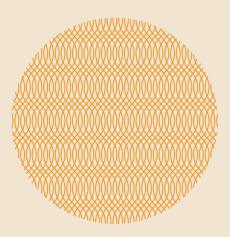




Seoul Tax Information System



SEOUL, READY TO SHARE WITH THE WORLD! Seoul Tax Information System without time or space constraints



Seoul

SEOUL, READY TO SHARE WITH THE WORLD!

•

SEGULTAX INFORMATION SYSTEM

Taxes are essential financial resources for building cities in which all citizens can happily live together.

Seoul has operated high-tech integrated tax information since the intelligence tax information system was built in 1999 to create a tax environment that is convenient for taxpayers and is administratively efficient. As of 2016, Seoul's tax collection rate is as high as 92.2% Seoul Tax Information System without time or space constraints

•

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Benefits of the Seoul Tax Information System

More than 30 years of technological development and innovation has led to bulk processing of tax data and efficient utilization of human resources. This system has greatly contributed to the advancement of tax administration by inducing tax compliance and enabling timely taxation.



4

Tax-related Statistics in Seoul



Amount of local tax collection (Million KRW)

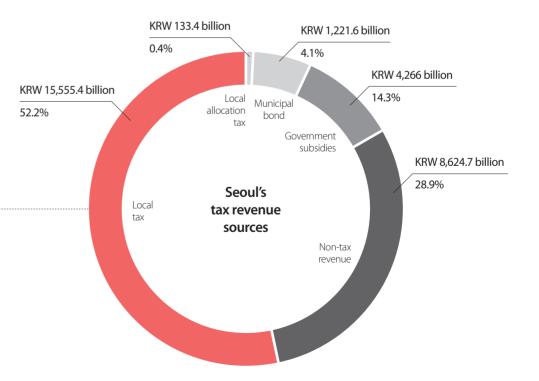


Amount of local tax exemption and reduction KRW 2,624,519 million

Seoul's fiscal self-reliance ratio 80.5% - (Local tax + Non-tax revenue) / General account budget sum × 100

Cases imposed annually 0.1 billion cases **SEOUL, READY TO SHARE WITH THE WORLD!**

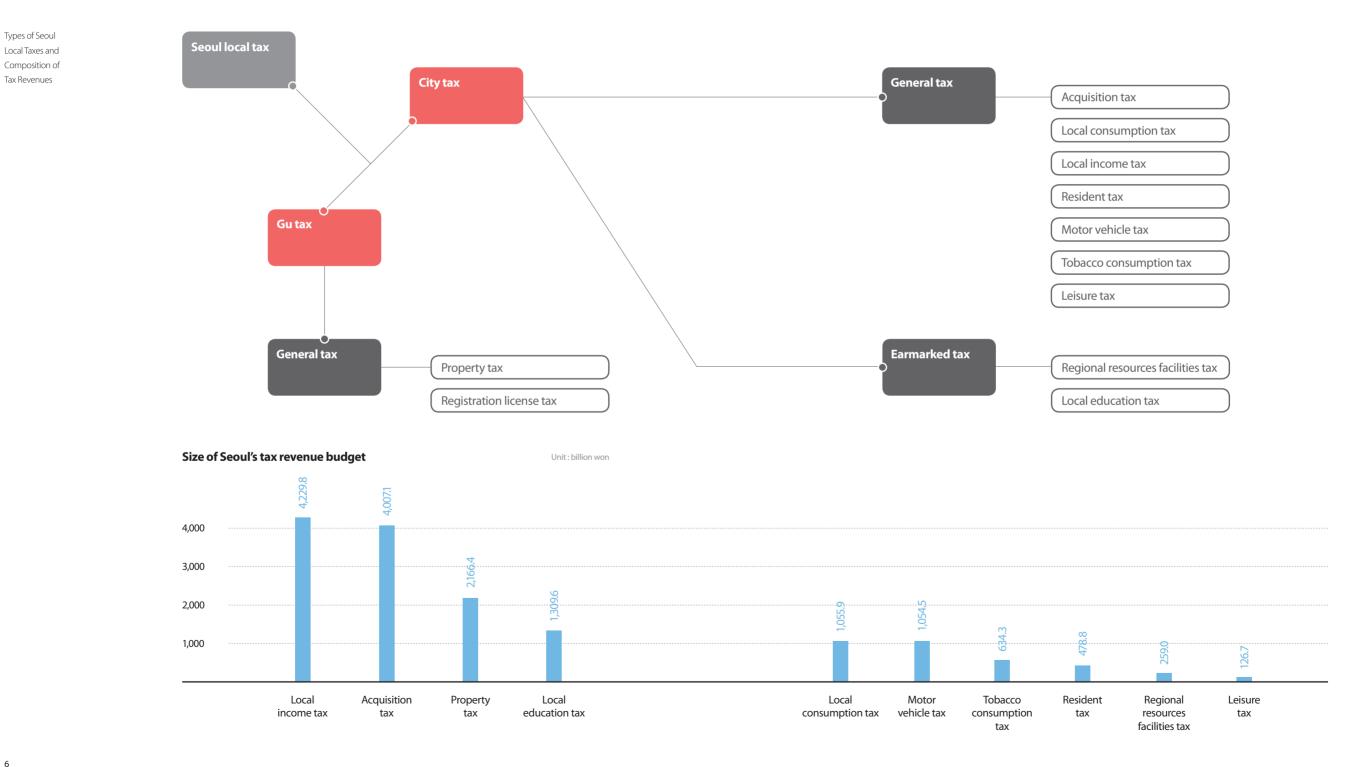
Population (Persons)	10,178,395	Number of buildings (buildings)	628,947
Number of taxpayers (Persons)	6,500,000	Number of houses (houses)	2,793,244
Land area (km ²)	605	Number of registered cars (Cars)	3,112,120





