E-services Workshop 2022

JPO's IT services for dissemination of patent information

NAWA Daisuke

Patent Information Policy Planning Office

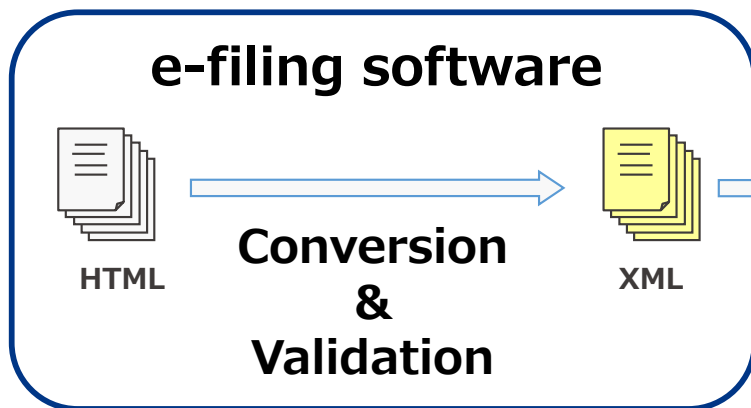**1**   **IT services for patent information dissemination**

2   **J-PlatPat (Japan platform for patent information)**

3   **Machine translation services**

4   **API services**

1 **IT services for patent information dissemination**

2 J-PlatPat
(Japan platform for patent information)

3 Machine translation services

4 API services

1. IT services for patent information dissemination

The JPO is providing IT services with users for patent information, in addition to the online filing services or others.
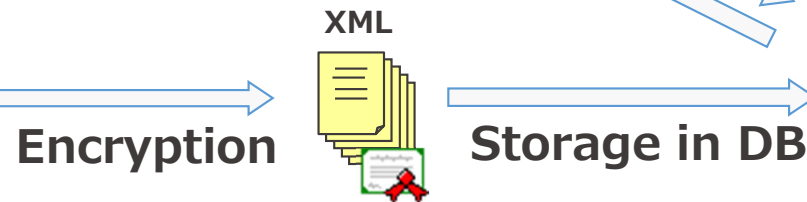
Applicants

Foreign IP Offices

JPO

Data exchange

e-filing software

HTML → **Conversion & Validation** → XML

Encryption

XML

Storage in DB

Preparations in advance
- ✓ Install e-filing software
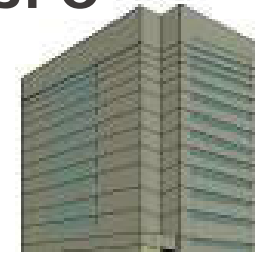- ✓ Register electronic certificate
- ✓ Obtain Applicant Identifier
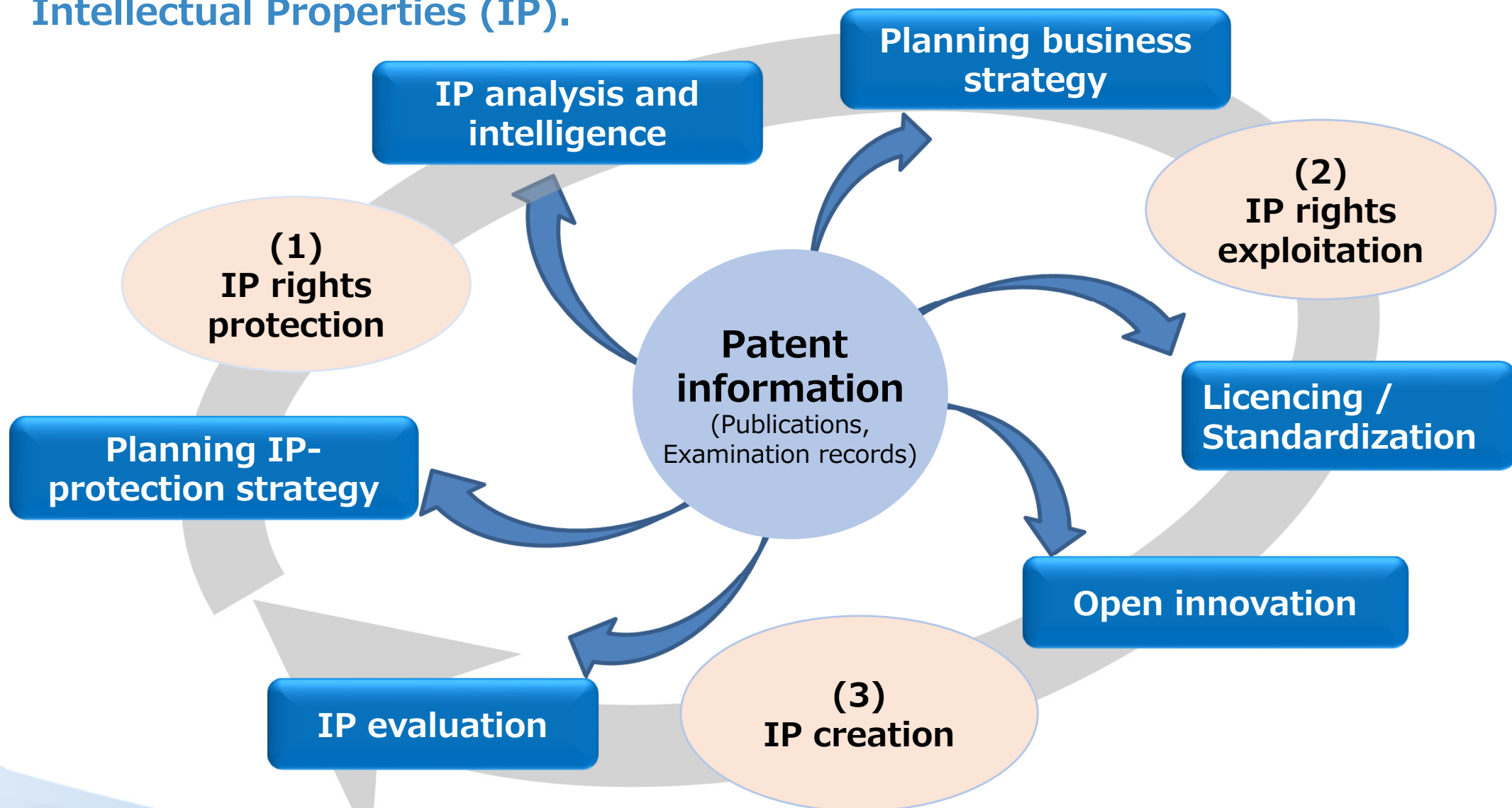
J-PlatPat by INPIT

