

ASEAN IT Workshop 2023

| Expectations for ASEAN IT systems

NAGANO Shiho

Patent Information Policy Planning Office



Japan Patent Office

- 1** What's FIT/Japan IP Global ?
- 2** Bilateral DATA Exchanges
- 3** JPO IT systems
- 4** Hot Topics
- 5** Expectations for ASEAN patent offices

What's FIT/Japan IP Global ?

Funds-In-Trust Japan Industrial Property Global

- **Funds-In-Trust Japan Industrial Property Global (FIT/Japan IP Global)** supports developing countries to **improve their knowledge of IP systems and enhance their IP capabilities** to facilitate innovation and technology transfer worldwide.
- Since the Japan Patent Office (JPO) made its first voluntary contribution to WIPO in 1987, it contributed to more **than 90 million CHF in total to more than 80 countries** in Asia and Pacific region and African region for supporting diverse activities in the field of Intellectual Property.



IT systems-related Contributions

- FIT Japan IP Global has supported the development of **WIPO's IT systems and organized seminars or workshops** to encourage their use in developing countries.
- From 2014 to 2019, WIPO's support to IP offices in the ASEAN region and Africa region utilizing the FIT Japan IP Global has achieved following several milestones.

WIPO CASE

- developed and made available in the ASEAN region
- successfully linked to the IP5* One Portal Dossier
- public access was implemented through the IP5 Global Dossier and through WIPO PATENTSCOPE

*IP5: JPO,USPTO, EPO, CNIPA and KIPO

WIPO products

- enhanced to provide better solutions for IP administration and for online filing and online publication of IP data

ASEAN PATENTSCOPE

- developed and patent data from 9 ASEAN offices has become available

Recent projects for IT systems development

Digitization Project in Thailand

- In 2022, WIPO completed a digitization project in Thailand in cooperation with the DIP and with support from the FIT/Japan IP Global.

Sharing-Best-Practices Workshop on Smarter IP Office Business Services

- From December 5 to 9, 2022, WIPO, together with the IPOPHL, co-organized a sharing-best-practices workshop on smarter IP office business services in Manila, the Philippines, with support from FIT/Japan IP Global.

Integration of WIPO CASE functionality within IPAS

- In 2022, WIPO completed a project to integrate WIPO CASE functionality within IPAS with support from the FIT/Japan IP Global.

DATA Exchanges

DATA Exchanges between IP Offices

Benefits by Data Exchange



For IP Offices

- Examiners can conduct the prior art search with the exchanged data

For Users

- Infringement search and technology trends search will be more accurate with the exchanged data



- Quality of examination of both IP office will be improved
- Both countries can boost their economy by welcoming more investments with less barriers for respective market entries

Current Status of DATA Exchanges

- We have data Exchange policies with individual 20 Countries.
United States, EPO, China, EUIPO, WIPO, Germany, France, Russia, Canada, Australia, Ukraine, Singapore, Thailand, Philippine, Malaysia, Vietnam, Indonesia, Thailand, and Saudi Arabia
- We are Exchanging data between individual 15 countries.

Countries/Regions	Agreement	Data Exchange	Public provision	Current State
Singapore	○	△	×	Data has not been arrived since 2015.
Thailand	○	○	×	Data has not been arrived since 2020.
Malaysia	○	△	×	Data has abstract only. Data had better include followings. <ul style="list-style-type: none"> ▪ claim, description, figures ▪ gazettes of patent and design Often cannot access download cite. Data more than 10MB is impossible to be downloaded.
Vietnam	○	○	×	Data has abstract only. Data had better include followings. <ul style="list-style-type: none"> ▪ claim, description, figures ▪ gazettes of patent and design
Indonesia	○	×	○	Data has abstract only. Data had better include followings. <ul style="list-style-type: none"> ▪ claim, description, figures

FOPISER (Foreign Patent Information Service)

- FOPISER provides exchanged data to Japanese users

<https://www.foreignsearch2.jpo.go.jp/>

Select countries/regions

書誌情報検索(特実)

発行庁

ロシア 台湾 オーストラリア シンガポール
 ベトナム タイ

発行種別

特許 実用

フリー検索条件 ?

項番	項目間接続 ?	検索項目 ?	検索キーワード ?
<input checked="" type="checkbox"/> 1	-	要約	

Enter search keywords

スクリーニング (特実)

< 前の文献 THA-072574 A 次の文献 > n件目の文献を表示 表示: 1/1件 文献リスト

言語を選択 ▼

(54) 【発明の名称】 เครื่องมือ

(57) 【要約】

ตัวจัดป้อนเชื้อเพลิงสำหรับเซลล์เชื้อเพลิงชนิดรีเอเจนท์ของเชื้อเพลิงเหลวของพรีเคอร์เซอร์ สำหรับการ

【請求の範囲】

1. ตัวจัดป้อนเชื้อเพลิงสำหรับเซลล์เชื้อเพลิงชนิดรีเอเจนท์ของเชื้อเพลิงเหลว และช่องที่สอง จะสามารถ
2. ตัวจัดป้อนเชื้อเพลิงชนิดรีเอเจนท์ของเชื้อเพลิงเหลว

(54) 【発明の名称】 燃料電池用の燃料の従来の製造のためのツールおよび方法。

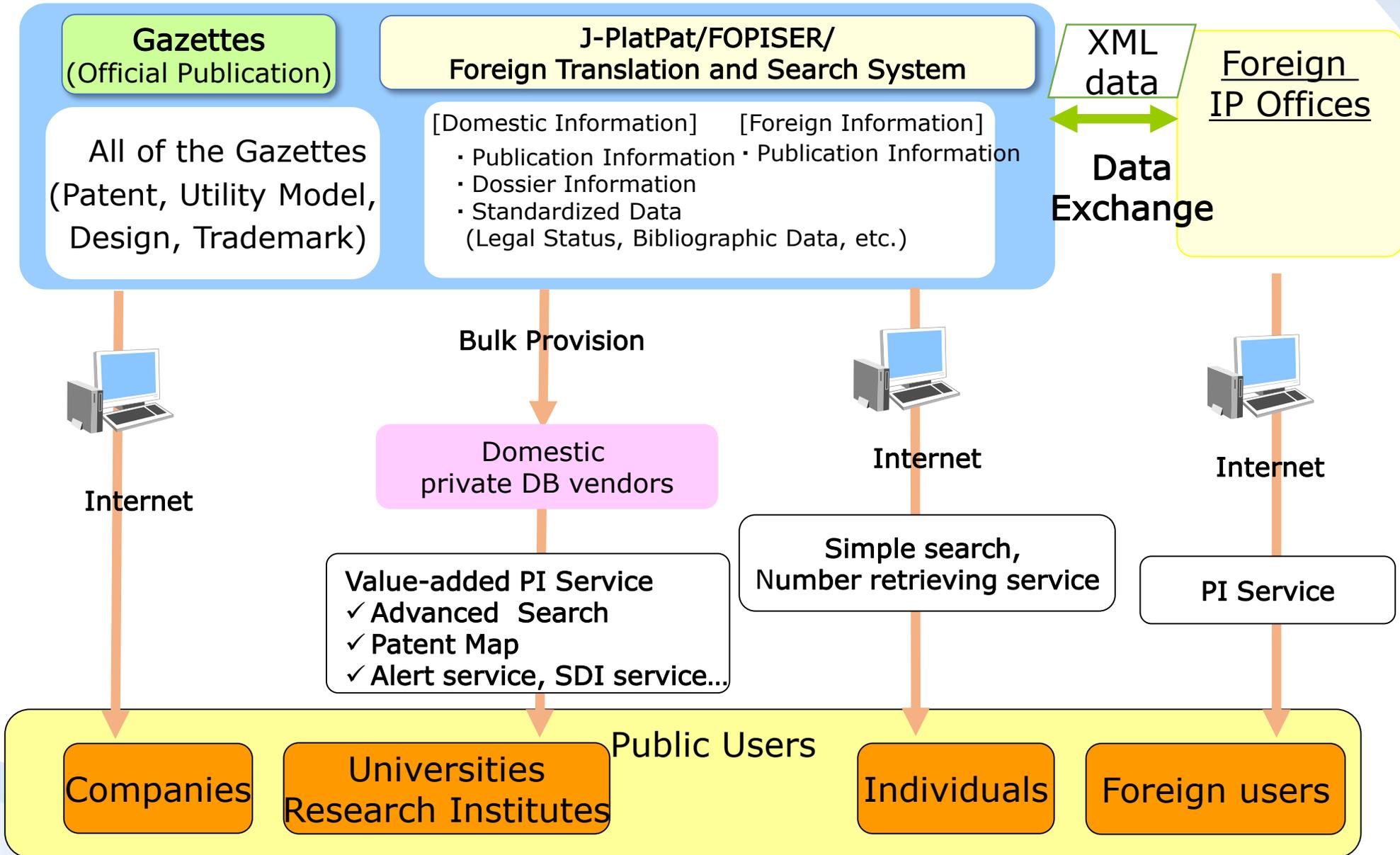
(57) 【要約】
燃料電池用燃料フィーダー プリカーソルを格納およびロードするための単一および複数のコンパートメントがあります。燃料電池試薬 これらの燃料フィーダーは保管を可能にします。そして、前駆体の包装 同じ場所での生産のため そして燃料電池燃料の使用のための方法 燃料電池の準備 そして、燃料電池システムも明らかにされます。

