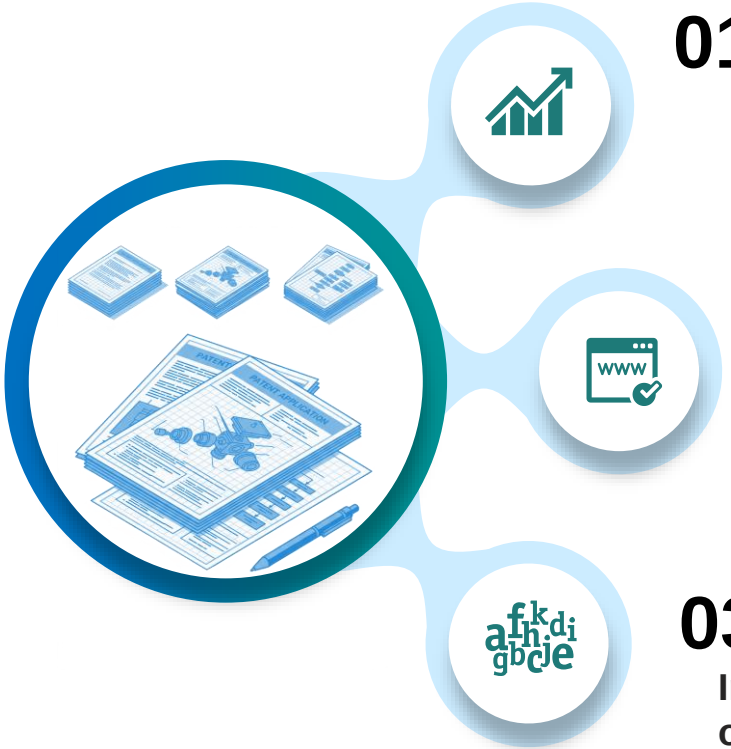
TIPO’s New Prior Art Search Tool

-From Keyword Matching to Semantic Search

New Challenges in Patent Search



01 Data expansion and reading time

Patents are lengthy and technically complex, making manual comparison extremely time-consuming and labor-intensive.

02 Limitations of traditional keyword search

Traditional search methods have limited efficiency, relying solely on keyword searches and requiring multiple adjustments to the search query.

03 International patent language barriers

International patents have become an important source of information, but cross-language barriers exist in searching patent information from multiple economies.

Establish an intelligent patent search system

Artificial intelligence technology is used to assist in patent data retrieval, providing faster and more complete prior art search results.

Improve search efficiency

AI-assisted patent content reading significantly reduces search and reading time.



Improve search completeness

By incorporating semantic retrieval technology, we can accurately identify concepts and reduce the risk of human error.

Enhance cross-language search capabilities

Supports direct searches in Traditional Chinese and simultaneously retrieves patent information from both TIPO and the USPTO.

