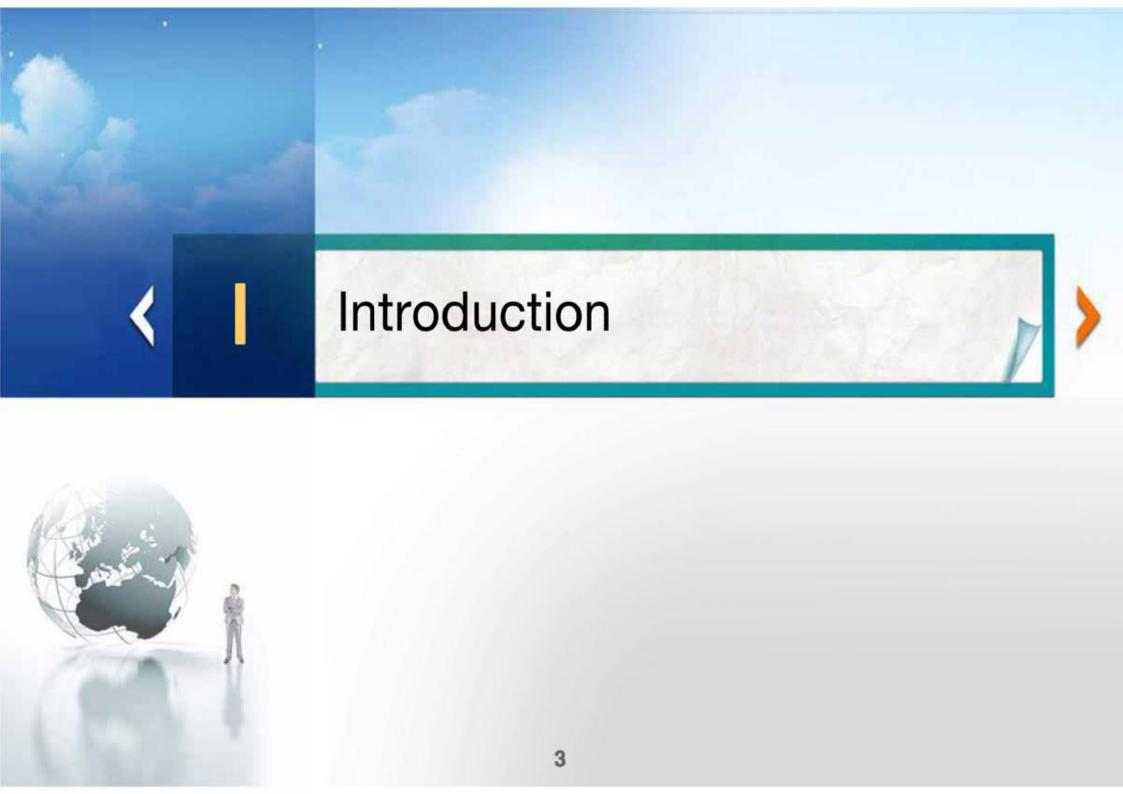




Ministry of Strategy and Finance Republic of Korea





#### I. Introduction

#### Title: Digital Budget & Accounting System

- Abbreviation : DBAS (Digital Budget & Accounting System)
- Slogan : dBrain (Core Staff that helps operate fiscal activities)

## Integrated Fiscal Information System designed to systemically manage whole national fiscal cycle

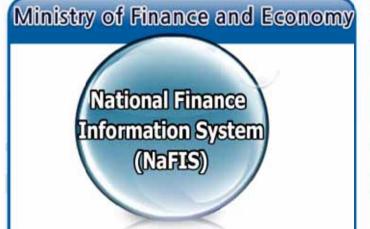
- Deals with all fiscal activities of central government from budget formation, execution, treasury management(revenue/expenditure) to accounting and settlement
- Reflects Program Budget system and accrual-based / double-entry book keeping accounting
- Connects fiscal information among central and local governments, related public agencies.

- 1 Improve inefficiency of fiscal management system focused on controlling inputs
  - Annual budget oriented → Mid-term fiscal plan
  - Divided by each Account and Fund → Consolidated fiscal operation
    - National Fiscal Management Plan(NFMP), Top-down Budgeting
    - Strategic allocation of resources, Sustainable fiscal management
  - Input and Control oriented → Result and Performance oriented
    - Program Budgeting, accrual based accounting, performance management
    - Fully utilizing feedbacks of fiscal data

Fiscal management framework based on performance (Introducing the idea of management and competition to national finance)

- ② Establishing Integrated Fiscal Information System
  - Integration of formerly separated Accounting(Treasury) and Budget system
  - Asset&Inventory Mgmt, Credit&Debt Mgmt systems included in the system
  - Integrated Database with Local Government systems, Bank of Korea, Financial Clearing institute, Tax&Customs system, Procurement system, other Financial systems already established before DBAS









#### I. Introduction



Decision made to establish integrated fiscal information system in the National Agenda Meeting presided by the President