【請求の範囲】

1. 燃料電池用燃料フィーダー これにより、同じ場所で燃料を生産できます。これは、プリカーサーを備えたチャンネル1で構成されます。最初の試薬 およびプリカーサーを備えた2番目のチャンネル。最初のコンパートメントの内部量が燃料電池を作成することが可能になります。
2. 前記第1の区画が備

Documents can be viewed in Japanese by machine translation

Public Dissemination

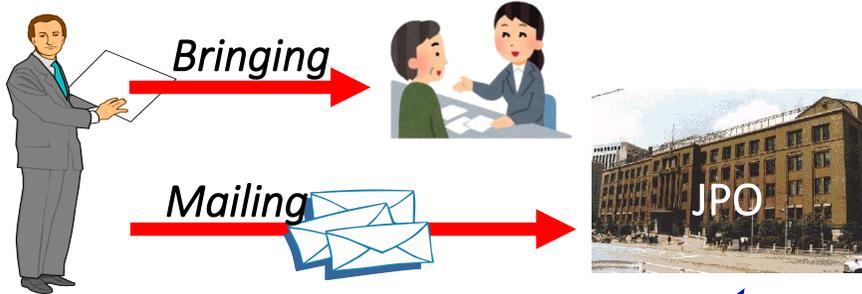


JPO IT systems

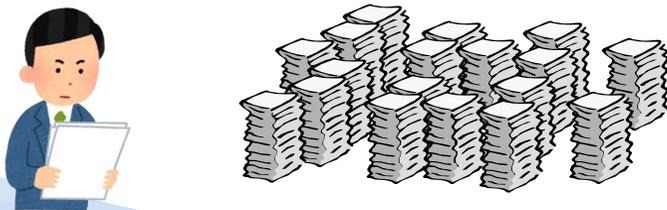
Background of JPO Computerization

Before computerization (- 1990)

Application

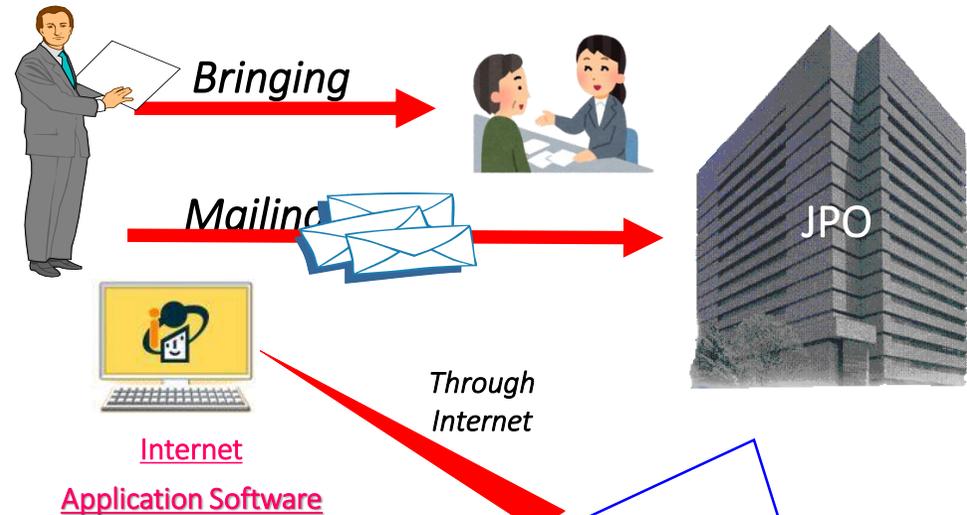


Examination

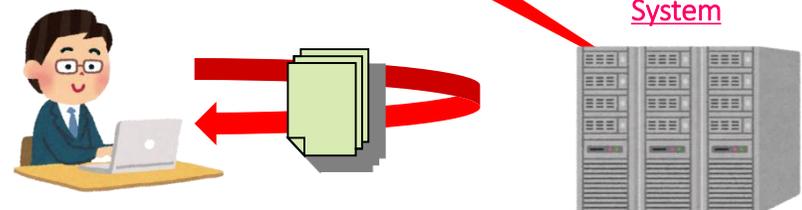


Now

Application



Examination

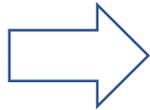


Background of JPO Computerization

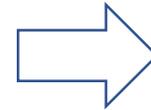
Before computerization...



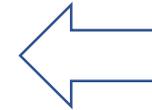
Filed
in **paper**



Proceeded
in **paper**



Published
in **paper**



Retrieve
in **paper**

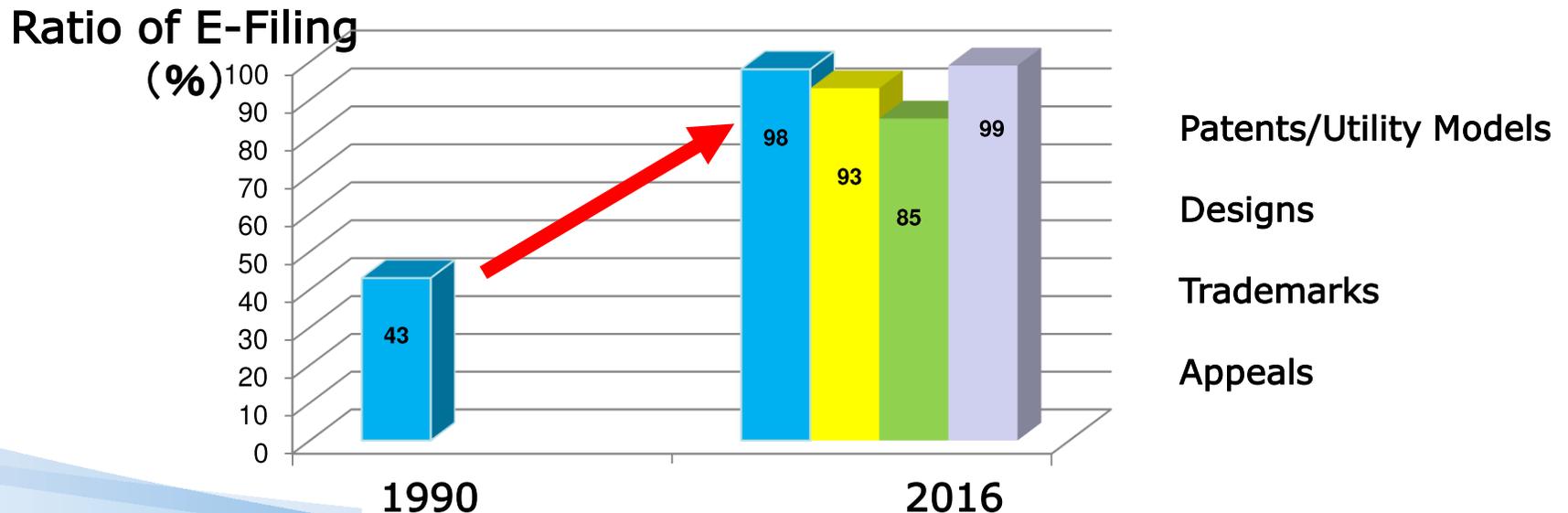
	in 1985	in 1986	in 1987	in 1988	in 1989
JPO	299,851	316,162	336,884	335,759	345,140
WORLD	921,715	947,715	994,972	1,009,664	1,014,382

