

Track 1 Project Types

Overview: Track 1 focuses on processing electronic initial case reports (eICRs) into surveillance systems, with an emphasis on operationalizing electronic case reporting (eCR) data to enhance public health action.

Below is a list of example project types that PHAs may explore within this track. These example projects are aligned with this Track's goals and are likely feasible with the program's timelines and resources, depending on the PHA's existing capabilities.

The IC Program acknowledges that each PHA has different needs and requirements to progress* how they use eCR data to achieve their agency's mission and example projects below may not work for each PHA. The IC Program is open to other projects that align with the track's goals and are feasible in terms of the Program's timelines and resources. PHAs may also propose a project that combines elements of example projects below. In applying for Wave 2, PHAs should clearly define the scope of their project, and if selected, further scoping will be conducted collaboratively between the IC and the PHA.

Example Project Types: Project types and their associated categories align with the dimensions mentioned below.

Category	Project Type
Planning a new surveillance system for eCR	Planning a new surveillance system for eCR
Surveillance System Migration Support/Capacity Building	Collect business requirements and translate into technical requirements for eCR integration into an existing surveillance system
	Cutover support for new system or system enhancements that bring eCR capabilities (moving from test to prod)
Integration of eCR into surveillance systems	Validate eCR transformation and routing
	Technical assistance for authoring/editing RCKMS rules
	Connect eCR data landing in central data repository (lake, warehouse, etc.) to be pulled into Electronic Disease Surveillance System (EDSS), (test and/or prod)
	Coordination with provider organizations on message validation and initial data quality issues
	Map reportable conditions from the Reportability Response (RR) to local disease codes for EDSS
	Map eCR data elements to EDSS data structure, by condition

Category	Project Type
Improving the presentation of eCR data within an EDSS	Support development of EDSS “pages” to bring forth the eCR data into the system’s UI/UX
eICR analytics infrastructure	Ingestion of eICR into data lake/data warehouse for improved analysis (not necessarily a surveillance system)
	Develop tools to visualize and analyze data received via eCR at the population level
	Leveraging Generative AI for eICR pre-processing, analytics, or summarization
eICR improvement and expansion	Develop internal governance processes related to eCR
	Support state PHAs to improve how they empower local PHA within their state to leverage eCR data
	eCR PHA capability building via training, documentation development, connecting with external communities
	Developing eCR SOPs for ongoing eCR data quality monitoring
eICR preprocessing, parsing and filtering	Implementation of APHL/Data Integration Building Blocks (DIBBs) tools, eCR Splitter and/or eICR Viewer
	Implementation of custom tools for parsing data related to specific conditions
	Implementation of other Commercial Off-the-Shelf (COTS) tools to filter/parse data fields from eICRs for ingestion into Surveillance Systems
Integration of eCR data with other data or systems	eCR data integrated with Health Information Exchange (HIEs)/ Trusted Exchange Framework and Common Agreement (TEFCA) data or other clinical sources
	eCR data integrated with electronic laboratory reporting (ELR) data
	eCR integrated with other public health data (e.g. Immunization Information Systems) or other data in general
eICR data quality	Implement eCR data quality monitoring tools
	Ongoing eCR data quality monitoring and turning off manual reporting
	Coordinate with data senders to improve data quality
Manual eCR data entry	Accommodate providers in rural/low resource areas without EMRs to electronically enter data for reportable conditions

* Progression in the use of eCR data may occur across a variety of different dimensions, such as: Surveillance System Implementation; Integration Engines and Middleware; Data Quality Management; Workforce Skills; Use of eCR Data in Case Investigations; Governance and Strategic Structures; HCO Onboarding; Integration of eCR Data with Other Data Systems, and Advanced Analytic Case Reporting, including eCR. Project types align with these dimensions.

Glossary

Acronym	Full Term
APHL	Association of Public Health Laboratories
COTS	Commercial Off-The-Shelf
DIBBs	Data Integration Building Blocks
EDSS	Electronic Disease Surveillance System
eCR	Electronic Case Reporting
eICR	Electronic Initial Case Report
ELR	Electronic Laboratory Reporting
HCO	Healthcare Organization
HIE	Health Information Exchange
IC	Implementation Center
PHA/PHAs	Public Health Agency(ies)
RCKMS	Reportable Conditions Knowledge Management System
SOP(s)	Standard Operating Procedures
TEFCA	Trusted Exchange Framework and Common Agreement
UI/UX	User Interface / User Experience