

**REPUBLIC OF TURKEY
MINISTRY OF FINANCE**

**GENERAL DIRECTORATE OF PUBLIC
ACCOUNTS**

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Agenda

(19 slide - 25, 30 Min.)

- **Ministry of Finance (1)**
- **Duties of the Directorate of Public Accounts (1)**
- **Technological Structure**
 - History (2)
 - Topology (4)
 - System Resources and Cost (3)
- **Application Software Resources**
 - Users (2)
 - Modules (Highlight) (3)
- **Future Plans**
 - Target (1)
 - System Goals (2)



MINISTRY OF
FINANCE





Mission

Highlights;

- General government institutions;
 - To improve accounting standarts,
 - to perform certification training in the pulic administration.
 - To compile and publish financial statistics;
- General budget administrations;
 - To establish accounting offices,
 - Open and close teller offices,
 - To calculate and pay salaries
- To determine the financial procesess, to carry on accounting services of revolving funds that is connected to general and special budget public administrations..
- To report and publish the final results of central administrative budget application.
 - To prepare draft of final accounting legislation.
- To calculate and pay the shares which will be transfered to local administratives and other institutions.



System History- I

1952
1984

The first IT operations are started in our General Directorate with mechanical accounting machines, and continued to renew as the technology changes (3 TABULATORS And 5 SORTERS, UNIVAC 1004 , PERTEC 3240, HONEYWELL DSP 6, PERTEC XL40, etc).

1985
1998

SAYOTO has been begun and For 14 years 108 payroll departments were automated with using local systems (PERTEC 3266, HONEYWELL DSP 6/PLUS, DATA GENERAL 4100, DIGITAL 2100/200, AViON 3600, ORACLE 6 DBMS) .

1999
2001

- say2000i -Web based Automation Project for payroll departments has begun (Intranet).
- Softwares were finished, first pilot application is put in production, chosen 88 coordinators and 360 trainer.
- Second pilot units have been put into use. A training center has been prepared, 1300 accountant manager has been trained.
- began to distribute th application. Hardwares were installed (~10000 users - 1.457 AO)
- Data Center were installed , Call center was set up, mobile (satalite) systems were set up.
- By the end of the year the system (application) was started to used.

2002
2006

End user and host systems capacities were upgraded and renewed.

Softwares were updated under the legislation of the day. Special Budget Institutions included (~250 offices).

2007

.....

- softwares that collects informations over internet were developed. government employeess salaries were began to calculate by the system.
- **say2000i rename to “ KBS – Public Expenditure and Accaounting Information System”.**



System History - II



2000 - “Most Successful Team of the Year” prize.



2002- In the competition “**The e-transformation leaders**” the Say2000i System was awarded by the magazines Capital and Siemens Business Services With the 1st Prize in the public administration category