- 
- Office's issues
 - Resource to manage a pile of paper documents
 - Delays (filing, examination including formality, publication)
 - Users' Issue
 - Difficulties in retrieving prior art from paper gazettes

Background of JPO Computerization

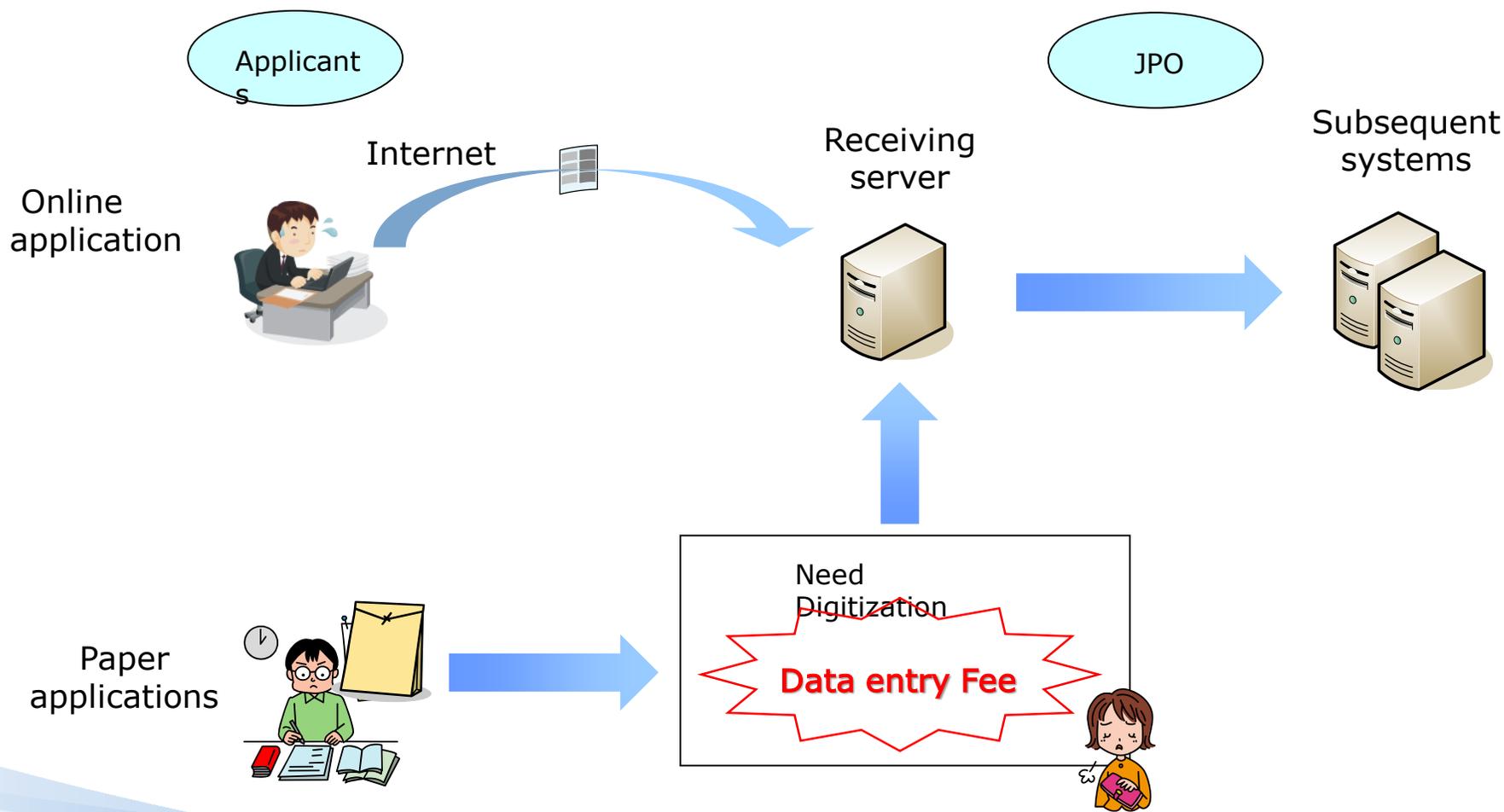
- 1984 Paperless Project was formulated
- 1990 E-filing using a special machine for patents/utility models started
- 1998 E-filing using PC through ISDN line started
- 2000 E-filing for designs, trademarks, PCT and appeals and started
- 2005 E-filing using "Internet Application Software" started

Ratio of E-Filing in IP Applications



Online and Paper Applications

- Applicants are able to submit an application to the JPO either online or on paper.



E-filing procedures in JPO

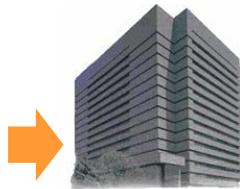
To Prepare e-filing circumstances: 

- Purchase e-certification
- Download e-filing software

e-certification



e-filing software



Register e-certification to the JPO.

E-filing software imports HTML files and converts them into XML files. Applicants can verify the conversion results before filing. 



1) Applicants draft an application with commercially available word processing software such as "MS WORD" and save it as a HTML document.



Application (XML)

2) Applicants import the application into e-filing software. The e-filing software converts the HTML document into XML and conduct formality check roughly.

Documents from JPO (XML)



dispatch



4

Applicants receive XML documents from JPO via e-filing software.

Application (XML)



e-filing





Applicants submit the XML formatted documents to the JPO via e-filing software.

Benefits of computerization

Office's benefits

- Improvement of the effectiveness of business operations

Public Users' benefits

- Improvement of procedural convenience in filing, etc.
- Timely and user-friendly utilization of IP information

Benefits of gazettes processed by text

Office's benefits

- Higher quality of search by full text
- Easy to write documents (grant/refusal, etc.) by editing the text of gazette

Public Users' benefits

- Appropriate filing and right by searching and comparing with prior art
- High quality filing lighten the load of patent examiner search

Hot Topics

– J-PlatPat and API –

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/>

Search items of J-PlatPat



Help desk (+81)3-3588-2751
(weekdays 9:00-21:00 JST) helpdesk@j-platpat.inpit.go.jp

[Japanese](#) | [Site Map](#) | [Help list](#)
National Center for Industrial Property Information and Training

Patents/Utility Models

Designs

Trademark

Trials & Appeals

[Home](#) > Patent/Utility Model Search

Patent/Utility Model Search

Help

You can retrieve patent/utility model publications, foreign documents, and non-patent documents by using keywords in bibliographies, abstracts, and claims, as well as classifications (FI/F-terms, IPC), etc.

Enter a document type and a search keyword to search. (An OR search is performed when you separate search keywords with a space.)

For more information about classification information, see [Patent/Utility Model Classification Search \(PMGS\)](#).

Selective Input

Logical Expression Input

Search target text

Japanese text English text

Document types

Advanced Settings +

Domestic documents (PAJ) Foreign Documents J-GLOBAL

Search keywords

Search item

Keyword

Title/name of invention or device

Abstract

FI

F-term

Facet

IPC

Organization of applicant/right holder/author

Identification number of petitioner

Appeal or trial number

Priority claim country/region/number

Ex) 'Semiconductor memory device'

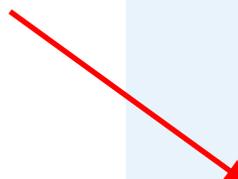
Proximity Search

Ex) Composition

Proximity Search

Ex) C04B35/49

Searchable by text, classification, number, applicant, etc.