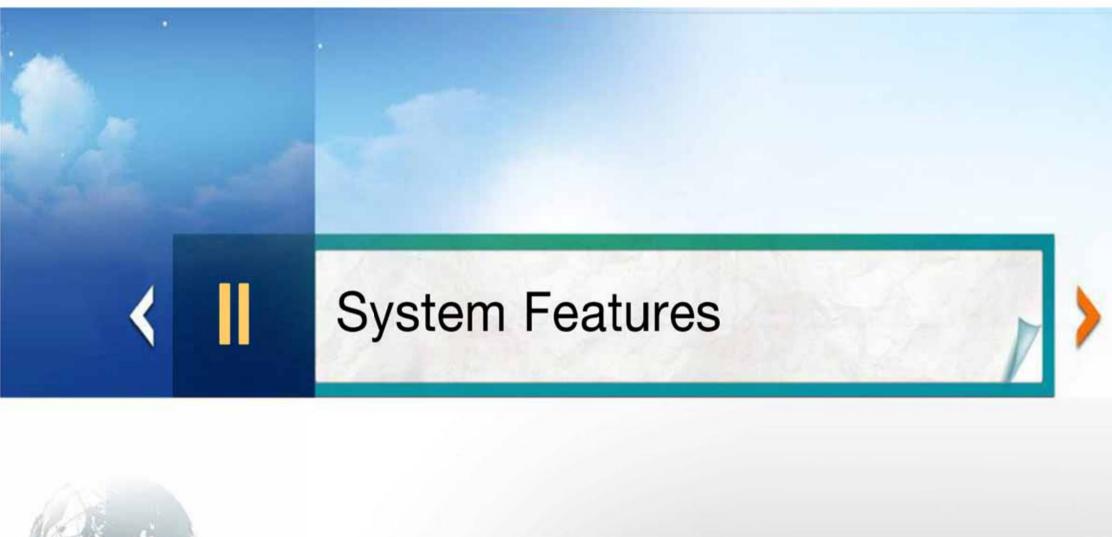
Set up Business Strategic Plan(BSP)

Performed Business Process Re-engineering(BPR)
Established Information Strategic Plan(ISP)

Developed the system & conducted test operation

2007 Jan

Launched the system

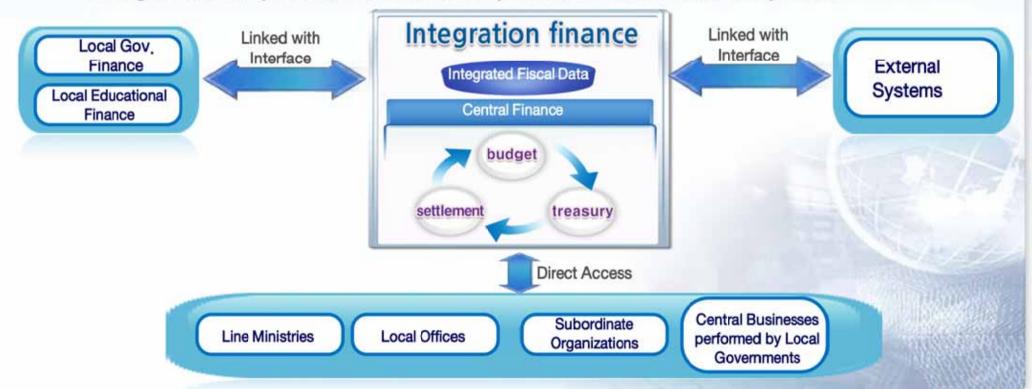




### II. System Features

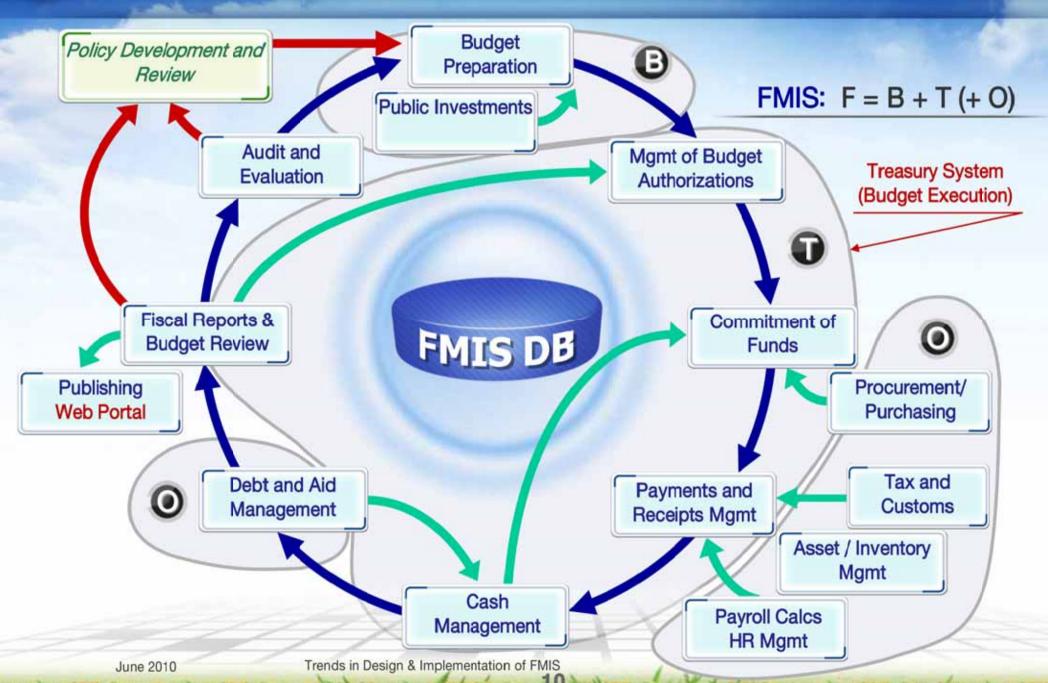
#### 1. Integrated National Fiscal Information System

- Connects whole phases of national(central) fiscal activities
  - From Budget formation, execution, Treasury management, Revenue & Payment, Asset & Inventory Management to Accounting
- Integrated fiscal information
  - Integrates central government (including affiliated agencies and local offices),
     local government systems, local education systems, and other external systems.





