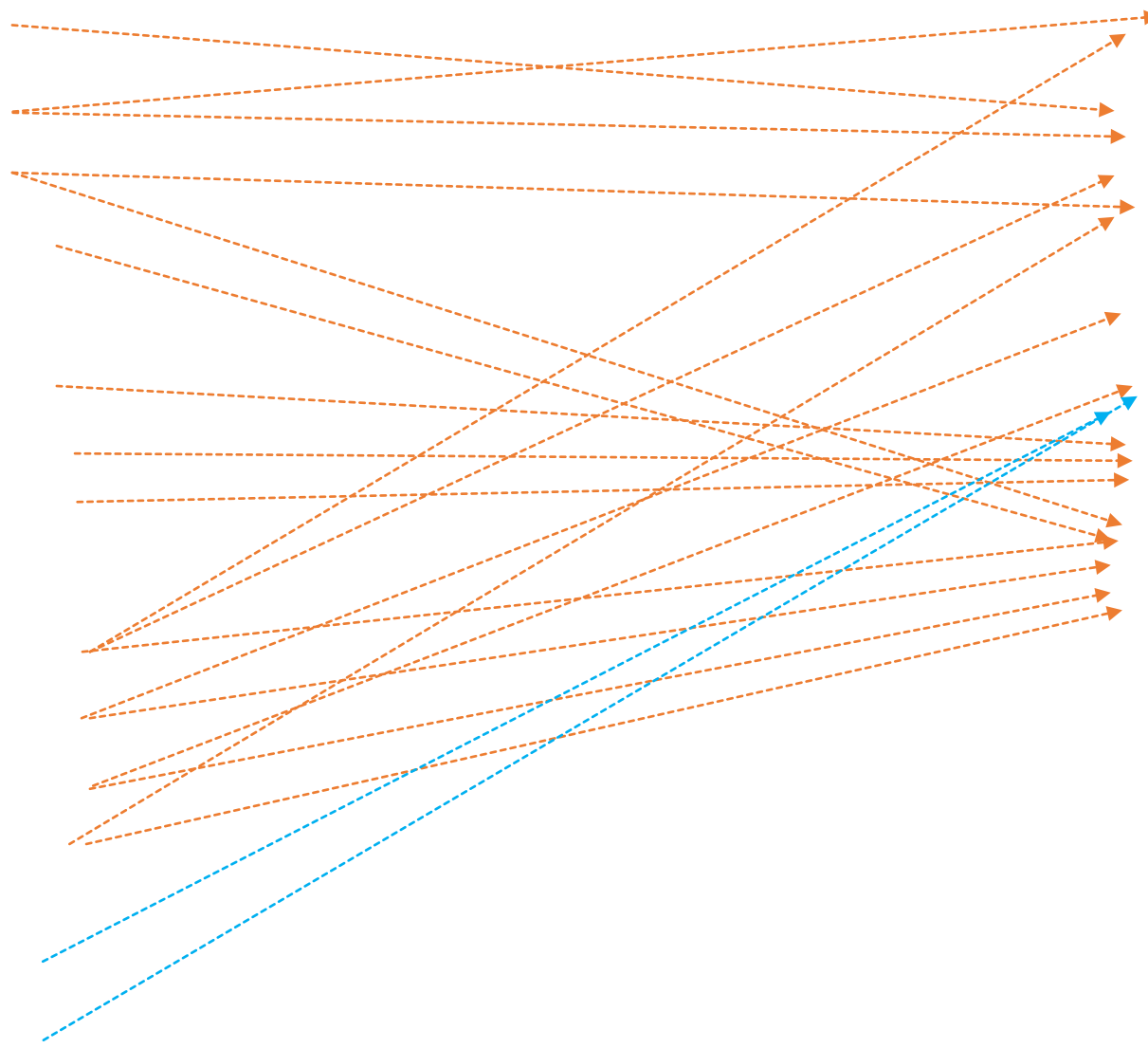


## Datasets

- Historic Landfill
- Parcel Data
- Lead Case Data
- Outbreak Reporting
- Climate
  - Air
  - Precipitation
  - Temperature
- HealthSpace Database
  - Septic
  - Retail Food
  - Childcare
  - Complaint
- Immunization
- Communicable Disease

## Environmental Health Use-Cases

- Septic
- Parcel-Based Search
- Lead Case Management
- Retail Food
- Childcare
- Climate
- KPI Reporting



# Environmental Health Use-Cases



Create search tool for the public to find septic system records

Create parcel-based search tool to find environmental health records

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Create a process to automate environmental health KPI reporting