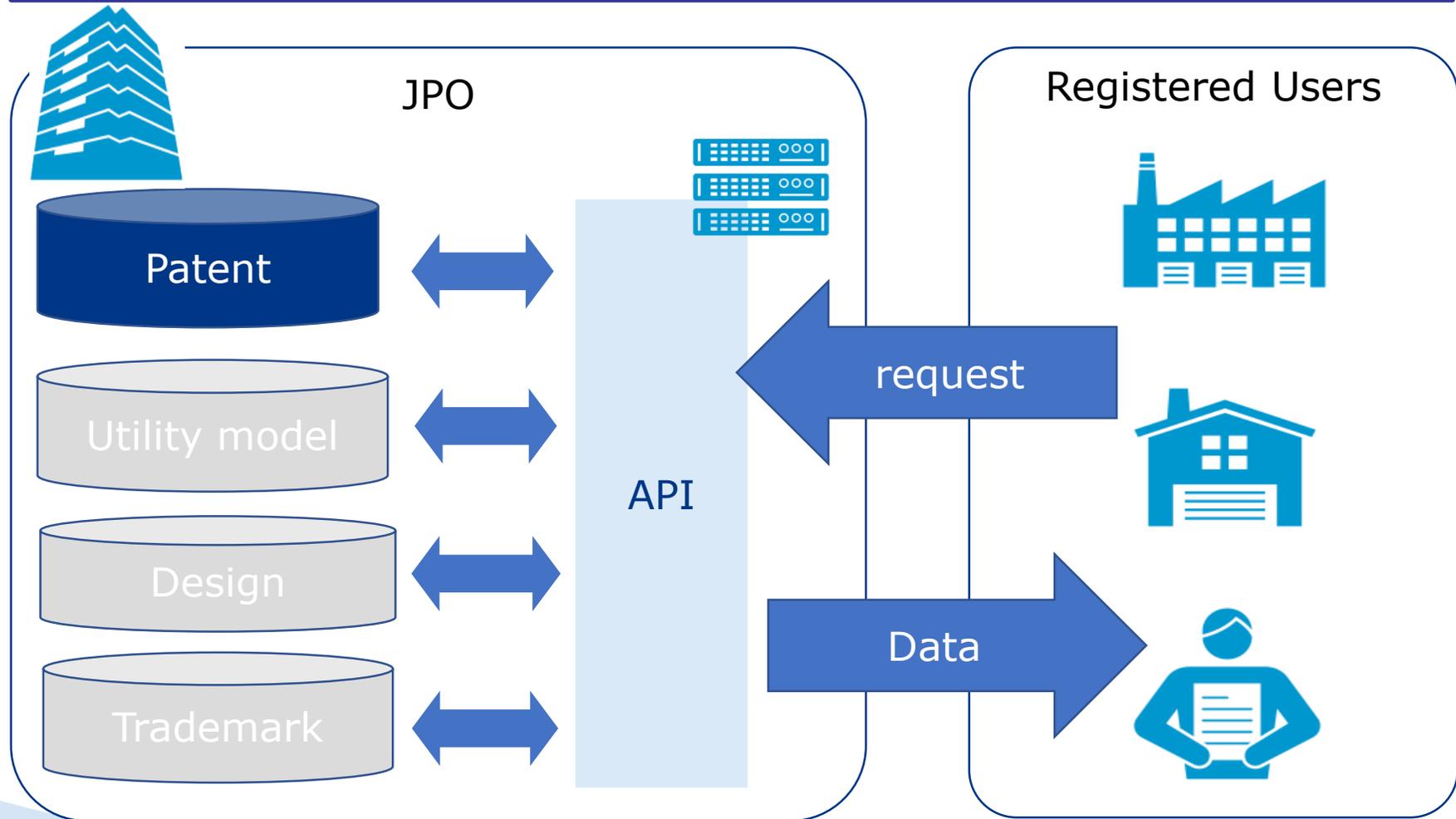
Updates plan of J-PlatPat

Three major updates will be performed in J-PlatPat as following.

Functions	Release timing
Patent Legal Status Data	During 2023
CSV Output of Search Result List	March 26, 2023
Number Search and RSS registration for JP DO	

APIs for acquiring IP information

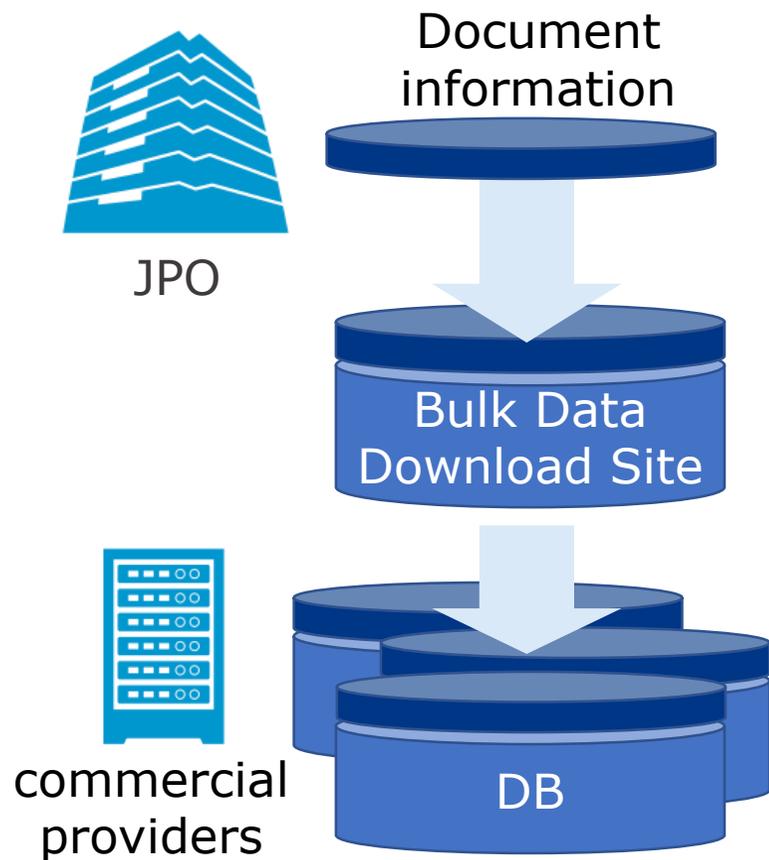
APIs provided by the JPO enable users to acquire patent information directly in user's programs or Apps.



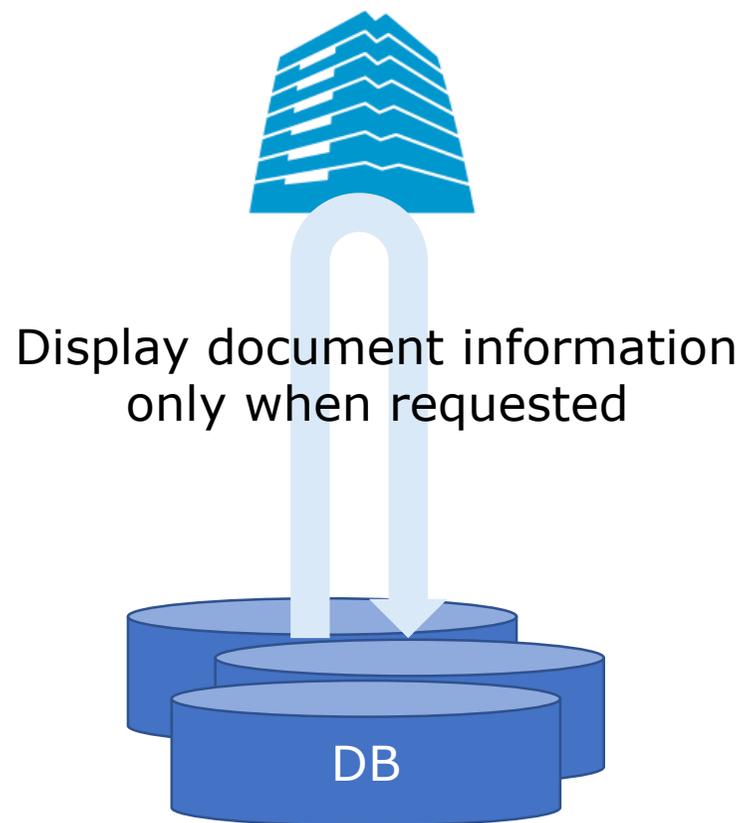
Benefits of using APIs

APIs can contribute to lower cost of handling patent information.