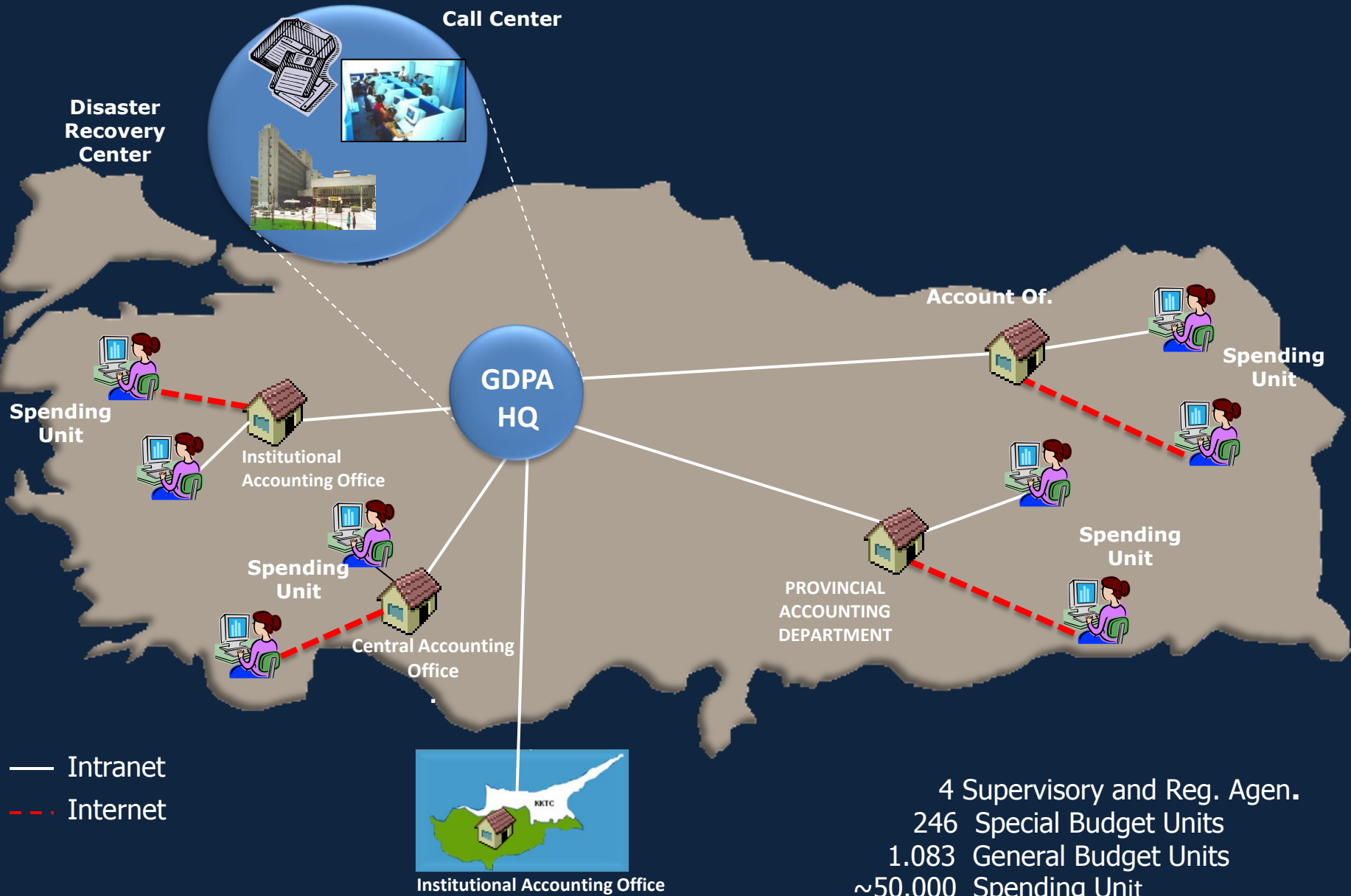
2006- The Project of “Transfer of Appropriations in Digital Platform” won second prize in “Effective Use of Resources and Cost Reduction Project” competition by the Prime Ministry



2009- Winner of 7th e-TR 2009 – Public to Business category “**GÜMKART Customs Collection System** “ and Public to Public Category “**Electronic Payment System** ” in the first three.



