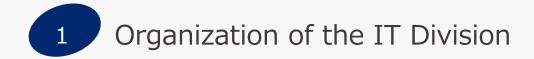
The Update on JPO's Activities on IP Office Digital Transformation Services

November 20, 2023



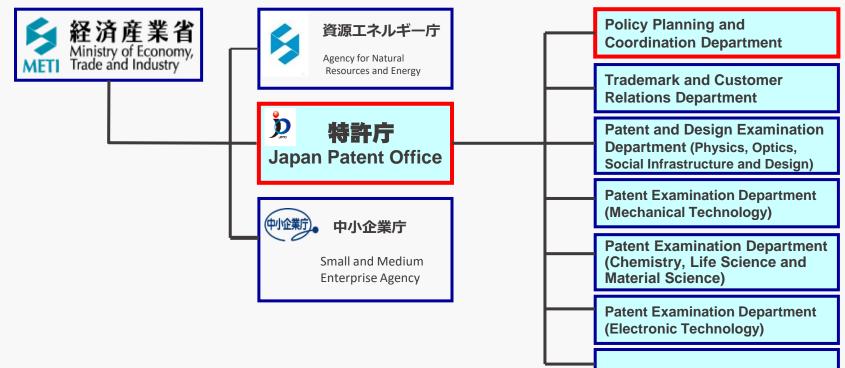


- 2 Overview of the JPO System
- 3 Latest System Development
 - 4 Update of E-filing System
- 5 Issues Related to Digitization



1. Organization of the IT Division

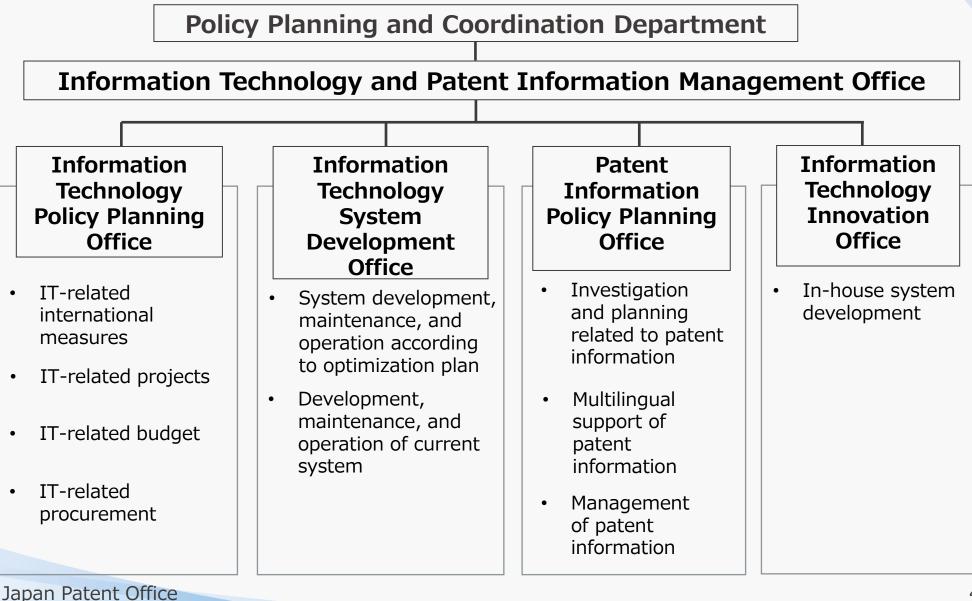
1-1. JPO Organizational Structure



Trial and Appeal Department



1-2. Organization and Roles of the IT Division



1-3. Reinforcement of the JPO Project Management System

METI PMO

Project Promotion and Management System

Ministry of Economy, Trademark and Industry (METI)

Japan Patent Office (JPO)

JPO Commissioner JPO CIO (Deputy Commissioner)

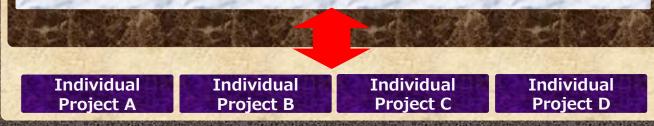
tructi

Minister

eport

Information Technology Promotion Headquarters of the JPO General Manager: JPO Commissioner Deputy Manager: JPO CIO (Deputy Commissioner) Headquarters meeting will be held from time to time to make decisions on important matters.