Bulk data download service



API service



APIs for acquiring IP information

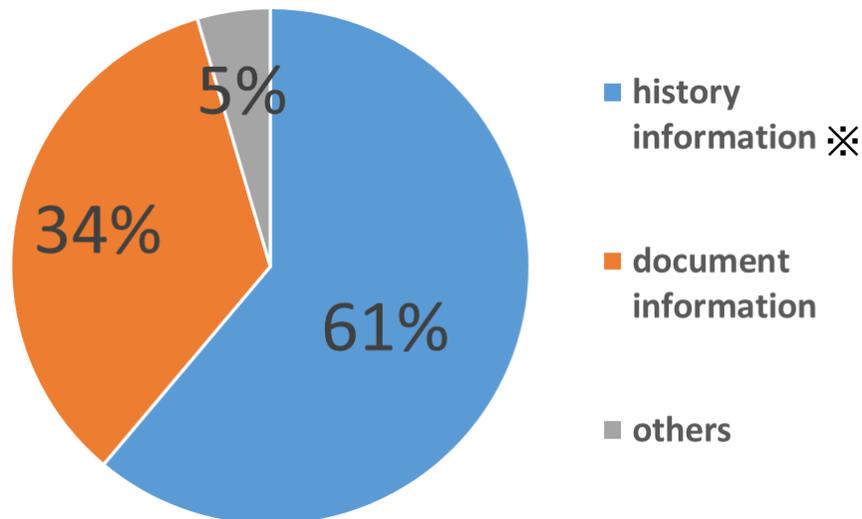
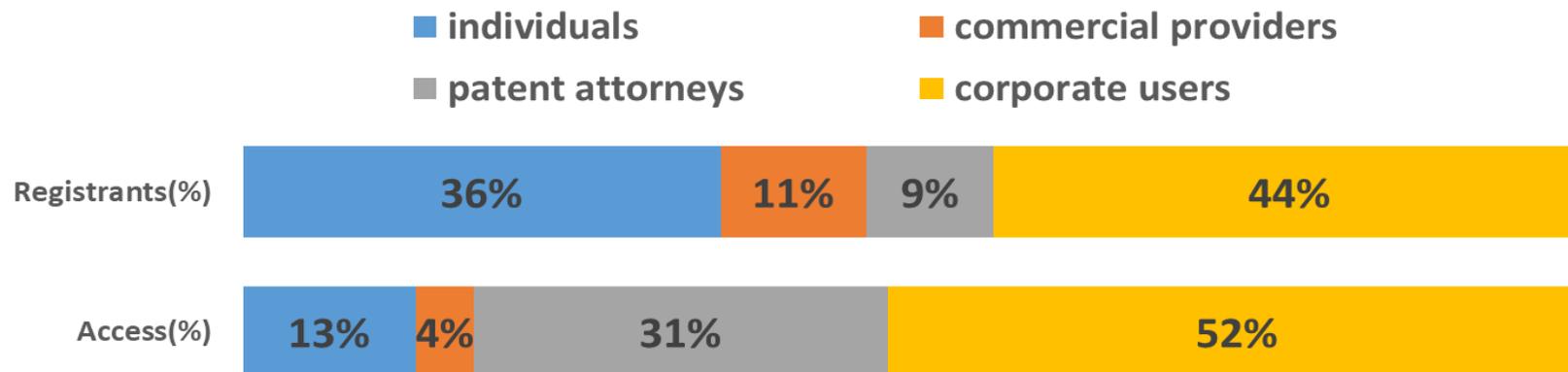
There are several types of information provided by the APIs.

	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.

User types using APIs

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



As of 31st August 2022

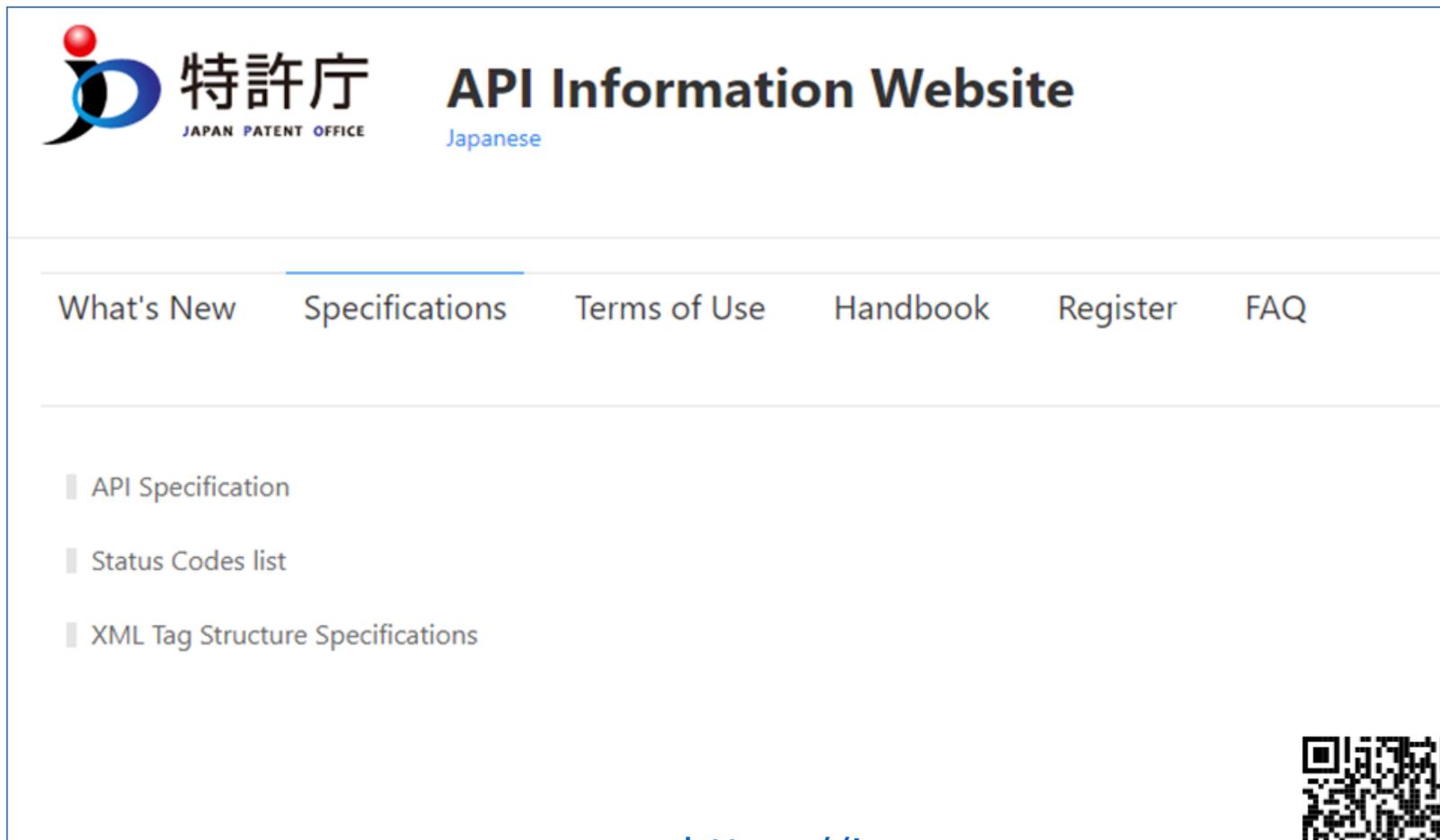
※ History information is also provided via Bulk Data download service.