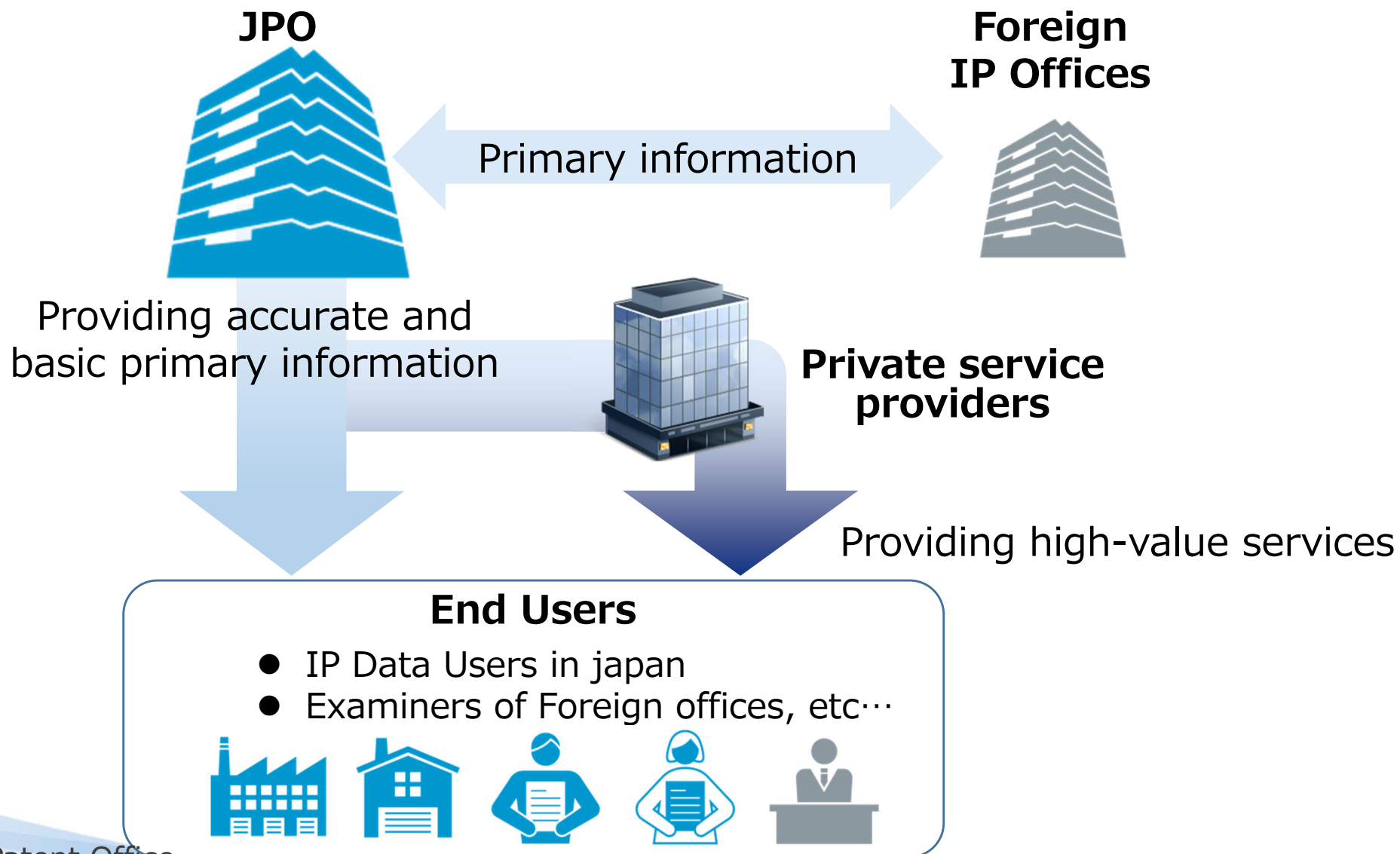**Public users**

Patent information dissemination

1. IT services for patent information dissemination

Patent information is a key driver for business development in utilizing Intellectual Properties (IP).
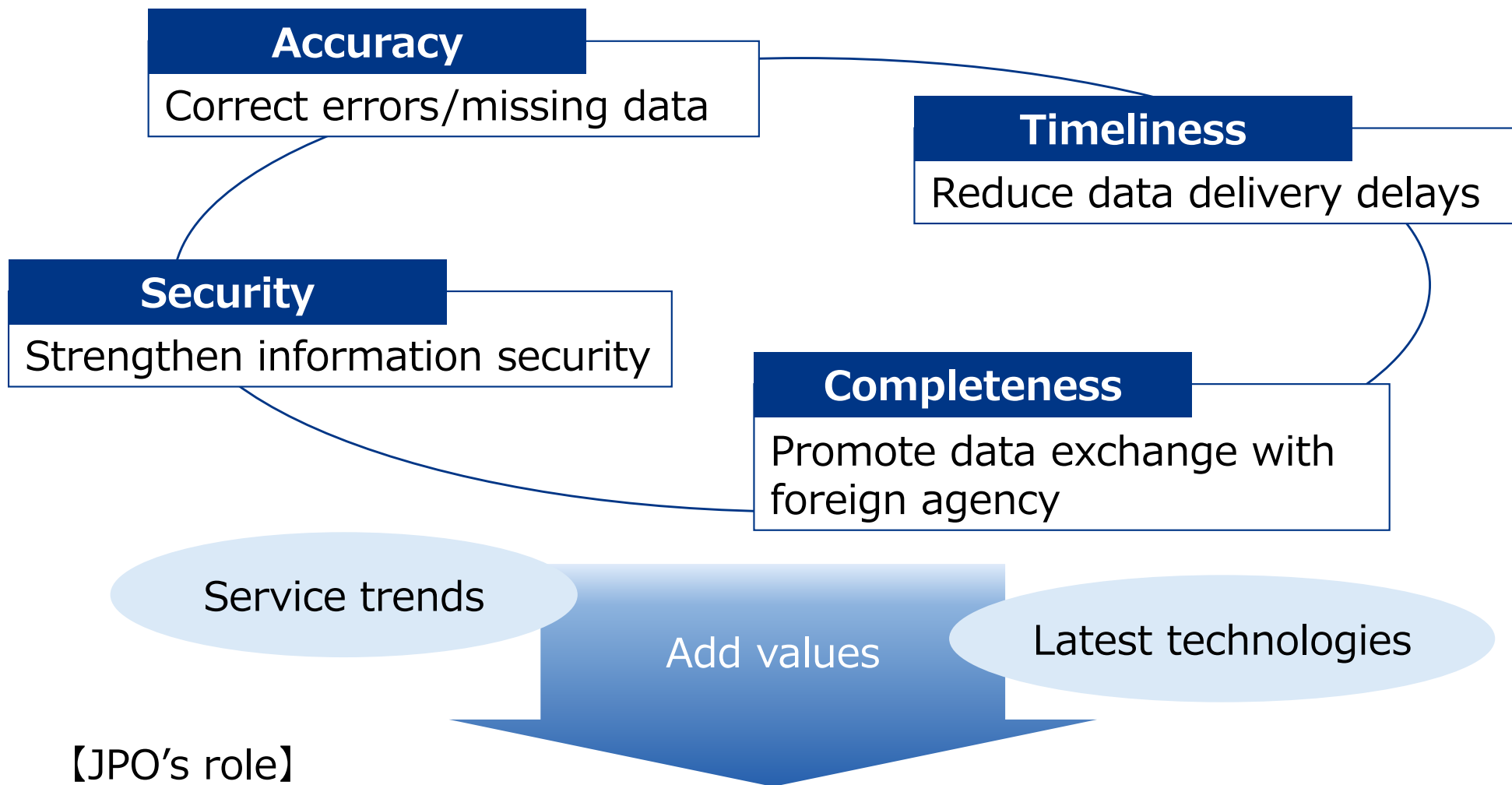
1. IT services for patent information dissemination

The main role of the JPO regarding patent information is providing accurate and basic primary information.

JPO

Foreign IP Offices

Primary information

Providing accurate and
basic primary information

**Private service
providers**

Providing high-value services

End Users

- IP Data Users in japan
- Examiners of Foreign offices, etc⋯

1. IT services for patent information dissemination

The JPO disseminates patent information in the policy of four perspectives.

Accuracy
Correct errors/missing data

Timeliness
Reduce data delivery delays

Security
Strengthen information security

Completeness
Promote data exchange with foreign agency

Service trends

Add values

Latest technologies

【JPO's role】
➢ Providing accurate and basic primary information
➢ Creating a market environment for the private service providers

1. IT services for patent information dissemination

The JPO has multi-channels to provide patent information.

(➕pros ➖cons)

J-PlatPat
(connected with
One Portal Dossier)

Users

➕ easy to use

➖ fixed interface

Bulk download
(standardized data)

Operators of
Patent information

➕ used for creating DBs

➖ high cost to store
➖ skills necessary to handle

API

Users with Apps

➕ used for making Apps
➕ low cost to apply

➖ skills necessary to handle
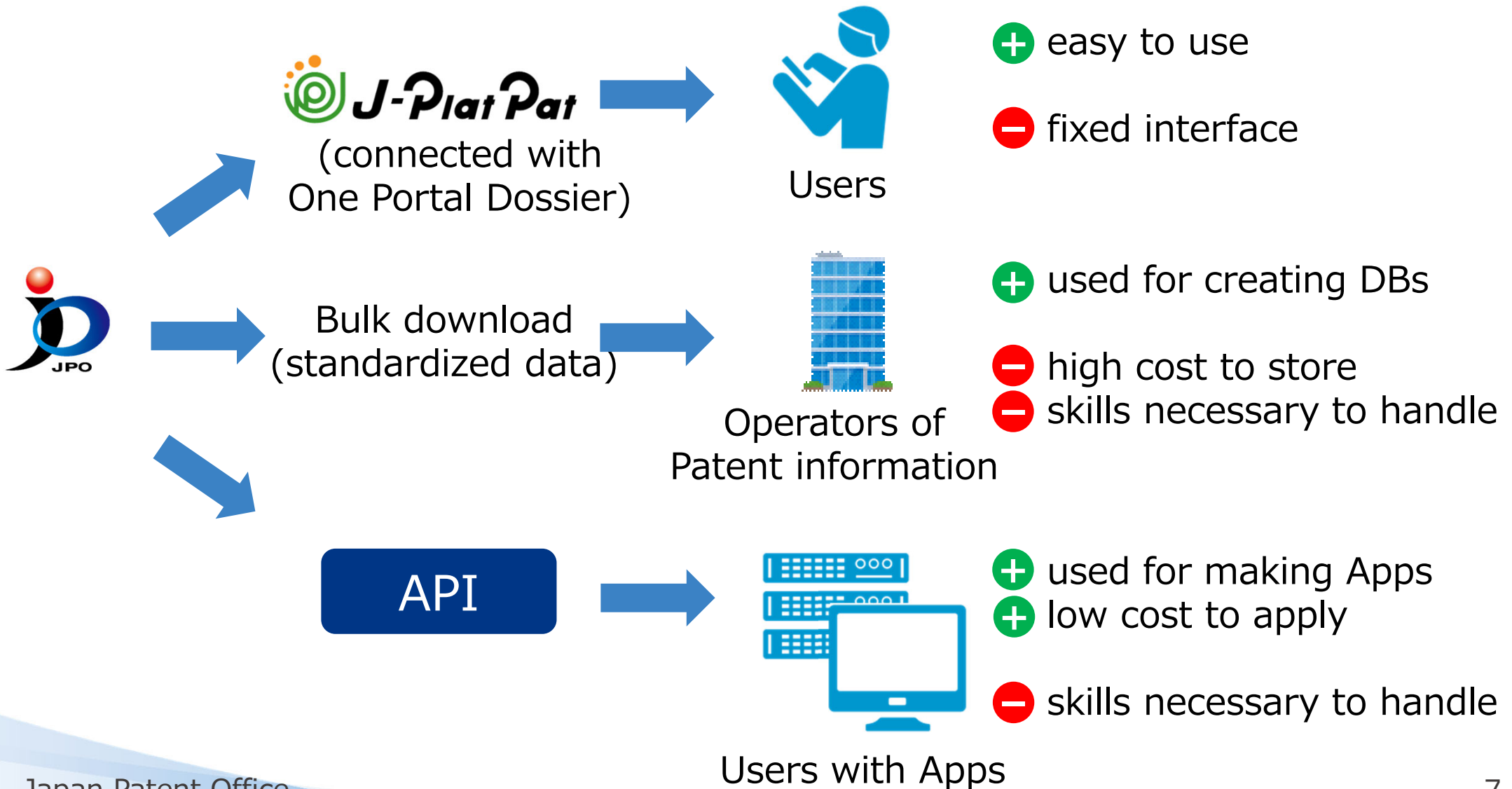
1. IT services for patent information dissemination

