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(Appendix B)

**Return on Investment Program
FYs 11 and 12 Project Status Report
1/1/15**

The Office of the Chief Information Officer is required to report on projects funded through the Return on Investment Program (ROI). The ROI program has been funded through an appropriation from the Technology Reinvestment Fund. The Technology Reinvestment Fund was created during the 2006 legislative session, and the first appropriations from this fund were for FY 2006-2007. The first report related to that fiscal year and was delivered to the legislature by January 1, 2008. This current report updates projects from fiscal years 11 and 12. Following is the section of the Code for the report excerpted from 8.57C:

Annually, on or before January 15 of each year, a state agency that received an appropriation from this fund shall report to the legislative services agency and the department of management the status of all projects completed or in progress. The report shall include a description of the project, the progress of work completed, the total estimated cost of the project, a list of all revenue sources being used to fund the project, the amount of funds expended, the amount of funds obligated, and the date the project was completed or an estimated completion date of the project, where applicable.

Each project that received funding through the ROI program for the fiscal years contained in this report completed the following items. Where applicable, the ROI records for each project were used to complete items from Budget Offer and I/3 budget information.

- Project Name and Description
- All Revenue Sources for Funding
- Agency Submitting Request
- Percent of Completed Work
- Total Estimated Project Cost
- All Revenue Sources for Funding
- Expended Funds
- Obligated Funds
- Estimated Completion Date

OCIO collected these data items for all applicable ROI projects and sent the completed report to the following parties on January 15, 2015 before the filing deadline of January 15, 2015:

Legislative Services Agency
Department of Management

This table includes ROI reimbursements processed through DAS Finance, as of December 31, 2014.

Table A: FY 11 ROI Project Expenditures

Project Name	Agency	% Complete	Original Request	Adjusted Request	Expenditures to-date	Obligated Funds	Estimated Complete Date
Capitol Complex Door Security	Administrative Services	100%	\$ 431,378	\$ 372,344	\$ 369,144	\$ 0	Complete
Network Hardware Upgrades. Phase 2	Administrative Services	100%	\$ 0	\$ 0	\$ 3,200	\$ 0	Complete
Digital Recording Expansion	Civil Rights Commission	0%	\$ 12,560	\$ 10,845	\$ 0	\$ 0	Unused
ServiceNow Upgrades, Phase 1	Administrative Services	100%	\$ 0	\$ 0	\$ 10,845	\$ 0	Complete
PK-Workforce Longitudinal Data System	Education	100%	\$ 500,000	\$ 431,575	\$ 375,638	\$ 0	Complete
ServiceNow Upgrades, Phase 2	Administrative Services	100%	\$ 0	\$ 0	\$ 55,923	\$ 0	Complete
Network Hardware Upgrades. Phase 3	Administrative Services	100%	\$ 0	\$ 0	\$ 14	\$ 0	Complete
Living Disaster Recovery Planning System Enhancements	Homeland Security/ Emergency Management	100%	\$ 185,000	\$ 159,683	\$ 159,683	\$ 0	Complete
IABC Technology Enhancement*	Human Services	100%	\$ 332,000	\$ 286,566	\$ 152,150	\$ 0	Complete
Web Application Firewall, Phase 1	Administrative Services	100%	\$ 0	\$ 0	\$ 109,416	\$ 0	Complete
Justice Data Warehouse Portal	Human Rights	100%	\$ 0	\$ 0	\$ 25,000	\$ 0	Complete
Imaging and Work Flow Management System*	Human Services	100%	\$ 350,000	\$ 302,103	\$ 154,941	\$ 0	Complete
Network Hardware Upgrades. Phase 1	Administrative Services	100%	\$ 0	\$ 0	\$ 147,162	\$ 0	Complete
Rite Track Software for Child, Family, Social Service	Human Services	100%	\$ 125,685	\$ 108,485	\$ 108,485	\$ 0	Complete
Portable Driving Simulation Equipment, Project 2	Law Enforcement Academy	100%	\$ 168,500	\$ 145,441	\$ 145,441	\$ 0	Complete
Grant Portal / Electronic Grant Management	Management	100%	\$ 480,000	\$ 414,311	\$ 414,311	\$ 0	Complete
GIS Services for Agencies	Natural Resources	100%	\$ 350,000	\$ 302,103	\$ 302,103	\$ 0	Complete
Medical Examiner Case Management	Public Health	100%	\$ 195,000	\$ 168,314	\$ 168,314	\$ 0	Complete
Application Business Continuity	Administrative Services	100%	\$ 300,000	\$ 258,945	\$ 258,945	\$ 0	Complete
Gateway & Enterprise E-Mail Encryption Services	Administrative Services	100%	\$ 375,000	\$ 323,681	\$ 323,681	\$ 0	Complete
Virtual Desktop Deployment	Administrative Services	100%	\$ 540,000	\$ 466,100	\$ 466,100	\$ 0	Complete
Security Education Awareness Training	Administrative Services	100%	\$ 50,000	\$ 43,158	\$ 43,158	\$ 0	Complete
TOTALS			\$ 4,395,123	\$ 3,793,654	\$ 3,793,654	\$ 0	

