Regional Workshop on Digitization and Dissemination of IP Information and Utilization of Effective Search Tools

Challenges and Opportunities in Developing Information System based on Digitization of Business Processes

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You are here

Introduction of KIPO

KIPO's experience: KIPOnet

Benefits of KIPOnet

Global KIPO

Lessons to be shared

Vision & Goals

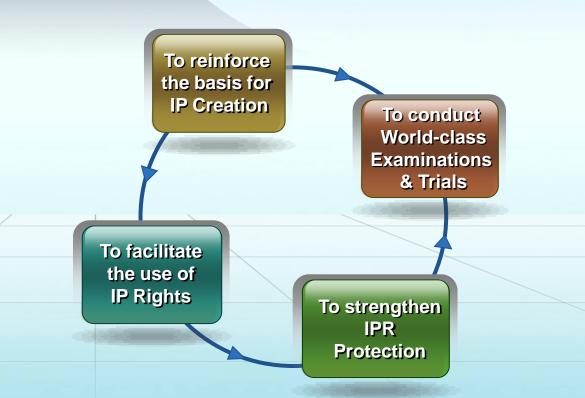
Introduction of KIPO

To be an IP Powerhouse through Innovative IP Administration



MISSION

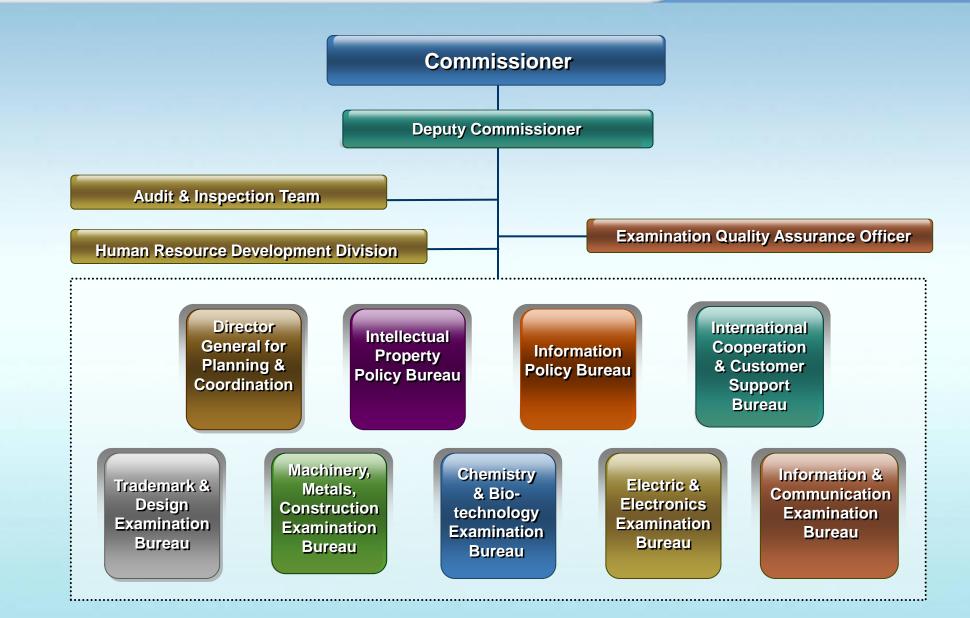
To Contribute to technological innovation and industrial development by facilitating the creation, commercialization, and use of IP, and by strengthening the protection of IP