J-PlatPat is a service for beginners and advanced users to retrieve patent information.

(➕pros ➖cons)

➕ easy to use

➖ fixed interface

Users

➕ used for creating DBs

➖ high cost to store
➖ skills necessary to handle

Operators of Patent information

➕ used for making Apps
➕ low cost to apply

➖ skills necessary to handle

Users with Apps
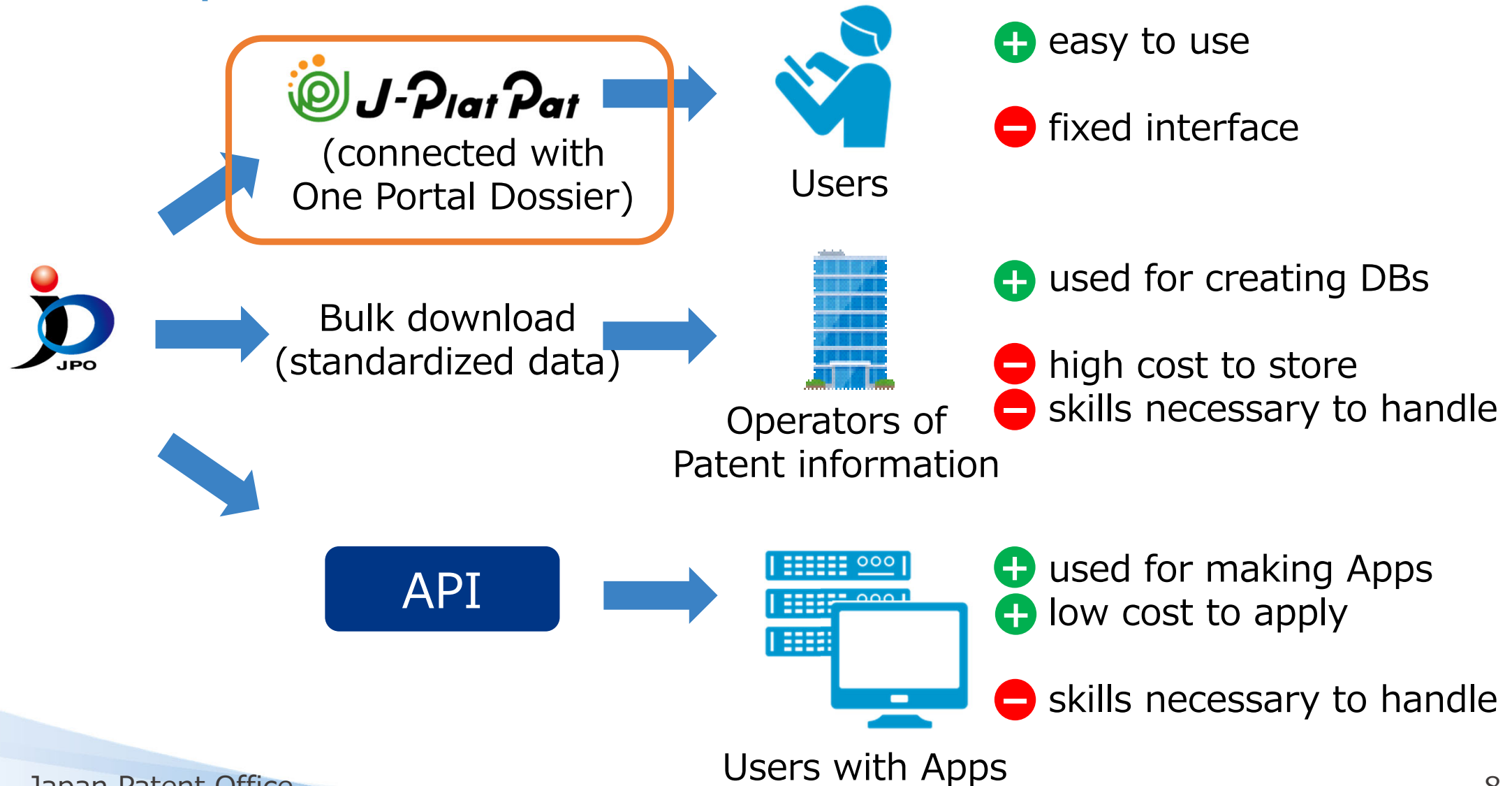
1. IT services for patent information dissemination

Machine translation is involved in these services.

(➕ pros ➖ cons)

J-PlatPat
(connected with
One Portal Dossier)

Users

➕ easy to use

➖ fixed interface

Bulk download
(standardized data)

Operators of
Patent information

➕ used for creating DBs

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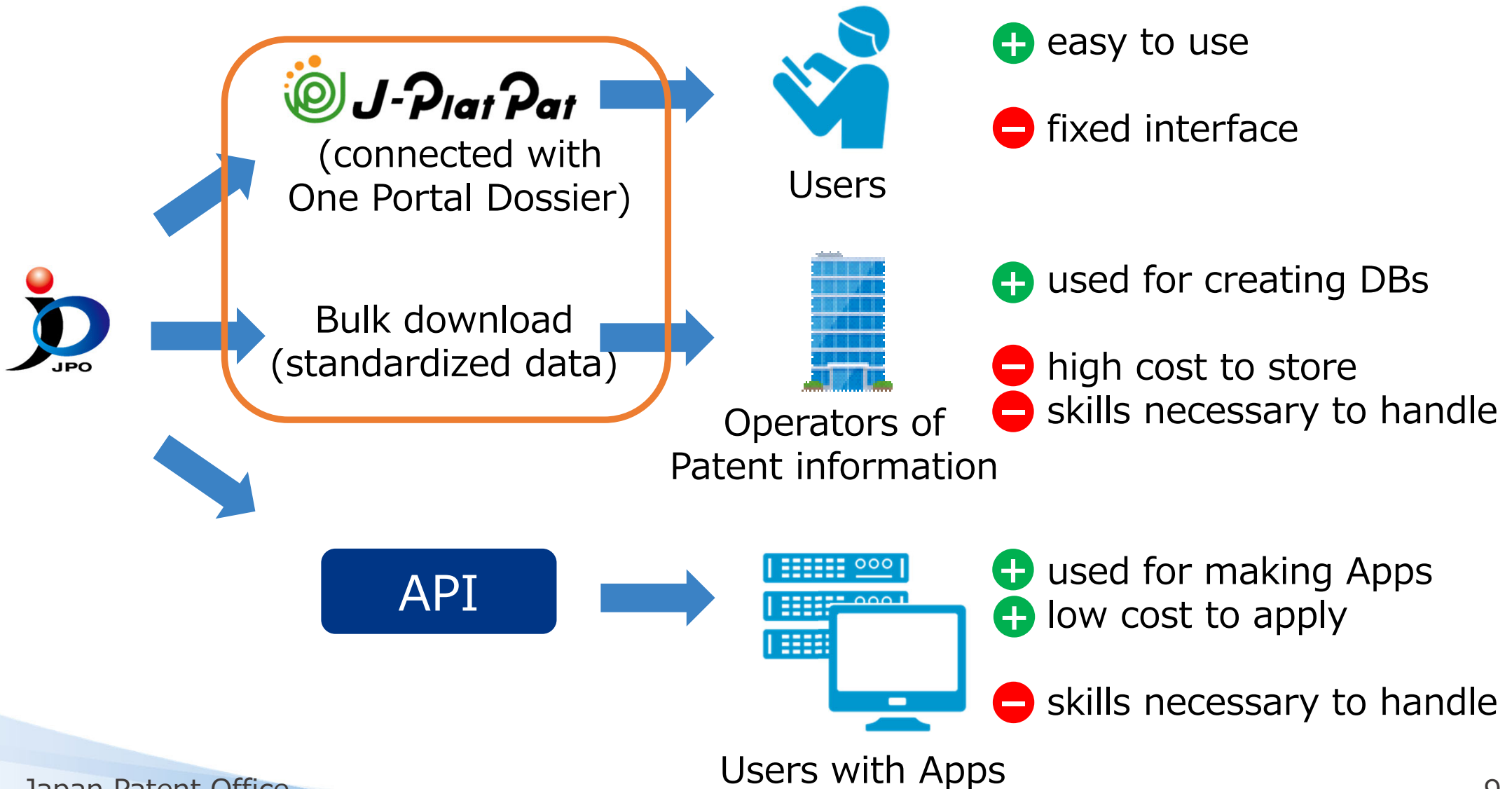
1. IT services for patent information dissemination

API services have been provided since January 2022.