FY 11 appropriation within the Technology Reinvestment Fund to the Department of Administrative Services for technology improvement projects was \$3,793,654.00

NOTE: Returned funds from various ROI projects were used to fund miscellaneous IT projects to benefit the enterprise:

- DHR Justice Data Warehouse Portal
- Network Hardware Upgrades
- ServiceNow Upgrades
- Web Application Firewall

FY 11 ROI funds reverted on June 30, 2014

Table B. FY 11 ROI Project Descriptions and Funding Sources

1. Capitol Complex Door Security Project

Administrative Services project for the enterprise to install a single, tested/proven “state of the art” building security access system (Andover) throughout the Capitol Complex, exclusive of the Mercy Capitol and Vehicle Dispatch Buildings (at this time). The current Toye system was replaced at identified buildings and parking lots with the Andover system, thereby standardizing and centralizing all operational aspects of security access throughout the Capitol Complex and at other locations. This project was an extension of a planned, tested, proven, and implemented concept, and security access would become the sole responsibility of DPS.

Funding Sources: 100% Pooled Technology funding.

2. Digital Recording Expansion Project

Civil Rights project to replace outdated tape recording equipment and allow more efficient recording, retrieval, transcribing, and copying of investigative interviews by expanding the availability of digital recording software and hardware. This project also provides copies of investigative interviews available to parties and/or their counsels in a more cost effective, timely, and accessible manner.

Funding Sources: 100% Pooled Technology funding.

3. PK-Workforce Longitudinal Data System

Education project to provide institutional linkages for a prekindergarten (PK)-workforce LDS with Education PK-12 data, postsecondary data, College Student Aid Commission, and Workforce Development by having the electronic transcript system flow data from postsecondary to the required systems where it is then consumed by the LDS so analysis is performed. This design provides bi-directional integration between the PK-12 data warehouse and the ICSAC data warehouse for the transactional sharing of elements for multiple agency purposes. IWD has access to run reports and do analytics against the data as necessary, including linkages to unemployment insurance data.

Funding Sources: This portion of the system is 100% Pooled Technology funded. There are other components of this data system which were funded through federal grant dollars.

4. Living Disaster Recovery Planning System Enhancements

Homeland Security project with Human Services, Natural Resources and Transportation to acquire and implement modules into LDRPS, the business continuity application currently used by more than 30 state agencies. These modules increase the functionality of LDRPS, which stands for Living Disaster Recovery Planning System. The modules of interest are: Business Impact Analysis (BIA) Professional, Workforce Assessment, and Vendor Assessment.

Funding Sources: Besides the ROI funds, federal Emergency Management Performance Grant funds were used in this initiative. EMPG funds were used to pay for state personnel to manage the project.

5. IABC Technology Enhancement

Human Services project for Phase III of a multi-phase project for the IABC system. This phase of the project modified and modernized the current system from a batch processing system to a real-time update system. Making transactions “real time” update the data files at the time the user enters the data, whereas the current mainframe transactions are batched and processed nightly to update the files. Real time maintenance

provides the users immediate response rather than waiting for the nightly cycle to give them feedback. The end result is a new system that is much simpler to maintain and enhance as requirements change. It also simplifies the ability to provide information via SOA (web services) to those state agencies with a need and appropriate access. Utilizing a relational database and a web-based interface reduces the operating cost of the system.

Funding Sources: In SFY 11, \$38,761 of ROI funds were used to support total expenditures of \$80,668 on the project. The remaining balance of \$247,805 will be expended in or after SFY 12. ROI funds were matched at a rate of 52% federal financial participation (FFP). The total of \$134,416 in remaining project funds was returned by DHS to be used for other technology projects of benefit to the enterprise. The DHS IABC project is complete, and the project was completed without the need for the additional ROI funds.