JPO PMO (Secretariat)



Electronic Administration Promotion Entity

Comprehensive Strategy Office for Information and Communication Technology (IT)

Director: Deputy Chief Cabinet Secretary for Information Technology Policy (Government CIO)

Ministry of Internal Affairs and Communications Administrative Management Bureau

Surveillance system by private sector experts etc.

Technical Verification Committee on JPO information systems

Providing information and improving convenience

Grasping needs about building information system



Active use of intellectual property rights

Outside IT vendors and academic experts, etc.

Technical knowledge such as system development in the private sector



1-4. General Information of the IT Division

Scope of work

Development and management of the information system
 Collaborations with and support for overseas patent offices
 Provision of information to public users

Budget for FY2023

- > JPO budget: Approx. 146,000M yen (≒1,000M USD)
- ➤ IT-related budget: Approx. 34,100M yen (≒233M USD)

Number of staff

- > JPO staff: 2796 (FY2023)
- > IT division staff: 119 (as of Jul. 2023)

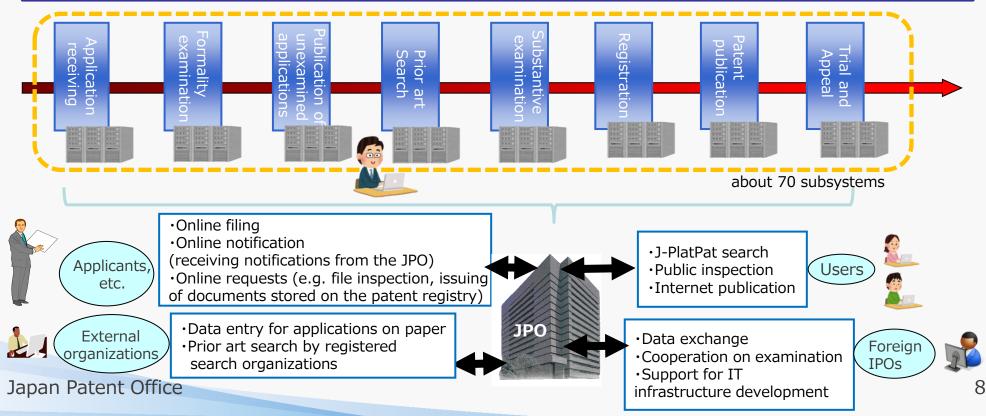
External resources

IT vendors help manage the system operations.

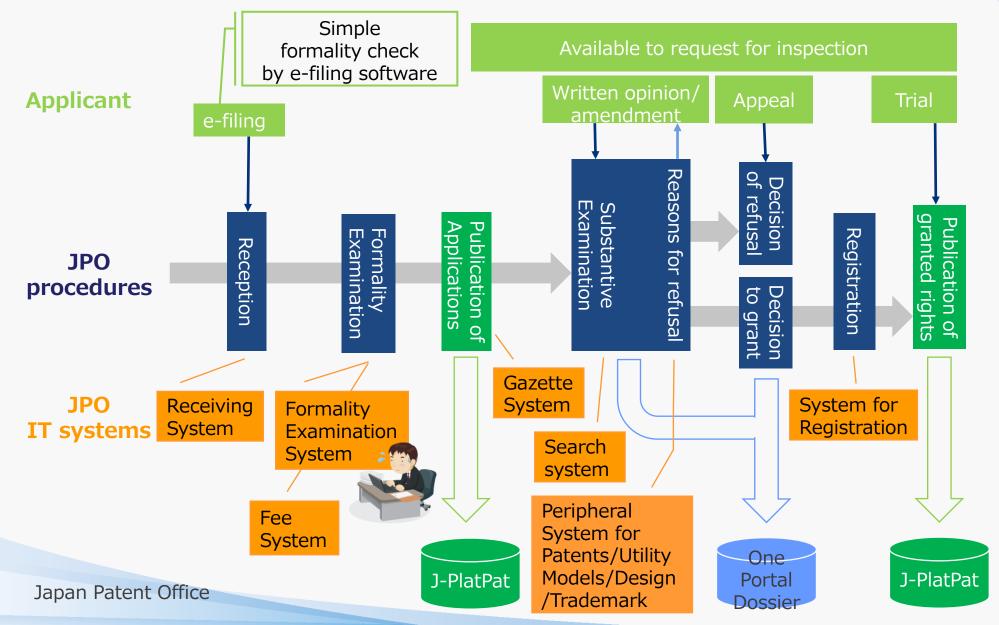
2. Overview of the JPO System

2-1. 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 94%, trademarks: about 85%). Most of the staff operations are already systematized.

