Center for Surveillance, Epidemiology and Laboratory Services (CSELS)/Division of Laboratory Systems (DLS)

FY 2020 CIO PROJECT PLAN

CDC-RFA-OE15-15010502SUPP20: CDC/APHL Partnership: "*Strengthening Public Health Laboratories*"

GENERAL INFORMATION	
1	**PROJECT/ACTIVITY TITLE** **Immunization Data Lake**
2	**CIO:** **NCIRD (COVID 19 Vaccine Planning Unit)**
3	**CIO POC Name: Kafayat Adeniyi and Lynn Gibbs Scharf** **CIO POC E-Mail Address: kga9@cdc.gov, lig1@cdc.gov** **CIO POC Phone Number:**
4	**PROPOSED FUNDING:** $_app. $4M_____(Whole #s Only)
5	**DURATION OF FUNDING:** ☐ Remainder of Current Budget Period Only (*through June 30, 2021*): X☐ Remainder of Project Period (*through June 30, 2021*): ☐ Other: Please specify. (One Year ONLY)

PROPOSED PROJECT/ACTIVITY	
6	**X☐ New Project/Activity?** **Need Identified by: ☐ Grantee X☐ CIO** **☐ Existing Project/Activity?** **Projects/Activities currently identified in the published NOFO reflected below. Select the project/activity that is most suitable.** **Cross-Cutting Areas *(Identify specific project/activity)*:** ☐ Laboratory Strengthening and Leadership X☐ Public Health Preparedness and Response ☐ Public Laboratory Informatics ☐ Global Health ☐ Laboratory Systems and Standards ☐ Workforce Development **Program Specific Areas (I*dentify specific project/activity*):** ☐ Newborn Screening and Genetics ☐ Environmental Health X☐ Infectious Diseases ☐ Food Safety X☐ Other. Specify: immunization

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PROJECT DESCRIPTION; JUSTIFICATION; BONA FIDE NEED; GOALS, AND GENERAL OR SAMPLE ACTIVITIES TO BE UNDERTAKEN:

As a result of the COVID-19 pandemic, CDC/NCIRD has a need for a 2-pronged approach to monitoring vaccine distribution and administration. In the early phases of vaccine response (fall 2020) where the primary method of vaccine administration is via mass vaccination clinics with limited numbers of providers and limited vaccine supply, a centralized COVID-19 mobile reporting application will be used to ensure states and CDC have real-time access to the data needed for decision-making. In subsequent phases of the vaccine response where there is more vaccine available and a wider provider network administering it, the primary means of getting data for state and CDC decision-making will be via existing provider EHRs and IISs using the Immunization Gateway (IZ Gateway). The Immunization Gateway is a current AIMS project that allows for bi-directional data exchange between states and between multi-state providers and states. To enable data reporting and analytics during all phases of COVID-19 vaccine distribution and administration and also future reporting of other vaccines, CDC needs to invest in the development of an environment that will host data from multiple sources and enable data management and analytics. APHL, leveraging their existing AIMS environment, will develop a scalable cloud based event driven ETL data pipeline with a secure data lake to ingest data from multiple sources and enable analytics and downstream data use

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PROGRAM OUTCOMES THAT RELATE TO SUPPLEMENTAL NOFO: *(Select all that apply)*

Mid-Term Outcomes

☐ Promotes competent, collaborative, and practice ready PHL workforce

☐ Improves laboratory methods, systems, and informatics capacity

X☐ Increases laboratory effectiveness in response to public health needs, including emergencies

X☐ Improves public health laboratory detection and response programs

☐ Develops model policies and tools for quality and safe PHL practice

☐ Assures CLIA standards and good laboratory practices are followed by PHLs and are promoted to clinical laboratories performing tests of public health importance

☐ Other:

Long-Term Outcomes

X☐ Reduces incidence and prevalence of preventable diseases and public health threats

X☐ Reduces morbidity and mortality equitably delivered throughout the United States and the world

X☐ Protects the public from public health threats

☐ Creates sustainable and resilient PHLs that effectively and efficiently adapt to evolving public health needs

☐ Revises standards for the PHL system resulting in a more efficient, higher quality, and safe PHL system

☐ Other _____

BUDGET INSTRUCTIONS

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GENERAL INSTRUCTIONS FOR USE OF FUNDS – AS APPLICABLE (e.g., budget restrictions based on appropriation):

CIO CERTIFICATION	
10	**By submitting this project plan, I certify that my CIO currently does not maintain a comparable NOFO for similar activities.**

X Lynn Gibbs Scharf