

# How **KIPRIS<sup>Plus</sup>** has innovated IP Business



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Summary

# I. Introduction to **KIPRIS** *Plus*

# Introduction to **KIPRIS<sup>Plus</sup>**

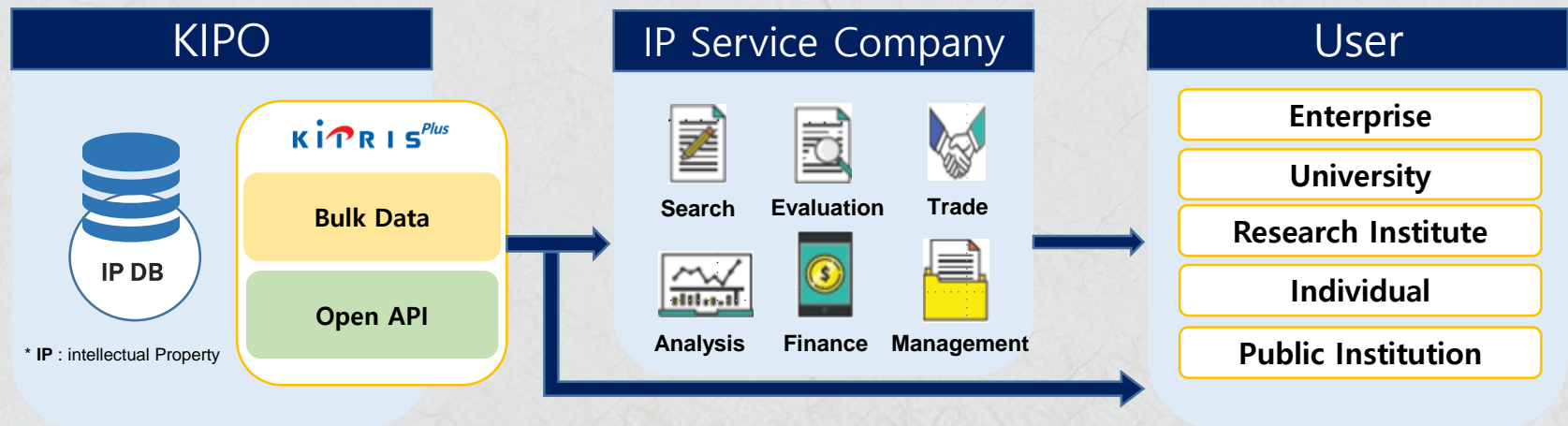
**KIPRIS<sup>Plus</sup>** is an IP data providing service, released in 2012.

01

Bulk data - Users can download vast amount of data from the KIPO's IP DB.

02

Open API - Users can access the KIPO's IP DB to retrieve or download specific data.



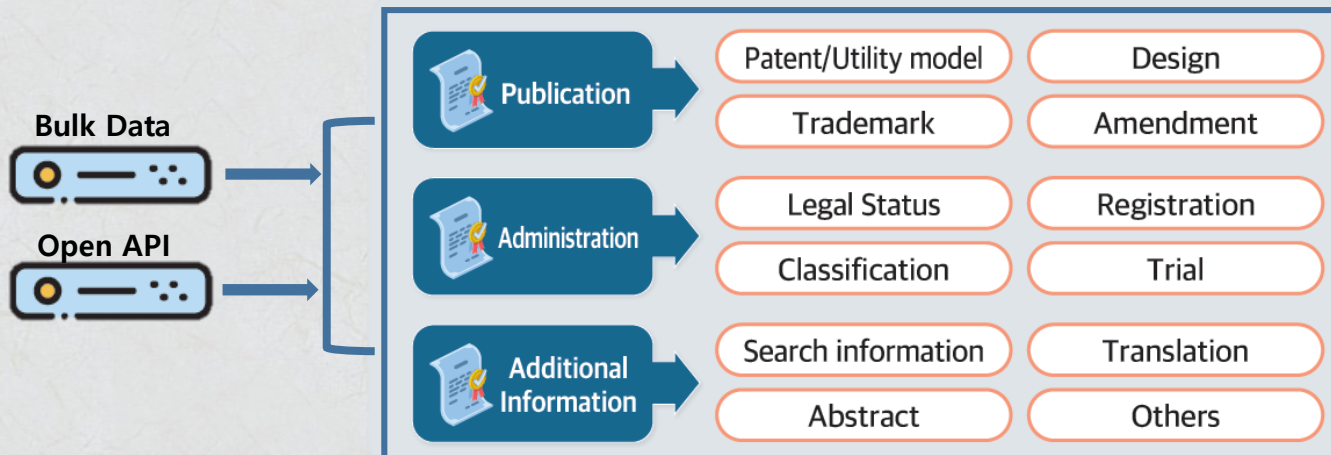
# Introduction to **KIPRIS<sup>Plus</sup>**