### What is FMIS? (World Bank)



### Comparison table of Reference model VS DBAS

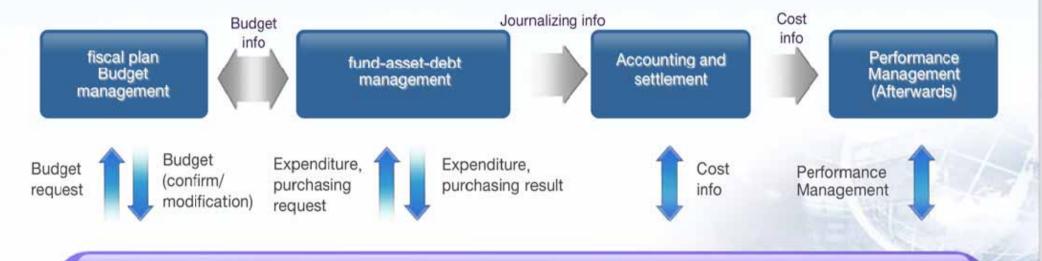
#### Integrated National Fiscal Information System

Classification	Function	DBAS unit systems	
В	Budget Preparation	Budget Mgmt	
	Public Investment	Project Mgmt (Investment plan)	
		Budget Mgmt. (National Fiscal Management Plan)	
Ť	Mgmt of Budget Authorizations	Budget Mgmt.(Allocation)	
	Commitment of Funds	Payment and EFT(Electronic Funds Transfer)	
	Payments and Receipts Management	Revenue and EBPP(Electronic Bill Presentment and Payment) system /Payment Mgmt.	
	Cash Management	Fund Mgmt.	
	Fiscal reports and Budget Review	Accounting/Settlement Mgmt.	
		Project Mgmt., Statistics Analysis Sys.	
O	Procurement &Purchasing	Linking Sys.(with e-Procurement system)	
	Tax & Customs	Linking Sys.(with Tax&Customs system)	
	Asset/ Inventory Management	Asset/ Inventory Mgmt.	
	Payroll Calculation & HR management	Linking Sys.	
	Debt & Aid management	Credit&Debt Mgmt.	
	Audit & Evaluation	Linking Sys.(with e-Audit system)	
	Web Publishing	Home page	

### II. System Features

#### 2. Based on Project management system

- Onnecting every level of fiscal works in real time such as: budget formation and execution, fund-asset-debt management, accounting and settlement, etc.
- Every fiscal activities are connected with Project Management system



Program Management System

### II. System Features

#### 3. Locally Developed Software(LDSW)

- Directly planned and developed the system in accordance with standards for system development methodology
  - by performing BSP, BPR, ISP in order
- Reflected Korea's fiscal environment such as finance systems and business processes

- Can easily respond to changing systems and business processes
- Can swiftly modify and rectify existing functions
- Lower cost for additional development and maintenance
- Convenient user support





### III. Fiscal Operation system of Korea

#### 1. Budget and Accounting system

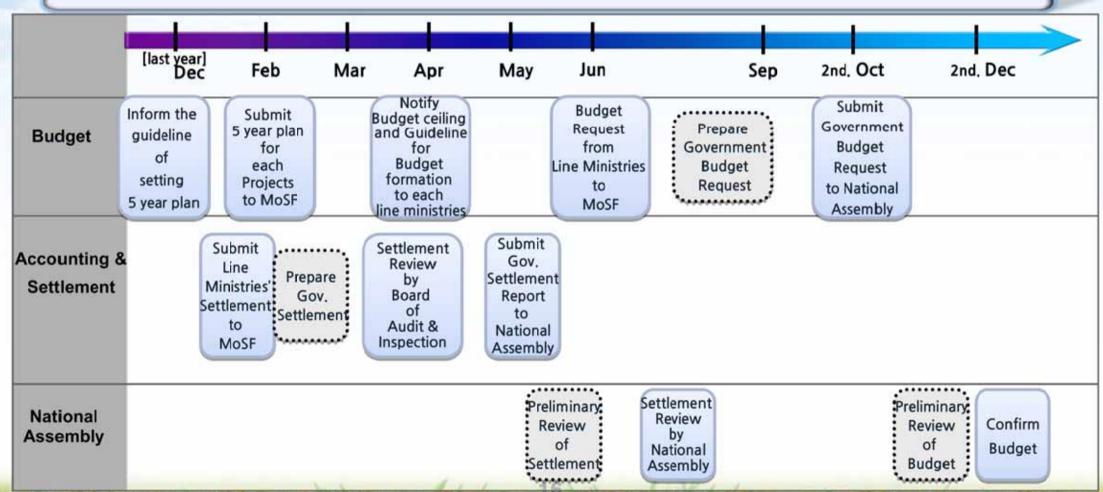
- Fiscal Year: January 1 ~ December 31
- Budget institution
  - National Fiscal Management Plan
  - Program Budgeting
  - Top-down Budgeting system

- Accounting·Settlement institution
- Budget accounting(Cash basis) Budget Settlement
- Financial accounting(Accrual basis) Financial Settlement

### III. Fiscal Operation system of Korea

#### 2. Fiscal Operation Calendar of Korea

Inform the limit of expenditure, guideline of budget formation → Request and Adjustment → Submit budget proposal
to The National Assembly → Budget deliberation and resolution