# Communicable Disease Use-Cases

Create a communicable disease surveillance system

Create a process to automate communicable disease KPI reporting

# Datasets

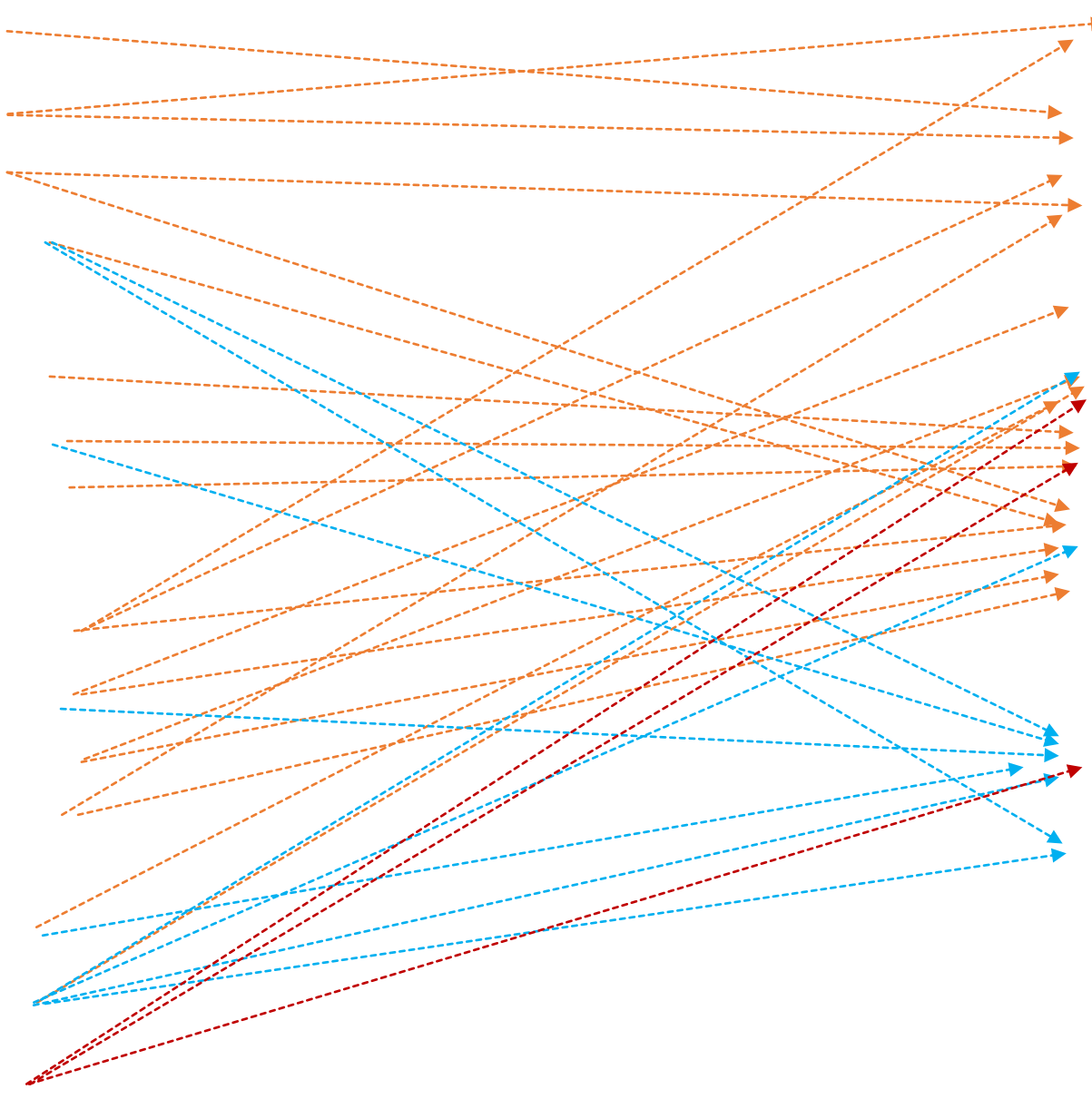
- Historic Landfill
- Parcel Data
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  - Septic
  - Retail Food
  - Childcare
  - Complaint
- Immunization
- Communicable Disease
- Amer. Comm. Survey

# Environmental Health Use-Cases

- Septic
- Parcel-Based Search
- Lead Case Management
- Retail Food
- Childcare
- Climate
- KPI Reporting

# Communicable Disease Use-Case

- Communicable Disease Surveillance System
- KPIs



# Health Department Data and Workflow Applications

## Environmental Health

- Septic Lookup tool
- Parcel-Based Search
- Lead Case Management
- Retail Food
- Childcare
- Climate Surveillance System

## Nutrition & Family Health

- Diabetes Education Case Management
- Farmers Market Participant Tracking and Site Selection

## Epidemiology & Data Science

- Communicable Disease Surveillance System
- EPR Situational Awareness
- Internal Health Department Network and Workgroup Analysis
- COVID19 Resource Box Distribution System
- EPR Activation Communication System

## Nursing

- Harm Reduction Data System
- Health Enrollment Case Management
- School IZ Tracking

## Health Equity & Strat. Initiatives

- Health Data Hubs

- IZ Facility Connector

## Operations

- Internal Client Referral System
- Central Patient Safety Reporting
- Population Health Data Portal

# Goal: Data and Technology

Over the next 3-5 years, support the public health workforce and partner organizations by improving data skills and public health data infrastructure to make data more accessible and to drive programmatic decision-making.

## Objectives

Develop and maintain health department **capacity** so staff, academic institutions, and community-based partners can **implement** and **use public health data/information**.

Ensure health department program **data collection** and storage is **streamlined** to meet the needs across the health department.

Develop the components of an **"Integrated Data System"** that will tie together data across the health department to support programmatic decision-making and objectives across the strategic plan.

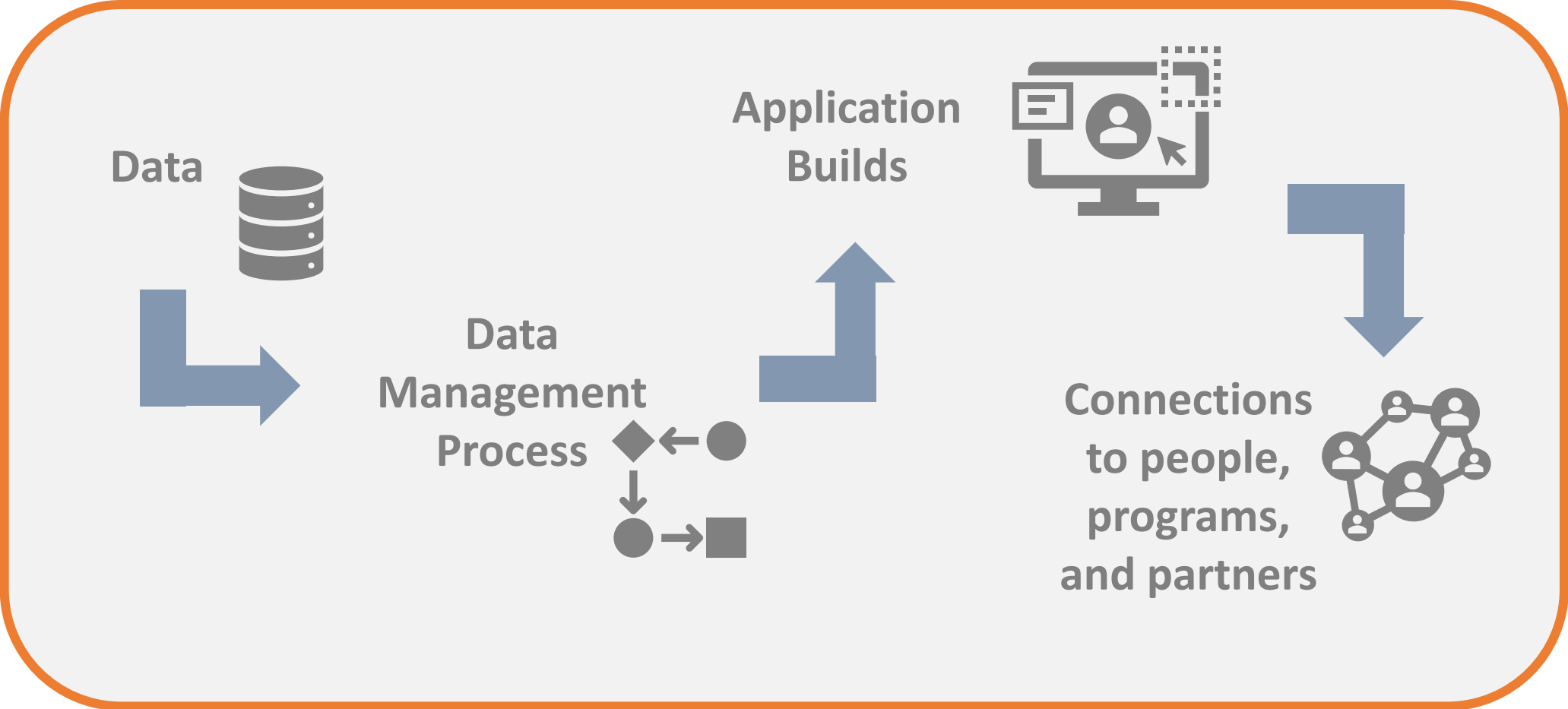
Ensure programs and the public have **access to systems** where they may access data and information to make **better decisions** for public health topics.