Purposes to use the APIs

- **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

Access to API Information Website

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



[https://ip-
data.jpo.go.jp/pages/top_e.html](https://ip-data.jpo.go.jp/pages/top_e.html)



Expectations for ASEAN patent offices

Expectation for ASEAN offices

Data (by text) Exchange

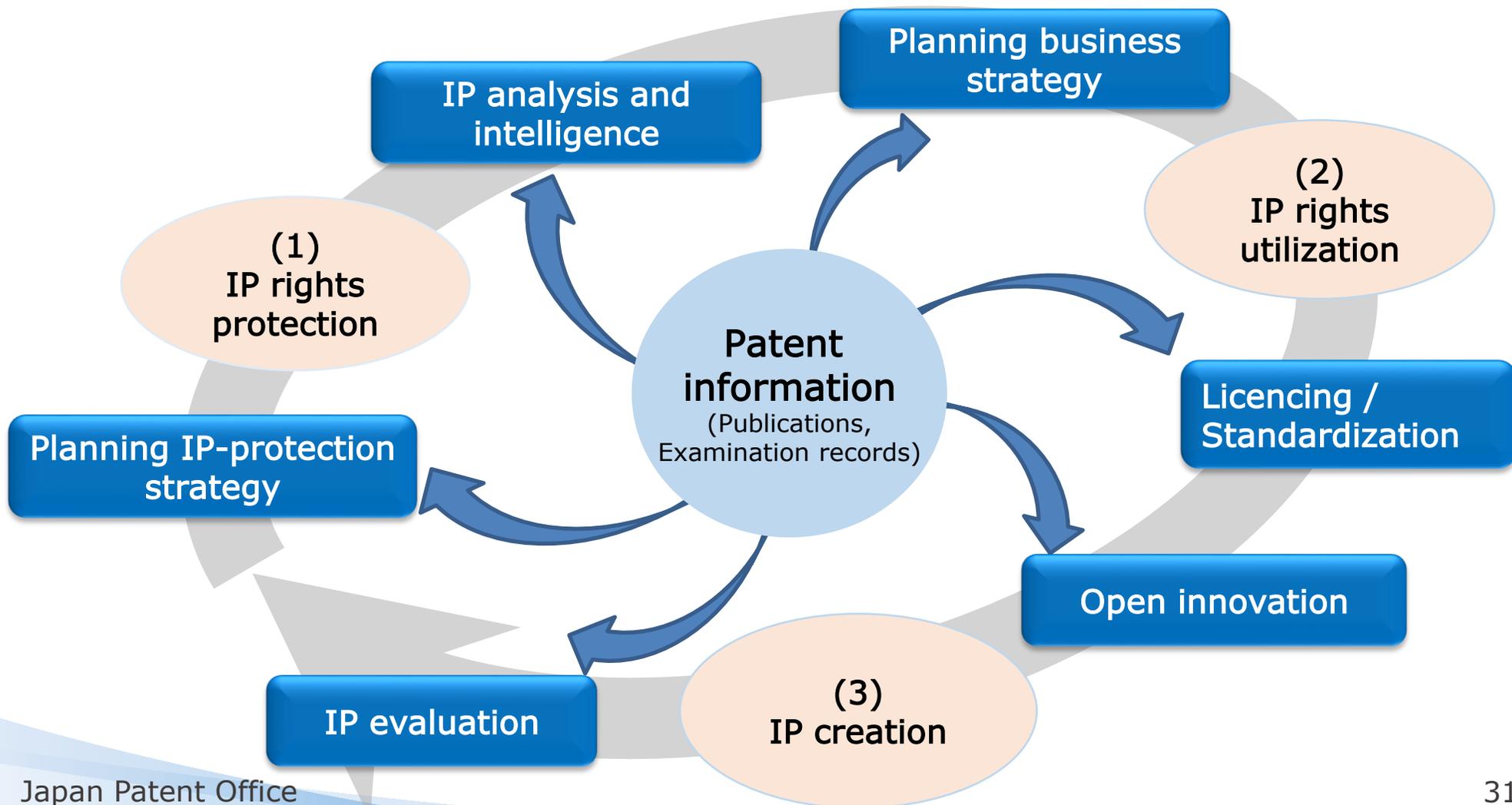
- Quality of examination of both bilateral IP offices will be improved
- Both countries can boost their economy by welcoming more

Computerization and digitization

- IP office can improve the effectiveness of business operations
- The accuracy of business operations can be guaranteed.
- Both of examiners and users can search appropriately by full text.

IP information is essential factor for IP ecosystem

IP information is a key driver for IP ecosystem consisting of IP creation, protection and utilization.



Thank you !



Supplement

DATA Exchanges Overview

Steps to Data Exchange

- ⊖ Assign a person in charge of data exchange
- ⊖ Discuss on conditions for data exchange
- ⊗ Agree on the data exchange policy and the available list
- ④ Start the data exchange

Conditions for Data Exchange Policy

Conditions (Data Types, Range of Use, etc.) will be arranged by mutual agreement

For example...

- ◆ How to exchange data
 - FTP (recommended) and Internet
 - ※ Using hard disk drive(HDD) is also available
- ◆ Data to be exchanged
 - Patent, Utility Model, Design and Trademark related image data, text data, bibliographic data, etc.
- ◆ Frequency of data exchange
 - Quarterly, Monthly, Biweekly etc.

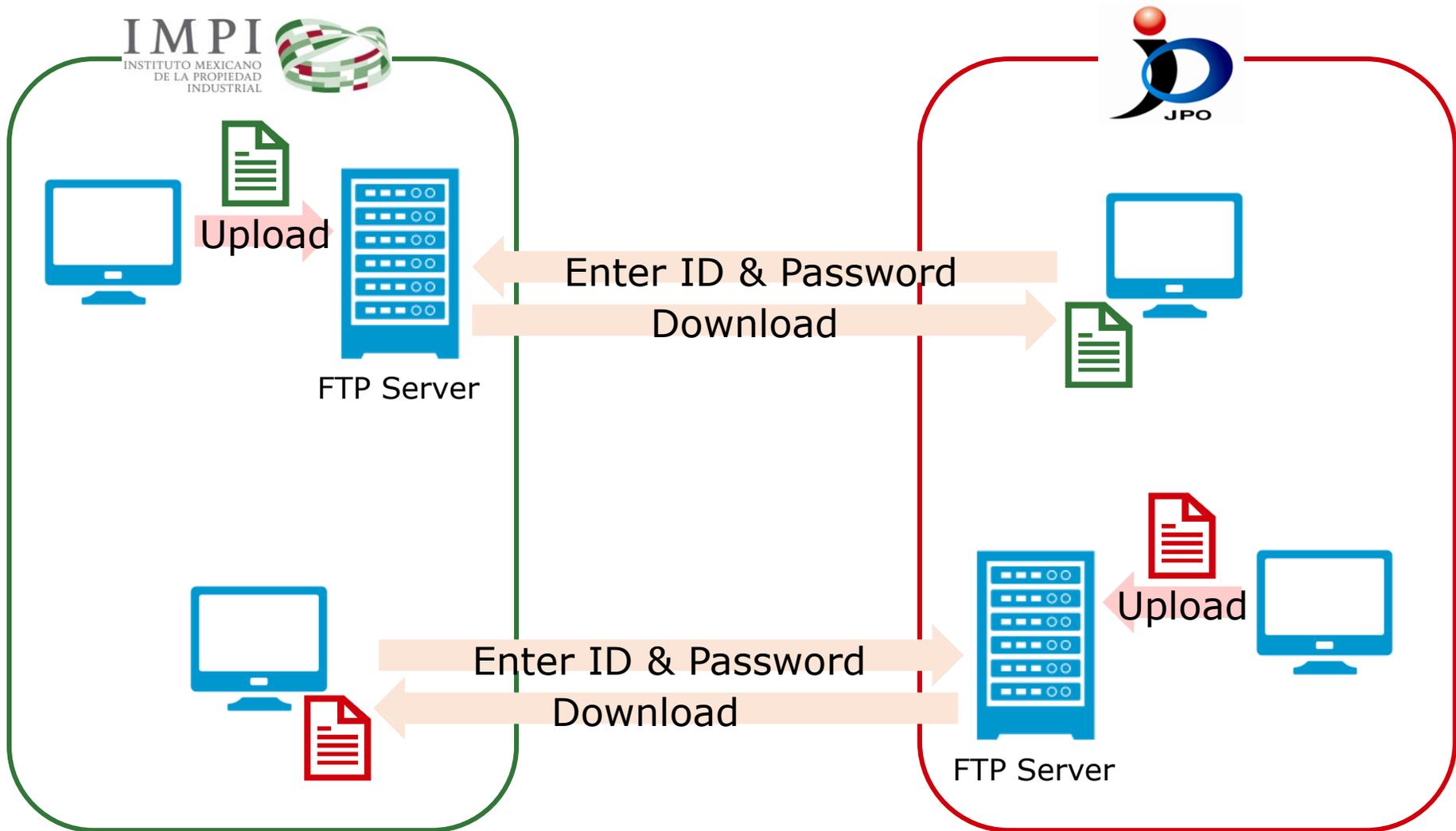
Data Exchange Overview

Example of Available List

	Category	Office	Product Name	Data Format	coverage
Patent and Utility Model	Publication Data	JPO	Image/Text products - kind codes A B U Y* *Note A: patent application B: granted patent U: registered utility model (unexamined) Y: registered utility model (examined)	PDF XML SGML TXT TIF	2004-present 2004-present 1983-2003 1971-1982 1922-1993
			Patent specifications of Japan in Japanese	IMG	1885-1956
		IMPI	...		
	Classification Data				
	Abstract				
	Legal status				
Design					
Trade mark					