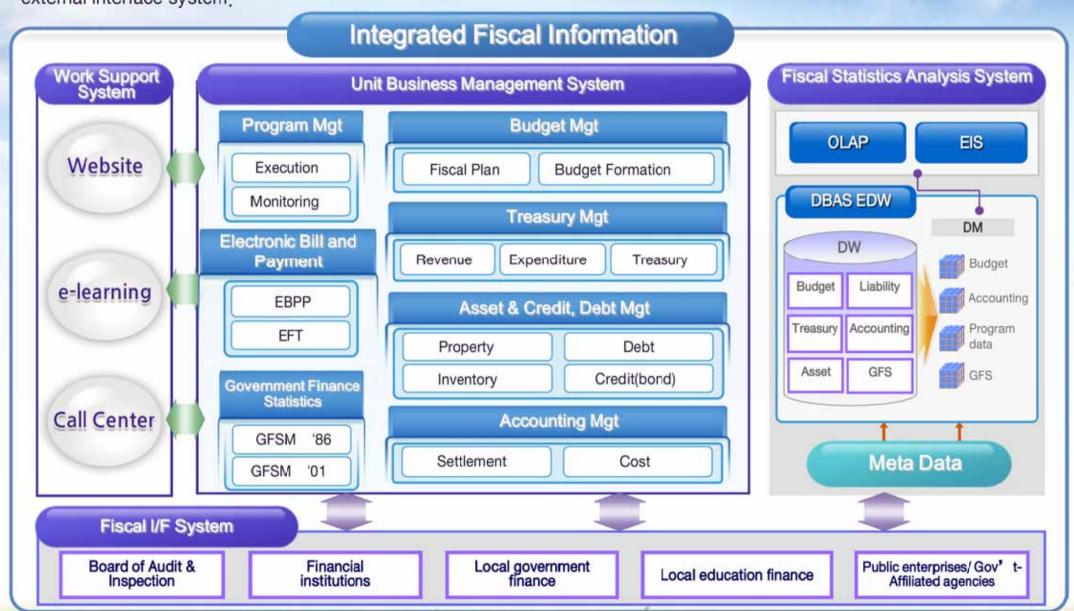






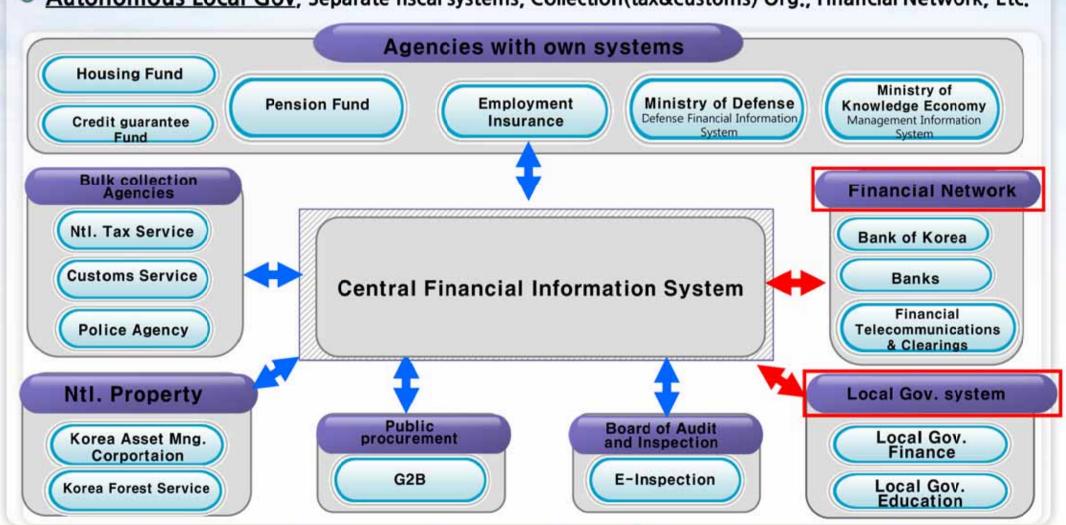
#### 1. Outlay of Composition

Approximately 20 sub-systems (Project Management/ Budget/Accounting/Statistical Analysis, etc) and external interface system.