(➕ pros   ➖ cons)
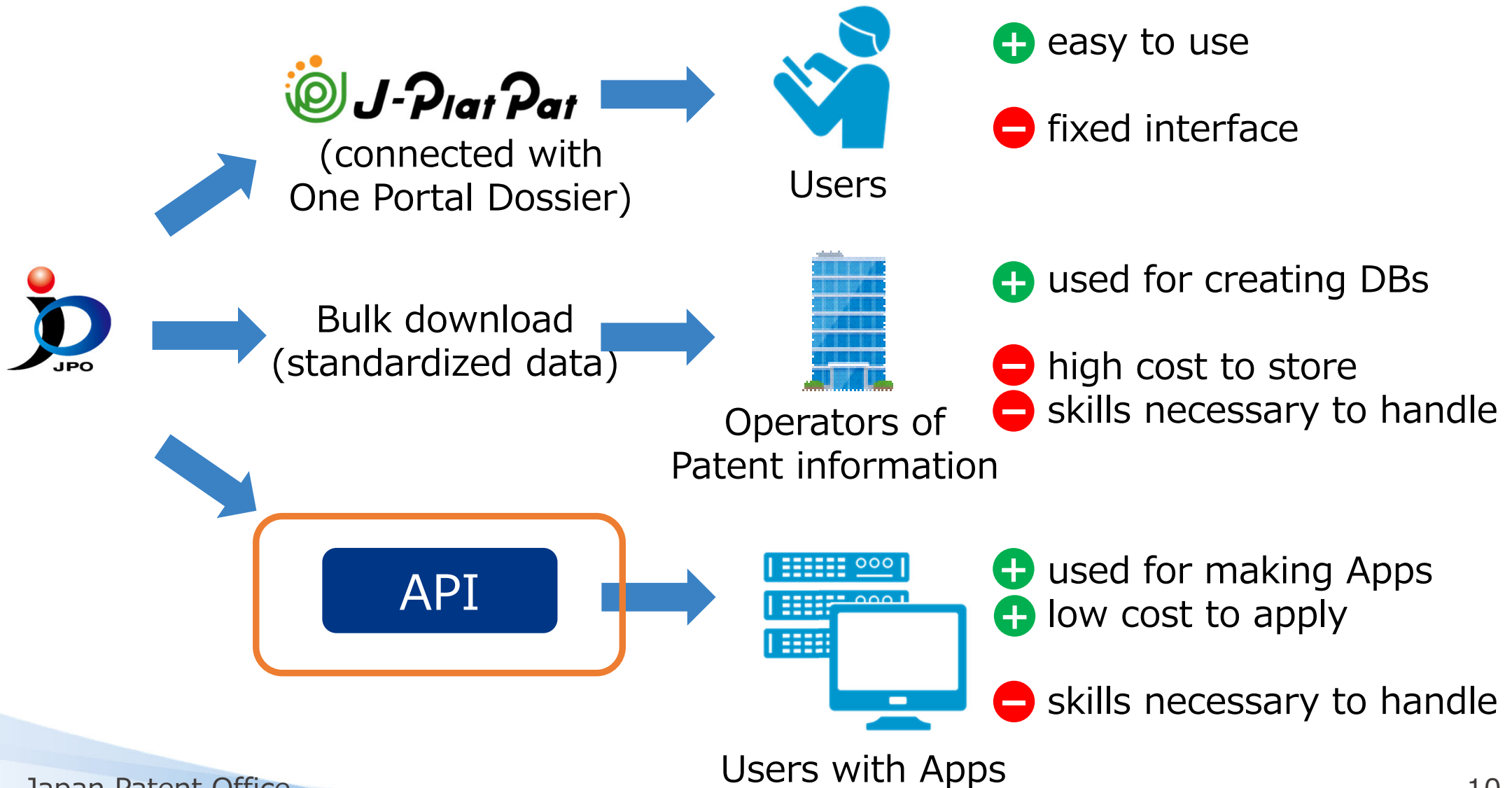
J-PlatPat
(connected with
One Portal Dossier)

Users

➕ easy to use

➖ fixed interface

Bulk download
(standardized data)

Operators of
Patent information

➕ used for creating DBs

➖ high cost to store
➖ skills necessary to handle

API

Users with Apps

➕ used for making Apps
➕ low cost to apply

➖ skills necessary to handle

1 IT services for patent information dissemination

2 J-PlatPat
(Japan platform for patent information)

3 Machine translation services

4 API services

2. J-PlatPat (Japan platform for patent information)

J-PlatPat is IP data search service of JPO (run by INPIT), and one of the largest, internet-based patent information databases in Japan.

- ✓ **130 million domestic and foreign publications**
  - Patent, Utility model, Design, and Trademark
  - Examination records, Trial/Appeal info.
    (updated 1 day after the reception)
  - Legal status, Global dossier information

- ✓ **Simple and user-friendly interface**.
  - "Simple search" with keywords without the specification of advanced criteria
  - AI-based machine translation

- ✓ **Over 100 million accesses per year**

URL: https://www.j-platpat.inpit.go.jp/

2. J-PlatPat (Japan platform for patent information)

English User Interface has been provided since May 2019.

2. J-PlatPat (Japan platform for patent information)

IP documents can be retrieved by using several search items.

Searchable by text, classification, number, applicant, etc.
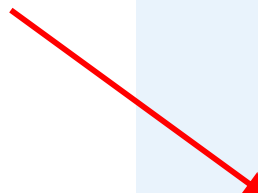
2. J-PlatPat (Japan platform for patent information)

Search results are shown as the images below.

Examination Records

National Entry Form
Submission of Translation of International Application
   Description
   Scope of Claims
   Abstract
Submission of evidence
Written amendment
Request for Examination
Notice of Reasons for Refusal
Non-patent document invoice
Non-patent document invoice
Non-patent document invoice
Non-patent document invoice
Non-patent document invoice
Non-patent document invoice
Non-patent document invoice
Written amendment
Written Opinion
Written supplementation of procedure
Decision of Refusal

Application Information   [Close]

Articles on application	Patents 2002-544073 (Nov.16,2001) Application type(Normal)
Articles on international application	PCT/GB2001/005041 International publication number(WO2002/041895) International publication date(May 30,2002) Submission date of translated text(Jul.14,200... finished
Articles on publication of application/JP domestic re-publication of PCT publication	Publication number of Japanese translation of PCT inter... Japanese translation of PCT international application(Ju...
Articles on registration	5062940 (Aug.17,2012) Total number of issues(418) date(Oct.31,2012)
Articles on priority	Claim date(Nov.22,2000) United Kingdom of Great Brit...
Articles on applicants/representatives	Applicant Sweden (300022641) ASTRAZENECA AB Representative Number of target applicants(1) Repres... SHAMOTO, Ichio Representative Representative in Japan Patent attorne... Representative Representative in Japan Patent attorne... Representative Representative in Japan Patent attorne... Representative Representative in Japan Patent attorne... Representative Representative in Japan Patent attorne... Representative Representative in Japan Patent attorne...

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(19)日本国特許庁(JP)   (12)公 表 特 許 公 報(A)   (11)特許出願公表番号

特表2004-522714
(P2004-522714A)
(43)公表日 平成16年7月29日(2004.7.29)

(51)Int.Cl.^{7} F I   テーマコード（参考）
A 6 1 K 31/505   A 6 1 K 31/505   4 C 0 8 6
A 6 1 P 3/06   A 6 1 P 3/06
A 6 1 P 3/10   A 6 1 P 3/10
A 6 1 P 9/00   A 6 1 P 9/00
A 6 1 P 9/10   A 6 1 P 9/10   1 0 3
     審査請求 未請求 予備審査請求 有 （全 43 頁） 最終頁に続く

(21)出願番号	特願2002-544073(P2002-544073)	(71)出願人	300022641
(86)(22)出願日	平成13年11月16日(2001.11.16)		アストラゼネカ アクチボラグ
(85)翻訳文提出日	平成15年5月22日(2003.5.22)		スウェーデン国 １５１ ８５ セーデル
(86)国際出願番号	PCT/GB2001/005041		テルイェ (無番地)
(87)国際公開番号	WO2002/041895	(74)代理人	100089705
(87)国際公開日	平成14年5月30日(2002.5.30)		弁理士 社本 一夫
(31)優先権主張番号	0028429.9	(74)代理人	100076691
(32)優先日	平成12年11月22日(2000.11.22)		弁理士 増井 忠弐
(33)優先権主張国	英国(GB)	(74)代理人	100075270
			弁理士 小林 泰
		(74)代理人	100080137
			弁理士 千葉 昭男
		(74)代理人	100096013
			弁理士 富田 博行

最終頁に続く

(54)【発明の名称】ヘテロ型家族性高コレステロール血症の治療におけるロスバスタチン（ZD－４５２２）の使用

(57)【要約】
本発明は、化合物（Ｅ）－７－［４－（４－フルオロフェニル）－６－イソプロピル－２－［メチル（メチルスルホニル）アミノ］ピリミジン－５－イル］（３Ｒ，５Ｓ）－３，５－ジヒドロキシヘプト－６－エン酸、または医薬的に受容可能なその塩を投与することによる、ヘテロ型家族性高コレステロール血症の治療法を提供する。

2. J-PlatPat (Japan platform for patent information)

J-PlatPat is linked to One Portal Dossier for users to obtain dossier information of foreign offices as well as that of JPO.