Position ACHD at the forefront of innovation, leveraging **artificial intelligence (AI), machine learning (ML)**, and emerging technologies to transform operations, enhance client-centric services, and champion health equity across our county.



# Integrated Data System

## Integrated Data System



# Adams County Health Department Strategic Plan

Goal: Data and Technology

Update Oct 2024



ADAMS COUNTY  
HEALTH DEPARTMENT  
*Your Health. Our Mission.*

**Objective 1:** Develop and maintain health department capacity so staff, academic institutions, and community-based partners can implement and use public health data/information.

## Actions/Tasks

### Coordination with ITi to plan and initiate support

Ensure ITi staff are trained in the software and hardware necessary; acquisition of necessary software licensing, staff resource capacity

### Develop staff skills and program capacity to improve data driven decisions

Communication plans and ACHD program outreach around their role in data; Develop a suite of data/systems oriented trainings; Evaluation of learning processes

### Data Team Support

Ensure data team staff are trained and are skilled now/future in the data/software/hardware necessary to support obj.; update job descriptions; document all skills needed; request FTE

## Where are we at?

- **Developing Data and Systems Learning Opportunities**
  - All staff data trainings (6)
  - Reoccurring topic specific practicums and capstones (3)



**Objective 2:** Develop the components of an "Integrated Data System" that will tie together data across the health department to support programmatic decision-making and objectives across the strategic plan.

## Actions/Tasks

### Data Governance

Develop and templates and procedures for all data processes; systems for storing and managing data processes and governance; UX and Branding for web applications

### Data Sources

Establish processes to access data from systems (EHR, Healthspace, EpiTrax); Manage all uses cases for data access; Manage all data dictionaries for all datasets

### Hardware

Develop hardware governance; Finish ArcEnterprise buildout, Build out ACHD web-server; planning for all future hardware needs

### Software

Develop software governance, inventory all software within ACHD and uses cases; determine and develop application for storing and managing all IDS governance and workflows

## Where are we at?

- **Coordination with County GIS**
  - Build out of public facing web-server
  - Build out of internal ArcGIS Enterprise
- **Creating a new data project management process to collect metadata specific to the needs of the Integrated Data System**
- **Data Sources**
  - Developed internal system to capture all Healthspace (EH) data
  - Building process/system to capture Patagonia (Nursing) data.
  - Building a process/system to capture EpiTrax (Communicable Diseases)
- **Data Governance**
  - Updating all data dictionaries

**Objective 3:** Ensure programs and the public have access to systems where they may access data and information to make better decisions for public health topics.

## Actions/Tasks

### Building Data Systems to Access Data Portals

Communicable disease surveillance system; School data portals; EH parcel lookup; SDoH data portals; Climate data portal; Lead case management; ACHD KPIs

### Building Climate/Health Database Systems

30 years daily min/max temp; 30 years daily precip; daily air quality; other major regional climate events

### SDoH Database Systems

Social determinants of health screening tools

### Build Division/Program KPI Processes and Dashboards

Systems and processes to automatically pull and calculate program/division KPIs

## Where are we at?

- **Building Data Systems to Access Data Portals**
  - Build out of CDE Outbreak portal
  - Build out of EH Parcel Based search tool
  - Build out of CDE and EH call log tracking
  - Developing core public health data annual summaries for Birth, Death, Hospitalizations, BRFSS, and HKCS
- **Building Climate/Health Database Systems**
  - EJ data specific to the parcel-based search tool
- **SDoH Database Systems**
  - Revising all ACS indicator collection, data dictionaries, and processes
- **Build Division/Program KPI Processes and Dashboards**
  - Using EpiTrax data for CDE
  - Healthspace for EH
  - Patagonia for Nursing



**Objective 4:** Ensure health department program data collection and storage is streamlined to meet the needs across the health department.

## Actions/Tasks

### Program outreach to discuss data and data collection processes by program

Inventory all program data and processes; Prioritize programs for consultation for improving data collection processes

### Evaluate and make recommendations for data collection and storage

Develop templates for data workflow/collection; Evaluation plan for process improvement; Ensure any data process consult results in auto generated KPIs

### Ensure SDoH and community specific data is integrated into program data narrative

Develop process to integrate SDoH and community data in data workflows  
Ensure program staff understand and can describe community level data related to their program

## Where are we at?

- **Program outreach to discuss data and data collection processes by program**
  - Nursing: Harm Reduction, Sexual Health,
  - Ops: Compliance Reporting
  - Nutrition Family Health
  - EDS: Project Management, Communicable Disease call logs
  - EH: Call logs
- **Evaluate and make recommendations for data collection and storage**
  - EH: Healthspace, Call logs,
  - Nursing: Patagonia
- **Ensure SDoH and community specific data is integrated into program data narrative**
  - Core public health data annual summaries for Birth, Death, Hospitalizations, BRFSS, and HKCS
  - All data request



**Objective 5:** Position ACHD at the forefront of innovation, leveraging Artificial Intelligence (AI), machine learning (ML), and emerging technologies to transform operations, enhance client-centric services, and champion health equity across our county.