Types of Seoul Local Taxes and Composition of Tax Revenues

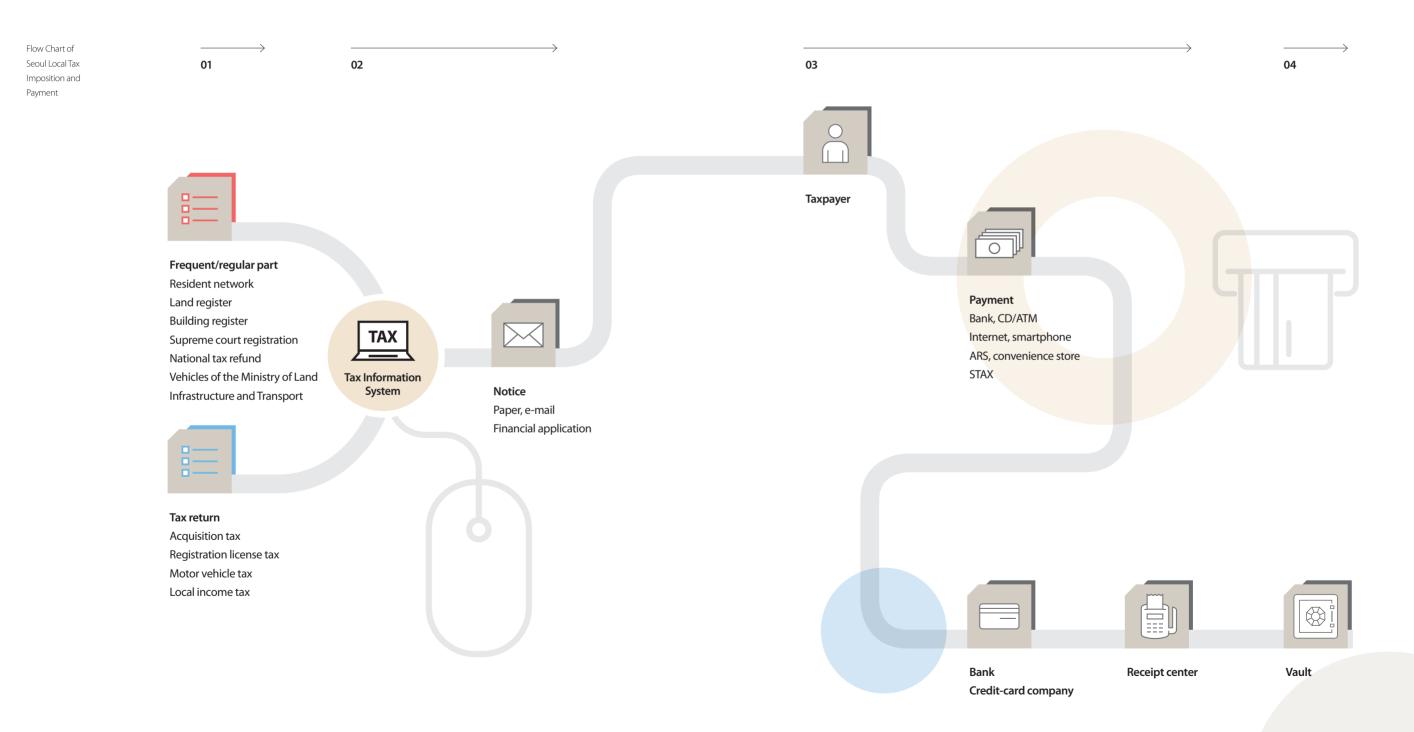
SEOUL, READY TO SHARE WITH THE WORLD!





