

## **Smart Link Project for Documents and Records**

The Smart Link Project for Documents and Records ("the Project") takes documents and records as the core focus of a quest to launch document and record digital services that take advantage of emerging technologies. Toward that end, the Project will employ artificial intelligence, blockchain technology, and other smart technologies, and link them to electronic official document exchange services, document and record information systems, and the security of document and record information systems, thereby achieving the goals of smart evolution, smart integration, and smart protection, respectively.

### **(1) Open-data documents and records**

We intend to use open-source or commercial toolkit software to introduce blockchain technology, develop an open electronic official document exchange and transmission recording application, and then develop and install an electronic official document exchange and transmission recording & storage system that features open distributed storage. In addition, we are also planning advanced document and record information system functions to facilitate faster public availability of and access to records, and we intend to introduce artificial intelligence to improve the quality of AI-driven record recommendations.

### **(2) Use of documents and records to assist policymaking**

We will establish semantic network models and keyword analysis to visualize semantic networks, thereby understanding the distribution of relevant topics and facilitating their search and retrieval. We also intend to plan and build a one-stop smart service platform for records. It will be fully online (electronic records in place of hardcopy) and will feature mobile operations (work can be done using mobile devices) and an all-in-one administrative services platform that will help government agencies at all levels to safely and quickly complete the compilation and publication of records catalogs, as well as the transfer of national archives.

### (3) User-friendly document and record services

We will develop an electronic official document exchange smart distribution module that will use artificial intelligence to learn the patterns of an organization's document releases. Persons in the organization who release documents will then be allowed to use the electronic official document exchange's smart distribution module function to control the timing of official document releases. We will adopt an online mechanism for applying for electronic document exchange and transmission service, and automatically activate electronic official document exchange services at government agencies (institutions), schools, and enterprises, which will eliminate the need to submit hardcopy applications for official documents. We will create application programming interface (API) authentication specifications for document and record systems, including API call methods, syntax rules, and interface types to create a closer linkage between official document systems and government agency administrative systems.

### (4) Building of a smart national archives facility

Taking advantage of Internet of Things (IoT) technology, we will install IoT devices (or sensors) at appropriate locations in the national archives facility, thus building a national archives facility IoT network and incorporating artificial intelligence into it to create automated smart apps (e.g. smart energy savings and document stream management) for the national archives repository. We will introduce face recognition, foot traffic guidance, and automated door access systems to transition toward smart management, and will combine these technologies with messaging software to ensure instant receipt of warnings and other messages. We will also use virtual, augmented, and mixed reality technologies to develop story houses, dialogue devices, and guide robots that enrich the experience of visitors to the national archives facility.

The Project seeks to introduce smart and emerging technologies into our document and record operations, bring our methods in line with international practices and future trends, improve the functionality of the national archives facility information services so that we can achieve our vision of a digital transformation in our document and record services.