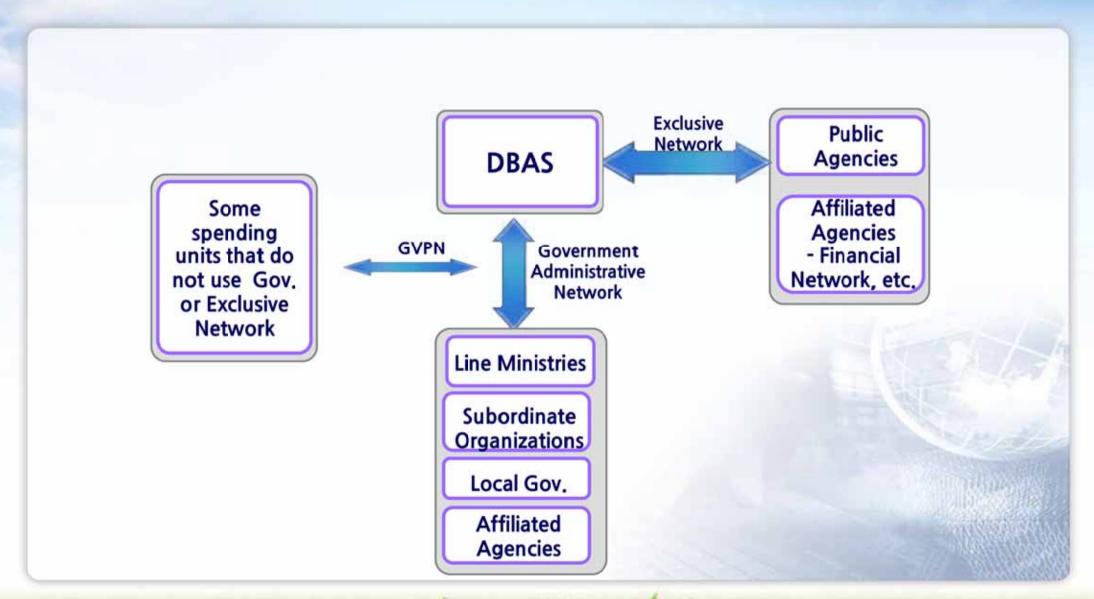


#### (Interface with External systems)

- DBAS connects with related systems to integrate financial informations
- Autonomous Local Gov, Separate fiscal systems, Collection(tax&customs) Org., Financial Network, Etc.



#### <Network>



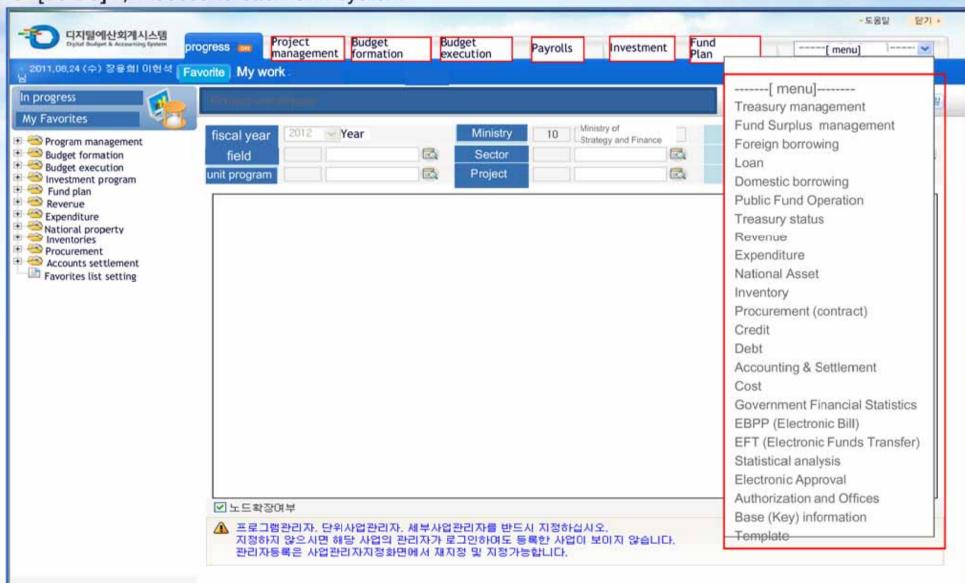
#### (Web- Portal)

Portal through which all the Ministries, Subordinate Organizations and their Local offices access dBrain



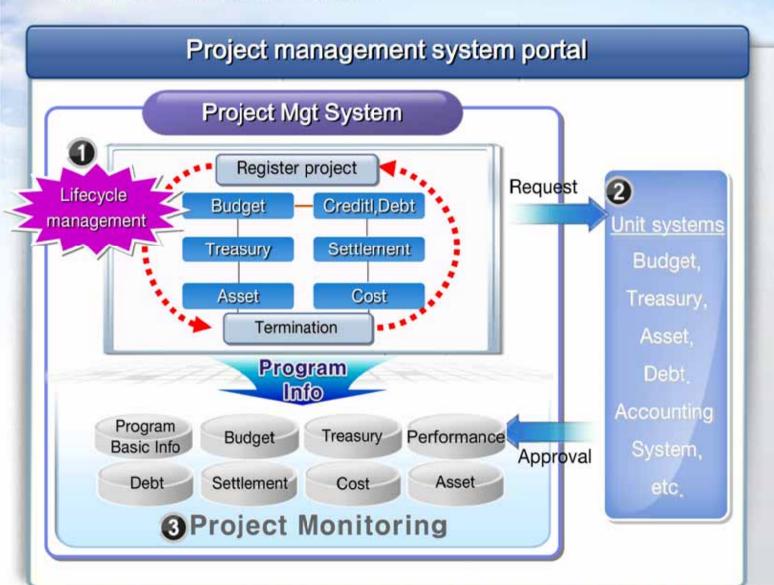
#### (Web- Portal)

[To Do] -> Access to each Unit system



#### 2. Project Management

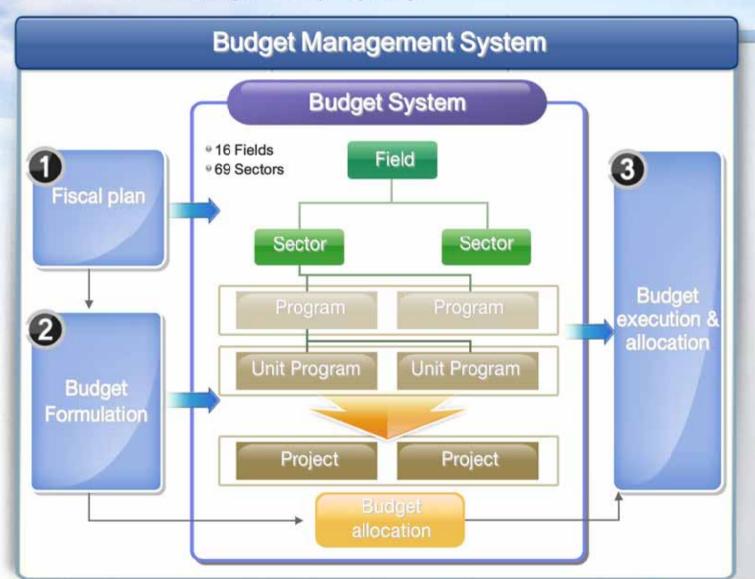
 Manage Life-Cycle of fiscal project from register, formation, allocation, expenditure, management of its assets and debts, to termination of the project