Organization of KIPO

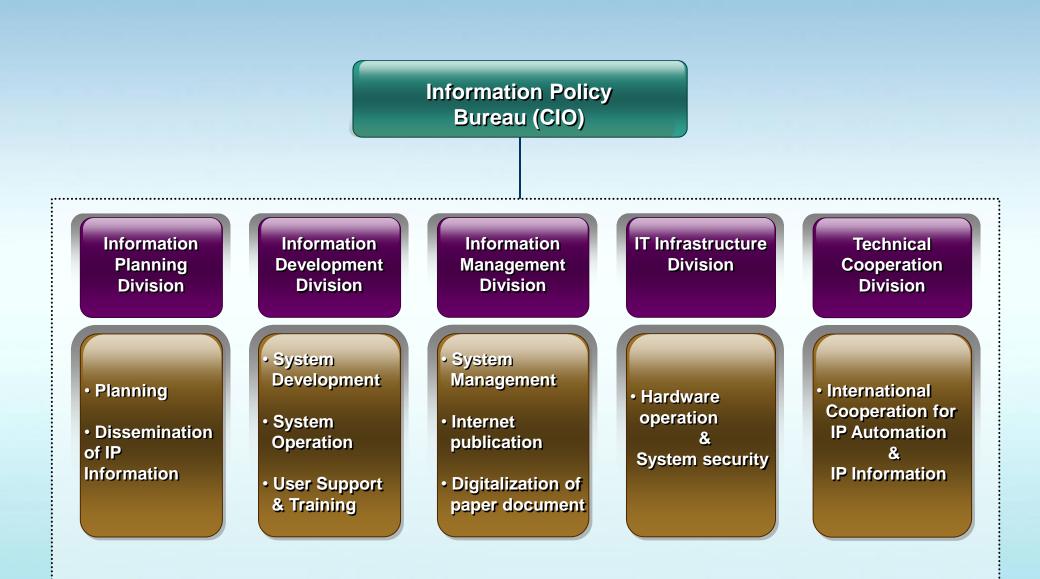
Introduction of KIPO





Organization of Information Policy Bureau

Introduction of KIPO





Number of IP Applications

(Unit: cases)

	2006	2007	2008	2009	
Patents	166,189	172,469	170,632	163,523	
Utility Models	32,908	21,084	17,405	17,114	
Designs	51,039	54,362	56,750	57,903	
Trademarks	122,384	132,288	127,910	126,420	
Total	372,520	380,203	372,697	364,960	

* In 2008, the e-filing rate of applications reached 97.4% (JPO 97%, USPTO 72%)



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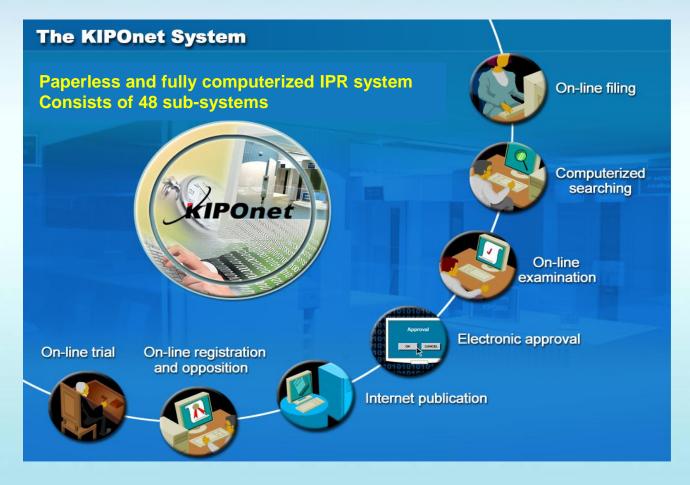
Global KIPO

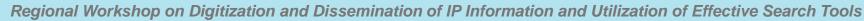
Lessons to be shared

Brief Introduction of "KIPOnet" System

A fully integrated IPR automation system that processes applications and internal administration of all kinds of IPRs

- Electronic handling of all customer-services
- Full automation of internal administration