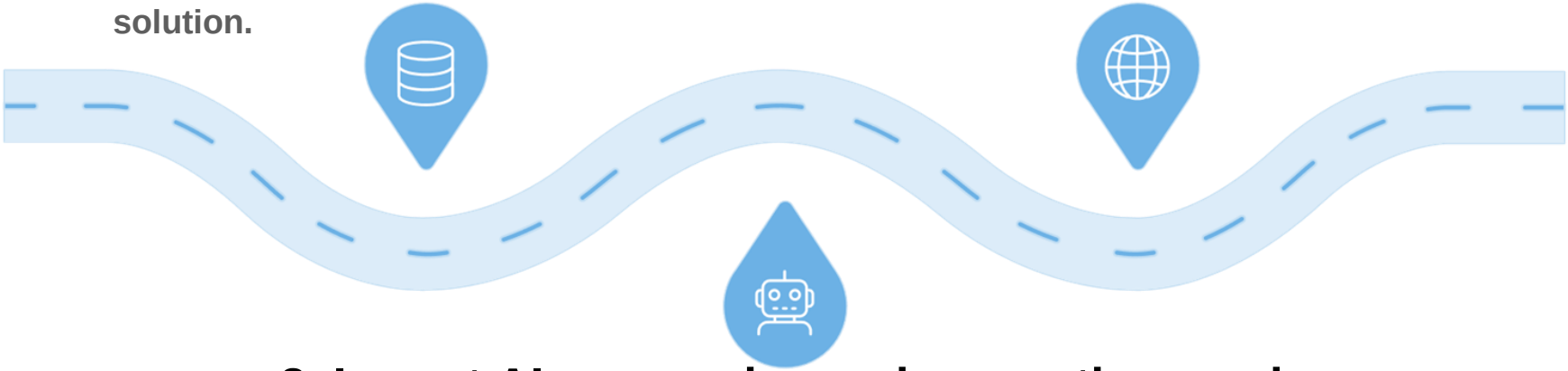
From Data to Application

1. Patent Data Foundation

Collect patent data from TIPO in the communications and networking field. This stage focuses on ensuring data completeness and validating the proposed solution.

3. Expand cross-border search

Add USPTO data to support cross-language retrieval



2. Import AI summaries and semantic search

Establish AI- powered summarization, semantic retrieval, and similar paragraph comparison capabilities.

AI- Assisted Search System



Patent Specification Summarization

Provides LLM summarization to quickly extract and organize technical highlights, assisting users in efficient reading or serving as subsequent semantic search input.

Similar Prior Art Comparison

Uses LLM-generated summaries, claims, or embodiments to compare similar prior art and identify relevant patents with a single click.

Similar Paragraph Comparison

Automates the comparison of query content with prior art technical content, accurately identifying similar paragraphs in both.

Traditional vs. AI- assisted prior case retrieval tools

Traditional search

Manually reading
Manual reading is time-consuming, causes fatigue, and easily misses key points.

Keyword searches
is limited by synonyms and expressions.

Single-language search
require foreign language skills or rely on inaccurate machine translation.

Manually find similar paragraphs
The comparison process is cumbersome.

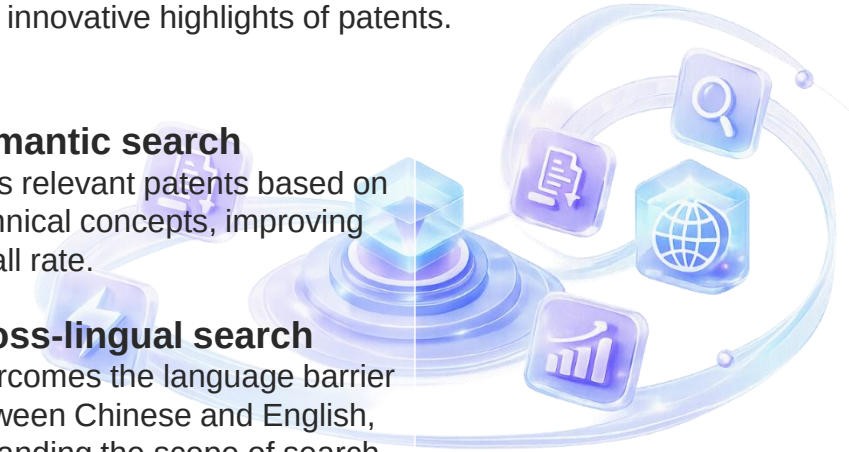
AI-Assisted Search

AI automatically summarizes
to quickly grasp the core technologies and innovative highlights of patents.

Semantic search
finds relevant patents based on technical concepts, improving recall rate.

Cross-lingual search
overcomes the language barrier between Chinese and English, expanding the scope of search.