- Management of registration, operation and termination of Projects
- Manage Projects
  - -Investment Plan
  - -Budget Formation and Execution
  - -Asset management
  - -Accounting and Settlement
- Monitoring Program Information

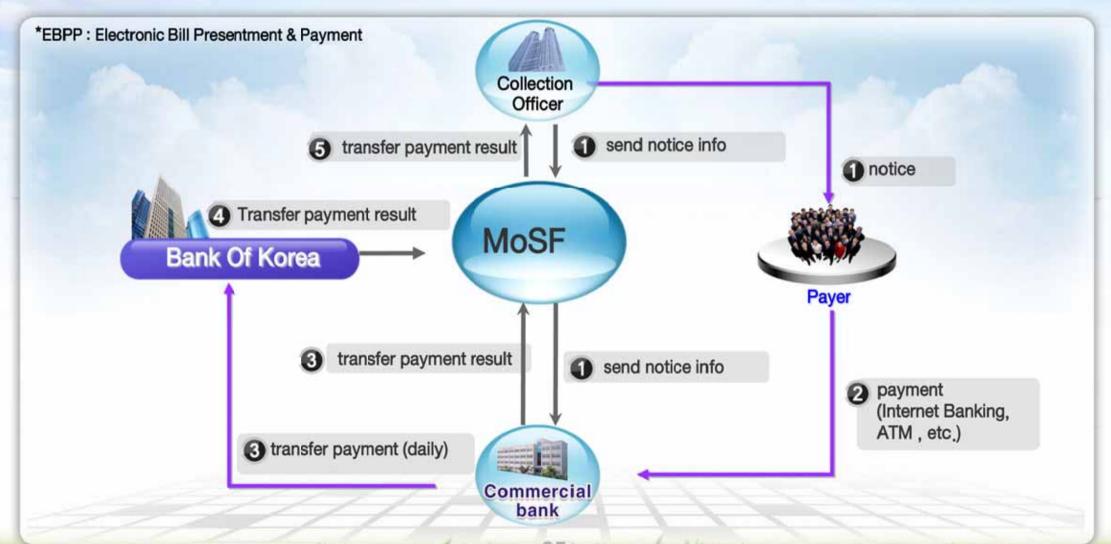
#### 3. Budget Management System

- Establishing mid-term fiscal plan by budget management system
- Formulation and management of yearly budget

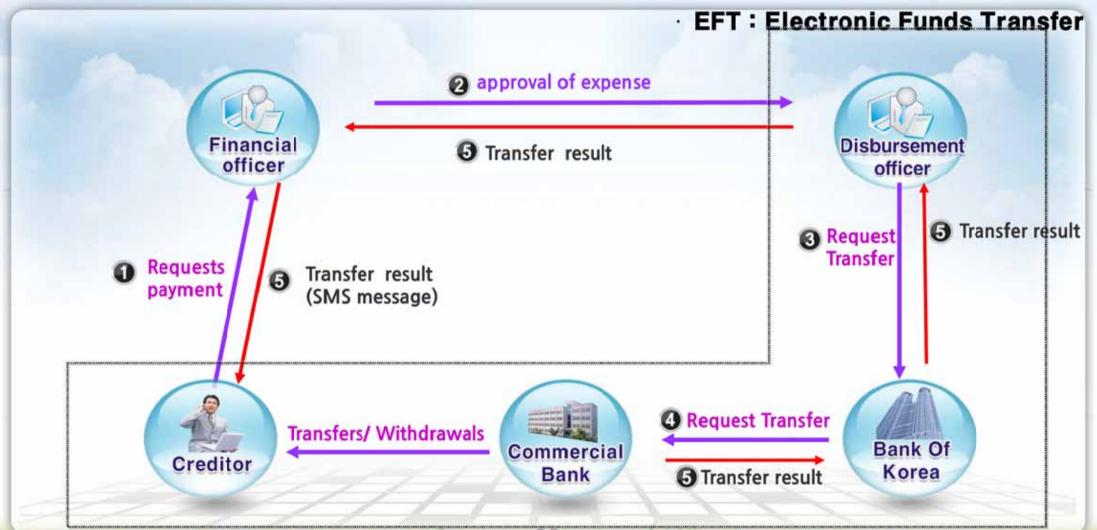


- Establishing mid-term fiscal plan
  - National Fiscal
     Management Plan
- Yearly Budget Formation
  - Gov. Budget Request
- Budget allocation, execution
  - -Periodic allocation : quaterly
  - -Occasional allocation

- Collecting agency notifies payer, and transfers summary information of notice to dBrain system.
- Payer pays tax by Internet Banking or visiting banks, etc.
- Commercial bank checks and receives noticed payment, and sends results to dBrain through EBPP system



- Creditor requests payment for service or goods by internet
- Government internally approves the expense, and demands the Bank of Korea to transfer funds to creditor's account
- Bank of Korea sends the fund-transfer result to dBrain in real-time