Background of Development

KIPO's Experience: KIPOnet



The number of IP applications has reached more than 200,000 annually

Limitations in handling paper documents



Inconvenience due to geographical relocation at Daejeon



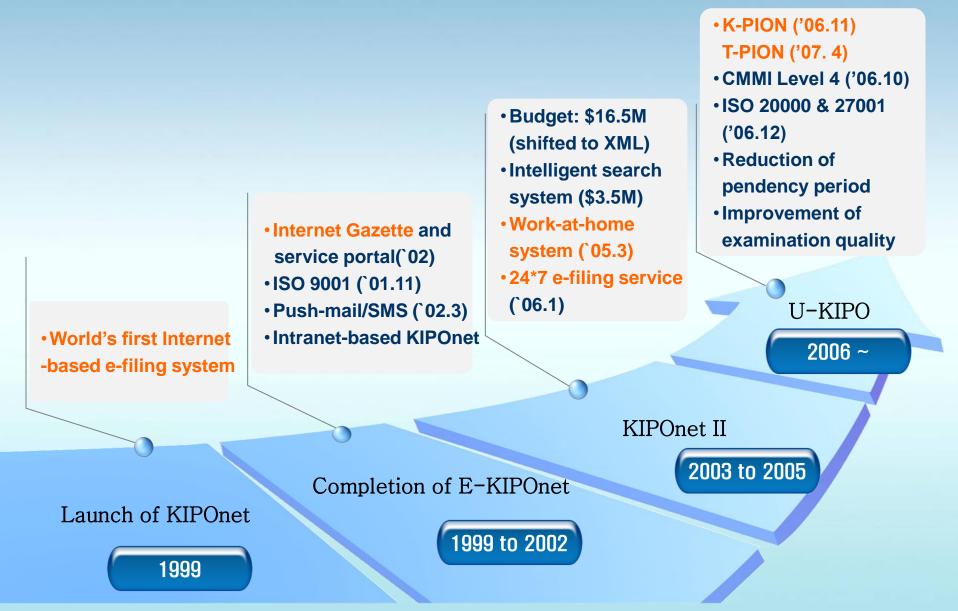
Cost increase of disseminating IP information





History of KIPOnet

KIPO's Experience: KIPOnet





Cost of Development

- Phase 1 ('95 ~ '98) : 31.8 million dollars
- Phase 2 ('99 ~ '02) : 16 million dollars (H/W excluded)
- Phase 3 ('03 ~ '05) : 16.4 million dollars (H/W excluded)

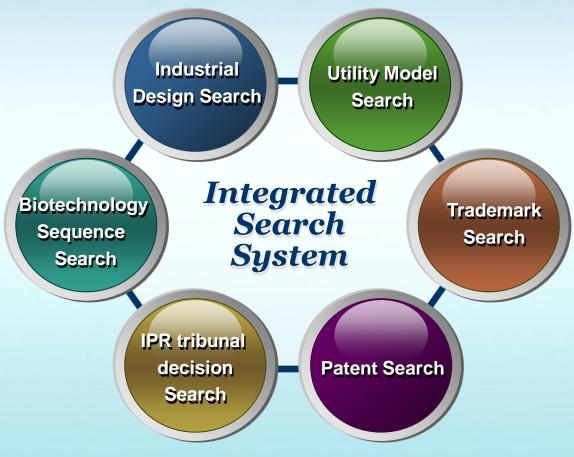
User Training

- Strengthen basic training for internal/external users before launching KIPOnet
- Training of users immediately after upgrading
- Feedback from the internal users (examiners)
 - adopted such feedback to upgrade sub-systems of KIPOnet



Overview of Integrated Search System

 A computerized retrieval system for prior-art search of local & foreign patent documents for internal users by applying Web technology and optimized search engine

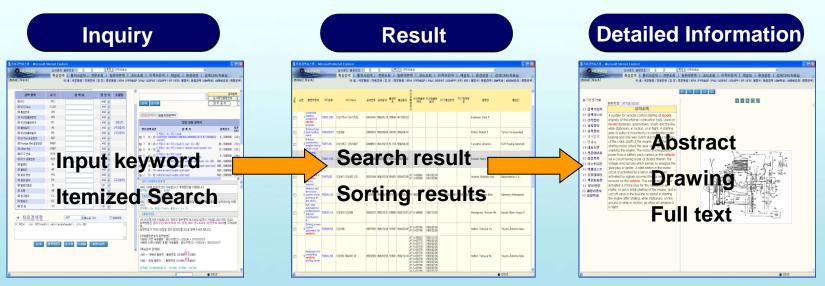




Special Features of Integrated Search System

- Integrated user-interface and search procedure
- Optimized search engine
- Supporting 3 Languages (Korean, English, Japanese)
- Real-time translation of Japanese into Korean
- Expanded query by user's synonym and thesaurus
- Systematic connection between search system and internal administration system
- Simple-query search for all databases in Korean and in English respectively