6. DHS Imaging and Work Flow Management System

Human Services project for an Imaging and Work Flow System to provide flexibility and improved customer service, worker efficiency and payment accuracy. This system enables eligibility workers in other areas of the state to determine eligibility without requiring the applicant or the worker to travel to complete a program application. It also allows casework to be completed more efficiently (elimination of paper / technology queues up work); allow for work to be processed from multiple points and allow for specialization. The purpose of this application is to request funding for the purchase and implementation of an Imaging and Work Flow System.

Funding Sources: In SFY 11, \$20,313 of ROI funds was used to support total expenditures of \$42,275 on the project. The remaining balance of \$281,790 will be expended in or after SFY 12. ROI funds were matched at a rate of 52% federal financial participation (FFP).

7. Rite Track Software for Child, Family, Social Service

Human Services project to purchase of RiteTrack software, a data-reporting system for human service agencies. Previously, clinical monitoring and data tracking were completed without the benefit of a prescribed software. RiteTrack improves the efficiency and effectiveness of State government by providing a mechanism for data integration, analysis, and reporting. RiteTrack software is used at The State Training School for Boys and the Iowa Juvenile Home/Girls' State Training School, two facilities operated by the Human Services to serve Iowa's most-troubled youth.

Funding Sources: \$108,485 will be expended in or after SFY12. 100% ROI program funds.

8. Portable Driving Simulation Equipment, Project 2

This is a Law Enforcement Academy project to obtain portable driving simulation equipment that would be used to train all Basic Recruit classes as well as Precision Driving classes to be held throughout the state annually. Studies show that training of this type prevent injury and deaths as well as reducing state, county and city liability. This project supports the IT strategic and tactical plan by updating technology available to Iowa Law Enforcement, jailers and telecommunicators.

Funding Sources: 100% ROI program funds

9. Grant Notification Portal & Comprehensive Electronic Grant Management

Management project to expand an enterprise-wide Electronic Grant Management System (IowaGrants.gov). IowaGrants provides a storefront using keyword searches to assist public and private entities seeking funding through state administered grant programs. IowaGrants also manages the grant solicitation,

application, selection, award/contracting, monitoring, communications, modification, reporting, close-out and financial management processes.

Funding Sources: 100% ROI program funds. DOM also received RIIF funding to continue the project when ROI funding was depleted.

10. GIS Services for Agencies

Natural Resources project to provide contract GIS professional services to assist state agencies in the use of GIS, so as to become more proficient with GIS technology in daily business processes, and to increase coordination between state agency GIS efforts. GIS services provided by this project included direct assistance to individual agency projects and staff, coordination between state agencies, and interaction with the external GIS community so that ideas and resources are shared between all sectors within the state. This GIS project will save the state money through cost avoidance of recreating critical databases and increased efficiency in finding extent data and reformatting to internal requirements, as well as other expected outcomes. GIS users from 12 state agencies were interviewed for current GIS use and future needs. These included staff from DOT, Revenue, Economic Development, Legislative Services, Cultural Affairs, Public Safety, Homeland Security, Education, Human Services, Public Health, Utility Board, and Workforce Development. The inventory was completed, and a GIS business plan for increasing GIS use in state agencies was developed. Training and technical assistance was offered to GIS users in Workforce Development (laborsheds), Human Services (mapping training) and Public Safety (State Police Dispatch update). Further training and data development efforts with users in Economic Development, Legislative Services, Utilities Board and Revenue continued leading to coordinated development of GIS layers for tax districts, transmission lines, railroads, hospitals, schools and school district boundaries. These new GIS data layers were made available to all agencies and the public.

Funding Sources: Pooled Technology Fund: \$350,000 requested, \$302,103 awarded. \$25,000 from Federal Geographic Data Committee grant award

11. Medical Examiner Case Management

Public Health (IOSME) project developed and implemented a medical examiner case management database application. The system 1) increases efficiency and accuracy of entering death investigation information, and 2) improves ability to retrieve information quickly for multiple time sensitive purposes including rapid case look up, dissemination of autopsy reports to official agencies as well as the timely review by state experts of incoming scene reports from the counties. The ability to provide up-to-date accurate information is also critical to other agencies that are investigating time sensitive incidents such as infectious disease outbreaks or criminal investigations. Statistical reporting capabilities of the IOSME has been greatly improved with the completion of this project.