Country/region code	Application number ▲	Filing date ▲	Publication number	Registration number	Options
JP	JP.2002544073.A	Nov.16,2001	JP.2004522714.A	JP.5062940.B2	Details / Classification/Citation Information / Expand Document List
JP	JP.2009255813.A	Nov.09,2009	JP.2010031047.A	-	Details / Classification/Citation Information / Expand Document List
EP	EP.01982623.A	Nov.16,2001	EP.1339409.A1	EP.1339409.B1	Classification/Citation Information / Expand Document List
US	US.43240203.A	Nov.06,2003	U	K	

Commissioner for Patents
U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window, **Mail Stop** _____
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Date: May 21, 2003

Sir:

PRELIMINARY AMENDMENT

Prior to taking up this application for a first Action on the merits, please preliminarily

amend the claims as follows:

US	US.43240203.A	Nov.06,2003	US.2004072852.A1	US.6858618.B2	Classification/Citation Information / Collapse Document List

Document information

⎘ Display in Another Page

↥ Original PDF Batch   You can download up to 5 PDF files.

PDF download	Submission date ▲	Document name	Document group	Document output
☐	May 21,2003	Transmittal of New Application	Incoming	Original Text
☐	May 21,2003	Specification	Application	Original Text
☐	May 21,2003	Claims	Application	Original Text
☐	May 21,2003	Abstract	Application	Original Text
☐	May 21,2003	Drawings-only black and white line drawings	Application	Original Text
☐	May 21,2003	Preliminary Amendment	Incoming	Original Text
☐	May 21,2003	Claims	Application	Original Text
☐	May 21,2003	Applicant Arguments/Remarks Made in an Amendment	Incoming	Original Text

2. J-PlatPat - Updates planned

Three major updates will be performed in J-PlatPat.

Functions	Release timing
Patent Legal Status Data	During 2023FY[1]
CSV Output of Search Result List	End of 2022FY[1]
Number Search for Unpublished JPWO[2]	

[1] Fiscal year in Japan starts from April and ends in March.

[2] JPWO (Saikohyo-tokkyo) is a publication related to a national phase of PCT application in Japanese. JPO quit publishing JPWOs since 2022, renovating the official publication system.

2. J-PlatPat - Updates planned (Legal status data)

The Status of Trademark is available on J-PlatPat, but the Status of Patent is not at present.

The JPO created the Prosecution Model based on ST.27 in accordance with the Japanese patent prosecution system.

The Model of WIPO Standard ST.27

The Model of Japan

Converted

2. J-PlatPat - Updates planned (Legal status data)

JPO plans to provide the Patent Legal Status Data on J-PlatPat. (image 1)

Stage + Event of WIPO ST.27

JPO plans to provide the Patent Legal Status Data on J-PlatPat. (image 2)

2. J-PlatPat - Updates planned (Legal status data)

JPO plans to provide the Patent Legal Status Data on J-PlatPat. (image 3)

2. J-PlatPat - Updates planned (Legal status data)

JPO plans to add two search options on J-PlatPat.

Planned Update

Now

2. J-PlatPat - Updates planned (CSV output)

Search Result Lists can be downloaded as CSV files, if the number of the result is 500 or smaller.

500 or fewer

Click to download

※Only registered users can use CSV Output function.

2. J-PlatPat - Updates planned (CSV output)

JPO plans to provide new function to download the lists of search results up to 3000 documents as CSV files.

CSV Output Function (Currently provided)

Document no.	Application no.	Filing date	Publication date	Title	Applicant/ Right holder	FI	Abstract	Publication no.	Publication no. of examined application	Registration no.	Appeal or trial no.	Other	Document URL

Lists of search results up to 500 documents can be downloaded as CSV files.

CSV Output Function (Planned to be newly provided)

Document no.	Application no.	Filing date	Publication date	Title	Applicant/ Right holder	FI	Abstract	Publication no.	Publication no. of examined application	Registration no.	Appeal or trial no.	Other	Document URL

Lists of search results up to 3000 documents can be downloaded as CSV files, but the abstract will be omitted.

2. J-PlatPat - Updates planned (JPWO No. Search)

JPO plans to provide Number Search for a national phase of PCT application in Japanese after quitting publications of JPWOs.

Number of a national phase of PCT application in Japanese

※JPO quit publishing JPWOs since 2022, renovating the official publication system.

2. J-PlatPat - Updates planned (JPWO No. Search)

Until the update, OPD Retrieval function is available when you would like to check a national phase of PCT application in Japanese.

1 **IT services for patent information dissemination**

2 **J-PlatPat (Japan platform for patent information)**

3 **Machine translation services**

4 **API services**

3. Machine translation services

The JPO is utilizing machine translation for foreign and Japanese users.

JPO

Applicants → Application documents → DB
・Publications info
・Examination records
Japanese DB
Foreign DB

Publications information ← → Foreign IP Offices

Machine translation from **Japanese** to **English** → Foreign users / examiners

for Japanese documents to be easily understood

Machine translation from **Foreign language** to **Japanese** or **English** → Japanese users / examiners

for retrieving foreign publications

3. Machine translation services

The JPO has developed Machine Translation Platform (MTP) which translates in real-time mode and in batch mode.

Machine Translation Platform (MTP)

JP → EN

CN → JP
KR → JP

J-PlatPat J-Plat Pat

Real time translation

EN translated JP documents

JP Publication and Examination records

mainly for **foreign users**

Batch translation

JP translated full text of CN/KR Patents/Utility models

mainly for **Japanese users**
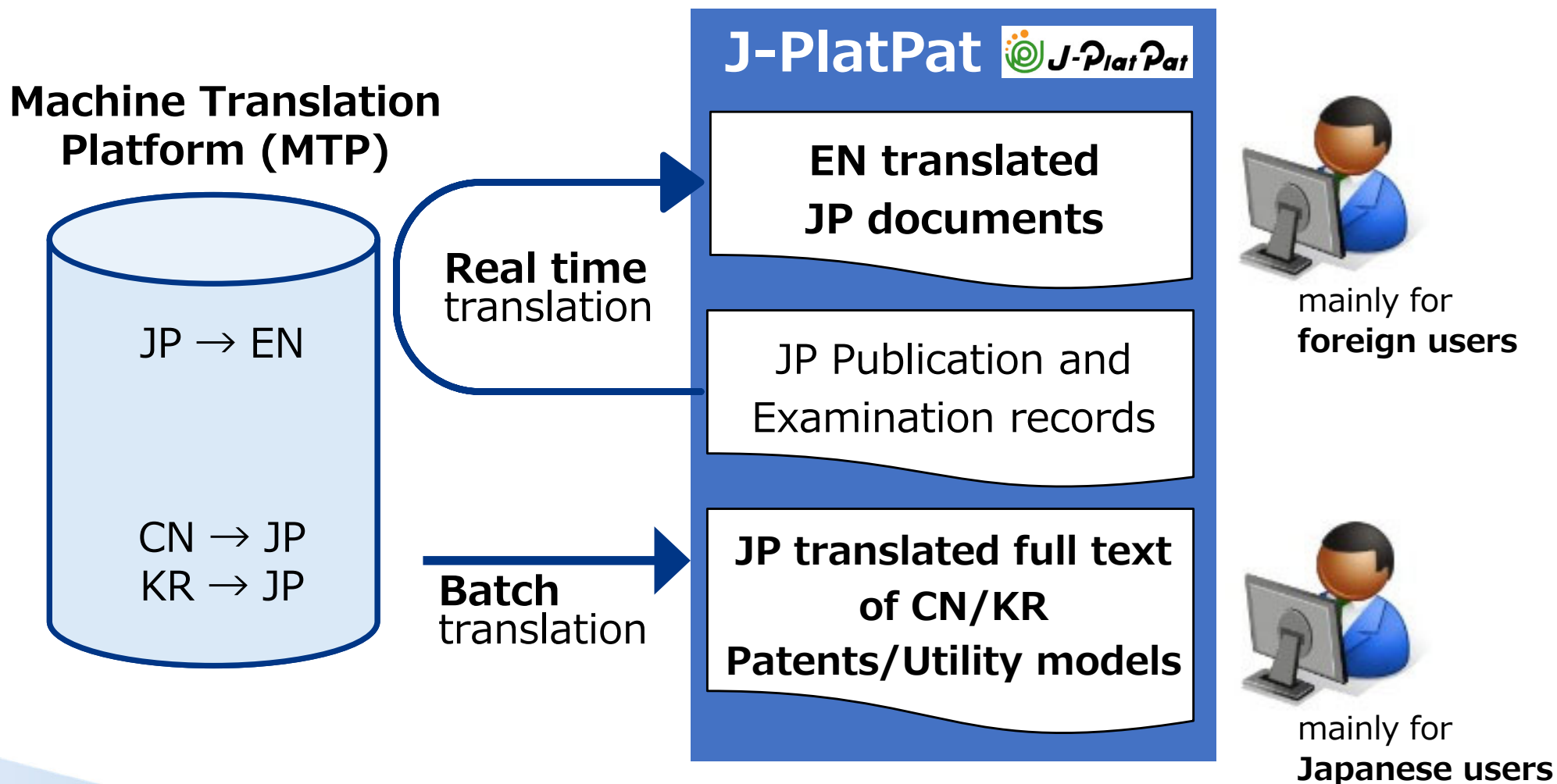
3. Machine translation services