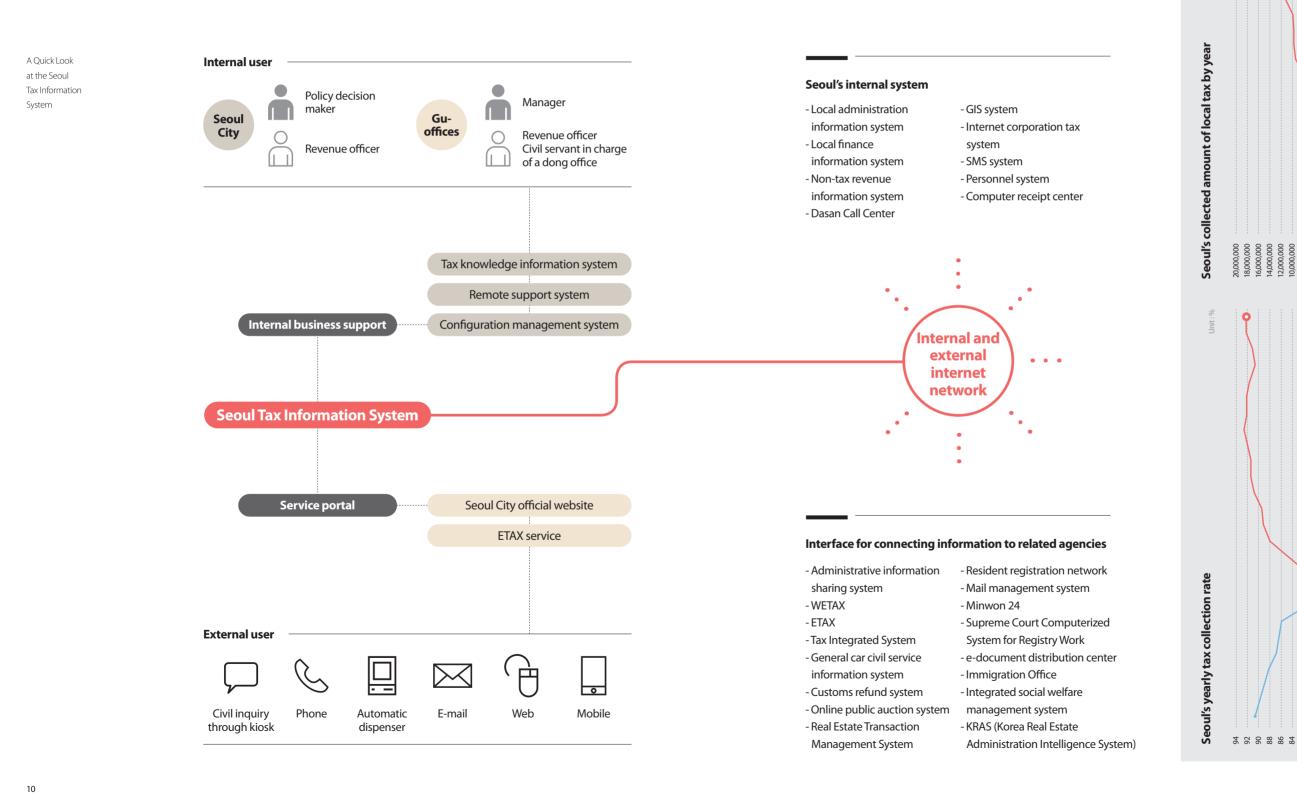
Flow Chart of Seoul Local Tax Imposition and Payment







A Quick Look at the Seoul Tax Information System



SEOUL, READY TO SHARE WITH THE WORLD!

1991

2016

1991

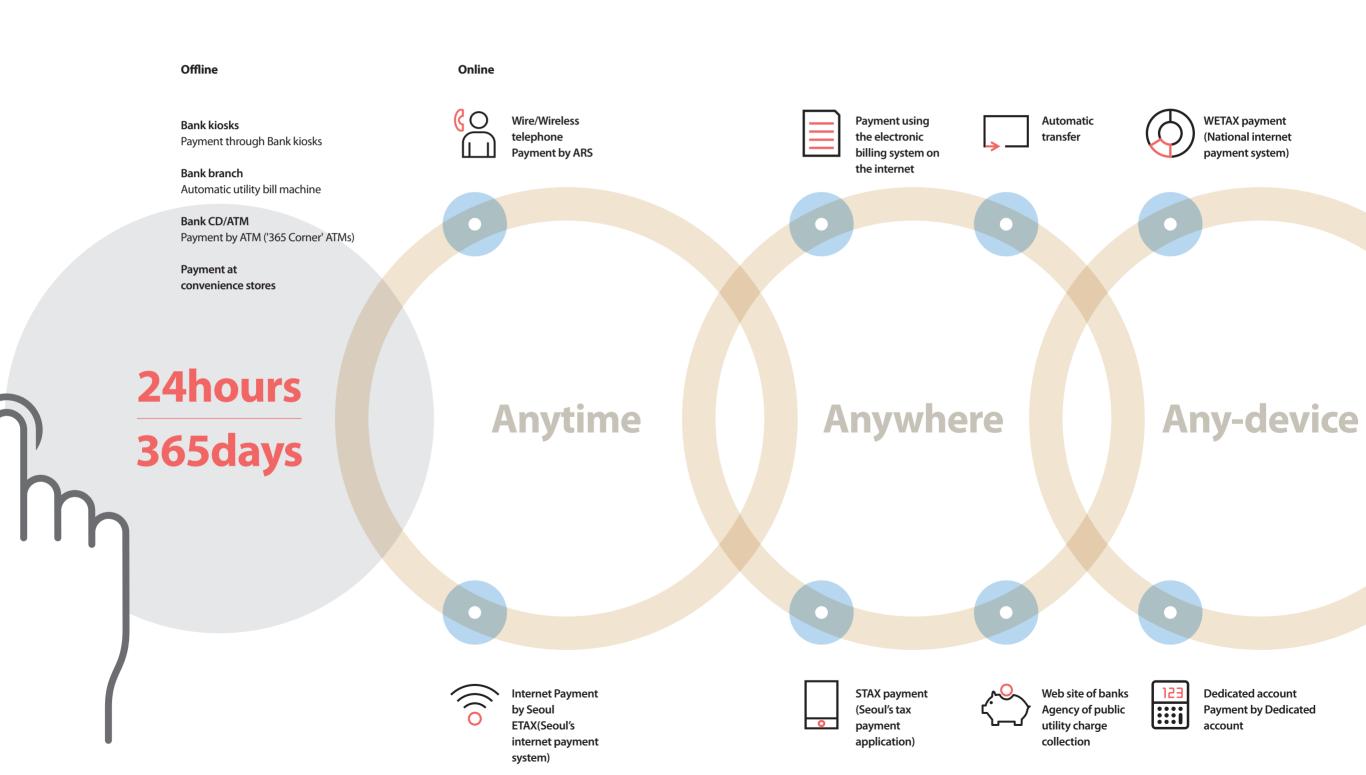


How Do the

Citizens of Seoul Pay Their Taxes?

