



*CDC-RFA-OE20-20010101SUPP20: Enhancing Public Health Laboratory
Capabilities and Increasing Capacity*

Supplemental Project Proposal

Appendix D: Informatics





Appendix E: Informatics

Focus Area Name: Informatics

Focus Area Contact Information

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1. General Information

Project Name Informatics – Data Lake

Project Activity Contact Information Jason Hall

Approximate Amount of Supplemental Funding Available \$5,000,000

2. Project Description

I. Purpose

To develop a road map to manage various CDC datasets (e.g., biomonitoring data, opioid testing, LRN, Newborn Screening Quality Indicators, de-identified outbreak information) into a common Data Lake technical solution on AIMS.

II. Justification

Old systems and processes are no longer able to support the data needs of the enterprise due to Volume, Velocity and Variety of Data. Veracity will dictate the quality of advanced analytics and artificial intelligence. There is a need for a new daring approach to store, process, manage and provide data by harnessing the power of big data technology combined with the agility of self service.

III. Identification of need

CDC Data Lake Initiative:

- Provide the infrastructure and tools, maintenance, and support for Influenza and FoodNet Data Lake projects.

Example specific program needs:

- Rabies:
 - Migrate the rabies portal backend to the Data Lake on AIMS
 - Define the requirements for a rabies data visualization dashboard

- Migrate the United States Department of Agriculture (USDA) data set to the Data Lake
- Continue onboarding rabies testing labs to the rabies portal, prioritizing high morbidity states (California, Florida, and Texas) and performing outreach to states that distribute Oral Rabies Vaccination (ORV) (West Virginia and Tennessee).

IV. New or expanded project

This project will expand the concept of Data Lake that has been explored more recently.

3. Outcomes

Activities in this project should achieve or contribute to the following proximal outcomes:

PO-8. Improved understanding of data-related challenges and data-informatics solutions among laboratory professionals and stakeholders

Activities in this project should achieve or contribute to the following intermediate outcomes:

IO-5. Improved data exchange and interoperability among public health laboratories and their partners

Activities in this project should contribute to the following long-term outcome:

Improved effectiveness of public health laboratories, individually and as components of a national system

4. Strategies and Activities

List specific strategies, activities, and process measures

Strategy/Activity	Process Measure
S4. Laboratory Quality, Safety, and Informatics for Public Health Testing Services, Surveillance and Response	TBD
S4.1. Develop and implement informatics-related solutions and standards to improve data exchange and interoperability S4.1.2 Reuse existing data systems, services and software solutions	TBD



Please note: APHL is expected to collaborate with their CDC point of contact and/or technical monitor for this project to develop realistic measurable process objectives. In response to this proposal, APHL should provide a detailed work plan with: Outcomes, outcome measures, strategies/activities, and process measures.

5. Budget

CELS/DLS project officers will provide budget spreadsheet for APHL to complete for requested funds by object class category

By submitting this project plan, I certify that my CIO currently does not maintain a comparable NOFO for similar activities and the proposed use of funds is consistent with the appropriation.



Recoverable Signature

X Laura Conn

Technical Monitor Signature

Signed by: ed6b1355-2f84-4798-8eae-3620fb0eb497