### Actions/Tasks

#### Develop governance around the use of AI for local public health applications

AI Workgroup; Document use-cases; Guidance documents for uses

#### Administrative processes

Present at local and national conference on use of AI in local public health; Automate data processes where applicable within ACHD data systems

### Where are we at?

- **Develop governance around the use of AI for local public health applications**
  - Developing a health department wide guidance and next steps for using AI in health department workflows.
- **Administrative processes**
  - Coordinated abstract submissions for 2025 conferences around data and informatics topics.

# Health Department Data and Workflow Applications

## Environmental Health

Septic Lookup tool

Parcel-Based Search

Lead Case Management

Retail Food

Childcare

Climate Surveillance System

## Nutrition & Family Health

Diabetes Education Case Management

Farmers Market Participant Tracking and Site Selection

## Epidemiology & Data Science

Communicable Disease Surveillance System

EPR Situational Awareness

Internal Health Department Network and Workgroup Analysis

COVID19 Resource Box Distribution System

EPR Activation Communication System

## Nursing

Harm Reduction Data System

Health Enrollment Case Management

School IZ Tracking

## Health Equity & Strat. Initiatives

Health Data Hubs

Patagonia Reporting

## Operations

Internal Client Referral System

Central Patient Safety Reporting

Population Health Data Portal



# Use-Cases

## Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.

# Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.

**Adams County Facility Outbreaks**

Adams County Health Department

Report Date
No date selected

Disease
No category selected

Facility Type
No category selected

Outbreak Number
No category selected

Onset Date
No date selected

☰

**Facility List**

- Academy ECE of Westminster The
- Academy ECE of Westminster The
- Academy ECE of Westminster The
- Academy ECE of Westminster The
- Academy of Charter Schools/ Before and After
- Adams County Head Start
- Adams County Head Start/ Brighton Center
- Adams County Head Start/ Brighton Center
- Adams County Head Start/ Brighton Center
- Adams County Head Start/ Brighton Center
- Adams County Head Start/ Brighton Center
- Adventure Elementary
- Ascent Classical Academy of Northern Denver
- Ascent Classical Academy of Northern Denver
- Assumption School
- Assumption School

**Outbreak Details**

Report Date: December 10, 2023  
 Reporting Source: Facility  
 CDPHE Outbreak Number: NAO  
 Investigator: Ray  
 Disease: Fevers

**Facility Info:**  
 Facility Type: School  
 Name: [REDACTED]  
 Address: [REDACTED]  
 City: [REDACTED]

**Outbreak Info:**  
 Date of Onset: December 7, 2023  
 Initial Cases: [REDACTED]  
 Final Cases: [REDACTED]  
 Lab Confirmed: [REDACTED]  
 Total Persons: 2 [REDACTED]    nts  
 Hospitalizations/ED Visits: 0.00  
 Deaths: 0.00  
 Onsite Inspection Date:  
 Outbreak Status: Resolved  
 Comments: [REDACTED]

Case Filing Complete: 20231226  
 Complete Check:

Report Date: [REDACTED]  
 Reporting Source: Facility  
 CDPHE Outbreak Number: NRO

**Nurse Info**

District Name: [REDACTED]  
 Nurse Name: [REDACTED]  
 Nurse Email: [REDACTED]  
 Nurse Phone: [REDACTED]  
 Nurse Secondary Phone: [REDACTED]

School Name: [REDACTED]  
 Nurse Name: [REDACTED]  
 Nurse Email: [REDACTED]  
 Nurse Phone: [REDACTED]  
 Nurse Secondary Phone: [REDACTED]

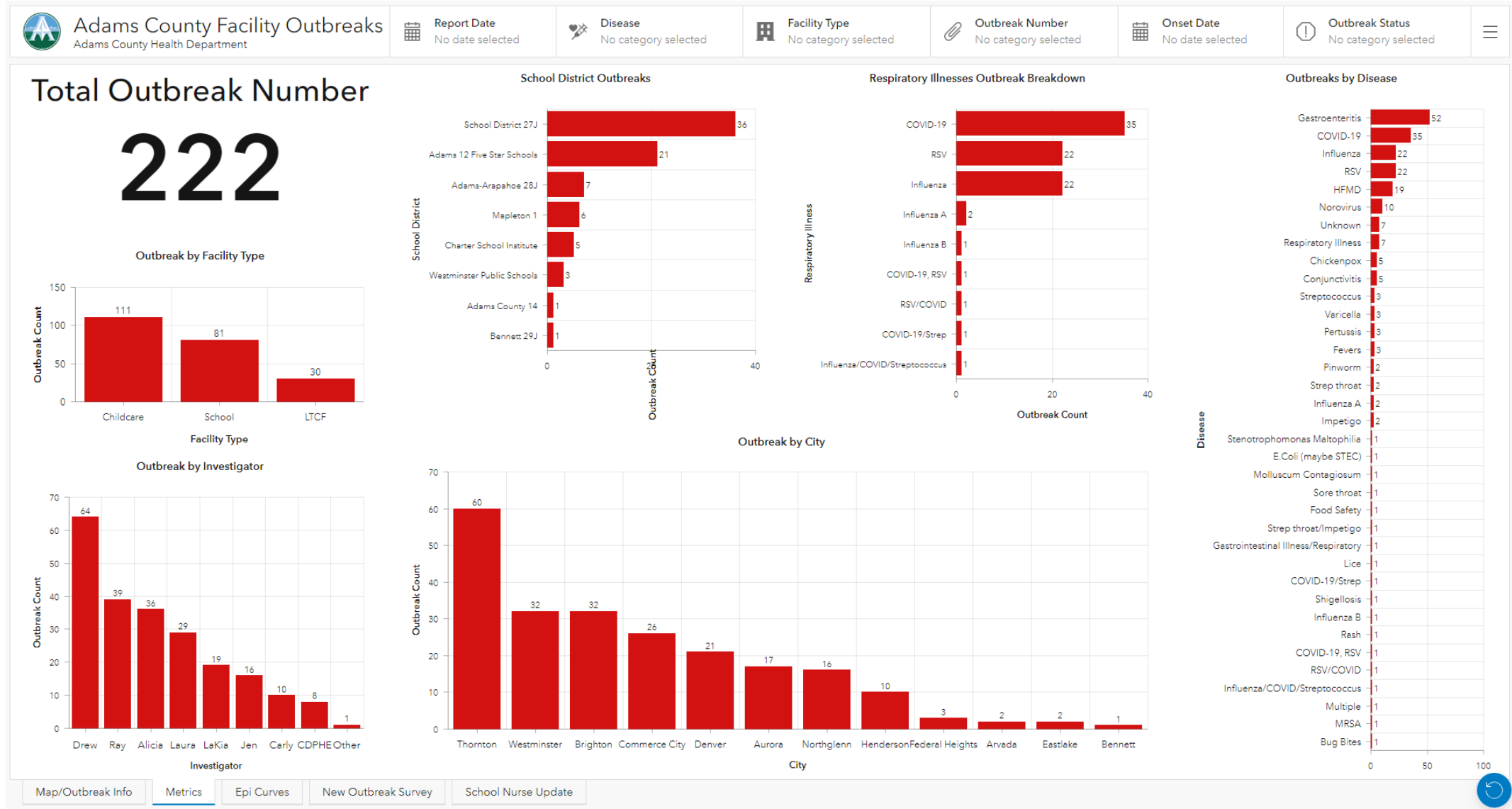
Report Date	Reporting Source	CDPHE Outbreak Number	Disease	Facility Type	Assigned To	Establishment Name	Address	City	Date of Onset	Initial Cases	Final Cases	Lab Confirmed	Total
[REDACTED]	Facility	[REDACTED]	[REDACTED]	Child Care	[REDACTED]	Rocky Mountain Prep Fletcher Elementary	10455 E 25th Ave	Aurora	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	ACHD	[REDACTED]	[REDACTED]	Child Care	[REDACTED]	Learning Experience The	15701 E 104th Ave	Commerce City	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Facility	[REDACTED]	[REDACTED]	School	[REDACTED]	Prairie View High School	12909 E. 120th Ave.	Henderson	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Public	[REDACTED]	[REDACTED]	School	[REDACTED]	Rodger Quist Middle School	13451 Yosemite St	Thornton	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Public	[REDACTED]	[REDACTED]	School	[REDACTED]	Bennett Intermediate School	455 8th St	Bennett	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Facility	[REDACTED]	[REDACTED]	School	[REDACTED]	Innovations & Options	830 E Bridge St	Brighton	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Map/Info
Metrics
Epi Curves