Search Process of Integrated Search System



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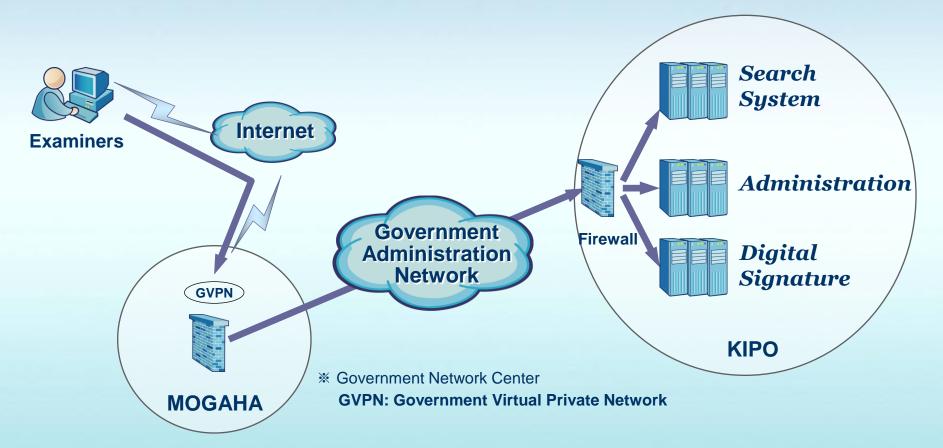


Services for Internal Customers

Services for Internal Customers

What is Work-at-home System?

KIPO's examiners do patent and trademark work online at home







What is KIPO Messenger?





KIPO Messenger

Services for Internal Customers

Benefits of KIPO Messenger

- Efficient utilization of IT resources
 - KIPO messenger replaced the existing internal email.
 - 100GB disk available to other systems
- Reduced calls (to work-at-home examiners around the country, Seoul branch office)
- Reduced paper (for circulations, notifications)
- Reduced printing (for a telephone directory)



Utilizing disk space for other systems





Knowledge Management System (KMS)

What is KMS?

a portal system allowing sharing, utilization and evaluation of various knowledge inside and outside the Office





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Changes by KIPOnet



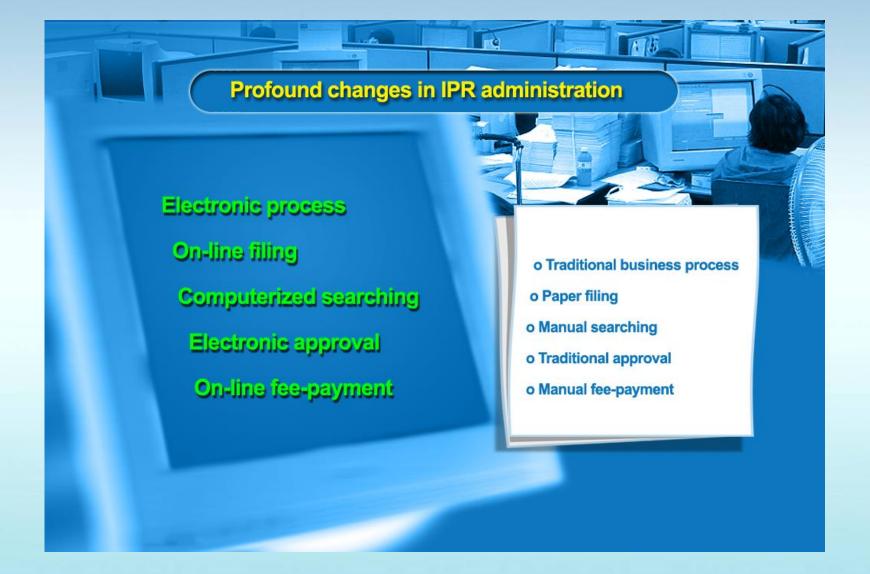
Paradigm shift to electronic environment