Funding Sources: The primary sources of funding for this project were from ROI and the National Forensic Science Improvement Act grant (Coverdell). Approximately 10 to 15% of the cost of the project was covered from the IOSME budget. Part of the ROI funds were used to pay for a project manager, through a staff augmentation contract, that resulted in successful RFP publication and selection of a vendor. The IOSME has a contract with the vendor (The Computer Solutions Company). The vendor continues to make revisions to the application to meet the needs of a state medical examiner office. The work plans project Implementation and testing was completed by June 14, 2014.

12. Application Business Continuity

Administrative Services project for the enterprise to engage a consultant to: 1) verify data from 2008 collected by HSEMD and related to Continuity of Operations/ Continuity of Government (COOP/COG) plan and identify what gaps still remain that are crucial to business continuity and recovering technologies; 2) develop a methodology for a business impact analysis (cost-use matrix) –solutions and funding plan that can combine solutions where applicable, as it relates to technologies and services that will be recovered in a timely, prioritized manner; and 3) develop a priority process that will assist our Governor’s leadership to review and make important decisions that relate to the safety, health and service to our citizens.

Funding Sources: 100% ROI program funds.

13. Gateway & Enterprise E-Mail Encryption Services

Administrative Services project for the enterprise to JCIO sponsored project to augment current gateway services and prevent newer types of spam and viruses from reaching enterprise e-mail accounts. Encryption services are an added benefit to customers by keeping confidential information secure in transit via a seamless and automated fashion. The key benefit to the citizens is the improved protection of their personal and confidential information. New tools allow us to block, capture and report on the quantity of confidential data leaving the network.

Funding Sources: 100 % ROI Program funds.

14. Virtual Desktop Deployment

Administrative Services project for the enterprise to develop a “Virtual Desktop” model that relies on thin client architecture. The actual computing is performed in a data center environment with multiple users on one centrally managed computer (server). Applications and data are provided over the network rather than on the local computer. The thin client can be combined with a Voice over IP (VoIP) telephone connection where there is adequate bandwidth, thus reducing communication costs for remote workers. All of the technology ingredients are proven technologies – i.e. thin client, servers, VoIP phones, network switches, etc. Existing applications like MS Office, Outlook, mainframe terminal emulation, internet browser, etc. can be delivered via the Virtual Desktop.

Funding Sources: The project is 100% funded from the ROI program.

15. Security Education Awareness Training

Administrative Services project for the enterprise to JCIO sponsored project to develop a consistent training program available to all agencies that tracks employee participation, measures successful completion through testing and provides reports by employee by agency. The training program is primarily focused on end-user training, but is designed for delivery to other target audiences; e.g. technical staff and managers. To successfully complete the training, students are required to correctly answer questions that evaluate understanding and retention of the content.

Funding Sources: Iowa Access Funds are augmenting this training initiative to broaden cyber security awareness to state partners and other government institutions. IOWAcess funding (\$100,000) was used to make the initial training system purchase. The Return on Investment Program (ROI) funds were used to renew the training licenses in 2013.

16. Justice Data Warehouse Portal

Human Rights project using reallocated funds from the DHS IABC project. Human Rights renewed a license for the C3D portal. This portal is utilized by all Justice Data Warehouse users and incorporates the

functionality of Business Objects, including Crystal Reports, Ad Hoc, and dashboard functionality. The portal allows us to decrease our annual software maintenance fees, approximately \$15,000/year.

Funding Sources: Remaining ROI funds from the DHS IABC project were expended for this project. Funding for the portal is provided by ROI funding.

17. DAS Network Hardware Upgrades

Administrative Services project to replace aging core data networking equipment in the Lucas Building, completed to benefit the enterprise. Key benefits of the project are a campus data network environment with improved stability and higher throughput that enables workers and the public to reach vital resources. The upgraded network environment meets or exceeds applicable ISO security standards and provides for improved monitoring with the addition of centralized and decentralized monitoring tools.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.

