Building a Smart and Sustainable Fiscal Information Infrastructure Plan (2027-2031)

I. Plan Objectives

With the goals of “improving data center energy efficiency,” “enhancing the platform’s smart operation efficiency,” and “strengthening the resilience of information and communication equipment networks,” the FIA will promote energy conservation and stable operation of data centers, intelligent computing power construction and sharing, platform upgrades and smart operation, smart monitoring, cybersecurity, and strengthening the resilience of ICT facilities, so as to achieve the vision of “creating intelligent and sustainable operation of financial information and improving the robust resilience of digital infrastructure.”

II. Implementation Content

A. Improving data center energy efficiency

The plan includes replacing the old chiller main units in the National Taxation Bureaus (excluding the National Taxation Bureau of the Central Area, NTBCA); upgrading the substation on the first basement floor of the Fiscal Information Agency and replacing the air conditioning pumps; replacing Uninterruptible Power Supply (UPS) equipment and battery packs; maintaining the data center environmental control system and cabinet management system, etc., and integrating various power, air conditioning, and information systems to automatically monitor the status of power equipment.

B. Enhancing the platform’s smart operation efficiency

- Building a smart operation infrastructure

  The computing resources required for generative AI and agent-based AI are centrally integrated into a smart computing power sharing platform and to create a smart operation infrastructure; local tax platforms and national tax platforms utilize virtualization technology to flexibly allocate information resources and improve smart operation efficiency.

- Strengthen the smart operation early warning mechanism

  Strengthen monitoring of networks, servers, databases, shared system software, and applications; integrate unstructured data such as logs and event tickets collected by monitoring tools; utilize artificial intelligence technology to build anomaly detection models and send alerts; and use visual graphics to quickly identify and confirm problems that need to be fixed.

- Improve information security protection

  Security Operations Center (SOC) will include newly added equipment in the monitoring scope, the Security Orchestration, Automation, and Response (SOAR) mechanism is expected to be implemented, and the maintenance and

operation process will be optimized; continue to provide Virtual Private Network (VPN) services, combined with multi-factor authentication (MFA) mechanism, to implement security control measures; and continue to provide maintenance and operation management of the email system and data leakage prevention system to enhance digital cybersecurity resilience.

C. Strengthening the resilience of information and communication equipment networks

- Replace network security equipment to improve the availability and reliability of network switching; continuously maintain network infrastructure, introduce automated network platform maintenance mechanisms, and strengthen network security.
- Promote the maintenance and upgrading of the cloud platform of the shared data center to realize the protection, backup and recovery capabilities of digital data, shorten the service interruption time due to disasters, and improve the degree of resource integration and sharing by utilizing the dynamic resource adjustment capabilities of cloud services.

III. Expected Benefits

A. Enhance the capacity of smart operations

By establishing a shared intelligent computing platform, the project provides computational services for generative and agent-based AI, reducing unit usage costs. Centralized management and professional maintenance enhance computing power utilization and system performance. The project incorporates intelligent information technology (IT) maintenance, utilizing machine learning and AI management tools to build anomaly detection models. Through anomaly prediction and analysis and quick resolution, the project reduces the manpower burden of platform maintenance and ensures stable and reliable tax services, thereby improving capacity and accessibility.

B. Strengthen digital resilience

Outdated terminal network equipment was replaced and upgraded to optimize terminal network information and communication security. Core network information and communication security equipment was also replaced, and continuous management and maintenance of the financial network's information and communication security hardware and software were provided to ensure network smoothness and security, thereby enhancing the digital resilience of financial information operations. Furthermore, the maintenance and upgrade of the shared data center cloud platform were promoted to achieve digital data protection, backup, and recovery, shortening service interruption time due to disasters, strengthening the digital resilience of information services, and

providing greater flexibility and service capacity for financial information operations.

C. Improve operational efficiency

Continue to maintain and operate the national tax platform, local tax platform, and shared data center cloud platform to improve platform operation efficiency and strengthen information security protection; in line with the continuous growth of fiscal data, the FIA will maintain available storage space and operational standards to provide complete and comprehensive tax application functions and create added value for fiscal data.

D. Implement energy conservation and carbon reduction

By upgrading and replacing outdated equipment and improving the maintenance of data center facilities, it is expected to improve the stability and reliability of data center infrastructure, reduce equipment failures and downtime, improve energy efficiency and service quality, and ensure the continuous operation of information services.

E. Improve the effectiveness of information and communication security protection

By using Security Operations Center (SOC) for overall monitoring, the costs of i ndividual testing and management of each project are reduced, providing a stabl e, scalable, and highly resilient cybersecurity infrastructure. The maintenance an d management of the email and data leakage prevention systems of the MOF's F iscal Information Agency and the National Taxation Bureaus provide a flexible a nd secure remote maintenance mechanism, reducing anomaly handling time, and enhancing the resilience and security of critical financial and tax core systems.