INFORMATION ITEM

FOLLOW-UP TO JUNE 14, 2023 MEETING BOARD MEMBER QUESTIONS
Commonwealth Office of Technology (COT)

During the June 14, 2023 Capital Planning Advisory Board meeting, the following question was raised regarding COT's Information Technology Project Review for the 2024-2030 planning period.

1) Can we please get paragraph project descriptions of the 12 capital IT projects ranked for the 2024-2030 planning period?

Capital Projects Advisory Board staff compiled the project descriptions submitted by agencies to the Capital Planning System in response to the question and shared with Ruth Day, Chief Information Offier, COT for confirmation. The following attachment titled "Capital IT Project Review 2024-2030" encompasses the revised list.

BOARD ACTION: Information only. No action is required.

Capital IT Project Review 2024-2030
Funds Requested by Ranking

Ranking	Cabinet	Project	General Funds	Other Funds	Total Project Budget ($)
1	FIN	Legacy Modernization	GF		20,000,000

Project Description: The Commonwealth has used the previously awarded Legacy System Retirement Capital Fund to help numerous executive branch cabinets upgrade outdated, unsupported legacy IT systems; move from a legacy system to a modern solution; move from manual, inefficient process to robust, modern systems; improve features and functionalities for constituents and others doing business with the Commonwealth; eliminates security and compliance risks identified in running an outdated system; replace technology that no longer functions; and/or improve processes of essential business functions of a cabinet/agency.

As the Commonwealth Office of Technology (COT) continues to work with cabinets, they continue to identify systems that no longer have vendor support or upgrades, systems that are on outdated hardware and operating systems, and systems that simply no longer work. By continuing to fund this effort, it takes the financial burden off of agencies when a system they are using is identified as a legacy, unsupported system.

Ranking	Cabinet	Project	General Funds	Other Funds	Total Project Budget ($)
2	KYTC	AASHTOWare Upgrades		Road	1,600,000

Project Description: KYTC currently subscribes to the AASHTOWare Project™, Bridge Maintenance™, Bridge Rating, and Pavement Management applications. In order to stay current with changes in Federal Regulations and technology, we have to implement new versions of the software on a regular basis. Many of these products are moving from client-server based to web-based requiring a more in-depth upgrade path and required support from the vendor and internal staff. KYTC requires programs to support Construction Procurement bid package preparation, letting and bid management and Highway Construction Project management, FHWA mandates that we maintain a Bridge Inventory and record and report bridge and tunnel inspection data. AASHTO Project™ and Bridge Management™ support those requirements. AASHTOWare Project™ and Bridge Management™ provides:
1. Secure electronic bid advertising, solicitation and tabulation.
2. Bid analysis to avoid and detect collision, incomplete or unbalanced bids and decision support software.
3. Construction Contract management and oversight scalable for thousands of contracts. About $1 billion of transportation project spending is processed thru AASHTOWare Project™ annually. The record keeping in Project™ is required for reimbursement on federally funded projects.
4. Bridge Maintenance Inventory and management software for KYTC bridge maintenance, inventory, safety management and planning.
5. Bridge Maintenance will also perform deterioration modeling and optimize bridge maintenance programs. The modeling and optimization are required by the Map21 TMP statutes.
In addition, AASHTOWare project solicitations to develop new software and redesign existing software are pending and KYTC would benefit from being a participant. Participants are able to inject their own best practices and design ideas into the projects which will result in more acceptable solutions for KYTC.

Ranking	Cabinet	Project	General Funds	Other Funds	Total Project Budget ($)
3	CHFS	SAMS Replacement	GF		13,000,000

Project Description: The Social Assistance Management System (SAMS) was developed for the Department for Aging and Independent Living (DAIL) to track all activity for the clients we serve. SAMS is a comprehensive consumer and case management data system that combines electronic client records and a service unit tracking system. SAMS includes current and historical vital information and services received across most of the programs that we provide. Funding will be used to replace the Department for Aging and Independent Living (DAIL) Social Assistance Management Systems (SAMS) information technology (IT) application. The current SAMS IT application is out of compliance with federal reporting requirements for the Older Americans Act, Centers for Medicare and Medicaid Services, Department of Labor, and other federal reporting agencies. Application development and software technology lifecycles run three to five years and modernization efforts are essential to maintaining services to field workers and the most vulnerable citizens of the Commonwealth.

Ranking	Cabinet	Project	General Funds	Other Funds	Total Project Budget ($)
4	GEN	Kentucky Wired Critical Infrastructure Upgrades	GF		12,927,000

Project Description: This project supports the continued operation of the KentuckyWired network. As with any telecommunications network, core equipment must be upgraded at appropriate intervals to continue to provide the flexibility, bandwidth and performance needed to provide service to the agencies connected to the network. This 'System Refresh' is included in the KentuckyWired contract as a Commonwealth obligation. KCNA will implement this project over 3 biennial periods, and it provides for the replacement of the core optical switching, core routing, and edge routing equipment utilized by the KentuckyWired network to provide services to agencies located in all 120 counties across the state of Kentucky. The nature of this project is such that its asset requirements are fluid. Periodic infrastructure upgrades are required due to technological innovation, demand changes, and performance requirements. As such, the required funding should also be viewed as dynamic.