Technological Architecture - I



— Intranet
- - - Internet

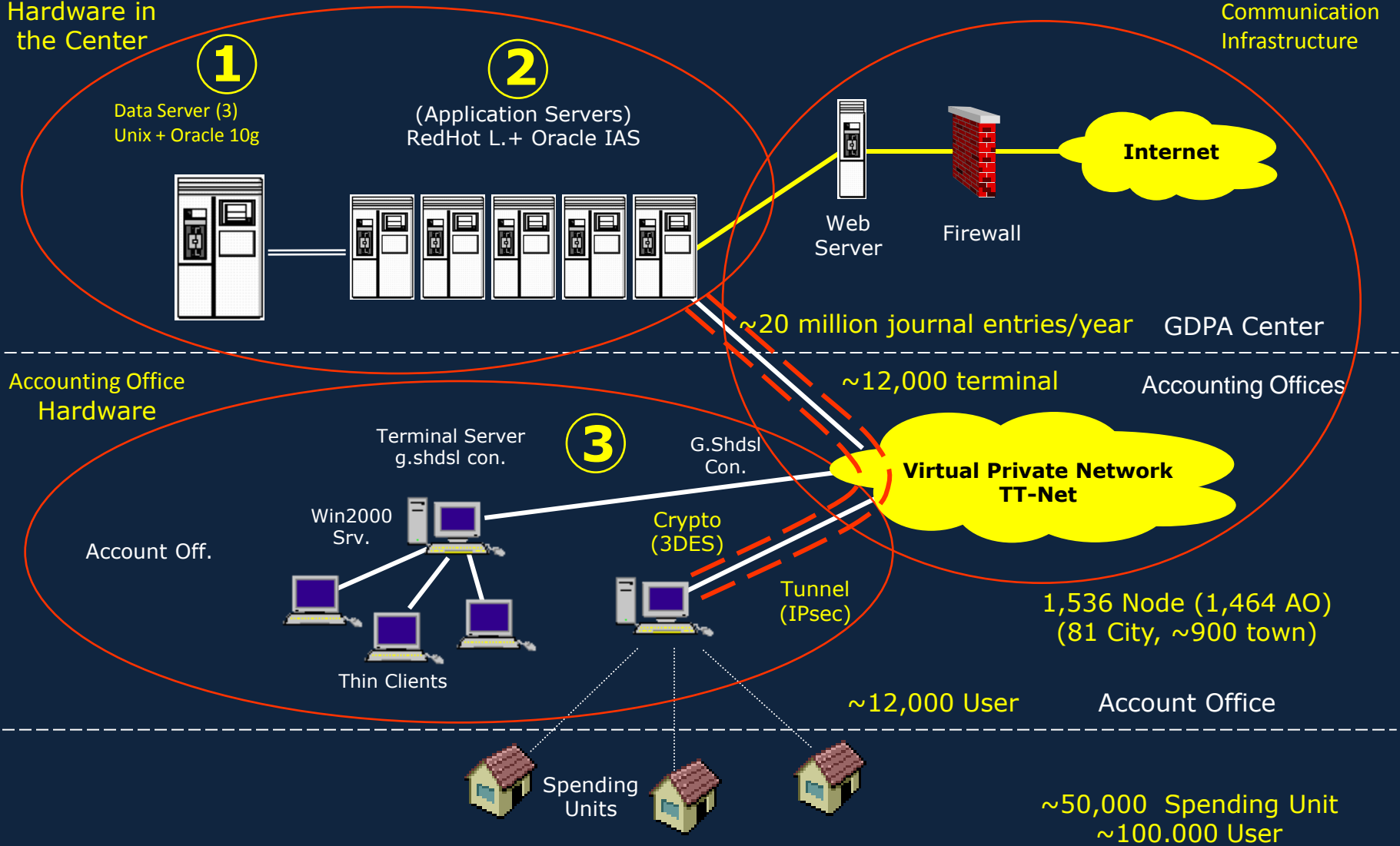
4 Supervisory and Reg. Agen.
246 Special Budget Units
1.083 General Budget Units
~50.000 Spending Unit



