

	<p>○ <b>Development of element technology for prevention of copyright dispute of R&amp;D output</b></p> <p>Developed a technology that can apply DRM (watermarking or fingerprinting) technology to protect copyrights of national research report (PDF/A) and intermediate output (pictures, photos, etc.). Development of tracking monitoring technology that can collect and analyze real time logs using UCI.</p> <p>○ <b>Development of copyright infringer self-inspection software</b></p> <p>Develop software that can self-check the copyright infringement of the national research report.</p> <p>○ <b>Cloud-based copyright management technology development</b></p> <p>Developed to manage the history of similarity check and citation index services by applying cloud computing technology to manage copyright based on R&amp;D workflow</p> <p>○ <b>Provide copyright API service</b></p> <p>Provides developed element technology through open API service.</p> <p>○ <b>National research report construction of copyright management portal system</b></p> <p>Develop system to systematically manage and service copyright of national research report. It develops and operates services to enable the exchange of national research reports and technologies necessary for R&amp;D. Major services include similarity search service, copyright search service, and usage monitoring service. We provide convenience services for each user through workflow-based services, and provide personalized cloud customized services. The copyright management portal system (www.nrcs.co.kr) operates trial services in December 2016.</p>
Expected Contribution	<p>○ <b>Technical expectation effect</b></p> <p>It is possible to activate research and technology convergence by researching copyright similarity analysis and copyright automatic citation search service technology for activation of national research report.</p> <p>It is possible to prepare a national research report and countermeasures to prevent the outflow of output products due to the development of illegal copy and infringement prevention technology.</p> <p>○ <b>Economic expectation effect</b></p> <p>National R&amp;D intellectual property use and distribution system established by systematic copyright management of national research report and output.</p>