

CDC-ONC Industry Days

February 27 & 28, 2023

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Infrastructure in place before COVID

- EpiTrax
- Electronic Laboratory Reporting (ELR)
- Electronic Case Reporting (eCR)
- Electronic Messaging Staging Area (EMSA)
- Workforce
- Syndromic Surveillance



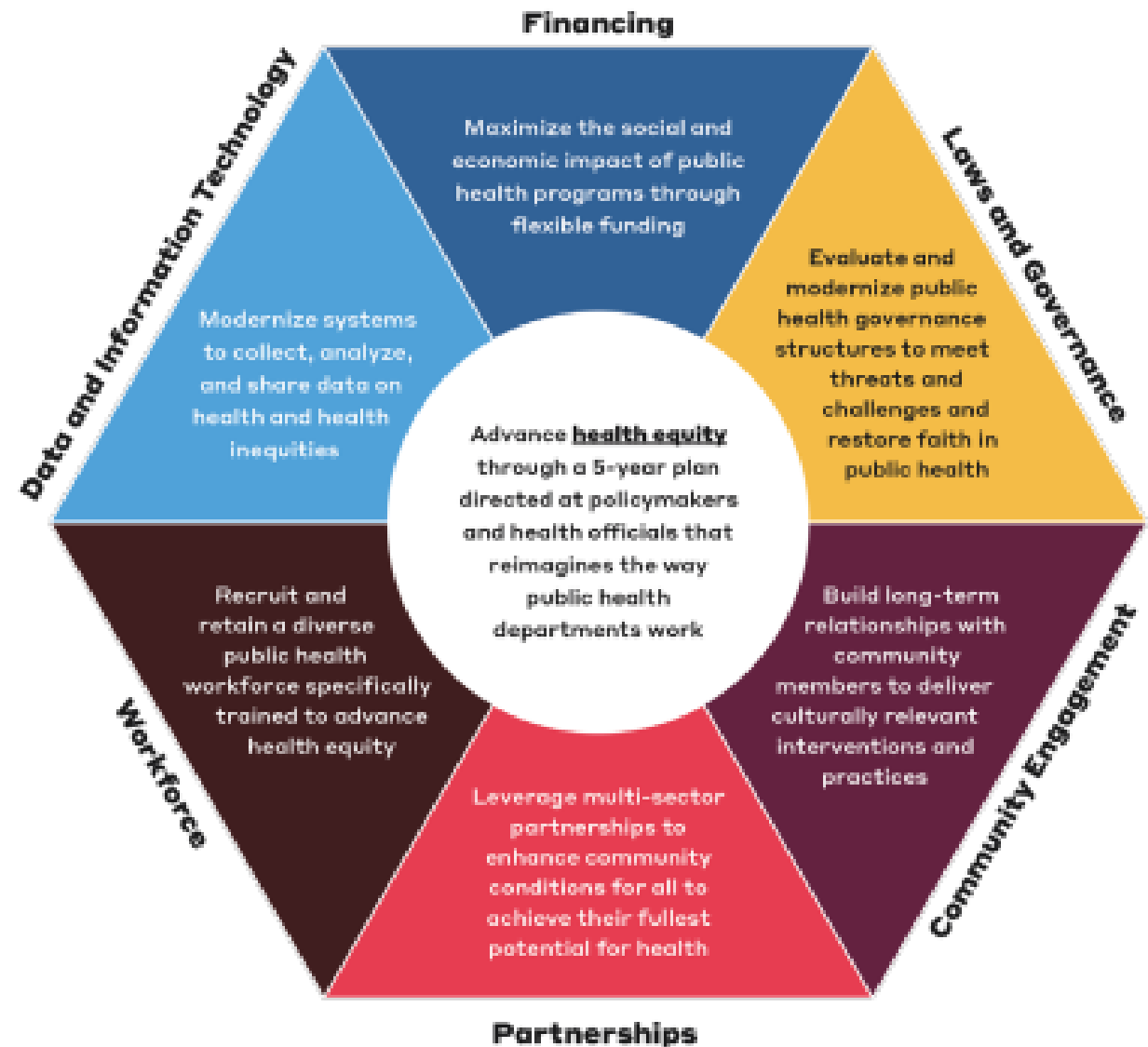
Gaps uncovered during COVID

- **EMRs struggled to handle surge capacity**
- **Interoperability between EMR and Utah Statewide Immunization Information System (USIIS)**
- **Onboarding new facilities and providers**
- **Identification of risk factors**
- **Statewide inventory of PPE, ventilators, etc**
- **Hospital capacity in real-time**
- **Operations metrics**



Industry + Public Health beginnings

Modernizing the public health system requires action in 6 core areas



You are part of
the public health
system.