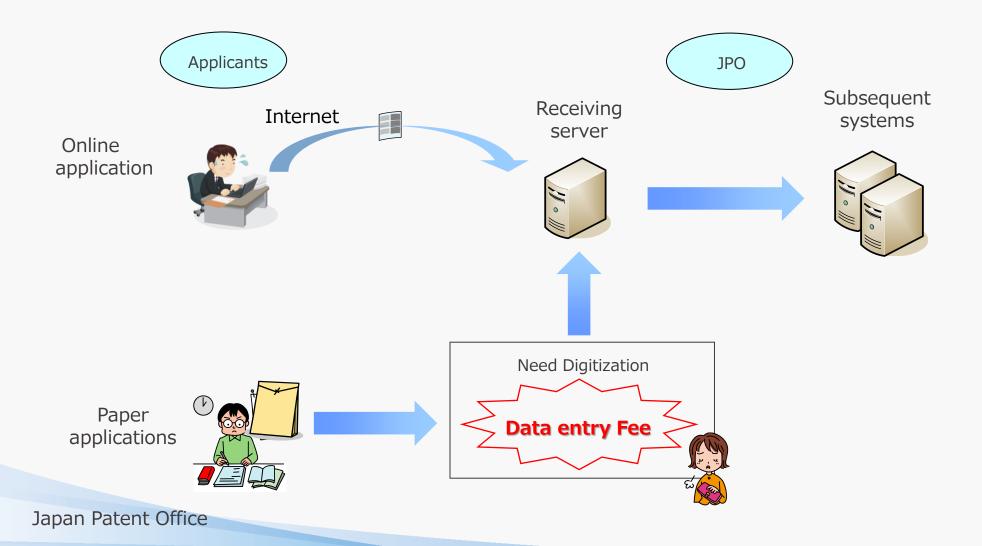


2-2. Workflow and Related Systems



2-3. Online and Paper Applications

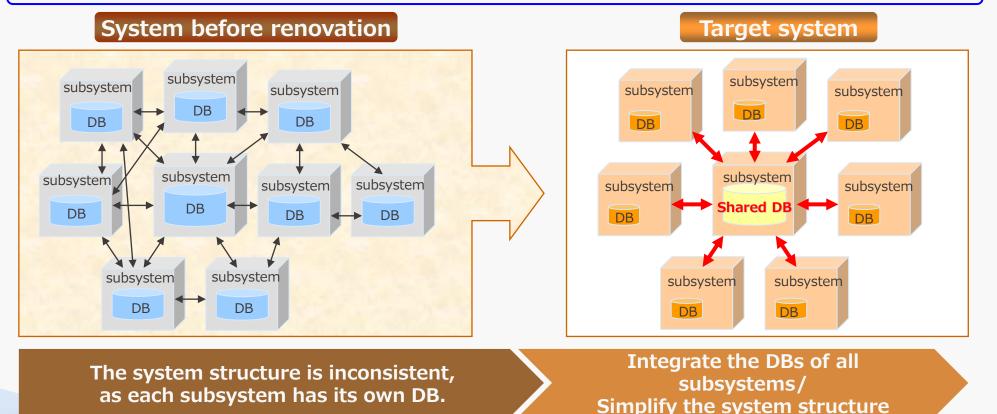
> Applicants are able to submit an application to the JPO either online or on paper.





