

Advancing Digital Transformation in IP Administration

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Advancing Digital Transformation in IP Administration

In 2025, MOIP advanced the digital transformation of IP administration as part of a broader effort to make IP services more accessible, efficient, and responsive to a rapidly changing innovation environment. Key initiatives included upgrading the national IP search platform, opening AI-ready IP datasets, establishing an AI-assisted patent trial and appeal system, and laying the groundwork for the first overseas application of Korea's AI-based IP administration model. Together, these efforts strengthened Korea's digital IP infrastructure while expanding the role of AI and data across key areas of IP administration.

The upgrade comprehensively revamped the platform's search and user interface. A unified search function allows users to retrieve both domestic and overseas information through a single query, while redesigned menus and a two-panel results page improve readability and streamline access to search results. Accessibility was also enhanced across devices and languages by allowing displays to adjust automatically on personal computers, tablets, and smartphones and by integrating the Korean and English websites into a single interface for seamless language switching.

KIPRIS' analytical capabilities were also strengthened. Search results can be viewed in tables, charts, and graphs, while expanded statistics covering overseas trademark and design data support more effective global market and technology analysis. These improvements make KIPRIS a more accessible, intuitive, and analytically powerful platform for IP-based research, innovation, and business decision-making.

01 Upgrade of the KIPRIS Search Platform

In February 2025, MOIP launched a fully upgraded version of the Korea Intellectual Property Rights Information Service (KIPRIS, <https://www.kipris.or.kr/>), making it easier and more efficient for users to search, access, and analyze IP information. KIPRIS is Korea's free public platform for searching domestic and international IP information. It provides integrated access to patent, trademark, and design publications from 29 countries and organizations, along with domestic administrative information on applications, examination, registration, and other IP procedures.

02 IP Data Opened for AI Innovation on KIPRISplus

In April 2025, MOIP released seven high-quality, AI-ready IP datasets free of charge through KIPRISplus (plus.kipris.or.kr/).

Current Status of AI in IP Administration

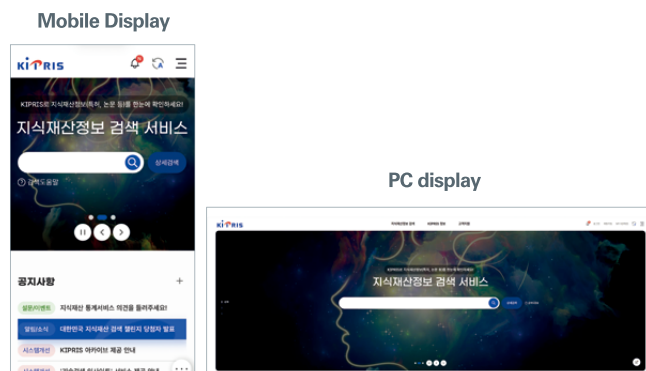
Patents	Improved Similar Sentence Search, New Private-sector AI Systems Connection
Trademarks & Designs	Improved Expanded Search Scope
Trials & Appeals	New Similar Case Search
	New Relevant Trial and Court Judgment Recommendation

or.kr), Korea's public platform for providing large volumes of structured domestic and international IP data through Open APIs and bulk-data services. Unlike KIPRIS, which allows users to search and view IP information online, KIPRISplus is designed to support large-scale access to and use of patent, trademark, design, and other IP data.

The initiative responds to growing demand for reliable training resources across the AI sector. Patent information is increasingly valuable for technology analysis and innovation, but the complex structure of patent documents and their specialized terminology make it costly and time-consuming to prepare raw information for AI development.

The newly released datasets cover 1) Korean patent and utility model publications; 2) U.S. patent publications; 3) notifications of grounds for rejection and decisions of refusal; 4) Korean-English machine translations of patent family data; 5) International Patent Classification data; 6) machine-reading comprehension data for patent consultations; and 7) patent customer consultation cases.

The release is expected to reduce the time and cost required to prepare patent data for AI training while supporting the development of patent analysis tools, technology intelligence services, IP consultation chatbots, and other AI-powered applications. It also marks an important step toward strengthening Korea's AI ecosystem and enhancing the competitiveness of its IP information services industry.