Technological Architecture - II

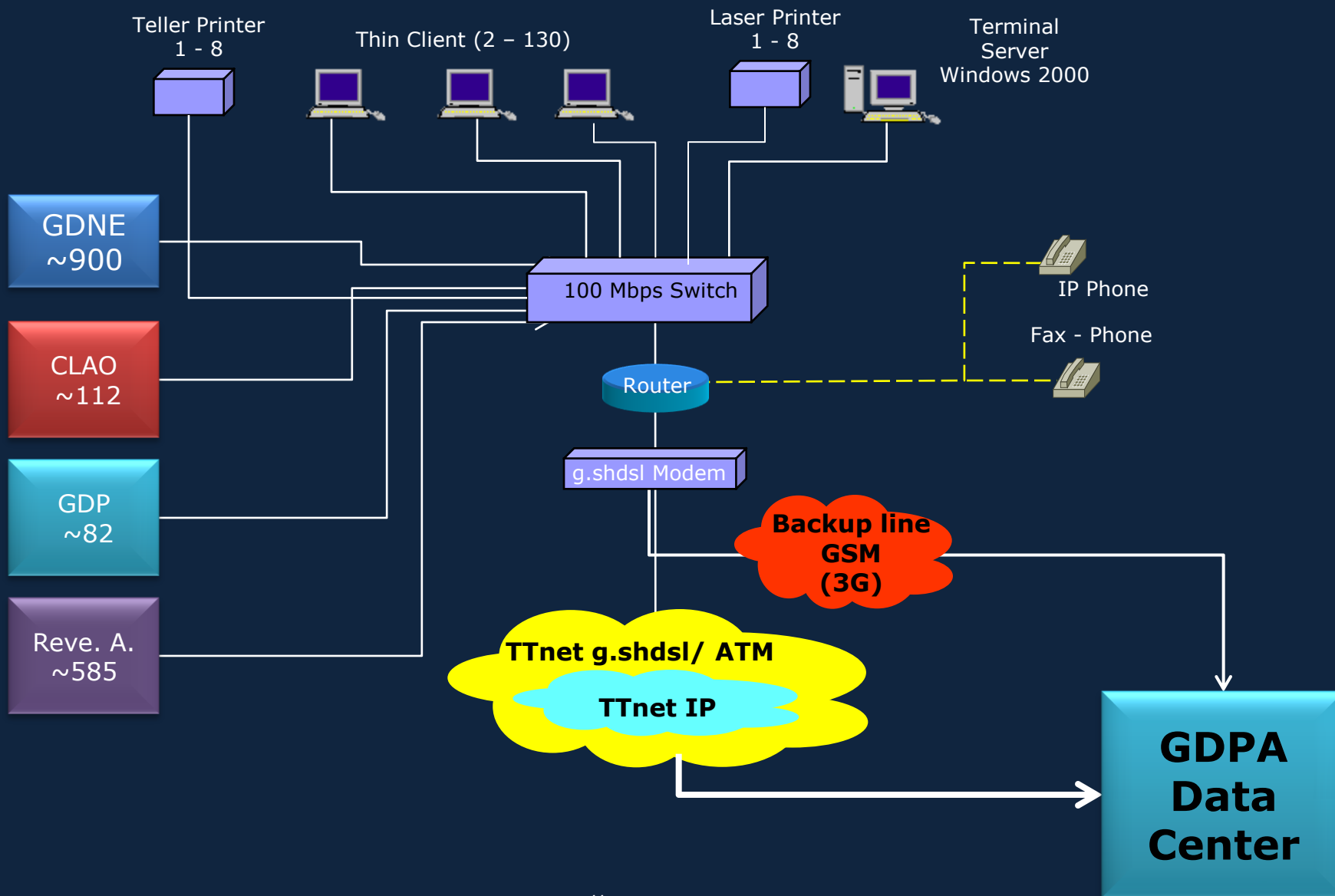
Hardware in the Center

Communication Infrastructure



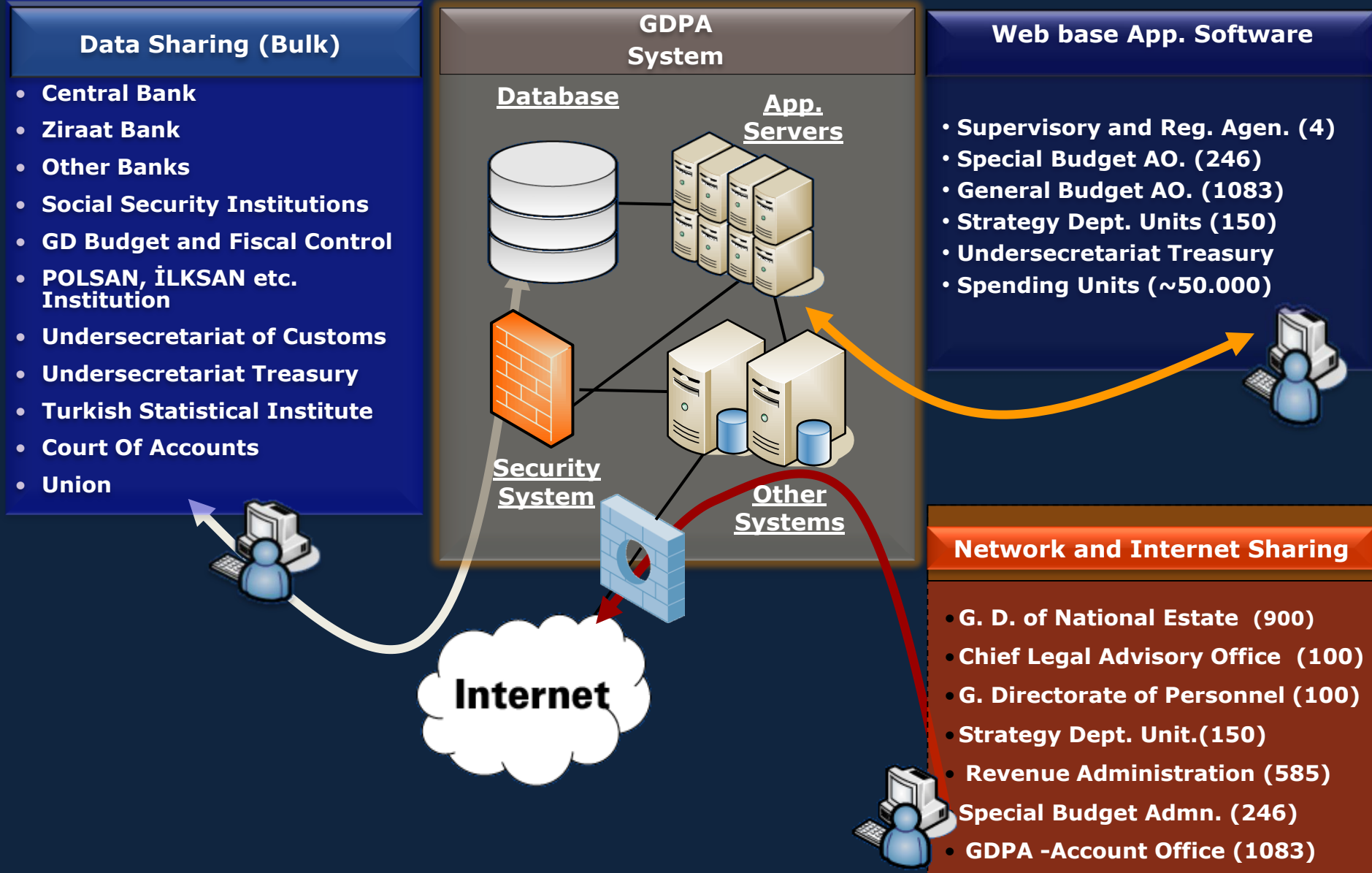


Technological Architecture - III





Technological Architecture - IV





System Resource (Hardware)

Product	Amount
Database Server, Disk Storage	3 (192GB RAM, 36 CPU), 50 TB
App. Server	32 (512GB RAM, 44 CPU dual-quad Core)
İntenet Backbone , İntranet Backbone	170 Mb, 2x622 Mb
PC, Thin Client, Terminal Server	1500, 12.000, 1080
Users	12.000 İntranet App., 21000 Network, 100.000 İnternet App.
Printer	2000 Dot Matrix, 1800 Laser
Router, Switch	1400 , 2000
Uninterruptible Power Supply	1400 (3, 6, 7, 10, 15, 20 kVA)
IP phone	1200
Call Center (Tecnical Prob.)	10 Person
e-posta, AV, Crypto, FW, MPLS vb	As needed
Managment Software	As needed



System Resource (Human) – Center

Title	Number of Staff
Head Of Dept.	3
Manager	5 (3 Teknik, 2 Mevzuat)
Programmer	36
State Accounting Specialist	26
Call Center	6
Database Consultant	1
TOPLAM	77

Training

End-user training are held periodically.