↻

# Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.



# Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.

## Data Needed

Outbreaks

Schools Districts

Schools

Childcares

Long Term Care  
Facilities

School Nurse  
Contacts

# Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.

## Data Source

Log Books (xlsx)

Co. Dept of Edu

Co. Dept of Edu  
Healthspace

DORA  
Healthspace

CDPHE

ACHD

## Data Needed

Outbreaks

Schools Districts

Schools

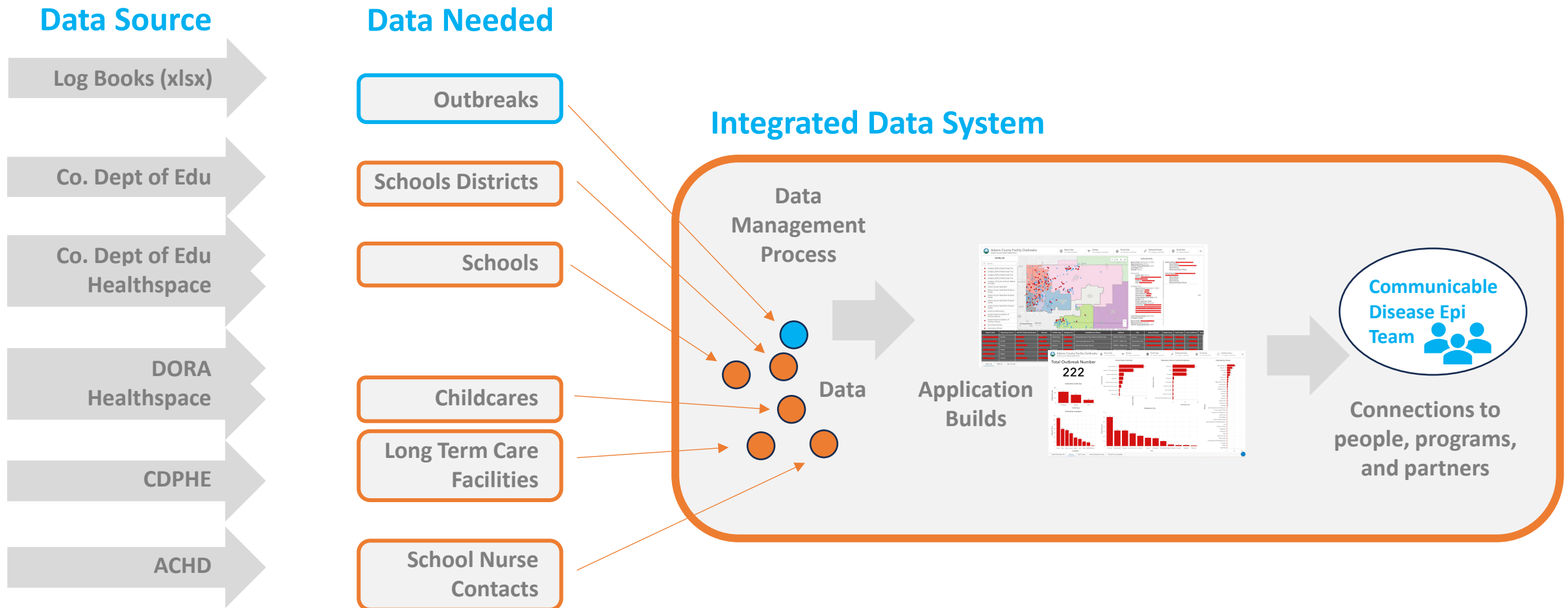
Childcares

Long Term Care  
Facilities

School Nurse  
Contacts

# Communicable Disease Surveillance System: Outbreak Surveillance

A system that allows staff to easily understand the distribution of outbreaks over space/time in relation to other outbreaks and specific communities.



# Use-Cases

## Parcel-Based Environmental Search Tool

A system that allows staff to easily find any documented environmental hazards, conditions, and/or complaints based on a property search.

# Environmental Health Parcel-Based Environmental Search Tool

A system that allows staff to easily find any documented environmental hazards, conditions, and/or complaints based on a property search.