**KIPRIS<sup>Plus</sup>** has provided various IP data since 2012.

01

**KIPRIS<sup>Plus</sup>** has publications, legal data, and others.

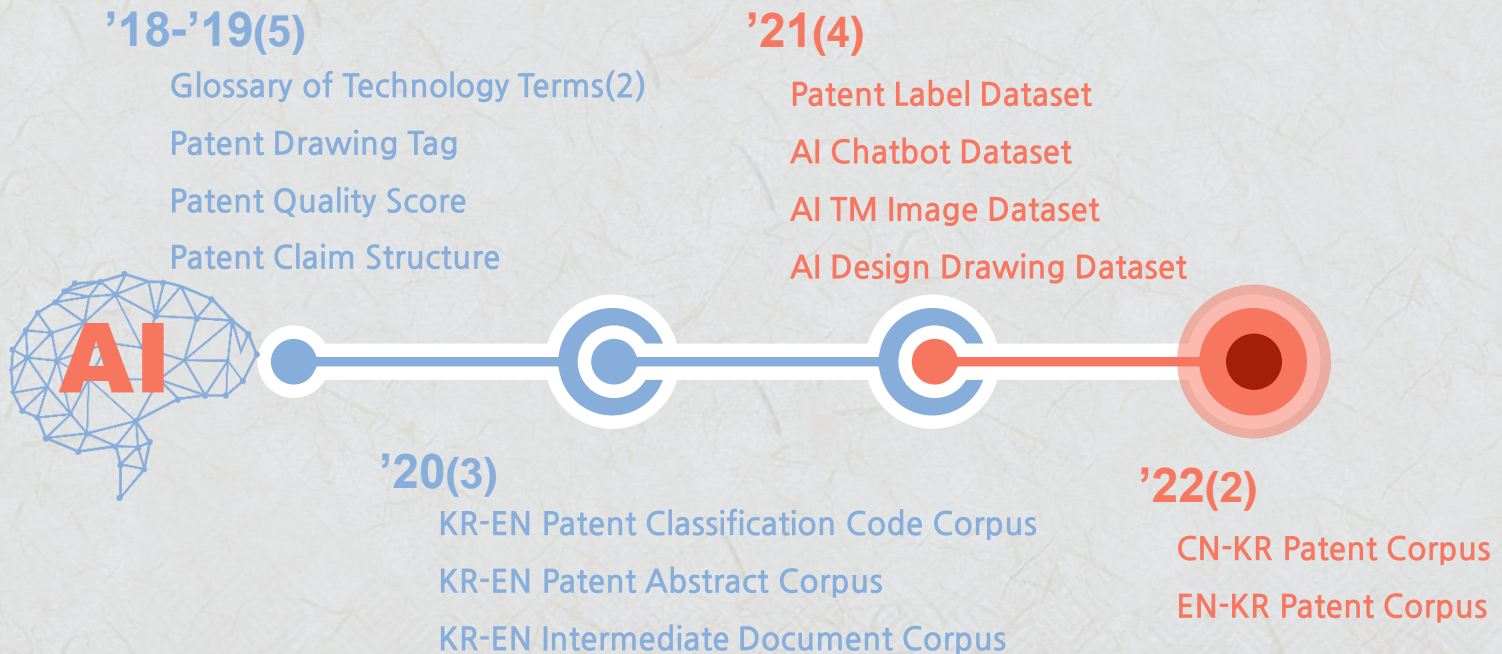
- IP data in high demand are added every year.