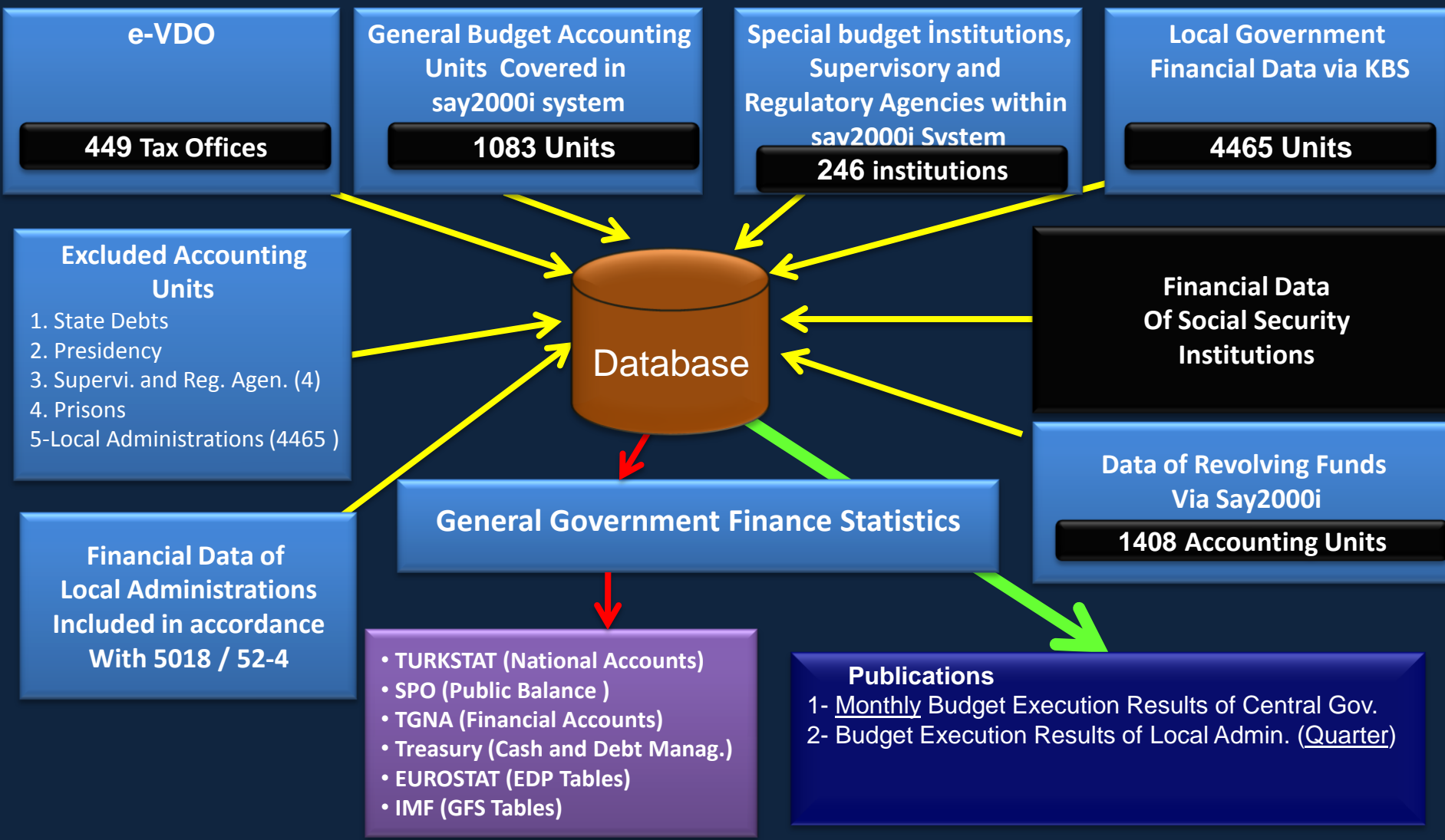


Cost

Year	Total Costs (USD)
2000	~ 16.100.000 (Datacenter, Thinclient, TS Server, etc.)
2003	~ 1.400.000 (Database Server, App. Server)
2005	~ 8.000.000 (Network and Terminal Server)
2006	~ 10.000.000 (Central Server, Printers, Networks)
Software Development	(Software development - insource)
Total	35.500.000
Each Year	~ 1.500.000 (For Support - ~1500 Units – Contractor)