How Do the Citizens of Seoul Pay Their Taxes?

24 hours 365 days The receipt system is completed.



SEOUL, READY TO SHARE WITH THE WORLD!

Seoul TIS Senul

01 From Manual Entry to Fin-Tech

History of Building the Seoul Tax **Information System**

Until the 1990s, taxpayers filed their tax returns at the kiosks, and Seoul imposed taxes in batches. Realizing the limitations of the manual work which was labor intensive, costly, and administratively inefficient, Seoul devoted a lot of effort to making improvements. As a result, the Tax Information System was built in September 1999, which through constant upgrades has become the advanced and stable system that it is now.



1971~1980

•

Manual Work Data management by

manual entry Data management by punching entries in OMR cards

Dummy Terminal Different types of taxes levied by the data center in batches (property tax, motor vehicle tax, resident tax, license tax)

1981~1999

•



Local tax computerization process



History of Building the Seoul Tax Information System

1971~1981

Emerging stage - Computers were used for imposing local taxes (Property taxes) for the first time.



1992~1999

Driving stage

- PC-based data management by autonomous district
- Imposing/receiving taxes by batch across the entire city of Seoul
- Output OCR bill.



1999~2002

Development stage

- Online data processing
- Integrated management of DB in the whole gu-offices.



2003~

Advancement stage

- System upgrades and
- introduction of user-friendly
- payment policies
- Enabled citizens to pay local
- taxes easily anytime, anywhere

ᇤᇤ

1982~1991

Introduction stage

- Nationwide joint taxation was computerized to process city/provincial tax data and to impose/ collect composite land tax.

1970s	1980s		1990s	2000s

Seoul TIS Seoul Tax Information

General

Levy

Receipts / Refund of ocal taxes 02 Intelligent integrated system on a smart evolution path

Structure and Functions of the Seoul Tax Information System

ן נדארויין נדר וו אונארויין נדר וו

The Seoul Tax Information System has greatly benefited from the development of information and communication technology. The system that was first introduced in 1999 was able to grow more efficient and stable thanks to the prior work done in the 1980s and 1990s to computerize tax imposition data.

The main menu of the present tax information system is classified into general management, imposing management, receipt and refund management, and arrears management.

Each menu is composed to allow intuitive and efficient management to system managers and revenue officers.



General management

The Seoul Tax Information System was built The Seoul Tax Information System was built to enable processing of local tax levy, collection, arrears, demand letters, foreclosure, overpayment or erroneous payment, and certificates by connecting to over 40 other systems real-time. You can check the entire taxation history of taxpayers in the general management menu. You can provide citizen service quickly because you can see at a glance all the details related to taxpayers, including receipts, arrears, delivery of bills, etc. on a single screen.

02

Structure and Functions of the Seoul Tax Information System

> General anageme

Levy

Receipts /

Refund of local taxes

Arrears

nanagemen

on.



bookmark functions for

users' convenience.



03

Summary view of taxpayers' information allows convenient consultation via a single screen when responding to civil inquiries.

04

By clicking on different tabs you are able to check taxpayers' payment, arrears, and history of bill delivery, allowing more detailed response to civil inquiries.

By using the 'SMS send' menu, you may send the account number and summary information to the taxpayers' smartphone to help make the payment simple and easy.



Levy management

Levy management allows for

Levy management allows for elaborate management of all 11 tax items levied by Seoul including acquisition tax and property tax. It is also convenient for the users because work is improved in line with the improvement in the local tax laws and institutions. The taxation output from levy management may be received in various forms such as paper bills, automatic transfers, STAX (mobile app), e-mail, and mobile financial applications.

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[설문시]가표준(D)

· 프 즈 애/ E-B

가표준액합(A+F)

부동산구분 4 토지

주택세율 00 해당없음

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본세

50,749,800 1,691,660

6,766,640

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신고가산 납부가산 함 계

동일작업 세액계산서 축

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□ 외국 납세자구분 22 주식회 💌

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도 토지거래하가구역

행정동 580 교남동

0 채무승계액

미부과사유

농특구분 1 취득분의10%

▼ 부정신고적용과표(4

신고기한 2017-12-18 - 납기

- [신고불성실]

서 서울 산출세액 감면세액

67,666,400 1,691,660

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Structure and Functions of the Seoul Tax Information System

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General nanagemer



Receipts / Refund of local taxes

Arrears nanagemen 01 This is the property tax management screen

screen.

that allows systematic management and imposition of property tax on all buildings, houses and lands in Seoul from a single

02

Taxable real estate is systematically managed with the location information obtained by using GIS and documentation of relevant information gathered during field investigation by public officer in charge.