**EH Hazards Parcel-Based Search Tool**

**Layer Visibility Selector**

- Water Wells (DWR)
- RCRA Sites
- VCUP Sites
- Superfund Sites (CDPHE)
- Septic Systems (ACHD)
- Septic Systems (TCHD)
- Spills (OEPR)
- Oil and Gas Spills (COGCC)
- Oil and Gas Wells (COGCC)
- Complaints (ACHD)
- Complaints (TCHD)

**Legend**

- Water Wells (DWR)
- RCRA Sites
- VCUP Sites
- Superfund Sites (CDPHE)
- Septic Systems (ACHD)

**Complaints (TCHD)**

Search by parcel number or address

**Address:** 5524 E 60th Ave Unit 146, Commerce City, CO, 80022  
**Date of Complaint:** Dec 1, 2021  
**Program:** Meth Lab  
**Category:** Complaint Meth Labs  
**Complaint Details:** Post & Preliminary received together from Century Environmental Hygiene, LLC. 02/20/18 LO Cleanup Contractor: All Star Environmental Services Inc  
**Status:** Closed on Feb 19, 2018

**Address:** 5478 E 60th Ave, Commerce City, CO, 80022  
**Date of Complaint:** Oct 22, 2014  
**Program:** Waste Water/Septic  
**Category:** Complaint Waste Water - Sewage Spill  
**Complaint Details:** Complainant calling in stating that there is a sewage back up every couple of months in her bathroom that will go all the way into her kids bedroom and living room sometimes. She ends up calling the manager and they send a plumber when he is available. Even though the matter gets resolved with a plumber it keeps happening and complainant is getting tired of it. Complainant said last time plumbers did not even clean up after they did to fix the problem, and sewage was left in the tub, bathroom floor and toilet. When this back up happens the sewage comes up in her toilet and tub and so do a bunch of cock roaches. Complainant wants to know if there is anything we can do about this continuing to happen. Please call complainant with what you find out. The most recent back up just happened again a few days ago.  
**Status:** Closed on Nov 3, 2014

**Address:** 5480 E 60th Ave Unit 110, Commerce City, CO, 80022  
**Date of Complaint:** Dec 14, 2014  
**Program:** Industrial Hygiene  
**Category:** Complaint IH - Lead  
**Complaint Details:** This child has a confirmed elevated blood lead level. Consequently we did a home assessment for lead.  
**Status:** Closed on Dec 31, 2014

**Address:** 5460 E 60th Ave, Commerce City, CO, 80022  
**Date of Complaint:** Dec 29, 2014  
**Program:** Industrial Hygiene

Selected features: 1

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For functionality issues, please contact Luca Brunozi at LBrunozi@AdCoGov.org

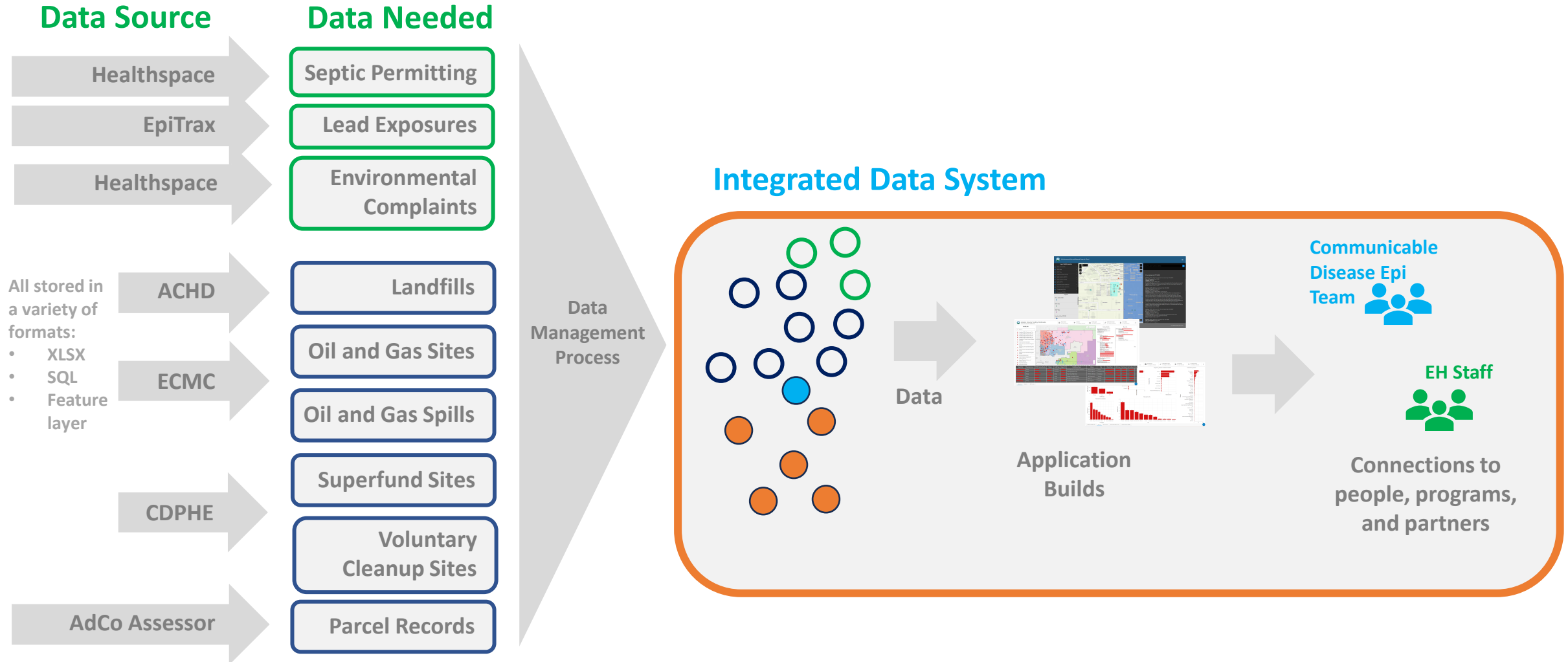
**ADAMS COUNTY HEALTH DEPARTMENT**  
Your Health. Our Mission.