18. DAS ServiceNow Upgrades

DAS-ITE project to replace exiting helpdesk software with ServiceNow. ServiceNow provides better on-line access for citizens and state employees who are having difficulty with IT applications. Citizens and state employees are able to send a trouble ticket via the web. More automation of processes are now included. On boarding new employees, ordering computers, phones and other services are automated. Improved reporting processes are now included. Service Level Agreements are tracked in the software. Schedules, alerts and escalation are incorporated into the ticketing system. The new version reduces internal costs by hosting off-site through a cloud based offering. Modules included in the implementation include ticket and incident resolution and management; customer self-service portal; reporting; service level agreements; and service catalog. The citizen portal is now live, and the web address is help.iowa.gov. Announcements and knowledge articles can be posted to the site, and citizens now have the ability to submit trouble tickets online to the OCIO. Phase 2 will include change management, problem management, asset management, knowledge base and on-line chat.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.

19. DAS Web Application Firewall, Phase 1

DAS project to utilize remaining ROI project funds. The main benefit of the Web Application Firewall (WAF) will be to protect production web applications from external attacks and close vulnerabilities found during web security penetration scanning (example: SQL-Injection, Cross-Site-Scripting and DDOS attacks). Once vulnerabilities are found in applications, the ISO can then blacklist the results using the WAF. This will help remediate vulnerable applications until coding or other means can be used to correct them or the application can be replaced if out of support and funding is found. With the large number web application hosted by the OCIO, having the WAF will help in the protection of vital applications that intake, store and display very sensitive data collected by the State of Iowa thus reducing the risk of a data breach.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.

This table includes ROI reimbursements processed through DAS Finance, as of December 31, 2014.

Table C: FY 12 ROI Project Expenditures

Project Name	Agency	% Complete	Original Request	Adjusted Request	Expenditures to-date	Obligated Funds	Estimated Complete Date
Continuous Vulnerability Management	Chief Information Officer	99%	\$ 585,000	\$ 585,000	\$ 581,953	\$ 3,047	5/1/15
Personnel Skills Assessment	Chief Information Officer	0%	\$ 400,000	\$ 400,000	\$ 0	\$ 400,000	5/1/15
Gateway & Enterprise E-Mail Encryption Services, Phase 2*	Chief Information Officer	N/A	\$ 300,000	\$ 300,000	\$ 0	\$ 0	N/A
Statewide Address Geocoding, Phase 2	Natural Resources	100%	\$ 550,000	\$ 194,000	\$ 194,000	\$ 0	Complete
Critical Response Notification System	Veterans' Home	0%	\$ 98,000	\$ 98,000	\$ 0	\$ 98,000	5/1/15
Customer Portal*	Human Services	100%	\$ 185,000	\$ 66,728	\$ 0	\$ 0	Returned
Web Application Firewall, Phase 2	Chief Information Officer	100%	\$ 0	\$ 0	\$ 41,728	\$ 0	Complete
Web Application Firewall, Phase 3	Chief Information Officer	0%	\$ 0	\$ 0	\$ 0	\$ 10,385	5/1/15
Gforge Update	Chief Information Officer	25%	\$ 0	\$ 0	\$ 3,758	\$ 10,857	5/1/15
Core Infrastructure & Security Architecture Upgrades	Chief Information Officer	94%			\$ 282,126	\$ 17,874	5/1/15
TOTALS			\$ 2,118,000	\$ 1,643,728	\$ 1,103,565	\$ 540,163	

FY 12 appropriation within the Technology Reinvestment Fund to the Department of Administrative Services for technology improvement projects was \$1,643,728.00

NOTE: ROI funds for the Gateway & Enterprise E-Mail Encryption Services, Phase 2 project were reallocated to fund the Core Infrastructure & Security Architecture Upgrades project. Also, returned funds from the DHS Customer Portal project were used to fund miscellaneous IT projects to benefit the enterprise.

FY 12 ROI funds revert on June 30, 2015

Table D. FY 12 ROI Project Descriptions and Funding Sources

1. Security: Continuous Vulnerability Management

Administrative Services project for the enterprise to fund phase two of the effort. In this phase of the security project, vulnerability-scanning devices will be deployed to all state agencies. This project includes vendor installation, hardware, software, project management, training, and technical consulting. The main outcome of the system is that all executive branch agencies receive timely and continuous automated IT audits for software vulnerabilities and for configuration management.

Funding Sources: HSEMD funding is augmenting this initiative and is being used to bring the same service to cities, counties and schools.