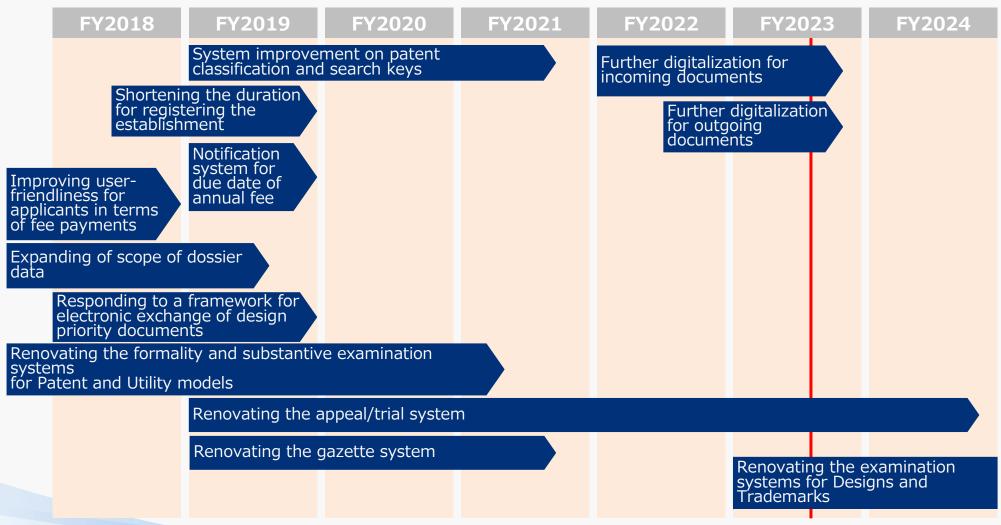
3-1. Reconsidering the System Structure

- The current system structure is inconsistent, because the JPO has systematized it individually for each operation.
- By integrating all databases(DBs) and simplifying the system structure, the JPO aims to speed up various procedures and information provision, as well as expand online procedures, improve reliability, save system costs, etc.



3-2(1). Actions to Be Implemented from FY2018 to FY2024

The schedule for the actions to be implemented from FY2018 to FY2024 in "the Plan for Optimization of JPO Operations and Systems" is as follows:



3-2(2). Actions to Be Implemented from FY2018 to FY2024

Action items of JPO in FY2022

- <u>Improving user-friendliness for applicants in terms of fee payments</u>
 In order to improve user-friendliness for applicants in terms of fee payments, the JPO renovated systems, and the systems was released in FY2022.
 - Enable advance fee payments in cash instead of stamp
 - Simplify fee payments for Madrid System.

Action items of JPO in FY2023

- <u>Further digitalization for incoming documents</u>
 In order to receive almost all types of documents online, the JPO will renovate systems, and the systems will be released in January 2024.
- <u>Further digitalization for outgoing documents</u>
 In order to send more types of documents online, the JPO will renovate systems, and the systems will be released in March 2024.

Action items of JPO in future

- <u>Renovating the appeal/trial system</u>
 Renovating the appeal/trial system for release in January 2025.
- <u>Renovating the examination systems for Designs and Trademarks</u> Renovating the examination systems for Designs and Trademarks for release in September 2026.

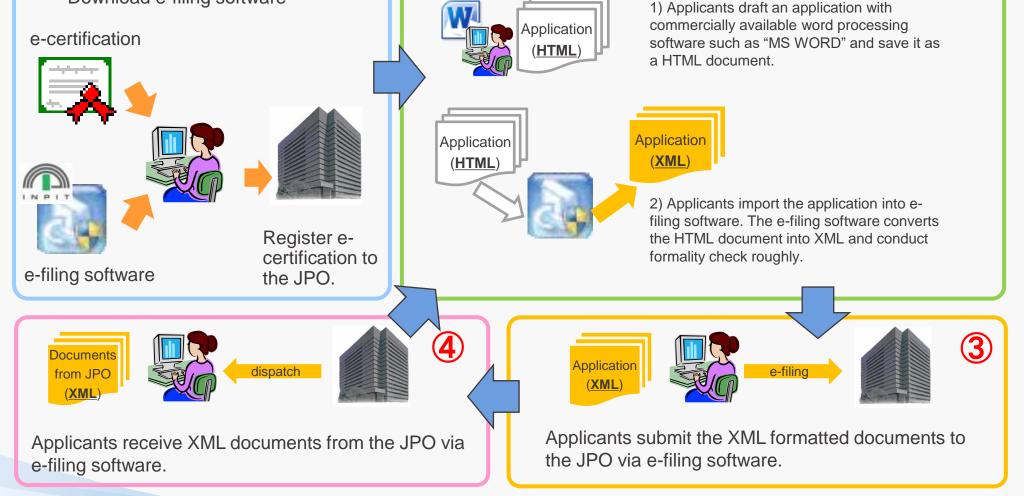


4-1. E-filing procedures in JPO

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To Prepare e-filing circumstances:

- Purchase e-certification
- Download e-filing software

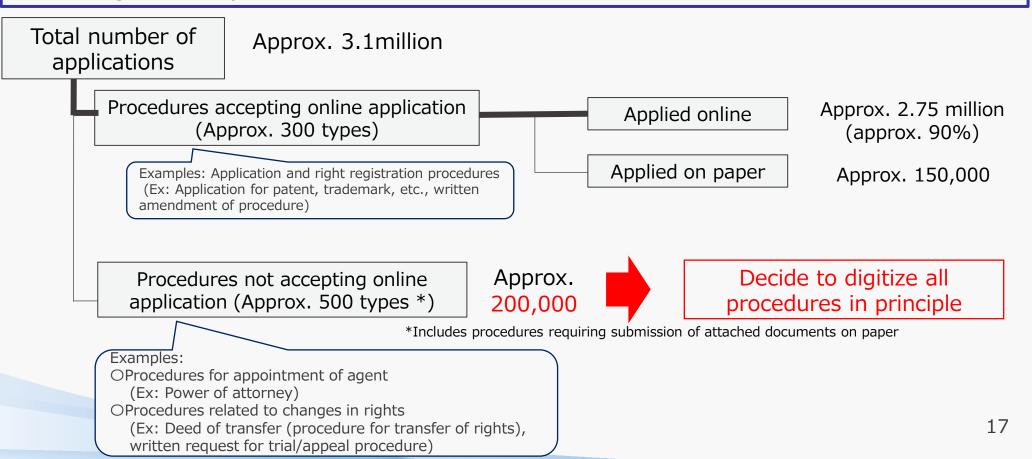


E-filing software imports HTML files and converts them into XML

files. Applicants can verify the conversion results before filing.

4-2. Update of e-filing system - Promotion of further digitization of procedures

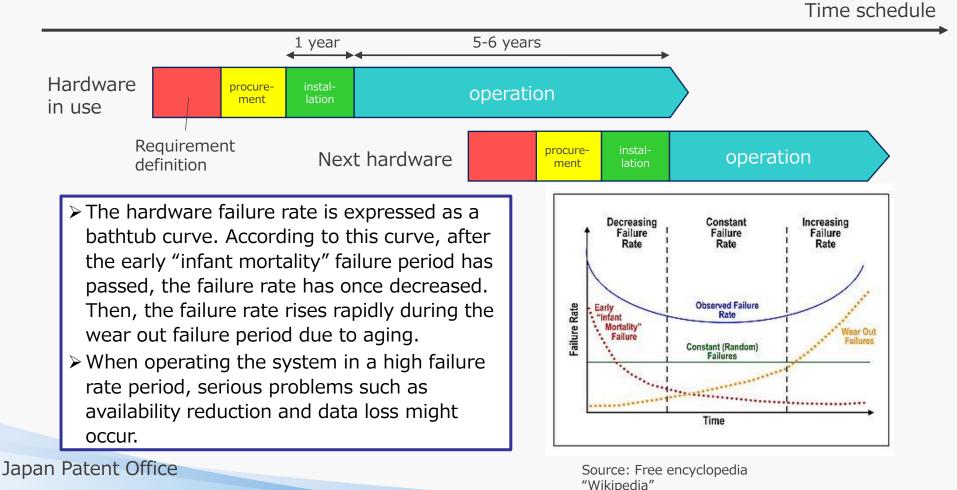
- The JPO digitized patent application in 1990. Currently, about 2.9million (about 90%) of the total 3.1 million annual applications can be submitted online. The JPO promotes <u>digitization of all procedures not accepting online application at this moment (about 500 types)</u>.
- > The JPO formulated the <u>"Plan on Promotion of Digital JPO Procedures"</u> on March 2021.
- A system to accommodate the digitalization is currently under development, with the aim of launching in January 2024.