Changes by KIPOnet

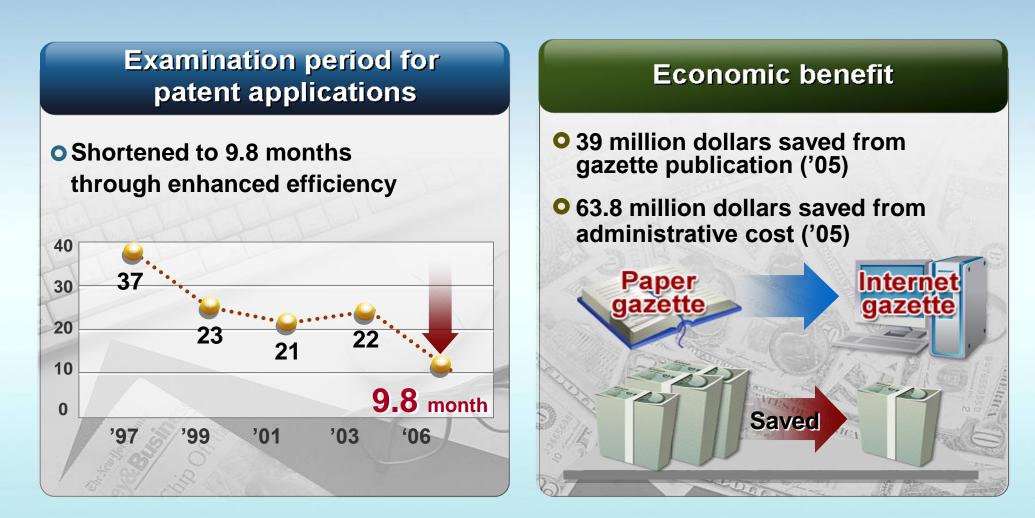
Benefits of KIPOnet







Greater Efficiency in IP Office Administration



<Korea Information Society Agency, 2006>



Improvement of Public Service

- Cost-saving by electronic documents
 - fee reduction for e-filing

- Opportunity cost saving
 - on-line filing
 - on-line search of patent information



<Korea Information Society Agency, 2006>



Enhanced transparency

Benefits of KIPOnet

- Full Automation of IP administration
- My KIPOnet web service
 - disclosure of administrative information
- E-mail & SMS notification service





✓On the customer's side, opportunity cost savings thanks to e-filing and computerized IP search amounted to more than 7.3 billion dollars between 1999 and 2008.

<Customers Opportunity Cost Savings due to the Improvement of Public Services>

(Unit: US \$ million)

S	Section	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Savings
E	E-filing	1.8	2.4	2.9	8.2	9.1	10.5	11.9	13.3	14	14	88.1
5	Search	60.4	165.1	330.1	401.7	465	536.1	621.4	1044.3	1493	2127.3	7244.4
	Total	62.2	167.5	333	409.9	474.1	546.6	633.3	1057.6	1507	2141.3	7332.5

(US \$1 = KR ₩ 1,052.65)

(These figures may be different from other sources due to the assumed exchange rate.)



You are here

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Lessons to be shared

Since the launch of the KIPOnet in 1999, more than 34 Intellectual Property Offices (IPOs) have benchmarked KIPOnet in modernizing their IP examination and administration systems.

KIPO is providing technical consultation to several countries on office automation and is enhancing cooperation with other IPOs and international organizations such as WIPO and APEC.





PCT-ROAD Project

In collaboration with WIPO, KIPO developed the PCT-Receiving Office Administration system, so-called PCT-ROAD in 2005.

- ✓ As at 2010, this system has been deployed to 28 countries around the world, including Brazil, Peru, Mongol, Singapore, Uzbekistan and the Eurasian Patent Organization.
- PCT-ROAD has contributed to increasing the e-filing rate of international patent applications and decreasing the digital divide between developed and developing PCT member states.





Technical Support & Funding

- ISP (Information Strategy Plan) Consulting
 - : Brazil, Philippines, Papua New Guinea, Taiwan, Thailand, Peru, Vietnam, India
- Feasibility Study for technical cooperation
 - Indonesia, Vietnam, Philippines (2007)
 - Mongolia (2008)
 - Uzbekistan (2009)
- Development of IP office automation system

Source of funding

- Economic Development Cooperation Fund (EDCF)
- Grant (from Korean International Cooperation Agency)