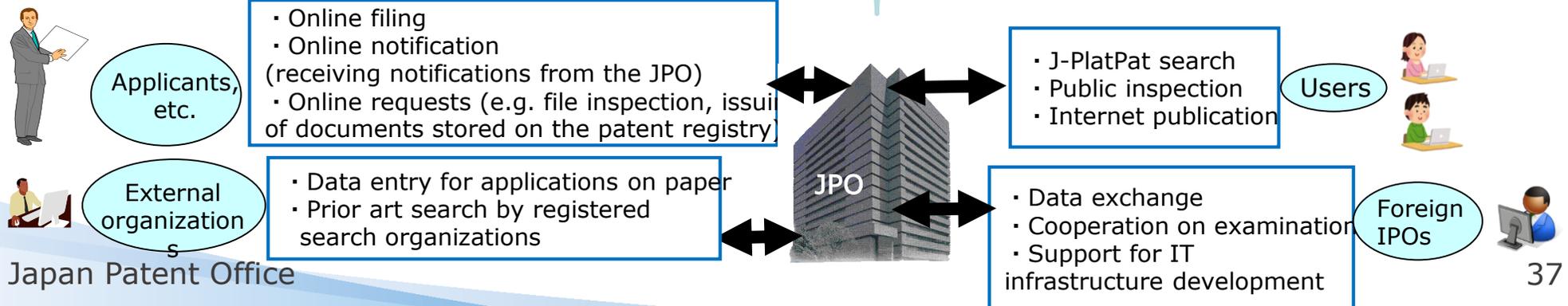
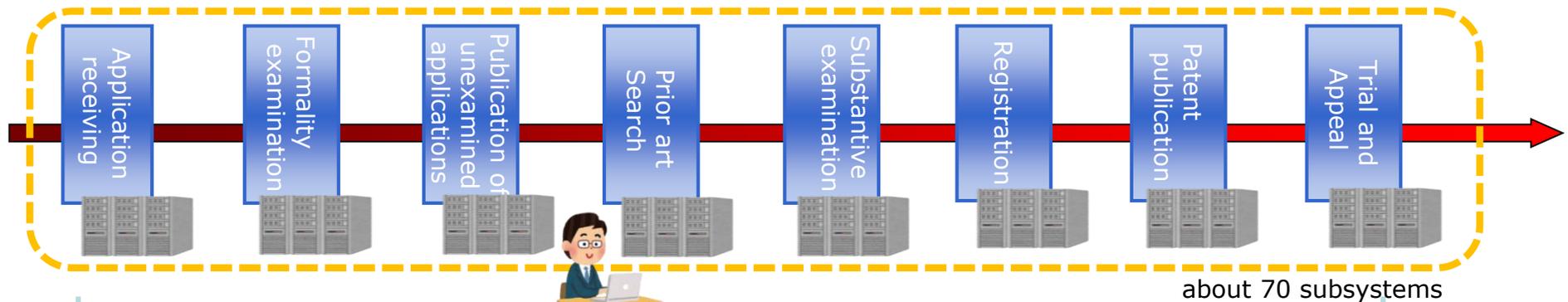
Data Exchange Overview

How To Exchange Data Via FTP



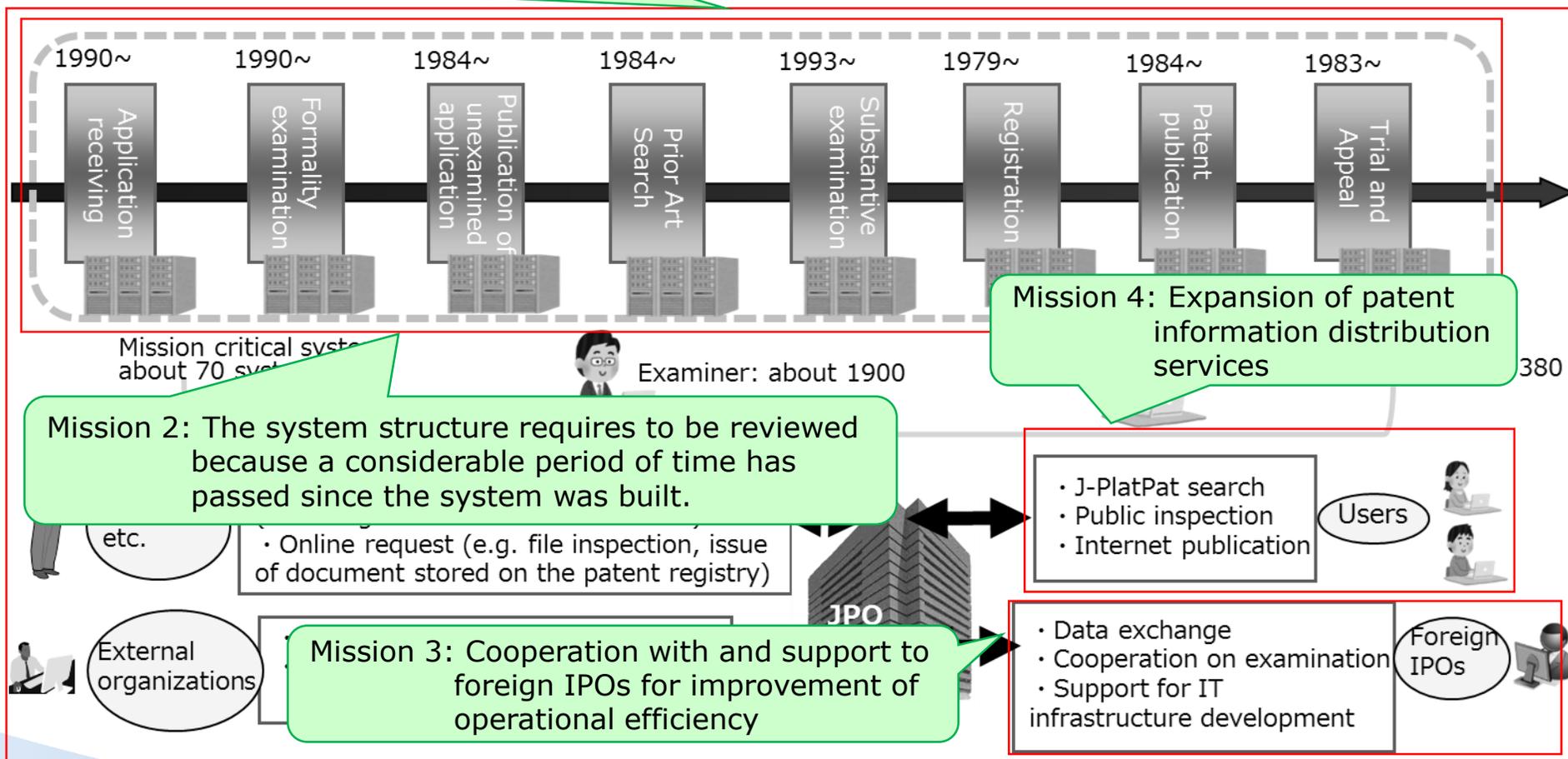
Outline of the JPO System

- In 1990, the JPO launched **the world's first e-filing system**.
- **The large-scale information system** that handles **a wide range of operations**, such as receiving large numbers of applications (about 500,000 a year) for patents, utility models, designs and trademarks, examinations, registrations, trials and appeals is in operation.
- **So far, the JPO has built the system for each operation**, which currently consists of about 70 subsystems.
- **About 93% of applications are made online** (patents/utility models: about 99%, designs: about 93%, trademarks: about 84%). Most of the staff operations are already systematized.