# Introduction to KIPRIS<sup>Plus</sup>

KIPRIS<sup>Plus</sup> has provided various IP data since 2012.

## 02 14 innovative AI training data are provided.



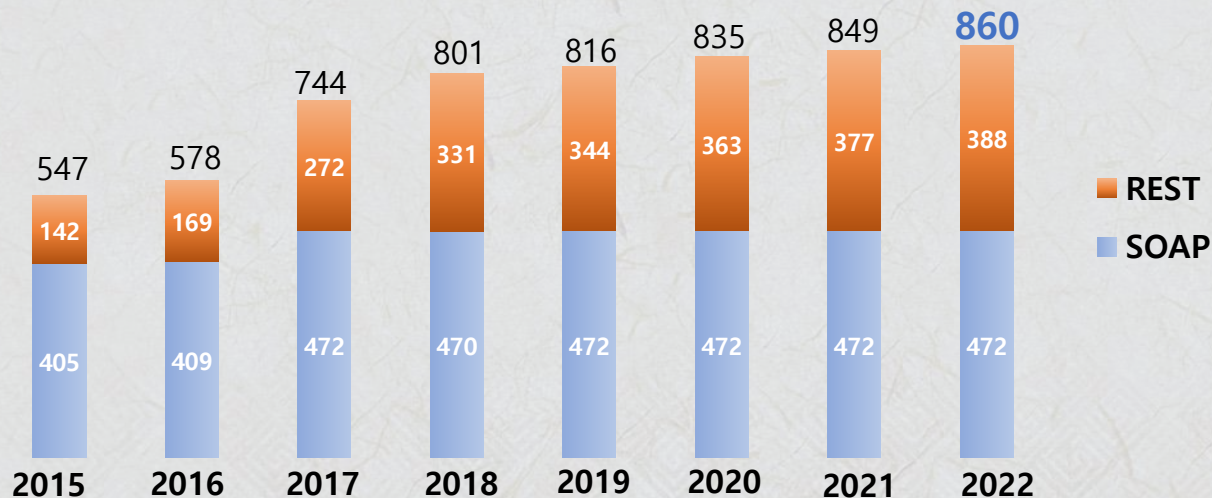
## II. **KIRIS** *Plus* Open APIs

KIPRIS<sup>Plus</sup> provides Open APIs for IP business.

01 Open API system was built for IP companies to develop IP services.

02 860 Open API operations(SOAP : 472, REST : 388) for 50 IP data have been serviced so far.

<Number of API Operations by Year>





## [EXAMPLE] Patent·Utility Model Publication(56 API Operations)

| IP Data                          | Classification    | Operation Name   |
|----------------------------------|-------------------|--|
| Patent·Utility Model Publication | General Search    | <ul style="list-style-type: none"> <li>· getWordSearch</li> </ul>  |
|                                  | Advanced Search   | <ul style="list-style-type: none"> <li>· getAdvancedSearch</li> <li>· freeSearchInfo</li> </ul> <i>(omitted below)</i>                               |
|                                  | Bibliography      | <ul style="list-style-type: none"> <li>· getBibliographyDetailInfoSearch</li> <li>· getBibliographySumryInfoSearch</li> </ul> <i>(omitted below)</i> |
|                                  | Drawing/Full-text | <ul style="list-style-type: none"> <li>· getPubFullTextInfoSearch</li> <li>· getAnnFullTextInfoSearch</li> </ul> <i>(omitted below)</i>              |
|                                  | Utility           | <ul style="list-style-type: none"> <li>· getChangeInfoSearch</li> <li>· patentTransferInfo</li> </ul> <i>(omitted below)</i>                         |

## How to Use Open API

1

Service  
Keys

Create API service keys.