One of machine translation engines equipped with MTP is a trained Neural Machine Translation (NMT) engine.
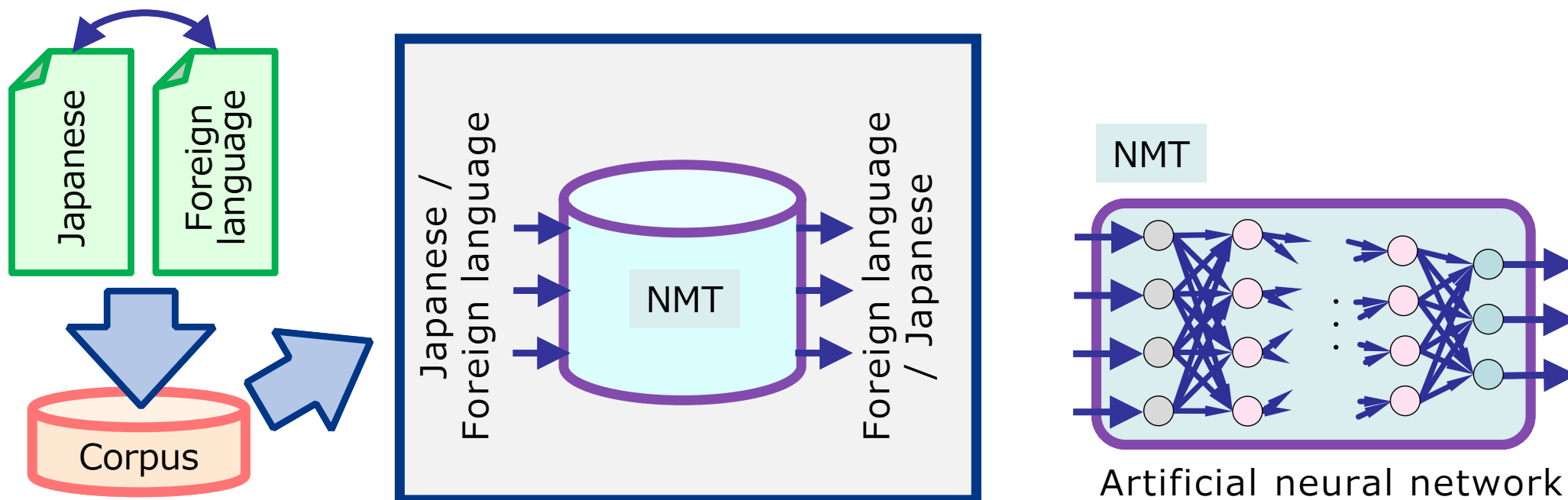
Training using corpus with deep learning and representation learning

Artificial neural network

3. Machine translation services

There are pros and cons in real-time translation and batch translation.

（ ➕ pros ➖ cons）

Real-time translation
（no accumulation / translating each time ）

MTP

JP→EN

English translation

J-PlatPat／OPD

Japanese text

Japanese documents DB
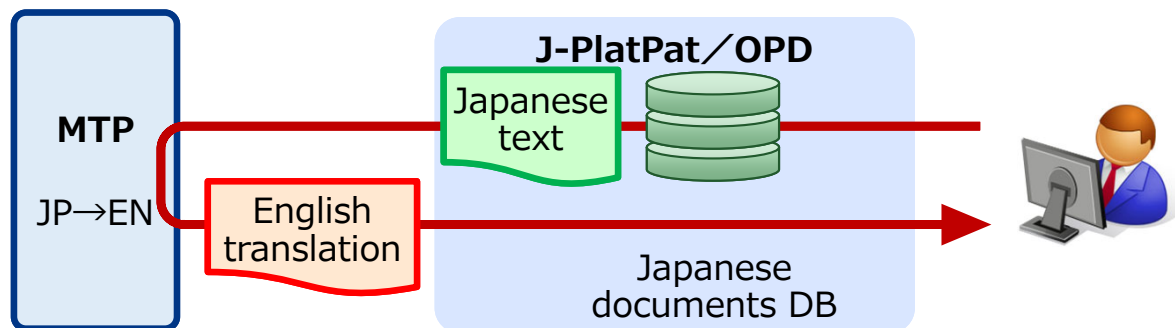
➕ no need for time to translate and accumulate

➕ be able to use the latest translation engine

➖ not be able to do keyword search for translated documents

Batch translation
（with accumulation）

MTP

CN→JP
KR→JP

Original text

Japanese translations

J-PlatPat／OPD

Japanese translations

Original text

CN/KR publications DB
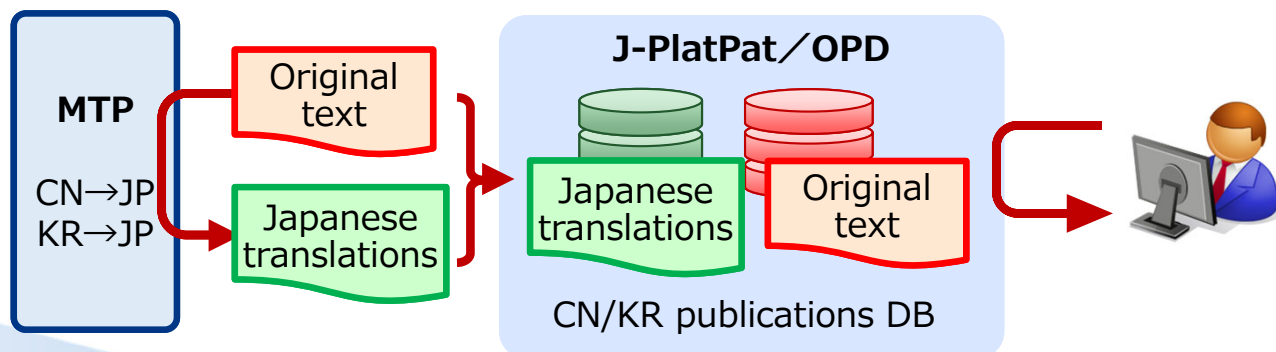
➖ need time to translate and accumulate

➖ not be able to use the latest translation engine

➕ be able to do keyword search for translated documents

3. Machine translation services

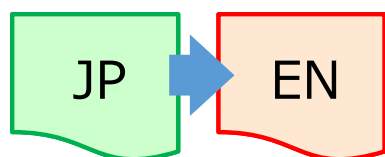**The MTP uses different translation engines depending on target documents or bibliographies.**

NMT: Neural Machine Translation
SMT: Statistical Machine Translation
RBMT: Rule-Based Machine Translation

JP → EN

Translation target	Main translation engine
Patent publications (description, etc.)	NMT
Patent publications (title of the invention)	SMT
Examination documents, etc.	NMT
Bibliographic information/ Non-patent publications	RBMT
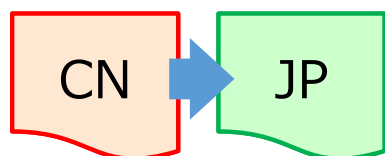
CN → JP

Translation target	Main translation engine
Patent publications (description, etc.)	NMT
Patent publications (title of the invention)	SMT

KR → JP
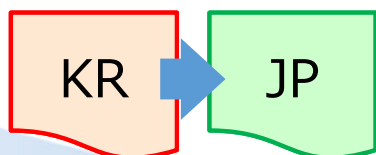
Translation target	Main translation engine
Patent publications	SMT