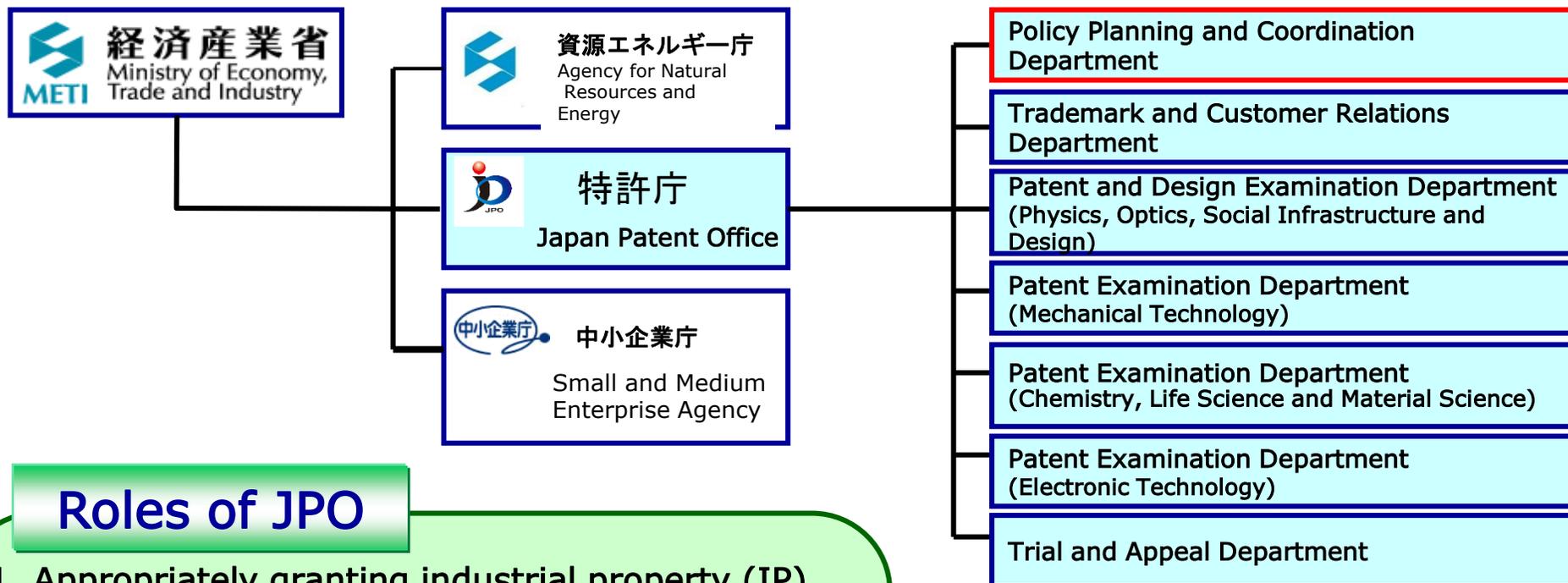


Mission of computerization

Mission 1: To Provide stable administrative services (e.g. 24-hour / 365-day application receiving) and operational environments.
To respond to changes in the environment surrounding the intellectual property system.



Organization and Roles of the JPO



Roles of JPO

1. Appropriately granting industrial property (IP) rights
2. Drafting measures dealing with IP
3. Promoting international harmonization and assistance to developing countries
4. Reviewing the IP rights system
5. Supporting SMEs and universities
6. Improving information services on IP



Organization and Roles of the IT Division

Policy Planning and Coordination Department

Information Technology and Patent Information Management Office

Information Technology Policy Planning Office

- IT-related international measures
- IT-related projects
- IT-related budget
- IT-related procurement

Information Technology System Development Office

- System development, maintenance, and operation according to optimization plan
- Development, maintenance, and operation of current system

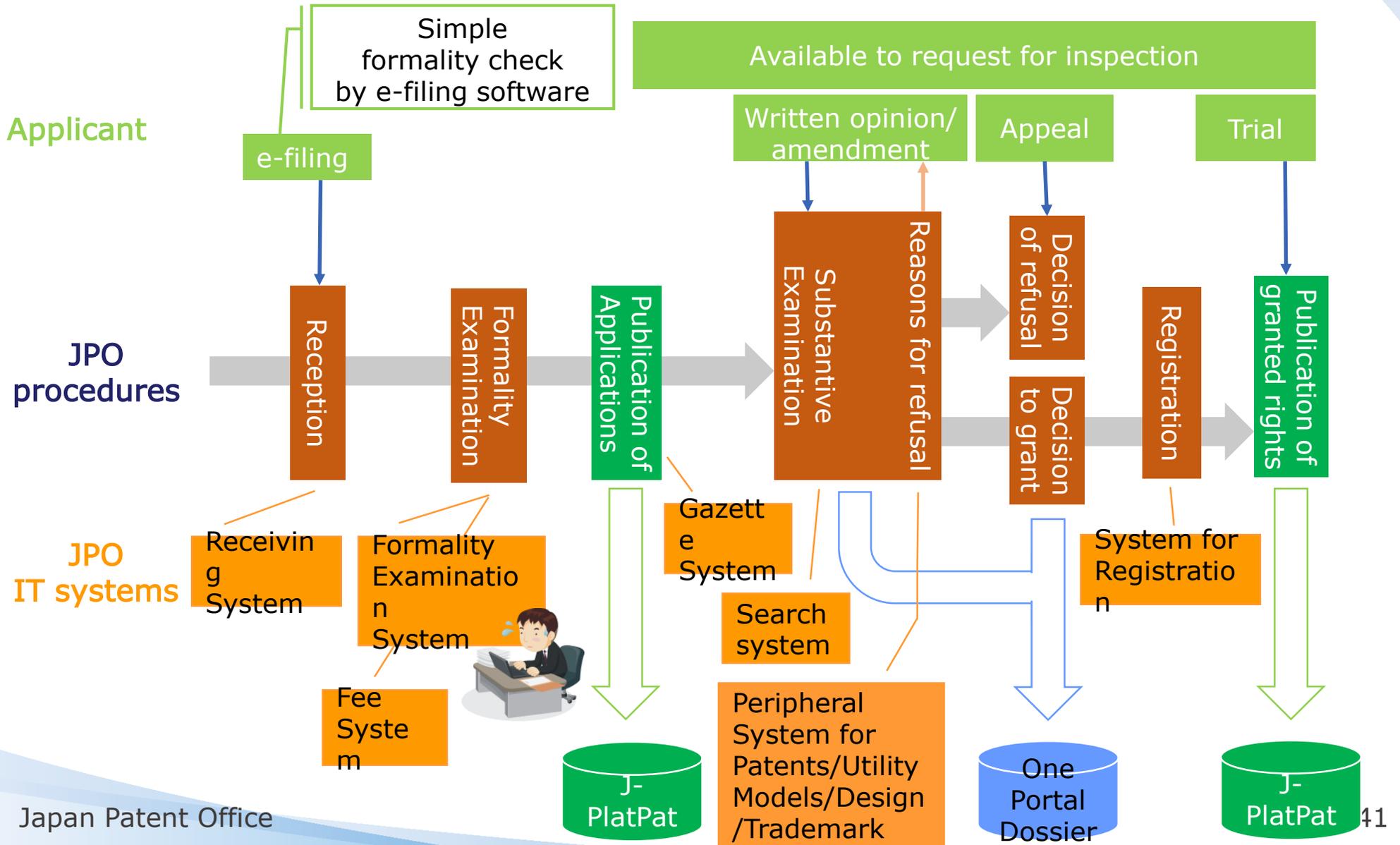
System Management Support Office

- Support for the management and creation of business visualization materials

Patent Information Policy Planning Office

- Investigation and planning related to patent information
- Multilingual support of patent information
- Management of patent information

Workflow and Related Systems



Overview of patent & utility model search system