\* API Keys(SOAP, REST) are issued for each KIPRIS<sup>Plus</sup> account.

2

Request

Type a request URL into a web browser.

\* URL consists mainly of an operation name, a request parameter, a service key.

3

Response

Get a response from the KIPRIS<sup>Plus</sup> API system.

\* Response parameters appear in a standard format.

## How to Use Open API

### [EXAMPLE] REST API Request Call

IP Data : Patent·Utility Model Publication

Request Parameter(Application Number) : 1020050050026

Operation Name : getBibliographyDetailInfoSearch

#### 1. Service Key

REST AccessKey

*confidential*

#### 2. Request

http://plus.kipris.or.kr/kipo-api/kipi/patUtiModInfoSearchService/getBibliographyDetailInfoSearch?applicationNumber=1020050050026&ServiceKey=

#### 3. Response

↳ Operation Name

↳ Request Parameter

↳ Service Key

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<inventionTitleEng>CLEANING AND ANTIFREEZE SYSTEM FOR ROAD SURFACE TO PREVENT SOIL AND DUST FROM ENTERING A TUNNEL BY CLEANING</inventionTitleEng>
<openDate></openDate>
<openNumber></openNumber>
<originalApplicationDate></originalApplicationDate>
```

## How to Use Open API

\* URL : <https://plus.kipris.or.kr>

The screenshot shows the KIPRIS Plus Patent Information website interface. At the top, there are navigation tabs: "Data List" (highlighted with a red box), "Data Service", "Sharing Info", and "Information Use". Below the navigation is a banner with the word "API".

On the left side, there is a sidebar menu with the following options:

- By Service Type
  - API (highlighted with a red box)
  - BULK
- By Classification System
- Free Data

Below the sidebar, there is a "PLAY NOW!" button with a video icon and the text "KIPRIS<sup>Plus</sup> VIDEO CLIP".

On the right side, there is a search bar with a "Search" button. Below the search bar, the text "TOTAL 50" is displayed. To the right of the table, there are two buttons: "API" (highlighted with a red box) and "BULK".

| No | Service Name   | Category | Source                   | Type       |
|----|--|----------|--------------------------|------------|
| 1  | Patent-Utility Model Publications                                    | Patent   | Korean Intellectual P... | <b>A</b>   |
| 2  | Administrative Procedures(Patents-Utility Models)                    | Patent   | Korean Intellectual P... | <b>A B</b> |
| 3  | Cited Patents-Utility Models   | Patent   | Korean Intellectual P... | <b>A B</b> |
| 4  | Citing Patents-Utility Models  | Patent   | Korean Intellectual P... | <b>A B</b> |
| 5  | Recording of Changes of Classification Codes(Patents-Utility Models) | Patent   | Korean Intellectual P... | <b>A B</b> |
| 6  | Patent Examines  | Patent   | Korean Intellectual P... | <b>A B</b> |

## How to Use Open API

Patent-Utility Model Publications **Data Name**

### Meta-information

|                       |   |              |            |
|-----------------------|---|--------------|------------|
| Classification system | Korea IP > Korea IP > Patent  |              |            |
| Providers             | Korean Intellectual Property Office                                   | Update Cycle | daily      |
| Registered            | 2014-10-20  | Registered   | 2020-10-27 |
| Tag                   | Patent, Utility Models, Unexamined Gazette, Examined Gazette, Gazette |              |            |

### Type of service **Service Type**

SOAP

**REST**

Apply

General Search   Advanced search   **Bibliography**   Drawing/Full-text   Utility

1. getBibliographyDetailInfoSearch

2. getBibliographySumryInfoSearch

3. patentIpdInfo

4. patentCpclInfo