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Introduction of KIPO

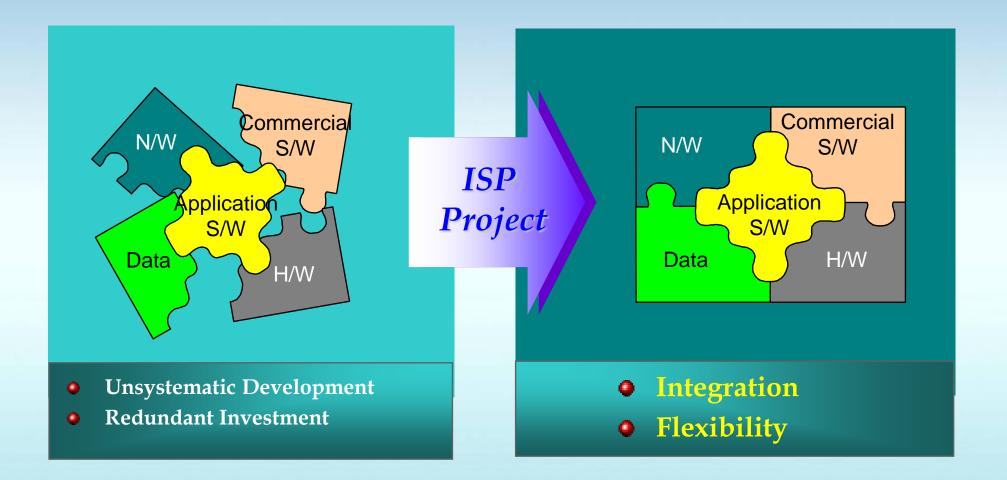
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Lessons to be shared

Well-organized ISP







"An automation system, development of which takes more than three years, is often outdated before its completion."

"Such case is not rare in a rapidly changing IP and IT environment ."



Lessons to be shared

Changes after launch of KIPOnet (1999)

- IT newly available
 - XML DBMS (Extensible Markup Language

Data Base Management System)

- Workflow
- VPN (Virtual Private Network)
- EAM (Enterprise Access Management)
- ESM (Enterprise Security Management)





Phased developing approach

Lessons to be shared

Beginning Of IP Automation

IP Automation in On-Line Environment

Knowledge-based IP services

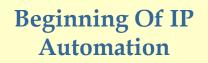
- Paper based application
- Provides basic admin. process supporting functionalities, focusing on receiving and registration
- Simple search function
- Provides basic information to the public





Phased developing approach

Lessons to be shared



IP Automation on On-Line Environment Knowledge-based IP services

- E-filing
- Electronic gazette publication (by CD-ROM)
- Automated IPR administration
- Provides integrated search functionalities
- Provides various information services to the public
- Electronic document handling
- Interface with other government agencies
- Streamlined and standardized processes



Phased developing approach

Lessons to be shared

Beginning Of IP Automation IP Automation on On-Line Environment Knowledge-based IP services

- High value-added services using accumulated data
- Provides various training courses by e-learning system
- Provides knowledge-based IP administration environment to IPO staffs and the public
- Connects with other IPOs for information exchange
- Standardized processes reflecting PLT, TLT, Madrid Protocol, etc.



• Divide Automation project into several phases

- Clarify goals of each phase and keep the number of the goals within manageable level
- Begin a project in the next phase after acquiring internal and external supports by completing projects in the prior phase successfully





Lessons to be shared

This strategy is useful

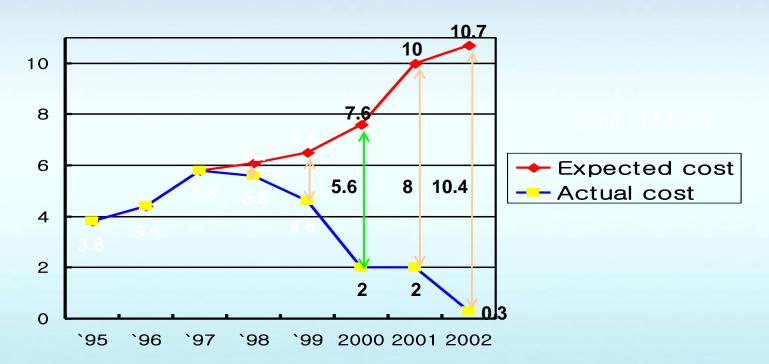
- to show the benefit of automation

 to secure budget and other resources necessary for further automation



Focus in e-filing and e-gazettes

> Online Publication(CD-ROM & Internet)



- The saved budget is reinvested for further automation.



- Nationwide Internet Infrastructure (2003)
 - Internet users : 64.5% of the population
 - 70% of them subscribed High-speed network
- An IPO cannot change national IT Infrastructure (2003)
- Document Digitalization Center can be an alternative
 - When Internet Infrastructure is not sufficient





Thank you.

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