1   **IT services for patent information dissemination**

2   **J-PlatPat (Japan platform for patent information)**

3   **Machine translation services**

4   **API services**

4. Patent Information Retrieval APIs

APIs provided by the JPO enable users to retrieve patent information directly in their programs or Apps.
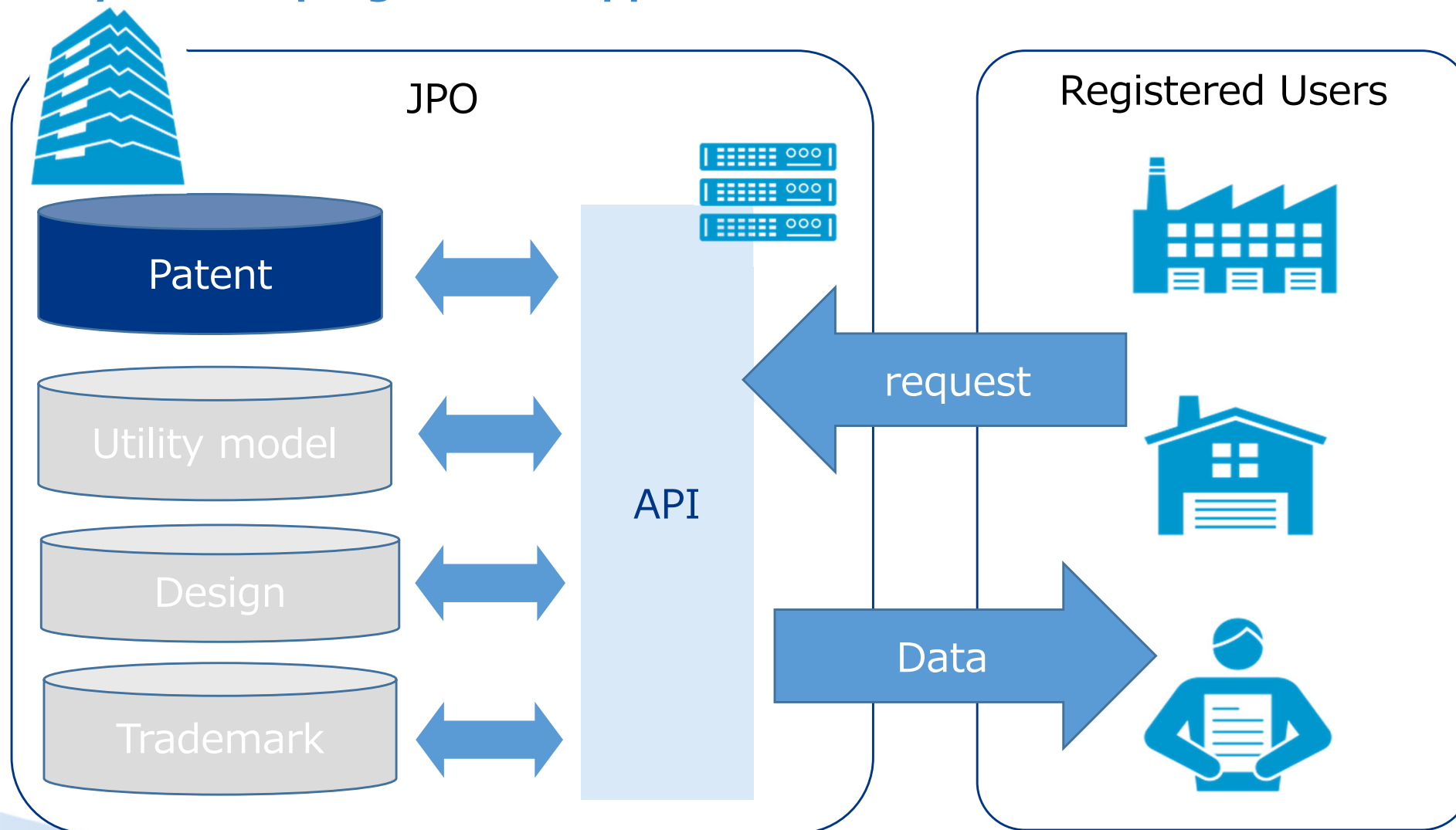
4. Patent Information Retrieval APIs

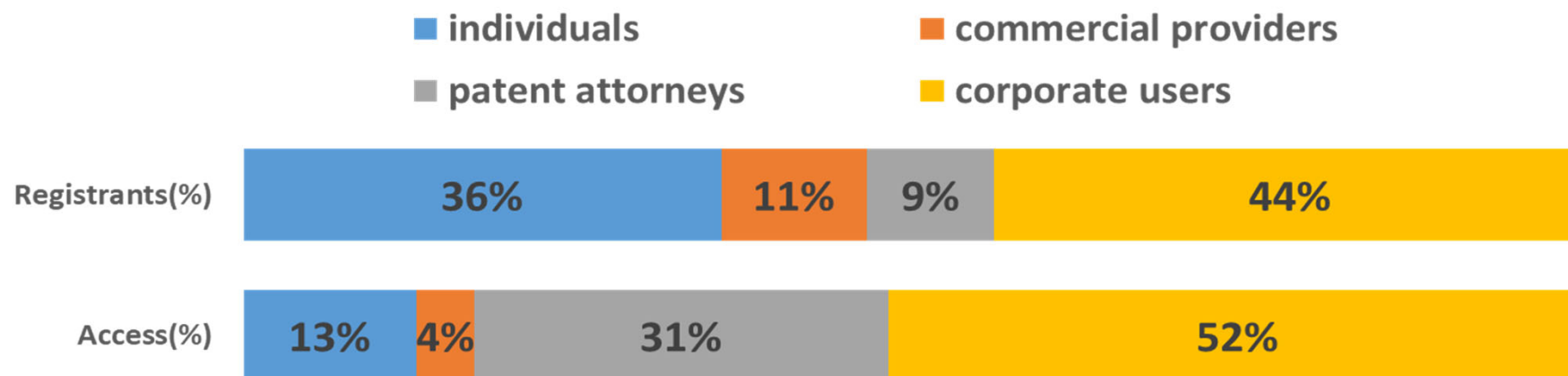**There are several types of information provided by the APIs.**

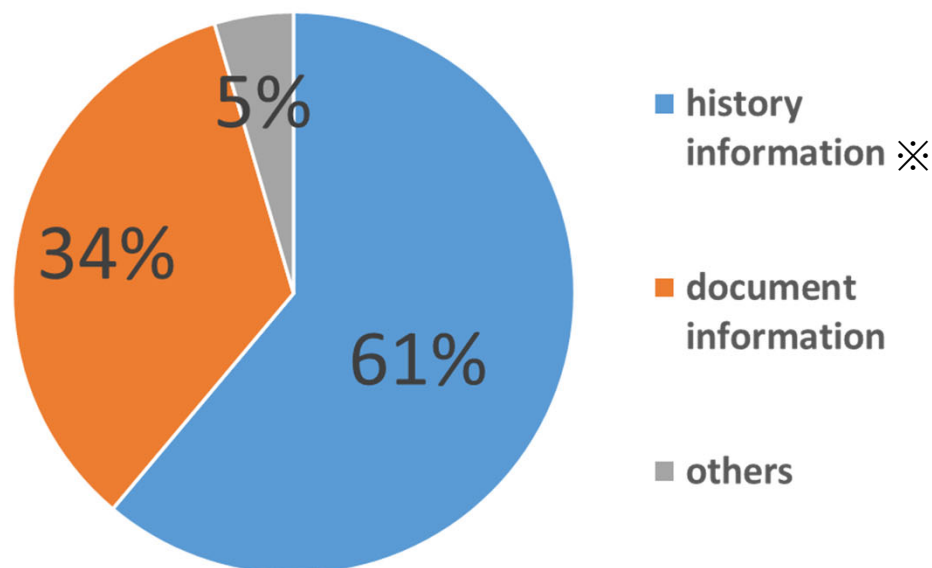|	Types of APIs	Formats of files	Limits of access per day
1	Application History	JSON	400
2	Application History(simple)	JSON	400
3	Divisional information	JSON	30
4	Priority information	JSON	30
5	Applicant name	JSON	200
6	Applicant code	JSON	200
7	Patent number reference	JSON	50
8	Applied document	XML (in a ZIP file)	100 or 500※
9	Office action document	XML (in a ZIP file)	100 or 500※
10	Notice of Reasons for Refusal	XML (in a ZIP file)	100 or 500※
11	Cited document	JSON	50
12	Registration information	JSON	200

※ 500 access per day for commercial providers if they are JPO's Bulk Data download service users and provide the data via their services.

4. Patent Information Retrieval APIs

Corporate users are the main users for the APIs, and history information is the main target to be retrieved.

Legend:
- ■ individuals
- ■ commercial providers
- ■ patent attorneys
- ■ corporate users

Registrants(%): 36% | 11% | 9% | 44%

Access(%): 13% | 4% | 31% | 52%

Pie chart:
- ■ history information ※ — 61%
- ■ document information — 34%
- ■ others — 5%

As of 31st August 2022

※ History information is also provided via Bulk Data download service.

4. Patent Information Retrieval APIs

Purposes to use the APIs are different to the types of users.