Leverage multi-sector
partnerships to
enhance community
conditions for all to
achieve their fullest
potential for health

Partnerships

Data and Information Technology

Modernize system
to collect, analyze
and share data on
health and health
inequities

Individual
Public
Health
Services

WIC

Nurse home visiting

Tuberculosis

STD/HIV

Immunization

Vital records

Population Public Health Services

- Infectious disease prevention, identification, control
- Non-infectious disease prevention
- Community-level health assessments
- Emergency preparedness and response
- Environmental health regulation
- Public communication
- Policy



Data systems at Salt Lake County HD

- WIC (USDA)
- Electronic medical record & billing system
- State immunization registry
- Vital records
- Notifiable disease surveillance system (EpiTrax)
 - ELR, eCR, Syndromic surveillance
- Environmental health inspection, permitting, complaint system
- Community-based surveys
- Spreadsheets, smartsheets, google docs
- Connect to other locals, state, national



CDC says Hep C outbreak in Utah has 16 cases, half of 7,200 still not tested

by Heidi Hatch | April 4th 2016, 6:52 PM MDT

Public Health Reports



Enhancing Surveillance Protocols for Acute Hepatitis C Virus Infection, Utah, 2014-2019

[Nathaniel M. Lewis, PhD](#)  , [Jeff Eason, MPH](#), [...], and [Angela C. Dunn, MD](#)  [View all authors and affiliations](#)

[OnlineFirst](#) | <https://doi.org/10.1177/00333549221101381>

ELR led to improved surveillance

eCR proven to decrease provider burden and increase data timeliness and completeness

Piloting Electronic Case Reporting for Improved Surveillance of Sexually Transmitted Diseases in Utah

OJPHI

Piloting Electronic Case Reporting for Improved Surveillance of Sexually Transmitted Diseases in Utah

Amanda Whipple¹, Joseph Jackson^{1,*}, Joshua Ridderhoff², Allyn K. Nakashima¹

**School attendance + COVID positive =
Prevented spread**

Vital Records + FHIR

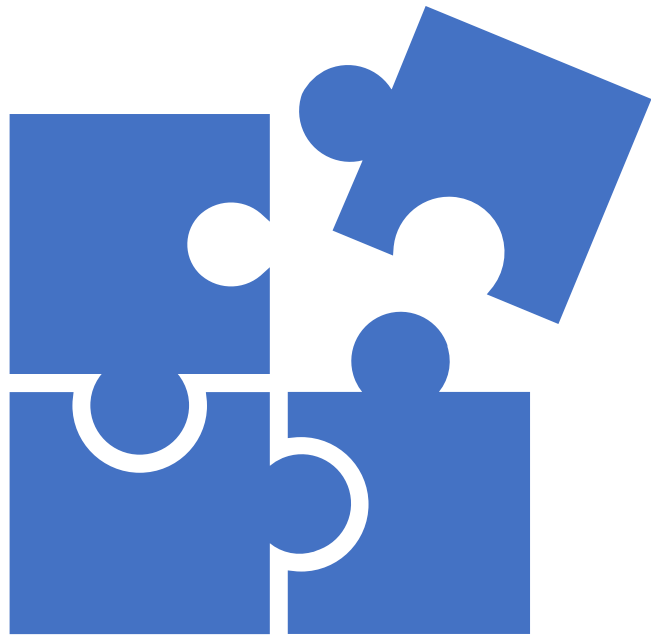
Improved data quality and timeliness



We still have room for improvement

**Flexible
systems built
for public
health needs**

- **Individual and population health**
- **Interoperability**
- **Share data securely**
- **Clean data**
- **Link data**
- **Deidentify data**
- **AND do it quickly, accurately,
reliably**



Together, let's advance
public health.

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