5. patentRndInfo

6. patentApplicantInfo

**Operations**

## How to Use Open API

### Operation Name **Operation Name**

getBibliographyDetailInfoSearch

### Request URL

http://plus.kipris.or.kr/

### Request Parameter **Request Parameter**

| Level | Type | Data              | Data Info                      | Add Info |
|-------|------|-------------------|--------------------------------|----------|
| 1     | DATA | applicationNumber | 출원번호 <b>Application number</b> |          |

### Input values (sample) **Input Value(URL)**

http://plus.kipris.or.kr/kipo-api/kipi/patUtiModInfoSearchService/getBibliographyDetailInfoSearch?applicationNumber=1020050050026&ServiceKey=\*\*\*\*\*

## How to Use Open API

Response Parameter      Response Parameter

| Level | Type  | Data                   | Data Info          | Add Info |
|-------|-------|------------------------|--------------------|----------|
| 1     | GROUP | item                   |                    |          |
| 2     | GROUP | biblioSummaryInfoArray |                    |          |
| 3     | GROUP | biblioSummaryInfo      |                    |          |
| 4     | DATA  | applicationDate        | Application Date   |          |
| 4     | DATA  | applicationNumber      | Application Number |          |
| 4     | DATA  | claimCount             | Number of Claims   |          |
| 4     | DATA  | finalDisposal          | Final Disposal     |          |
| 4     | DATA  | inventionTitle         | Title of Invention | Korean   |
| 4     | DATA  | inventionTitleEng      | Title of Invention | English  |
| 4     | DATA  | openDate               | Publication Date   |          |
| 4     | DATA  | openNumber             | Publication Number |          |

⋮

# III. Improvement of **KIPRIS** *Plus*



# Improvement of KIPRIS<sup>Plus</sup>

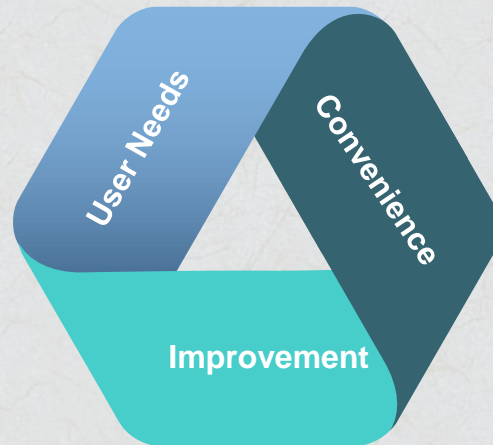
KIPRIS<sup>Plus</sup> makes efforts to continuously improve.

01

KIPRIS<sup>Plus</sup> listens to users' opinions regularly and tries to help them use IP data conveniently.

## Figure out user needs

- Discussion Meeting with Users
- Satisfaction Survey



## Increase User Convenience

- **API User Guide**
- Case Study

## Improve KIPRIS<sup>Plus</sup>

- New Service(Online Download)
- New Open API Operations
- New IP Data Products

# Improvement of **KIPRIS<sup>Plus</sup>**

**KIPRIS<sup>Plus</sup>** makes efforts to continuously improve.

02

API User Guide posts all of the **KIPRIS<sup>Plus</sup>** API operations at one place.

| IP DATA      | TYPE | OPERATION NAME    |
|--------------|------|-------------------|
| Legal Status | REST | History Search    |
| Legal Status | REST | Event Information |
| Legal Status | REST | Amendment         |

## **IV. Innovation in IP Business**

# Improvement of **KIPRIS** *Plus*

**KIPRIS** *Plus* makes efforts to support innovative IP Business.

01

## **IP Business Idea Contest**

- Started in 2015 to discover innovative IP business models.
- Supported the growth of 77 IP business models.

02

## **IP Business Growth Support**

- Started in 2020 to foster the development of innovative IP business companies through financial support, education, mentoring, etc.
- Fostered 65 IP business companies.

# V . Summary

# Summary

- **KIPRIS<sup>Plus</sup>**, an IP data providing service, was released in 2012 to promote the use of IP data and to support the growth of IP business.
- **KIPRIS<sup>Plus</sup>** was improved in many ways by releasing a new service, developing API operations, and increasing user convenience.
- **KIPRIS<sup>Plus</sup>** built 860 API operations for 50 IP data.