- **Individuals**
  - for obtaining data in research (text mining, translation, etc.)
  - for evaluating procedures of examination

- **Patent attorneys**
  - for updating in-house DB automatically
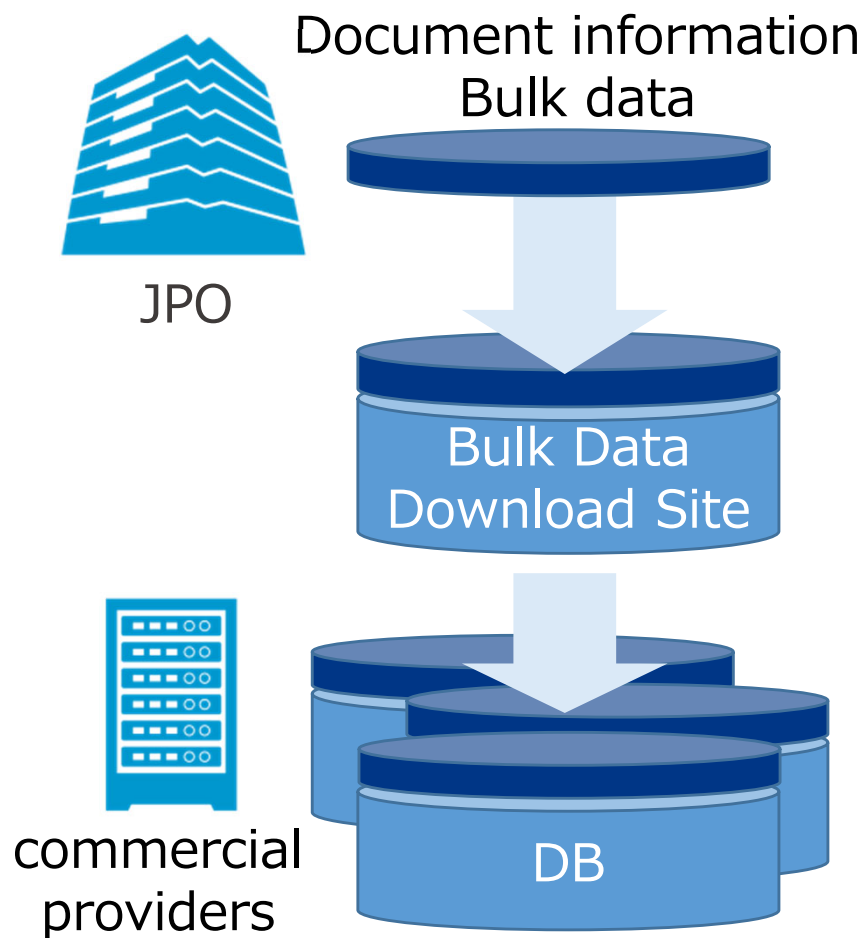 - for making formats of response documents automatically

- **Corporate users**
  - for updating in-house DB automatically
  - for monitoring competitors' applications
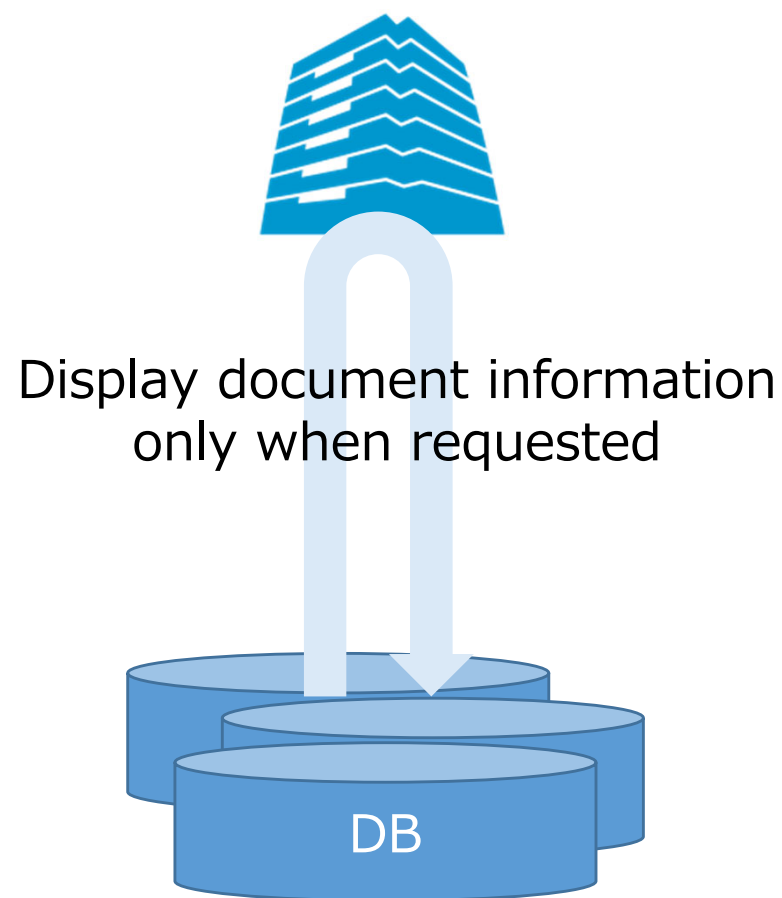 - for analyzing reasons for refusal

4. Patent Information Retrieval APIs

These APIs can contribute to lower cost of handling patent information.
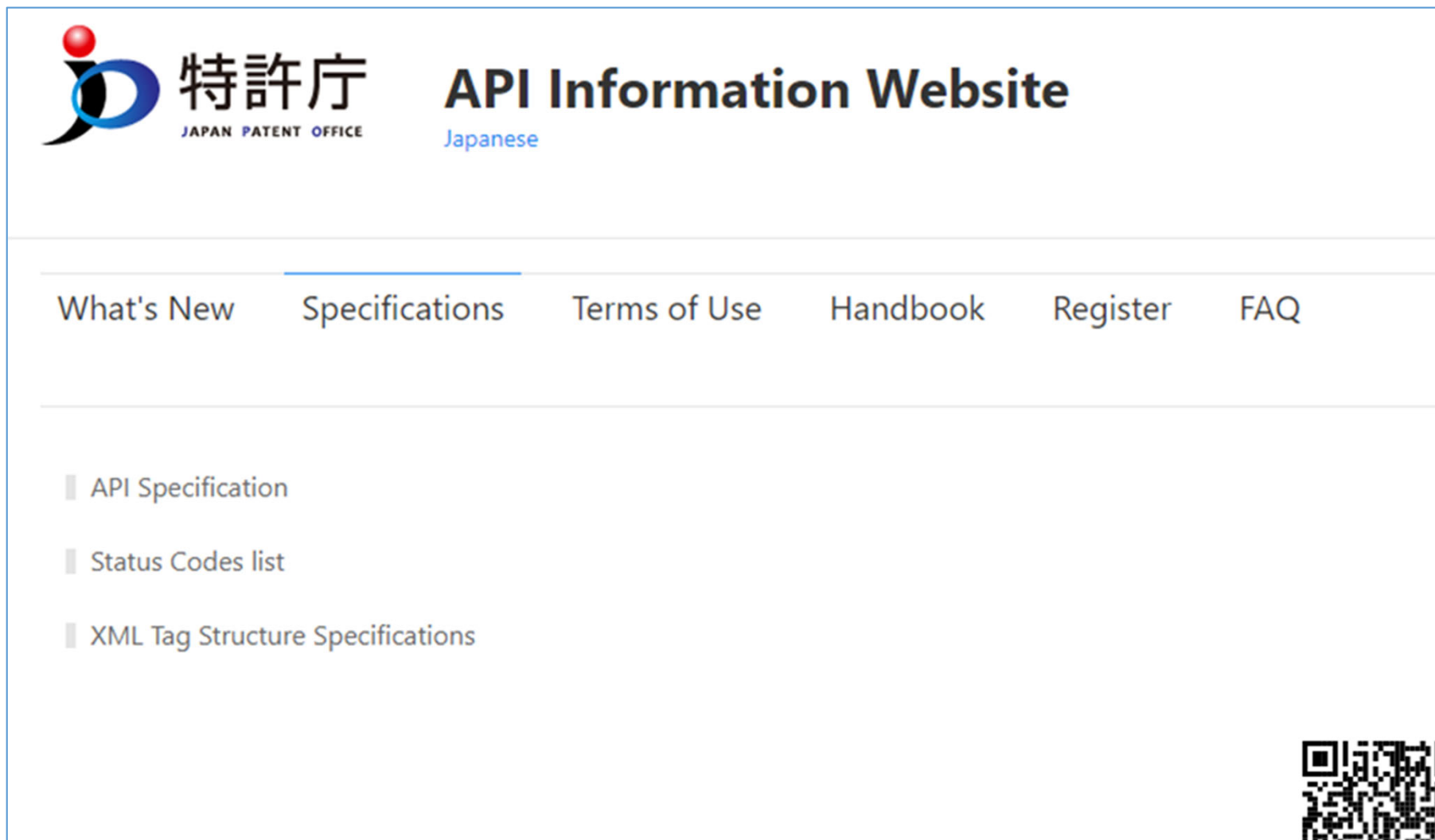

Bulk data download service

Document information
Bulk data

JPO

Bulk Data
Download Site

commercial
providers

DB

API service

Display document information
only when requested

DB

4. Patent Information Retrieval APIs

Detailed information about the APIs can be obtained on the website below.

https://ip-data.jpo.go.jp/pages/top_e.html

Thank you!