2. IT Personnel Skills Assessment

Administrative Services project for the enterprise to inventory and assess state personnel conducting IT functions. The scope includes skills such as programming, system design, system development, and other functions associated with IT staff. The goal of this assessment is to gather information to support the information technology redesign efforts by identifying the means to train and develop our IT professionals, as well as future needs of IT skills.

Funding Sources: The project is 100% funded from the ROI program.

3. Security: Gateway & Enterprise E-Mail Encryption Services, Phase 2

Administrative Services project for the enterprise to further improve gateway and e-mail encryption services. This security project will benefit the enterprise at large and will raise the security level of messaging to a level that would comply with the enterprise standards and defend against current cyber threats. Expected results include enhanced e-mail encryption, spam control and other related services.

Funding Sources: 100 % ROI Program funds.

4. Statewide Address Geocoding, Phase 2

Phase 2 of the JCIO and Natural Resources project continues production of driveway addresses points and building points to be used in a statewide geocoding and address service. Phase 1 covered most of western Iowa, with Phase 2 working on south-central and northeast Iowa. As of December 1, 2012: 50 Phase 1 counties completed, 20 Phase 2 counties in progress. Phase 2 funding will be expended by 6/30/2013. Additional funding is needed to complete the state. All current Phase 2 funding obligated.

Funding Sources: Pooled Technology Fund: \$550,000 requested to complete eastern part of state, \$194,000 awarded.

5. Critical Response Notification System

Iowa Veterans Home project for a critical response notification system for unified campus wide communication during an emergency or time sensitive event. The project will fill the gap between IVH's Disaster Recovery plan and State of Iowa communications and DR efforts including COOP/COG.

Funding Sources: Direct funding for this project provided entirely by the FY 12 ROI program.

6. DHS Customer Portal

Human Services project to build on two DHS projects (OASIS and the Medicaid Portal), and will join additional DHS projects, specifically DHS's Electronic Case File. OASIS is DHS's web-based intake system for lowans to begin the application process for several DHS programs. The Medicaid Portal was developed to support Medicaid providers, members and workers to web-enable the interactions each has with the Iowa Medicaid Enterprise. The unified Customer Portal will enable DHS customers across program boundaries to be able to securely interact with DHS workers and program staff.

Funding Sources: The total of \$66,728 was returned by DHS to be used for other technology projects of benefit to the enterprise. The DHS Portal project is complete, and the project was completed without the need for the additional ROI funds.

7. OCIO Core Infrastructure & Security Architecture Upgrades

Chief Information Officer project to obtain equipment to provide the ability for ISO and Networking to simultaneously monitor data interfaces at new, higher speeds, with equipment designed to handle the throughput. Key benefits of the project were creation of a core data monitoring fabric parallel to the new core network. This improved the ability to analyze traffic for performance and capacity concerns, and improved data security by providing more thorough, comprehensive and non-disruptive monitoring for data security threats.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.

8. OCIO Gforge Upgrade

Chief Information Officer project to use remaining ROI funds from another a completed project. This OCIO project proposal is a request ROI funds to upgrade our instance of GForge, which is a tool used for storing and managing application code, tracking defects and enhancements, and storing technical project documentation. Currently, GForge supports more than 1,200 users representing approximately 200 organizations across state agencies, cities, counties and vendor communities. There are over 1,000 code commits per month on 40-60 projects. In the near future, the OCIO intends to rollout GForge to other agencies such as DNR and ICN; however, the current version has some performance and functionality concerns at the application, database and server levels that need to be addressed before moving forward. There is also an intention to utilize funds for purchasing web enabled Smart HDTVs to be utilized for displaying dashboard monitors and metrics across the department.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.

9. OCIO Web Application Firewall, Phase 2

Chief Information Officer project to utilize remaining ROI project funds. The main benefit of the Web Application Firewall (WAF) will be to protect production web applications from external attacks and close vulnerabilities found during web security penetration scanning (example: SQL-Injection, Cross-Site-Scripting and DDOS attacks). Once vulnerabilities are found in applications, the ISO can then blacklist the results using the WAF. This will help remediate vulnerable applications until coding or other means can be used to correct them or the application can be replaced if out of support and funding is found. With the large number web application hosted by the OCIO, having the WAF will help in the protection of vital applications that intake, store and display very sensitive data collected by the State of Iowa thus reducing the risk of a data breach.

Funding Sources: Remaining ROI funds from other ROI project were expended for this project.