03

서웅시세무

통합취득세 기타물건(신

공동주택및오피스텔 일종 기타물건(회{

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신고및수납사

신고분납기일7 신고분전체과서

신고분과세구분 신고분과세구분

신고분수납내역 신고분과세종류 부동산집계표

주택거래현황 전소유자 주민망거

세액변동관리

0수시분관리 0등기자료관리 0세무조사분

◎취득내역 ◎비과세감면관리 01가구1주택관리 0전국주택과세자료조

◎주택유상거래통계 ◎과세자료 점검

통합취득세 부동산(신고분)

주 소 **1997 (2) 위원 199 (2) 199 (2)** 나구 지변주소 **199 (2) 199 (2)**

실거래인정 0 없음 💽 보상금수령액(권리가액)

주택과표 세율

시구법경동리 본번 부번 동 호 실 물건지번 대 대 대 대 대 (1000 00000 00

1.691.660.000 조사감정가

부메뉴 세액산출표 세액계산 비교간의

취득일자 2017-10-19 - - 취득일미도래

·세감면 0 가산세감면 없음

비과/감면율

It includes acquisition information on real estate that has been newly built or transferred. Ownerships of real estate are verified through acquisition reports.

04

Users' convenience is maximized as they can register property easily and quickly based on the basic information on real estate already recorded without having to do additional work.



Receipts / Refund of local taxes

Seoul makes sure that Seoul makes sure that all the receipt data from taxpayers is collected in Woori Bank's computer receipt center, the city vault. This is sent to and processed by the Tax Information System every day. The data that was changed after payment is verified and processed by the person in charge at the autonomous district level. Notices are sent out in a batch regarding refunds due to correction of national tax, redundant payment by the taxpayer, etc. Taxpayers may resort to various means to claim the refund.

02

Structure and Functions of the Seoul Tax Information System

·····································	지역 광역 38세우 · 광지사형 · 영련화면 ▼ 당당자연락처 ▼ 상시오!	-
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개별수납처리	납부일자 2017-10-16 ▼ ~ 2017-10-24 ▼ 오류구분 ☞ 선택하세요	<u>Ht/조희</u>
실시간수납내역조회		정동 과세번호 수납순빈 납세자번호 ^
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General managemer

Levy management

01

The present status of

taxpayer payments can

be checked immediately and in real time. Bulk

receipts are automatically

processed.

Receipts / Refund of local taxes

Arrears management



02

If a taxpayer paid too much local taxes or paid by error, s/he is refunded, and most of the refunds are made immediately.

03

Other arrears of taxpayers can be checked before refund, and the refund progress can be checked in order. Payment of the refund is postponed if there are arrears in other agencies including customs duty and national taxes.



Arrears management

In arrears management, In arrears management, the benefits outweigh the cost, and management of all delinquent taxpayers regardless of the amount in arrears is important. Arrears management of the Seoul Tax Information System sends demand letters to the late payers, and it notifies the delinquent payers of the details of the debt collection procedure (warning, foreclosure, delivery of documents, etc.) and encourages compliance if they fail to pay during the extension period.

Structure and Functions of the Seoul Tax Information System

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01) 압	#산의 사용사용 · · · · · · · · · · · · · · · · ·	지역>체납관리>압류>압류관리>압류관리(설정/해제) 😢][로그아웃 같리 ♀ 현계관리
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		*부 서 1005 (38세금징수과 년도/순번 2017) 004180	해제처리 문서변호	_
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General managemer



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Receipts / Refund of local taxes



- To ensure fairness vis-à-vis compliant taxpayers, delinquent taxpayers are subject to measures such as foreclosure of property and deposit, etc. to induce debt payment.

- Foreclosed property is sold through auctions, and the proceeds are used to cover the debt owed.
- Administrative restrictions on habitual delinquent taxpayers such as disclosing their names are used to facilitate tax compliance. Such measures have a psychological effect on the taxpayers to reduce late payments and positively reinforce culture of compliance.



02

Overall status of the taxpayer may be viewed to check the amount in arrears and to record memos of the consultation to provide better response to civil inquiries.

03

Status of reductions and foreclosure can be easily viewed through a single screen by providing checkboxes for the arrears progress such as payment of monthly surcharges, etc.

Arrears Collection Strategy

Seoul's technique to collect taxes in arrears of local taxes is largely classified into the 5 categories of seizure of property, seizure and collection of financial bonds, Request for share distribution, provisional holding and occupation of license plates of cars whose vehicle taxes are overdue, and administrative restriction of delinquent taxpayers.

