

FACT SHEET | Cybersecurity Reforms

An Opportunity Agenda for a Better Minnesota

Minnesotans expect and deserve a government that is accountable to hardworking taxpayers, and works at the speed of business to deliver the services people expect. The funding proposed in Governor Dayton's budget is targeted to help make Minnesota government work better, by cutting down on the paperwork that gets in the way of everyday life, and ensuring Minnesota state government is responsive to the people it serves. These investments will continue to improve customer service, protect Minnesotans' data, and secure a strong financial future for our state.

Strong Cybersecurity Defenses

Every day, Minnesota state government is subjected to millions of cyberattacks that attempt to interfere with state government or illegally access your private information. Thanks to Minnesota's team of cybersecurity experts, these attempts have been identified and prevented – so far. But as our world grows more connected, our systems need updating to ensure that Minnesotans' private data is safe and secure. That's why Governor Dayton wants to invest \$74 million to reform our information technology infrastructure and ensure it is up-to-date, safe, and secure

- **Minnesota IT Services** – *Securing the State (\$27M)*. State of Minnesota computers are under constant attack putting critical systems at risk and potentially exposing sensitive and confidential data. This request will minimize our risk exposure by migrating business systems to upgraded, modern, secure data centers, replacing and upgrading insecure networking gear, servers, and workstations, and reinforcing the State's Cyber Security Team by adding staff, and expanding monitoring, and other core security services to the entire executive branch.
- **Management & Budget** – *Security System & Risk Management (\$18.2M)*. The Statewide Integrated Financial Tools (SWIFT) system is the State's accounting and procurement solution. It was implemented in 2011 and has not been upgraded since. This system will soon be out of software support and become increasingly vulnerable to threats or software issues. This funding would allow Minnesota to upgrade SWIFT to continue software support, improve security, usability, and accessibility. This funding also will provide needed hardware replacements, software upgrades, disaster recovery, training, and adequate staffing to support the State of Minnesota's enterprise systems.
- **Corrections** – *Critical Technology Modernization (\$3M)*. The Correctional Operations Management System (COMS) is a mission-critical system that was built over 20 years ago. The current system is built on technologies that will be obsolete in less than 5 years and does not meet modern-day security and accessibility requirements. This budget request will allow the Department of Corrections to hire additional technical staff and to invest in technologies to modernize the system. This effort includes replacing outdated technologies, updating functionality to better support efficient business process and data requirements, and enhancing the accessibility and security of the system.
- **Office of Higher Education** – *Cybersecurity (\$2.6M)*. Most of the core business applications at the Office of Higher Education (OHE) are integrated within an obsolete core database from the 1980s, called INGRES. Finding resources to support the database and its integrated applications is difficult, and the resources that do exist today are within a short time window of retirement. This request would allow for the rewriting of the core business applications to integrate with a modern database that complies with state standards. This would both increase the security of the data and ensure continuity of operations for the Office of Higher Education.
- **Education** – *Mainframe (\$3.2M)*. The Department of Education's mainframe applications collect data, calculate and distribute more than \$6 billion dollars of state aid, and \$380 million dollars of federal aid to Minnesota school districts each year. The mainframe applications are written in an obsolete language that is based on version of COBOL that was last updated in 1974. The requested funding will allow for the design and building of a solution that is reliable, adaptable, scalable, and accessible so it can evolve as the needs of the Department of Education and Minnesota students change over time. It will use standards and technologies that are modern and widely used to ensure supportability.

- **Transportation** – *Cybersecurity Risk Management (\$20M)*. The Minnesota Department of Transportation relies on over 500 critical technology applications to support a transportation system that maximizes the health of people, the environment, the economy, and public safety. This investment would provide one-time funds to upgrade applications nearing end of support, and base funds to provide the ongoing preservation of secure applications with a comprehensive lifecycle plan. These applications serve all critical transportation systems and all transportation partners in our state, including: airports, construction, bridges, railroad, and other modes of transportation.

21st Century Digital Infrastructure

Imagine using the first-ever Macintosh computer – released over 30 years ago – to send email, find a job, or do your daily work. It sounds crazy, but a lot of Minnesota’s IT infrastructure is that old, and it is tasked with processing customer service requests for Minnesotans, hosting information online in an accessible, accountable way, and supporting the work of state government. Governor Dayton wants to invest \$51 million to begin the investments necessary for a modern digital infrastructure to ensure Minnesota state government works at the speed of business.