Users (Application and Report) - I





Users (Report) - II

Users

Undersec. MoF

Administrator

Central Expenditures
Unit Executive

Expenditures Unit
Executive

User : Strategy

Governor

Court Of Accounts

Online – Real Time

Scope

All Turkey	-	-
All Turkey	Province	A.O.
All Turkey	Province	A.O.
-	-	A.O.
All Turkey	Province	A.O.
-	Province	A.O.
-	-	A.O.



Application / Modul - I

Application / Modul	Explanation
Keeping Accounting Records	This accounting application used in approximately 1,329 accounting units enables the records to be kept electronically in the central database
Cash based Payment system	This system allows the daily calculation of the amount of cash required for payments in the electronic environment, and further enables the Treasury to make the relevant payments,
Public Electronic Payment System (PEPS) - Pilot	This system allows the State to make payments in the electronic environment over the Central Bank.
Preparation of Final Account	The bill regarding the Final Accounts Act is prepared by taking into consideration the results of the budget.
Dispatch and Control of Appropriations	The budget and the allowances released by the General Directorate for Financial Supervision are distributed and supervised.
Producing Budget Execution Results	The budgeted items realized in each month are determined until the 10th day of the following month.



Application / Modul - II

Application / Modul

Explanation

Reference Table of Public Spending Units

All Public Authorities are coded in a single database and this database is used jointly by all relevant applications.

Salary Application

The salaries of approximately 1,450,000 civil servants are calculated and transferred to the relevant banks.

Public Electronic Payroll System (e-payroll)

This system allows the civil servants, whose salaries are calculated, to access and print out their payrolls.

Extra Course Application

This system allows the calculation and the printout of the payments required to be made to approximately 643,000 teachers for their extra lectures.

Over Time Work Application

This application allows the calculation and the print out of the overtime pays to be paid to the personnel of the Ministry of Finance.

General Government Financial Statistics Application

This application allows the (ESA 95 and GFS) reporting of all authorities and agencies in the General Administration sector.



Application / Modul - III

Application / Modul	Explanation
GÜMKART Application	This application allows the cooperation of our General Directorate, the Undersecretariat of Customs and the relevant banks regarding the customs transactions, by enabling the data transfer between them.
Identity Management Application	KBS's (approximately 110,000 people) to ensure control of the authority and role
Movables Transactions Application - Pilot	This application allows the registration, the administration and the book keeping of the public institutions' movable properties under the general budget (currently in pilot stage)
Decision Maker Reports	Producing Information For Ministerial Senior Management And Other Public Institutions



Target

- **2010**
 - To increase the quality of the infrastructure
 - To increase coverage of call center to all MoF
- **2010 - 2012**
 - To port all business processes to digital platform
 - To include local administrations to system.
 - Certification of ISO27001
 - Using datawarehouse and Business intelligence
 - Digital Signature



Advantages of System

- ***Correctly Identified Target***
- ***Qualified Project Plan***
- ***To form Project team***
- ***Stick to Project Plan***
- ***Fast Reaction to Changes***
- ***Short Response Time to Users***
- ***Continued Feed Back***
- ***Adaption to Technology***



System Goal

- ***To Improve Standart***
- ***To ensure reliability***
- ***To achieve realtime – Online information,***
- ***To provide decission making service for administration***
- ***To reduce costs,***
- ***To reduce human mistakes,***
- ***To be more efficient for human resources,***
- ***To make time management,***