5. Issues Related to Digitization

5-1. Cycle of Hardware Installation and Replacement

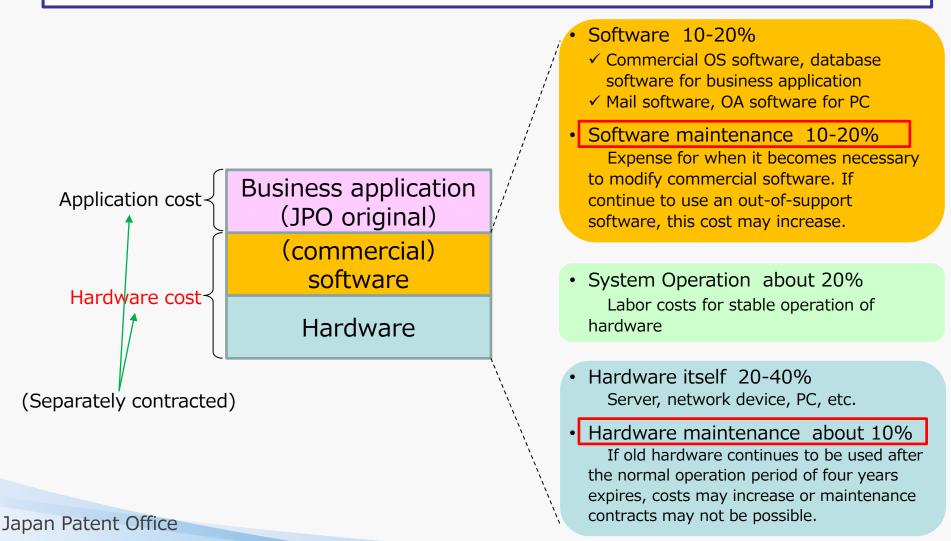
- > The JPO basically installs and operates their hardware by lease contract.
- ▶ Replace to a new hardware after using 5-6 years
 - because the failure rate increases rapidly after that period.
- >JPO starts to prepare a new hardware 2-3 years before the end of the current hardware use.



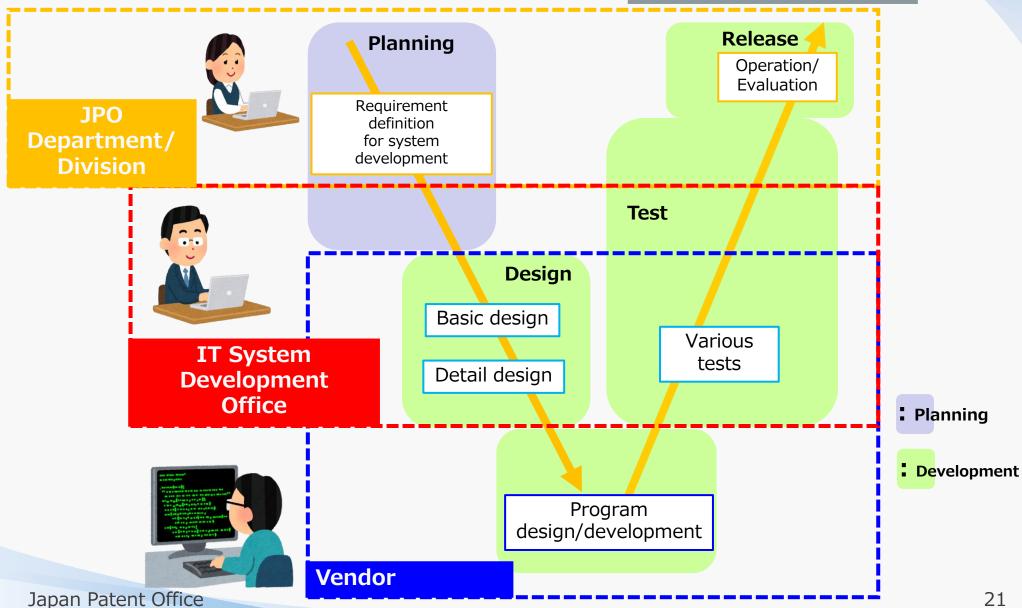
5-2. Maintenance Cost of Hardware

>Not only installation but also maintenance is important.

> The breakdown of hardware costs is approximately as follows:



5-3. Structure of IT Systems Development



Thank you!