- **Administration** – *E-Procurement & IT Support (\$10M)*. The State of Minnesota purchases \$2.9 billion in goods and services annually. Procurement is performed today mostly through paper-based procedures that are inefficient, hinder purchasing staff productivity, and slow the overall purchasing process. In addition to inefficiencies, the state lacks sufficient data on what is being purchased, how much, by whom, and from whom. The result is that it is difficult to leverage our annual spending to support veteran, women, and minority-owned businesses across the state, bolstering economic growth. This request will fund the first phase of the implementation and maintenance of a computer system to simplify the purchasing process, making it easier for vendors to do business with the state, drive savings with improved data collection, and promote equity in the state’s procurement system, and ensure fair and robust competition.
- **Human Services** – *Integrated Service Delivery System (\$9M)*. This funding would support the ongoing development of an Integrated Service Delivery System (ISDS) and a Medicaid Management Information System (MMIS) used to process health care claims and payments to providers and managed care capitation payments to managed care organizations. This investment will replace aging and outdated technology with an integrated, people-centered service delivery system to streamline major business processes including eligibility, assessment, enrollment, and case management with automated tools to create, track, manage, and coordinate resources.
- **Human Services** – *Direct Care & Treatment Electronic Health Records System (\$2M)*. This funding would begin development of a modern electronic health record (EHR) system. Direct Care and Treatment (DCT) systems are used to bill for services, receive payment for services, provide physical security, operate facilities, document treatment, monitor medications, track compliance with federal and state regulations and standards, track individuals’ physical property, and ensure efficient and effective operations.
- **Labor & Industry** – *Labor Standards Technology Modernization (\$1.3M)*. The current labor standards system was developed more than 25 years ago. The most recent upgrade was performed 13 years ago and no new functionality has been added since. The system is old and has not kept up with the demands of the modern workplace. Using this system today requires inefficient and manual intervention to process claims and conduct investigations. A new case management system will automate these processes, making it easier to protect the rights of Minnesota’s labor force. Improved data collection will assist investigators responding to complaints of prevailing wage violations, reports of child labor law violations, and wage claim complaints.
- **Natural Resources** – *Next Generation Core Forestry Data Systems (\$4M)*. Minnesota Forestry’s current suite of primary business applications are slow-performing, non-integrated, technically diverse, aging, and cannot be used in the field. This request will build a modern, unified, integrated set of technology tools that will maximize staff productivity and allow field foresters to spend more time in Minnesota’s state forests, keeping our 4.2 million acres of forests and trees growing strong for future generations.

- **Nursing Board – Discipline Case Management (\$1M).** The current licensure and discipline case management system has been in use for more than 20 years. The platform is outdated, many components are no longer sustainable, and many functions are deficient. Most critical is the reporting function, which is ineffective and does not produce meaningful or accurate data. The deployment of an integrated, up-to-date technology solution for a discipline case management system will improve efficiency, add modern data analytics, and will improve the ability to monitor disciplinary and corrective actions, helping the Nursing Board to fulfill its mission and keep Minnesotans safe.
- **Perpich Center – Technology Initiative (\$2.2M).** This funding would allow for the replacement of all desktop computers, laptops, printers, and software at the Perpich Center for Arts Education.
- **Physical Therapy Board – Database Enhancements (\$100K).** The Health Professionals Services Program needs database improvements to better protect the public from persons regulated by the state’s Health Licensing Boards who are unable to practice with reasonable skill and safety. This request will enable case managers to more efficiently perform intakes with real time data entry – improving efficiency and eliminating the need to transcribe written materials into the system. These improvements will allow for better tracking, and reporting on persons regulated by the boards who are unable to practice with reasonable skill or safety due to illness, use of alcohol, drugs, chemicals, or any other substances, or as a result of any mental, physical, or psychological condition.
- **Public Safety – Predatory Offender Registration System (\$4.1M).** The Predatory Offender System, which fulfills the requirement from Minnesota Statutes, section 299C.093, was developed nearly 20 years ago and cannot easily be updated to meet current requirements, including integrations with other systems, and the ability to accept offender documentation electronically. Replacing this aging system will automate the submission and review process, allow electronic document storage for easier retrieval, improve the process for submitting records to the National Sex Offender Registry, and improve sharing of information with law enforcement.
- **Education – Online Individualized Education Program (\$1.4M).** While some Minnesota school districts and vendors have Individual Education Program (IEP) case management software today, many districts and schools are without this tool and must process special education cases manually. This request will close the gap between those districts and schools with vendor software and those without by making one universal IEP case management software application available to all Minnesota organizations providing special education.
- **Higher Education – Minnesota Statewide Longitudinal Education Data System IT Infrastructure (\$520K).** Currently, the Office of Higher Education’s web presence is built upon a non-standard platform. This poses a high risk to OHE, and only one individual staffer that is able to provide web support for this platform. This request would allow for rewriting OHE’s web sites and web applications to a standard, supported language, and migrating the system to a modern, secure data center.
- **Management & Budget – Building a 21st Century Workforce (\$15M).** Today, state agencies determine their own approaches to employee training, development, and performance management – duplicating many efforts. Agency interest, expertise, and budget varies widely, resulting in inconsistent practice and quality leading to an increase in risk for compliance issues, turnover, reduced productivity, and poor customer service. This funding would allow MMB to create a statewide talent management system to provide consistent tracking, management, and reporting of key factors required to develop and maintain our state workforce. This system would provide secure access to previously manual and paper based records, and would improve operating efficiency for the State of Minnesota.