Ranking	Cabinet	Project	General Funds	Other Funds	Total Project Budget ($)
5	ELC	KET Capitol Production Center Maintenance Pool 2023-2030	GF		1,000,000

Project Description: Utilizing the statewide broadcast network, KET provides access to several functions of state government to the Commonwealth. Supreme Court proceedings, Legislative committee meetings, House and Senate chamber sessions, Gubernatorial inaugurations, live productions such as Kentucky Tonight and Kentucky Edition are a sampling of the important events shared through KET. Ongoing maintenance and replacement of equipment is critical to the continued operations of this important facility. KET provides access to several functions of state government to the Commonwealth. Supreme Court proceedings, Legislative committee meetings, House and Senate chamber sessions, Gubernatorial inaugurations, and live productions are a portion of the important events shared to citizens of the Commonwealth. Ongoing maintenance and replacement of equipment is critical to the continued operations of this important facility.

6	FIN	eMARS Upgrade & Enhancement	GF		3,500,000

Project Description: It is our mission to provide a fully integrated system that meets the Commonwealth's statutory requirements for the Executive, Judicial and Legislative Branches of government. Additional funds would allow the development and implementation of a statewide Travel and Expense Management solution within the Enhanced Administrative and Reporting Application (eMARS). A statewide travel installation would allow standardization across the Commonwealth for all travel authorizations and travel expense reimbursement requests entered by employees and approved by their managers, and allow the traveler to book and reserve flights and hotel rooms all in one place. This would allow for better tracking of employee travel and allow all receipts to be entered electronically into one system without having to handle paper copies and multiple rounds of internal approvals. Employees would be able to track their reimbursement for travel and have visibility with their reimbursement requests including the ability to view pending payments that have been scheduled but not paid.

Investing in the current enterprise solution allows for improved efficiencies for the stakeholders and citizens through modernization and transparency.

7	ELC	Case Management System for Vocational Rehabilitation	Federal		3,180,000

Project Description: The current system used by Vocational Rehabilitation for Case Management is 14 years old. It does not meet all business requirements currently and resides on outdated technology platforms. The Kentucky Vocational Rehabilitation program is a federal/state program that works with people who have physical or mental disabilities to prepare for, gain, or retain meaningful employment. The program is authorized by the federal Rehabilitation Act of 1973. The current Case Management System was implemented in 2008, and is primarily an in-house custom developed system. The technology used is now outdated and OVR is unable to deploy new enhancements and updates. An new and improved system will allow for less development support dollars for OTS and reduce Agency Analysts costs.

8	JUS	KSP Telecommunicator Technology Enhancement Project	GF		2,200,000

Project Description: Technology in KSP's Dispatch Centers at the Posts is of vital importance in assisting the public in the Commonwealth and providing life-saving aid by dispatching first responders to a multitude of events throughout the year. KSP needs to take the next step in modernizing the equipment utilized in the dispatch centers to work efficiently and provide the optimal environment for telecommunicators. At one console position, KSP has 4 computers that are being used by the telecommunicator. All 4 of the computers are housed in cabinets at the console position. A Post with 6 positions will have 24 computers in a small area generating heat, noise, and collecting dust. The amount of cabling needed from the 4 computers makes it hard to troubleshoot, support, and upgrade the equipment. At each position, the telecommunicator has 4 keyboards and 4 mouse to control the 4 computers. The computers provide CAD/NCIC access, Radio Communication, 911/Phone Communication, and mapping/backup CAD functionality. There is technology available that KSP can purchase that will enable the 4 computers and all the cabling to be relocated to a controlled server room environment at the Post. The technology would eliminate the extra noise and heat from the dispatch center as well as provide more physical space for the console area for the telecommunicator. The technology would also allow the telecommunicator to have only 1 keyboard and mouse instead of 4 separate ones, which will make the telecommunicator more effective in handling all the necessary systems. The technology would be installed at all 16 KSP Posts.

9	PPC	HBC Application Modernization (HAM)	Restricted		3,588,000

Project Description: The Department of Housing, Buildings and Construction ("HBC") currently uses a vendor application called SmartGOV for its permitting, inspections, and licensing. The existing vendor application does not track all aspects of licensing, is limited in functionality, and is paper-intensive. A performance issue also exists within the system for which the vendor has yet to produce a solution. The response to changes and improvements also moves slowly and causes several issues for licensing staff, inspectors, and the public. The agency's workload has increased tremendously over the past two years due to many economic development projects happening throughout the Commonwealth. As a result, HBC needs a system that effectively tracks all the licensing, permitting, and inspection data and is also effective for all inspectors, administrative staff, and plan reviewers. This new system would allow them to complete their jobs faster and more efficiently, thereby providing the citizens of Kentucky with the most timely and accurate customer service.