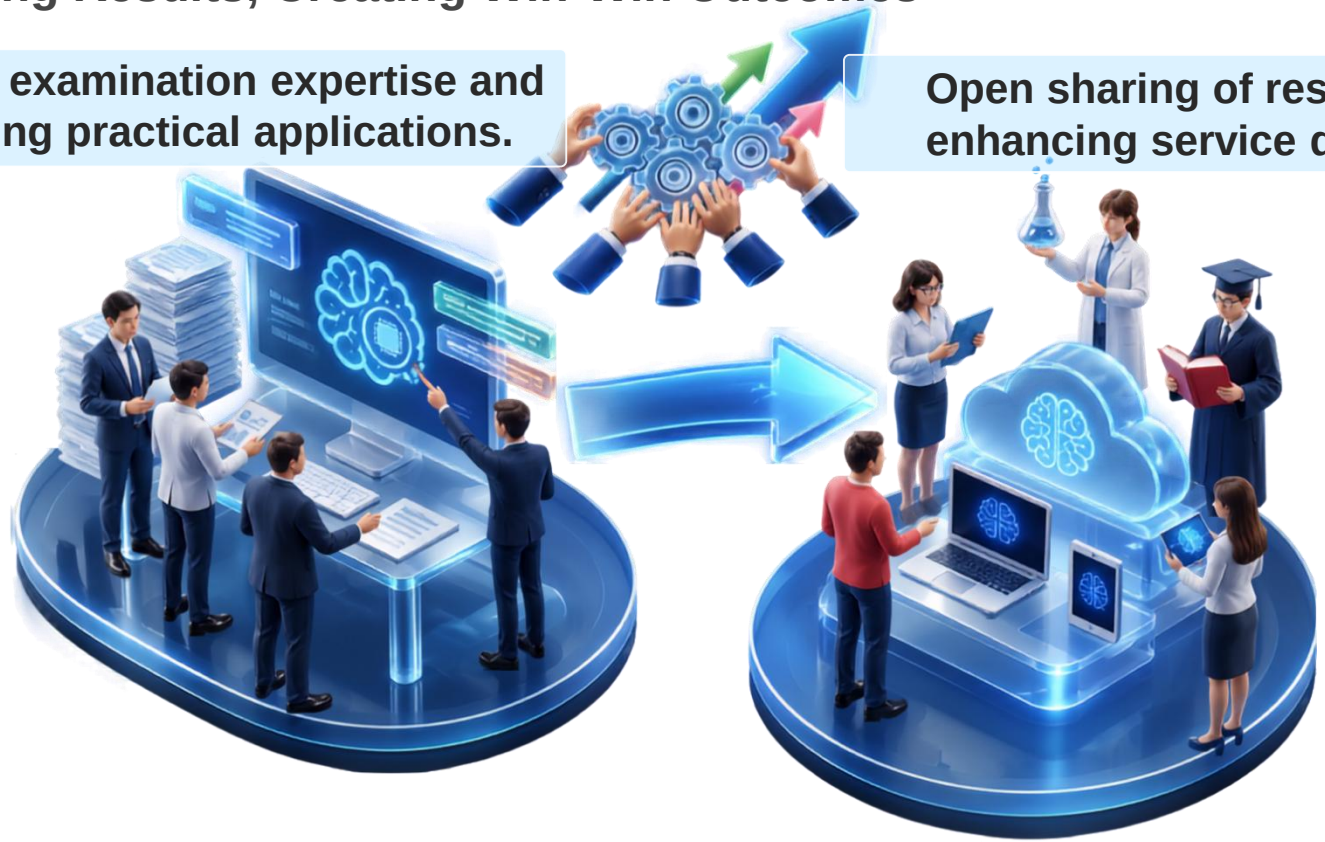
Automatic paragraph comparison
Quickly compares similar paragraphs to assist professional judgment.



Sharing Results, Creating Win-Win Outcomes

Pooling examination expertise and deepening practical applications.

Open sharing of results and enhancing service quality.



Future Outlook

Expand Technical Fields

Gradually expand from the communication network field to IT, semiconductors, biotech, and other important tech fields.



Deepen AI model capabilities

Continuously train models to improve patent terminology understanding and cross-lingual search accuracy.

Integrate More Patent Office Data

Evaluate incorporating data from other major patent offices to achieve global smart patent search.