Seizure of property Real estate and cars	It's the first stage in the execution of the delinquency disposition procedure. This administrative disposition tries to secure property of delinquent taxpayers to collect amounts in arrears of local governments by making them unable to dispose their material possessions or rights actually or legally.	Investigation of delinquent taxpayers' real estate	• Checking of certified copies of the register	• Registration of seizure	Internal approval	• Seizure and commission	
Seizure and collection of financial bonds credit card sales bonds, wages, deposits	Seizure and collection of financial bonds means a series of processes that cover delinquent taxpayers' amounts in arrears by checking, seizing, and collecting their financial assets, Including deposits, insurance, and stocks, and credit card receivables according to relevant ordinances.	• Request for providing taxes	• Reply to financial transaction information	• Seizure and collection of bonds	 Cover tax revenues and cancellation of seizure 		
Request for share distribution	If other agencies' procedure for compulsory conversion into money of assets of delinquent taxpayers begins, this forcible collection procedure avoids overlapped seizure of identical property and asks the execution agencies for the dividends to accomplish the purpose of collecting tax claims among the conversion payment of applicable property.	Receive notice for public auction	• Registration of cases	Analyze details of arrears and legal deadlines	• Fill out share distribution request form	• Approval and delivery	Termination of allocated cases
Provisional holding and occupation of license plates of the cars whose vehicle taxes are overdue	This makes delinquent taxpayers pay motor vehicle tax in arrears by holding the license plates of the cars whose vehicle taxes are overdue, the most efficient and direct regulation method, and limiting operation of motor vehicles. * The most effective method for collecting motor vehicle tax is holding license plates of the cars. Autonomous districts in Seoul are usually responsible for provisional holding of the car plates.	• Holding license plate numbers of cars	• Payment • Unpaid	Return licence plate numbers of cars Order of delivery Towaway and publ	• Cover the collected amounts ic auction	Process tax revenues	
Administrative restriction of delinquent taxpayers	This measure induces tax compliance from the habitual delinquent taxpayers of large amounts by disclosing their names, prohibiting them from leaving the country, providing arrears information to the credit bureaus, and prohibiting them from getting a business license issued by administrative agencies.	• Extract delinquent taxpayers More than one year More than KRW 30,000,000 Delinquent taxpayers	• Determine delinquent taxpayers	• Notice to delinquent taxpayers	• Provide opportunities to give prima facie evidence of reasons	• Determine the persons whose names are to be released	• Make public the names of delinquent taxpayers Make public the names in the city journal and web site of the city (December)

System

TIS Secul Tax

System

Seoul

03 Build economically and manage effectively

Features of the Seoul Tax Information System

Although the Seoul Tax Information System was designed as a large-scale system handling the tax administration of a megacity home to a 10 million population, its establishment, operation and maintenance is aimed at low cost and high efficiency. This enables provision of smooth and highly professional tax administration services as well as prompt and exact maintenance.



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Cost aspects

D3 Features of the Seoul Tax Information System	Low costs for building and maintaining the system	• The Seoul Tax Information System maximizes reutilization and reuse of business components and improves development productivity by applying the framework specialized in the business of local taxes.	• Under the operation protocol, an internal team is set up responsible for the system maintenance so as to prevent unnecessary maintenance.	Higher conver users	nience of	• The system is set up in a way that it is improved in line with the legal and institutional improvement, providing convenient services to the users.	• Online workload and batch workload have been separated to minimize the system response time of the personnel responsible for online work and to allow for batch workload to be handled at all times.
		Expenses for the building of the system 10.2billion	The number of operators 24 people 224			Online speed of response Within 3 seconds	
		0	B			\downarrow	-

It receives information on the current state of the service by using application performance monitoring tools and collecting database processing information on the real time service processing status.

It checks if the service is stably implemented by tracing CPU usage, memory usage, and elapsed time when handling the service so that stable operation can be implemented for 365 days a year. And as the management system of the tax information system is operated, you can take prompt measures by notifying managers of abnormal operation.

The Seoul Tax Information System maximizes development productivity by using the latest development tools and reduces response time by exchanging only the data that was changed and raising the network traffic efficiency via intelligent caching method. Seamless service is provided thanks to the separation of online and batch workloads.

System

the Seoul Tax Information System

Stable and

flexible system environment based on cuttingedge technology

Technical

aspects

Periodic renewal, archiving, and management of large amounts of data allows for easy data processing, and the system is scalable capable of providing stable services.

It secures flexibility by applying the latest technology that connects the system with the Ministry of the Interior and Safety and other agencies. •

Work productivity is improved and the service quality is upgraded through development based on the framework.

The continuous service is

provided for 365 days.

It can handle 4,000,000 cases without network slowdowns.

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The stable and flexible Seoul Tax Information System can be used without slowdowns when working online even when processing big data. The system can smoothly be operated in all the PCs because it is based on state-of-the-art technology. Above all, the flexible system is advantageous for responding to environmental changes. In particular, it can flexibly cope with the development of programs according to changes in the local tax laws. In addition, it increases reutilization of the service by supporting SOA(Service Oriented Architecture).

Standardization aspects

Information protection

Managerial aspects

Excellent

integration improves efficiency of tax business.

It shares information on sources of taxation with more than 40 external agencies by securing interoperability of information systems.

aspects

It builds the organic cooperation system with cities, counties, and districts all over the country and maximizes business efficiency by standardization of data and processes.

Standardization of the codes for data compatibility.

Compatible with 226 cities, counties, and districts all over the country.

Code 226

8

€

Blocks information spill in to the database (Access

It's a safe system advance by controlling access environment because personal information in the database is encrypted.

The system

Safely protected

personal

information

improves the business efficiency of tax officers.

The system is majorly advanced and it is suitable for use in local tax-related business based on the defined procedures relating to local tax-related business.

control/Rights/Control/SQL

monitoring, Logging).

It has an environment that can receive opinions about general business, including the organization, human resources, and design of business processes, and for prompt decision-making.

04 Anytime, Anywhere, Any Device!

Payment System of the Seoul Tax Information System



Development Process of the Payment System

Batch Process Period

Requirements

A large number of bank branches
 System for issuing bills in large quantity(OCR/QR barcode printing)
 Receipt center where batch processing is possible(Technology to recognize OCR/QR bar codes is required.)

- Can use the cash in banks easily.

- Create jobs related to delivery of bills.

~2000

Advantages

- Can pay taxes in cash. - Infrastructure investment is minimal.

Disadvantages

- Mail delivery cost.