10	ELC	KET Rural Service Access and Reception	GF		20,000,000

Project Description: The new broadcast antennas and transmitters installed in 2019 during the Spectrum Repack increased reception of KET's over-the-air signals from 86% to 90% of households statewide. Yet, KET's signals are still difficult or impossible to receive in some rural areas located far from a KET transmission tower or in small towns situated in hollows and valleys. Unfortunately, 10% of Kentucky households cannot receive KET over the air. To increase rural service, access, and reception of KET, additional transmission sites are needed to fill in coverage gaps. Utilizing single frequency networks (a new ATSC 3.0 technology), KET can place small transmitters in the dead zones and boost the signal – on the same channel – into rural homes. These requests support educational, cultural, and public service and legislative coverage.

11	ELC	Adult Education Modernization System		GF		2,800,000

Project Description: The current system is over 10 years old. It lacks best practices, latest security enhancements and clean data. The adult education agency was moved under Education & Labor Cabinet from Council of Post Secondary Education (CPE) in 2019 and the system support is transferred from CPE to Office of Technology Services (OTS) under the Education and Labor cabinet. OTS took the system(s) and maintaining as it is and implemented some of the best practices to the extent possible to operate and maintain the system.

These systems were built over 10 years and requires a complete overhaul. The systems lack following best practices for Software Development Life Cycle and has issues with data integrity, workflow, business rules, security vulnerabilities, application validations and audit trail. It has caused lot of unnecessary time supporting the system and is not efficient from both technology and business. It did not allow to improve on the system and continues to operate at the same level as before.

With the insight gained in the last 3 years, we are proposing these systems requires upgrades/replacements to modern versions of software and take advantage of the tool sets and technologies that are available currently. We will be upgrading/replacing all student facing, staff facing applications introduce validations and business rules and workflows with emphasis on better security and audit in place.

12	ELC	Case Management System for Workforce Innovation Opportunity Act		Federal		3,250,000

Project Description: The current Workforce Case Management that is used for WIOA program was developed in 2018 as Enterprise Salesforce Platform including Medicaid waiver and workforce programs. In July, 2021 the cabinet for Health and family has moved out of the enterprise salesforce platform. We need a system that connects well with all workforce programs. The Education and Labor cabinet's goal is to deliver workforce services in a flexible, seamless manner to engage citizens and effectively connect job supply and demand. Align education and workforce programs with labor market demands to connect job creators with qualified employees and prepare individuals for productive employment. Modernize and utilize technological platforms to connect agency information systems to improve transparency and to provide consistent case management, performance reporting. Providing quality services to the employer, citizen and connecting the skills and demand to continuously improve economic outlook.

INFORMATION ITEM

FOLLOW-UP TO JUNE 14, 2023 MEETING BOARD MEMBER QUESTIONS
Department of Veterans' Affairs (DVA)

During the June 14, 2023 Capital Planning Advisory Board meeting, the following question was raised regarding proposed projects included in the DVA's six-year capital plan. Ms. Teresa Lajara, Executive Director, Office of Legislative and Intergovernmental Affairs, Finance and Administration Cabinet, provided a response to the question via email correspondence. Ms. Lajara's response to the question appears in bold italic.

1) Regarding the Radcliff HVAC System Replacement proposed project, what was the current HVAC system's original cost? ***Ten years ago, in 2013, the equipment and the installation of the HVAC system in the new Veterans' Center in Radcliff cost about $4 million, which equates to over $6 million in 2023 construction dollars. There were additional costs associated with required electrical or gas feeders. The proposed replacement HVAC system is more expensive, replacing a Variably Refrigerant Flow system with a 4 pipe hydronic system, which is necessary to meet the demanding critical 24/7 requirements of Nursing Facilities.***

BOARD ACTION: Information only. No action is required.

INFORMATION ITEM

FOLLOW-UP TO JUNE 14, 2023 MEETING BOARD MEMBER QUESTIONS
Kentucky Communications Network Authority (KCNA)

During the June 14, 2023 Capital Planning Advisory Board meeting, the following question was raised regarding proposed projects included in KCNA's six-year capital plan. Mitch Powers, Controller, KCNA, provided a response to the question via email correspondence. Mr. Powers's response to the question appears in bold italic.

1) What percentage of KentuckyWired circuits are at service speeds of 25 Mbps or lower?
   23% of the circuits provisioned on the KentuckyWired network are below 30 Mbps. For clarification, circuits are migrated to the KentuckyWired network at 5 times the bandwidth they were receiving from their previous provider. This is not a limitation of the KentuckyWired network or equipment. It is a product of providing 5 times their previous speed. There is a process in place for the agencies to request a bandwidth increase, and we do process those as they are received.

BOARD ACTION: Information only. No action is required.