Last Update: September 9, 2024



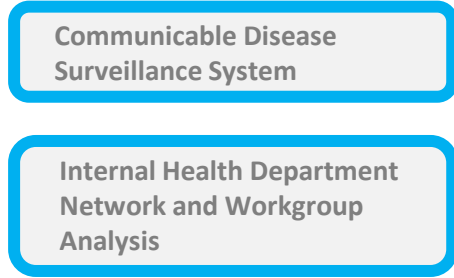
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# Integrated Data System

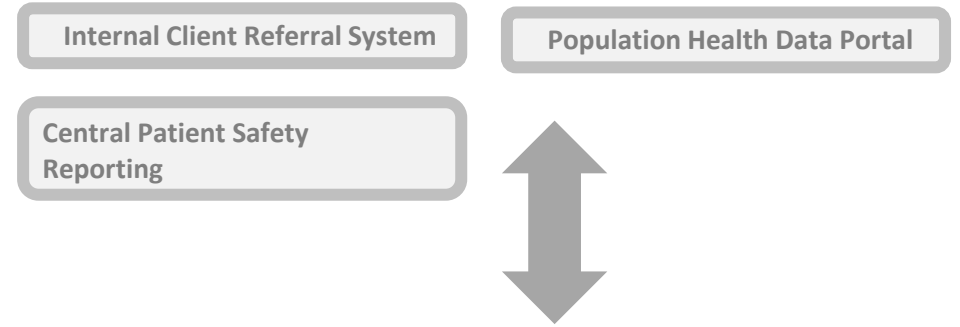
## Epidemiology & Data Science



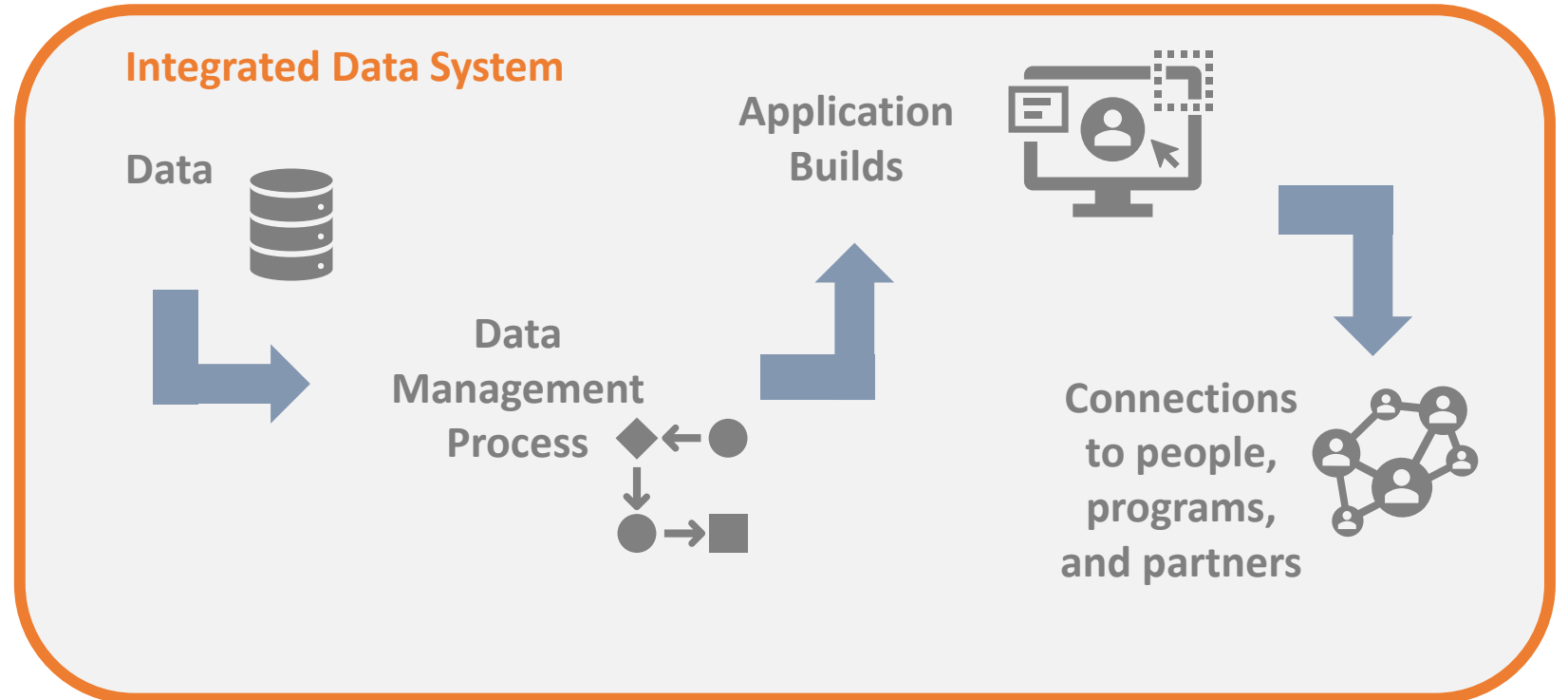
## Nursing



## Operations

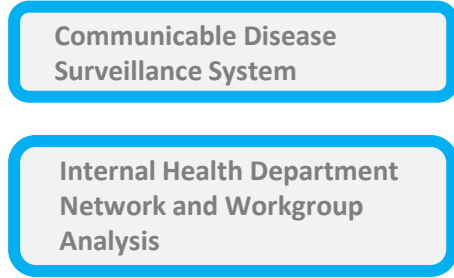


## Environmental Health



# Integrated Data System

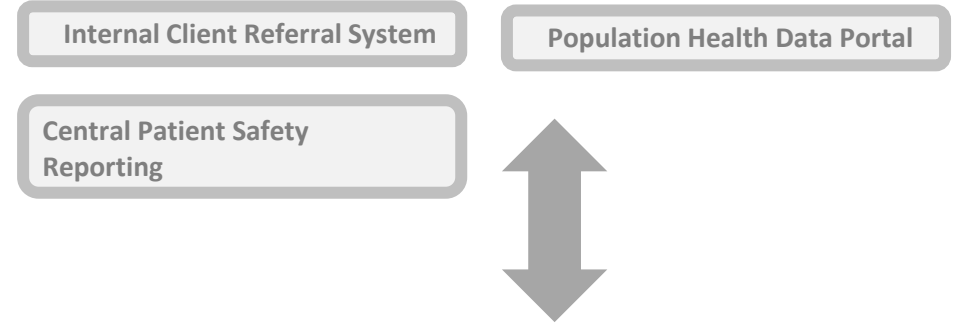
## Epidemiology & Data Science



## Nursing



## Operations

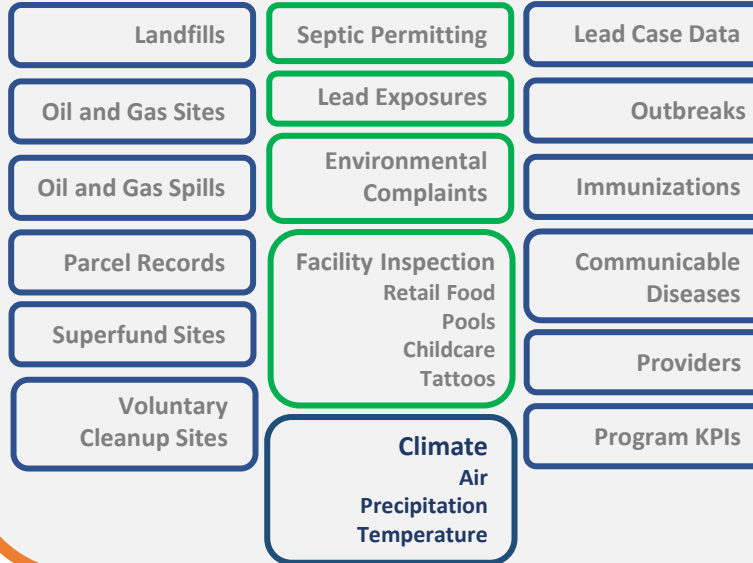


## Environmental Health

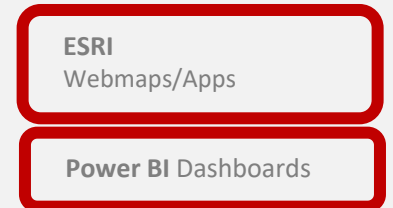


## Integrated Data System

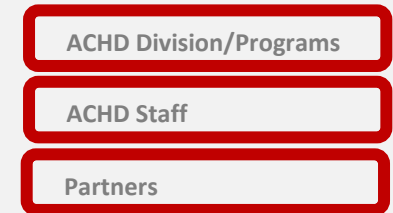
### Data/Data Management Process



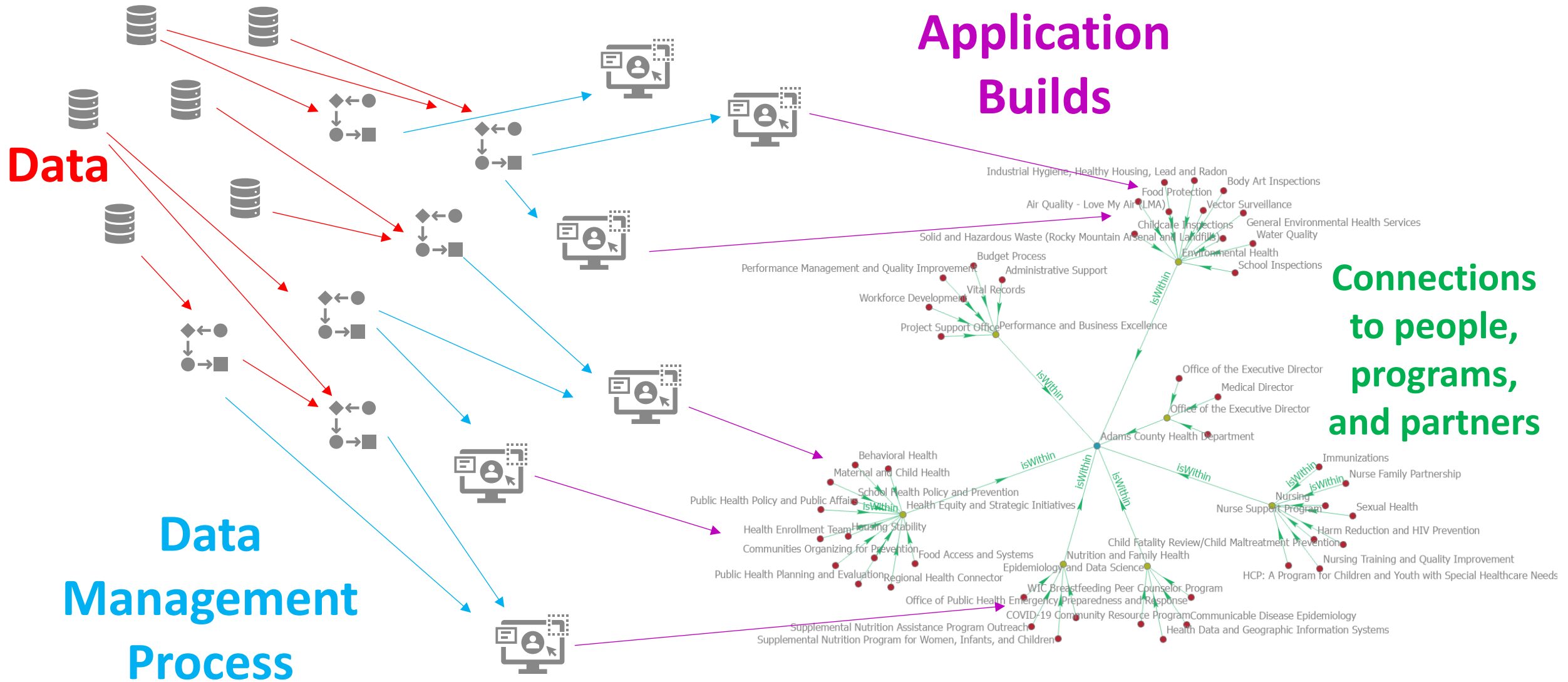
### Application Builds



### Connections



# Integrated Data System Using ArcGIS Knowledge



### Internal Client Referral System

A system to connect client to internal health department resources and programs to support their needs.

### Elevated Blood Lead Investigations

A system for case management and investigation of kids with elevated blood lead levels. Also serves as a system for surveillance and reporting.

### Sexual Health/Safe Drug Use Client Services Tracking and Reporting

A system to track client STI tests/results, demographics, and supplies. Also tracking community events and staffing, supply distribution, point in time syringe access distribution.

### Population Health Data Portals

A system to develop community, health, and demographic insights to better drive programmatic work in the community.

### Environmental Health Inspections

A system to track and monitor health department data, management processes, governance, and applications tying it to programs, people, and partners.

### Mapping the Integrated Data System using *ArcGIS Knowledge*

A system to track and monitor health department data, management processes, governance, and applications tying it to programs, people, and partners.