- Need to hire employee at the bank kiosk for receipt of tax payment.
- The distribution centers for collecting and transporting bills are required.
- Skilled human resources for batch processing are required.
- Time consuming to tally total amount of tax revenues (1 to 2 months)

Seoul's payment system has been developed through proper consideration of the convenience of taxpayers.

It has built an environment in which taxpayers can pay taxes anytime and anywhere, 365 days a year by taking note of their various lifestyle trends and reflecting their needs and necessities.

Various receipt windows, including banks and convenience stores, have been opened to citizens who are familiar with the offline service. It has developed and operated various online channels and smartphone applications, including ETAX for the citizens who find the online service to be more convenient.

Online Process Period(Real-time) 2001~2014

Requirements

- Connection of the receipt center and computer systems to banks/credit card companies is required.
- The citizens need to open bank accounts and have cards issued.
- Wire networks need to be built and sufficient electric energy is required.
- Various IT environments are required: ARS, Internet, CD/ATM machines, etc.

Advantages

- Payment in cash is unnecessary.
- Prompt totals of tax revenues are possible.
- Short payment time

Disadvantages

Expenses for building large scale infrastructure are required.

FinTech Period

~2015

Requirements

- The connection of PG companies to the receipt centers and computer systems is required.
- High computing power of the receipt centers is required.
- The citizens have mobile phones (Android, IOS) and join the simple payment service.

- The citizens need to open bank accounts and have cards issued.

Advantages

- Payment in cash is not required, Prompt totals of tax revenues are possible.
- Short payment time, Relatively low costs for
- investment in infrastructure
- (Installation of wire networks is not required)
- High possibility of development of businesses related to fin-tech

Disadvantages

- Commission according to the usage of PG (Payment gateway)

04

Payment

System of

the Seoul Tax Information System

Payment system Online/Offline

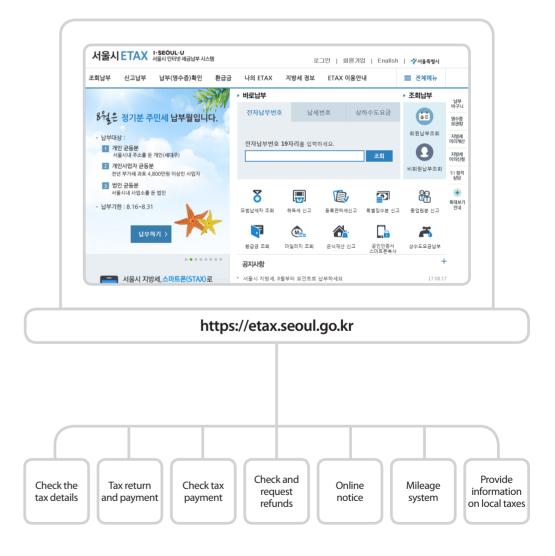
<u>Offline</u>	Content	Recognition-Payment Recipient-Time	Remarks (Features and advantages)	Next forwarding details
	Payment through bank windows	- Payment in cash - During business hours of banks	 Visit banks/Non-face- to-face payment Traditional payment method 	
	Bank branches Automatic utility bill machine	 Account transfer(Transfer to accounts held at the same bank and other banks) During the business hours of banks. 	- Visit banks / Face-to- face payment	- Change to online payment
	Payment in convenience stores	 Account transfer(Woori Bank and Shinhan Bank's cash cards are possible.) Payment by credit cards for 24 hours 	- Possible to pay at Family Mart, GS 25, Seven Eleven, and By The Way convenience stores.	 Expansion of banks Expansion of payment by credit cards
	Payment by ATM ('365 Corner' ATMs)	- Account transfer (Applicable banks), Credit cards	- Payment is possible from 07:00 to 23:30, 365 days a year.	

Online Internet

Content	Recognition-Payment Recipient-Time	Remarks (Features and advantages)	Next forwarding details
Seoul ETAX payment	 Payment by credit cards and account transfer / Filing and payment 24 hours (365 days) 	 Basis of e-tax payment Payment through the electronic billing system, except for Woori Bank Payment of local taxes and nontax revenues in a lump Put in force in June, 2001. 	
Automatic transfer	- Account transfer (All banks) - Automatic payment by credit card	- Automatic payment by credit cards implemented since December 2016.	
Websites of banks Payment of dues and utility charges	 Account transfer of applicable banks 07:00 to 23:30, 365 days a year 	 Familiar media for internet banking users Implemented since July, 2007 	Extension to 24 hours
Payment through the electronic billing system on the internet	- Account transfer, Credit cards - 07:00 to 23:30, 365 days a year	- Implemented since 2004.	Extension to 24 hours
WETAX(National internet payment system)	- Account transfer, Credit cards - 07:00 to 23:30, 365 days a year	 Payment of national local taxes is possible. Operated since the first half of 2009 	

ETAX, Seoul Internet Tax Payment System

ETAX, the representative online payment system of Seoul, can receive more than 500 types of taxes for 25 local governments, including local taxes, motor vehicle taxes, property taxes, water and sewage charges, and parking fines. It is a one-stop, internet-based service. The Seoul ETAX system is managing taxpayer-centered taxation information in an integrated manner. ETAX makes it possible to check a variety of information, including checking of tax details, arrears, and proof of tax payment. The website supports both Korean and English languages.