03 *AI-Based Digital Patent Trial and Appeal System*

In December 2025, MOIP completed a three-year development of its AI-based Digital Patent Trial and Appeal System, marking a significant advance in the digital transformation of Korea's IP trial and appeal services. Developed from 2023 to 2025 with an investment of KRW 8.1 billion, the system was designed around the needs of both users and administrative patent judges.

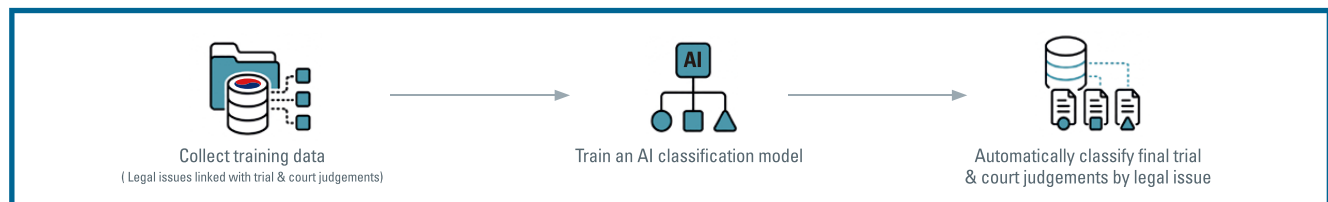
The first two phases focused on improving the convenience and accessibility of services for parties involved in trial and appeal proceedings. Building on this foundation, the final phase introduced advanced AI and digital tools to support faster case review and more consistent decision-making.

A key function of the system is an AI-based recommendation tool that draws on approximately 180,000 trial decisions and court judgments held by MOIP. It automatically classifies cases by legal and technical issue, summarizes the grounds (issues) raised in each case, and recommends recent decisions involving similar issues. By providing rapid access to relevant precedents, the function reduces the burden of manual searches and promotes greater consistency in decision-making.

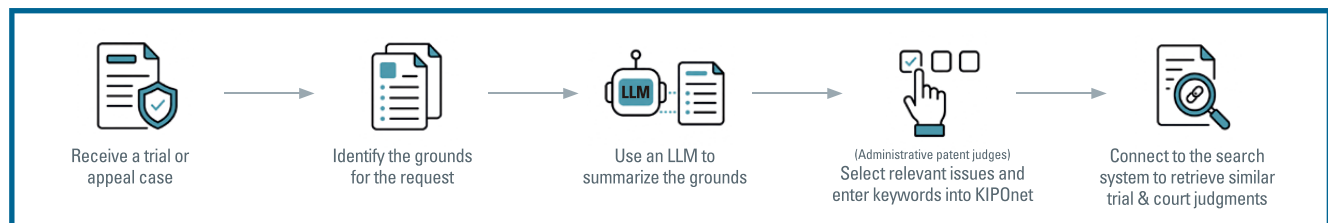
The system also includes an automated tool that compares registered patent specifications with corrected versions, together with a pre-issuance review function that identifies potential deficiencies in draft decisions before they are finalized. These functions strengthen adjudication support and enhance the accuracy and reliability of patent trial and appeal services.

By combining user-centered design with AI-powered decision support, the system lays a strong foundation for more efficient and reliable patent adjudication. MOIP will continue to refine the platform in response to evolving user needs.

Data Structuring based Classification of Decisions by Legal Issue



Integration of Similar-Issue Recommendations and Search Tools



04 Korea's Digital IP Administration Model Export Overseas

In December 2025, MOIP announced a large-scale cooperation project with Uzbekistan that will become the first overseas application of Korea's AI-based intellectual property administration model. Funded through Korea's official development assistance (ODA) program, the project will establish an integrated digital administration system for patents, trademarks, and designs in Uzbekistan from 2026 to 2029. With a total budget of USD 9.73 million (approximately KRW 13.4 billion), it will be the largest overseas project to date involving Korea's IP administration system.

Drawing on Korea's extensive experience in digitalizing intellectual property services, the new system will support key functions such as classification, information searches, public search services, and statistical analysis across patents, trademarks, and designs. The project is intended not only to introduce digital infrastructure, but also to apply

Korea's experience in building efficient and reliable IP administration systems in an overseas setting.

To support effective implementation, the project will also provide system stabilization and operational support, alongside capacity-building programs for Uzbek government officials. By combining digital infrastructure, AI technologies, and institutional capacity building, the initiative is expected to contribute to the development of Uzbekistan's IP administration while broadening the international application of Korea's digital IP expertise.

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