

Immunization and Disease Registry**FY2007 Request: \$2,049,900****Reference No: 41364****AP/AL:** Appropriation**Project Type:** Information Systems**Category:** Health/Human Services**Location:** Statewide**Contact:** Larry Streuber**House District:** Statewide (HD 1-40)**Contact Phone:** (907)465-1870**Estimated Project Dates:** 07/01/2006 - 06/30/2011**Brief Summary and Statement of Need:**

This request is for the creation of an immunization registry that would provide improvements over the current methods for tracking immunizations. The improvements would include automated reminders, electronic vaccine inventory management, reduced time for record tracking, and opportunities to increase immunization rates while reducing over-immunization of individuals.

Funding:	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	Total
Fed Rcpts	\$369,000						\$369,000
Gen Fund	\$1,680,900						\$1,680,900
Total:	\$2,049,900	\$0	\$0	\$0	\$0	\$0	\$2,049,900

<input checked="" type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
82% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:

This is the first year of the project.

Project Description/Justification:

Information Technology Capital Project Review Form FY2007

1. Has this project been previously approved? No

If yes, and there are no significant changes to funding amounts or technologies there is no need to continue with this form. Please copy last year's final capital budget back-up here as your submission for FY2007.

2. What is the purpose of the project?

To establish two interactive public health electronic databases:

Immunization Registry – This registry will house and maintain real-time immunization records for all persons in Alaska, through a secure, Internet-based statewide system. This system will decrease the administration of unnecessary vaccinations and will increase the efficiency of health care providers in determining immunization needs. Currently there are many fragmented immunization databases throughout Alaska, many of which are paper-based. Alaska is one of only a few states that have not implemented an electronic statewide immunization registry.

Disease Reporting System – This system will allow centralized reporting for all notifiable conditions in Alaska, will provide automated alerts for unusual disease trends, and will enhance tracking of emerging infectious diseases and

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outbreak investigations. Currently, many small databases have been created for each investigation, making trend analysis impossible. This system will be interactive with both the Immunization Registry and the Laboratory Information System at the State Public Health Laboratories, allowing for increased efficiency of data management.

Project cost:	Capital:			Annual O&M costs or savings
	Prior Years	FY 2006	FY 2007	
General Funds	0.00	0.00		
General Fund Match			\$1,680,900	
General Fund Program Receipts				
I/A Receipts (dept. and fund source)				
Other Funds (name and fund number)				
Federal Funds			\$369,000	
Total			\$2,049,900	

3. Is this a new systems development project? Yes

Upgrade or enhancement to existing department capabilities? No

Immunization Registry – Provision of a single immunization record for each person, rather than many records at different offices, clinics and hospitals will provide a significant upgrade to existing Departmental capabilities. Currently Alaska public health centers and tribal health corporations share access to medical information via the Resource and Patient Management System (RPMS). However, this system does not include private providers, who administer approximately half of all immunizations delivered in Alaska. In addition, RPMS is not timely and flexible enough to provide ready access to patient information when a client moves from one health facility to the next. As a result, health care providers must spend considerable time calling other providers to determine the immunization status of their patients, and they may administer unnecessary immunizations because of incomplete immunization information.

Disease Reporting System – Currently, disease reporting is primarily telephonic and paper-based. Data is entered into an in-house developed electronic program that can maintain limited information and has not kept up with the demands of new infectious disease threats and requirements for public health emergency preparedness. This new system will provide electronic, Internet-based reporting, increase our ability to maintain more detailed information on each disease report and each outbreak investigation, and will allow statistical and mapping capacities that are currently not available. This system will be deployable to regional public health centers, hospital infection control programs, school nurses and private providers, something that is currently not available. Interactivity with the Immunization Registry will allow verification of immunization status for each person reported with a vaccine-preventable illness. Interactivity with the State Laboratory will rapidly enhance our ability to determine the cause of an individual illness or of an outbreak.

4. Specifically, what hardware, software, consulting services, or other items will be purchased with this expenditure? (Include a line item breakdown.)

Estimated costs

Immunization Registry

software product (core proprietary system)	525,000 contract
software installation & customization	160,000 included in contract
report design and configuration	125,000 included in contract
integration	100,000 included in contract
hardware	50,000 purchase on state contract
database/software licenses	40,000 direct purchase or included in contract if there is a price advantage
project administration	24,950
	<u>1,024,950</u>

Disease Reporting System

software product (core proprietary system)	420,000 contract
software installation & customization	200,000 included in contract
report design and configuration	100,000 included in contract
integration	200,000 included in contract
hardware	60,000 purchase on state contract
database licenses	20,000 direct purchase or included in contract if there is a price advantage
project administration	24,950
	1,024,950

Other states have systems that provide the functions we need here in Alaska. Some states have developed their registries "in house" and other states have modified systems built by other states or vendors. We would be purchasing a pre-built system both for the immunization registry and for the communicable disease system. Each will already have been developed and in use in other states. However since each state has very different infrastructure and requirements, no registry system can be taken directly from the box for immediate use. Changes will have to be made to reflect how we do business in Alaska. We are getting a cost savings through the experiences of the other states.

5. How will service to the public measurably improve if this project is funded? The purpose of the project is to establish two interactive public health electronic databases.
Immunization Registry: This registry will house and maintain real time immunization records for all persons in Alaska, through a secure, internet-based statewide system. Immunization records will be readily available to health care providers. This system will decrease the administration of unnecessary vaccinations and will increase the efficiency of health care providers in determining immunization needs. Currently there are many fragmented immunization databases throughout Alaska, many of which are paper-based. Alaska is one of only a few states that have not implemented an electronic statewide immunization registry.
Disease Reporting System: This system will allow centralized reporting for all notifiable conditions in Alaska, will provide automated alerts for unusual disease trends, and will enhance tracking of emerging infections diseases and outbreak investigations. Currently, disease reporting is a manual process (phone and fax) for health care providers. Many small databases have been created for each investigation, making trend analysis impossible. This system will be interactive with both the Immunization Registry and the Laboratory Information Management System at the State Public Health Laboratories, allowing for increased efficiency of data management.
6. Does project affect the way in which other public agencies will conduct their business?
 This project will enable the division of Public Health to set up automated data exchanges with hospitals, the tribal health system, local public health operations at the Municipality of Anchorage, and the Center for Disease Control.
7. What are the potential out-year cost implications if this project is approved? (Bandwidth requirements, etc.)
 Both systems will require some data transfer from remote areas. Bandwidth for remote areas in Alaska is a known issue that Enterprise Technology Services is working to address.
8. What will happen if the project is not approved?
 Implementation of this system will allow Public Health to come into compliance with significant PHIN functional requirements. Public Health does not currently have an automated system capable of relating multiple infectious disease outbreaks, nor for looking at trends across time and geography.

Department's Mission: *To promote and protect the health and well being of Alaskans.* This project supports the Department's mission by creating a registry that will track immunizations for all Alaskans. It will reduce time for record tracking and increase immunization rates while reducing over-immunization of Alaskans.