Wire/Wireless telephones

Content Recognition-Payment		Remarks
Recipient-Time		(Features and advantages)
Payment by ARS	 13 credit cards, account transfer (Woori Bank) 24 hours 	- No certificates, make payments on the move - Implemented since 2006. - Tel. 1599-3900

Dedicated account(s)

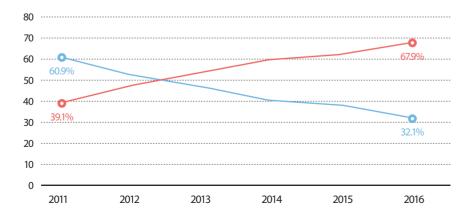
Content	Recognition-Payment Recipient-Time	Remarks (Features and advantages)	
Payment by Dedicated account(s)	 Account transfer (Transfer to identical and other banks is possible.) 24 hours 	 Payment by account transfer through any media The easiest medium regardless of age Dedicated account(s) banks: Woori Bank, Shinhar Bank, KEB Hana Bank, Kookmin Bank, IBK, Post Office bank, City bank, Nonghyup, Suhyup Implemented since December 2008. 	

Smart phone

Content	Recognition-Payment Recipient-Time	Remarks (Features and advantages)	Next forwarding details
Smartphone Application for Tax Payment	 Account transfer (Woori bank) 13 credit cards Simple payment (Kakao, SSG, PAYCO, and App cards) 24 hours 	 Make payments on the move Expansion of the service including applying for notifications and e-notice The simple payment system has been implemented since September, 2015. 	- Continuous upgrade to be compatible with the latest smartphones

Present condition of online and offline payment by year

- **Online** ETAX, WETAX, ARS, web sites of banks, the electronic billing system on the internet, STAX, virtual accounts, etc.
- Offline CD/ATM, banks' utility bill receipt machines, payment through bank windows (Non OCR, etc.), convenience stores, etc.

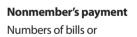


STAX Seoul's Smartphone Application for Tax Payments

STAX is the smartphone app service which allows easy payment of local taxes, non-tax revenues, water and sewage charges through simple payment system, credit cards, or Woori Bank account transfer. You do not have to visit banks or use PCs when using STAX and can easily pay taxes by 10 types of simple payment systems, 13 credit cards, and Woori Bank. You can also use all kinds of services including inquiry of mileage, e-notice of refunds, request for automatic transfer, inquiries of exemplary taxpayers and arrears.







e-payment are required.

Member's payment

Log in without any certificate. It's possible to pay taxes without bills.

Very simple payment

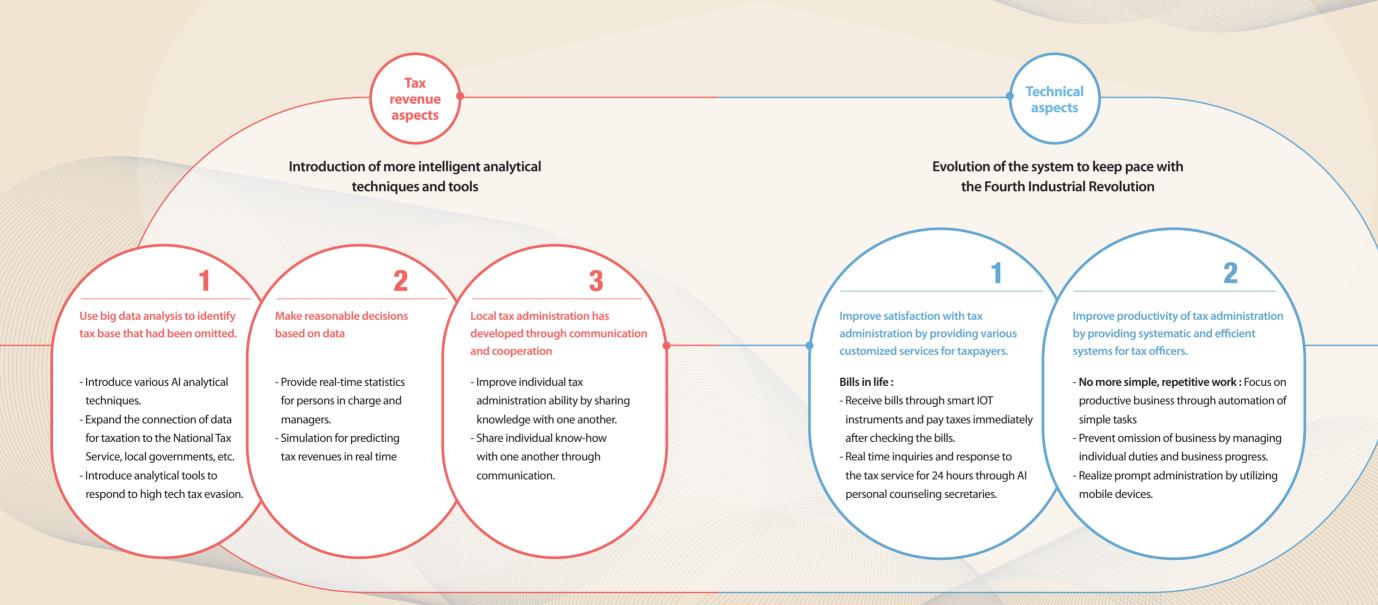
Pay taxes after scanning QR codes of bills within the app.

04

Payment

System of the Seoul Tax Information System

Future of the Seoul Tax Information System



SEOUL, READY TO SHARE

WITH THE WORLD!