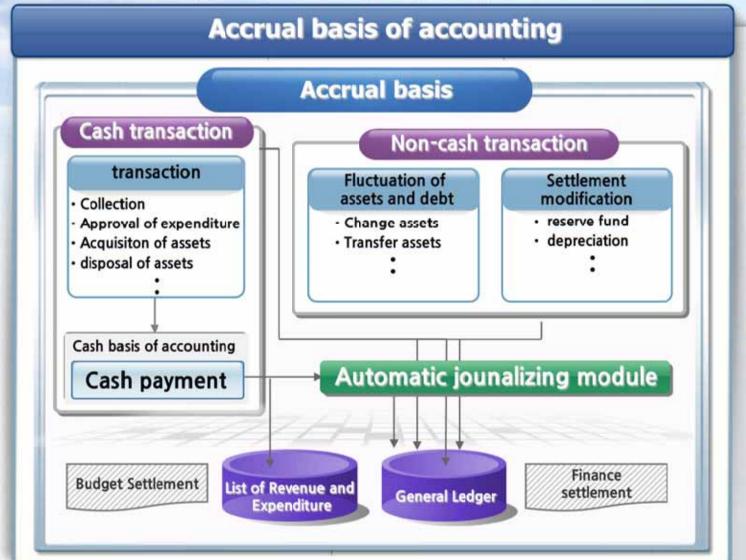
#### 6. Asset Management

- Function: Comprehensive asset plan, asset management, operation, registry management
- Linked with other sub systems or external systems: Revenue / Expenditure, G2B, Onbid system



#### 7.Accounting/settlement

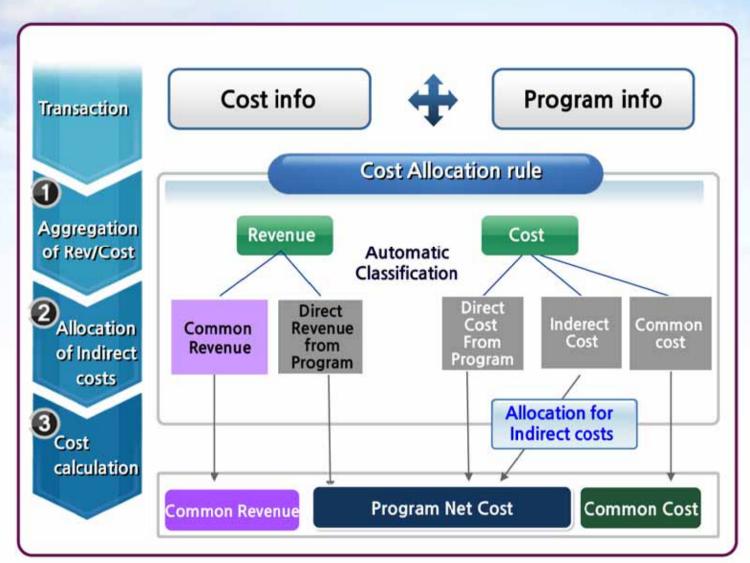
- Automatic journalizing and management of overall section report
- Two-track Settlement: Budget settlement and Finance settlement
- Same Accounting software used by all spending units



- **Mathematic Journalizing**
- Record on Accounting
  Books in real-time
  - Revenue/Expenditure book
  - Journal
  - General Ledger
  - Subsidiary Ledger by Info, Items
  - Trial and Balance
- Two-track settlement
  - Budget Settlement
    - Program Settlement
    - Attached specifications
  - Financial Settlement
    - Statement of Fiscal Operation
    - Statement of Fiscal Status
    - Notes
    - Required Supplementary Info.
  - Attached specifications

#### 7. Accounting/ settlement

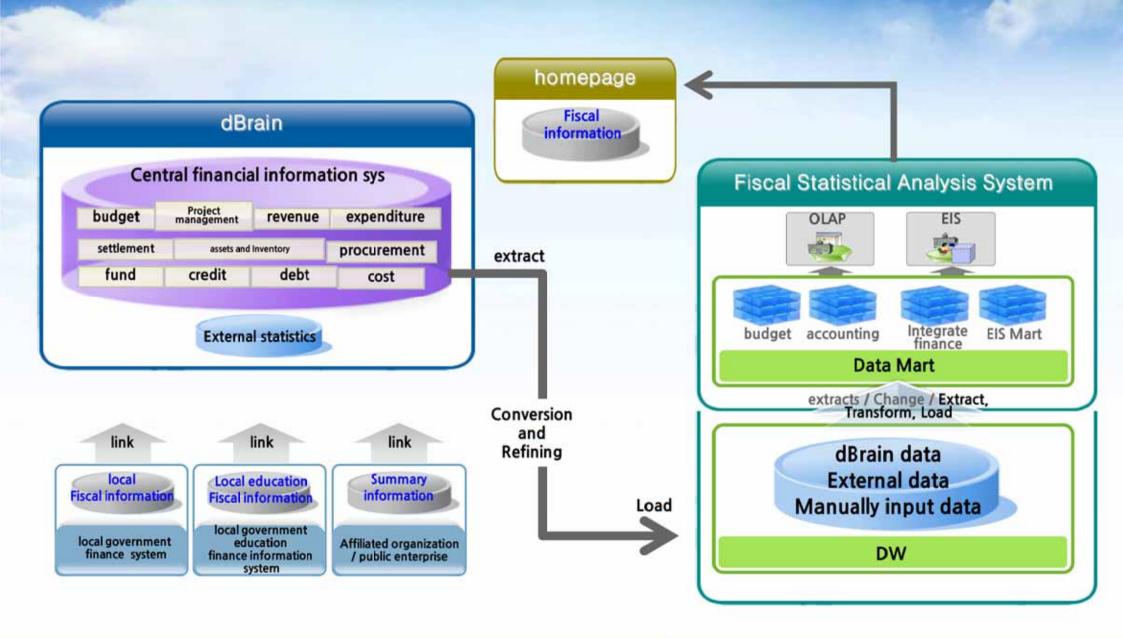
Automatic classification and allocation of costs



Classify transactions cost informations in real time

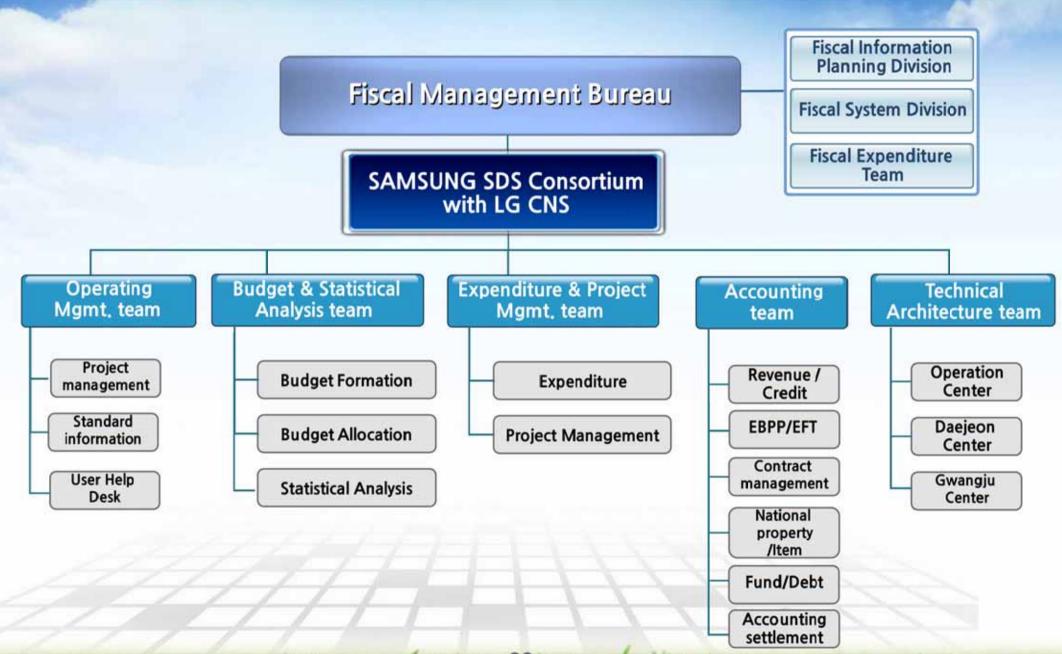
- Allocating indirect costs according to rules direct cost, personnell expenses, area, etc.
- Support various types of reports
   by projects

#### 8. Statistical Analysis









### V. Operation and Maintenance

#### User organizations and Users

Organization	User	Authorized Role	Function
Line Ministries (including Subordinate Organizations)	Officers in charge of Fiscal operations : Budget, Treasury, Accounting , etc.	CFO, Project Manager, Collection officer, Financial officer, Disbursement officer, Accounting officer, Asset Manager,etc.	Budget, Revenue · Payment, Cash · Asset · Debt, Accounting · Settlement
Public Agencies	Personnel Entrusted with Central Gov. business	Collection officer, Financial officer, Disbursement officer, Asset Manager	Revenue · Payment, Asset
Local Govs.	Officers Entrusted with Central Gov. business	Collection officer, Financial officer, Disbursement officer, Asset Manager	Revenue · Payment, Asset

### V. Operation and Maintenance

Number of users: 58,302

- budget: 11,345

project management: 49,233

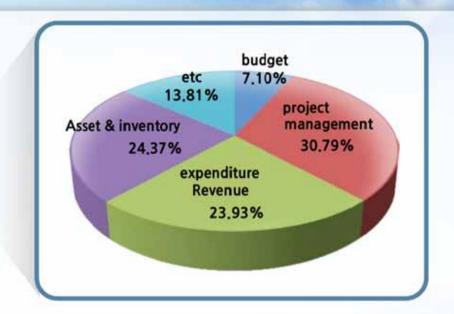
revenue, expenditure: 38,257

asset, inventory: 38,966



- 300,000 transactions by 14,000 users per day
- payment about 4.6 trillion won(4.3 billion dollar) on a daily basis
- Support for users(2010)
  - user support center: 257 calls/day
  - Q&A: 101 answers/day

※ level of user satisfaction : 52.6 point(2008) → 55.9 (2009) → 62.4 (2010)



### V. Operation and Maintenance

#### Main Fiscal Information from centralized database

Class	Cycle		
Revenue Status	Daily, Monthly, Yearly		
Expenditure Status	Daily, Monthly, Yearly		
National Asset Status	Daily, Monthly, Yearly		
National Credit Status	Daily, Monthly, Yearly		
Debt Status	Daily, Monthly, Yearly		
Integrated Fiscal Balance Report	Monthly, Yearly		
Gov Settlement	Yearly		





#### VI. Future Plan

- Develop performance management system(2011)
- Improve analysis system and forecasting(2011~)
  - Data Mining, Simulation, etc.
- Improve cost management system
  - ABC(Activity Based Cost) management



# Thank you.