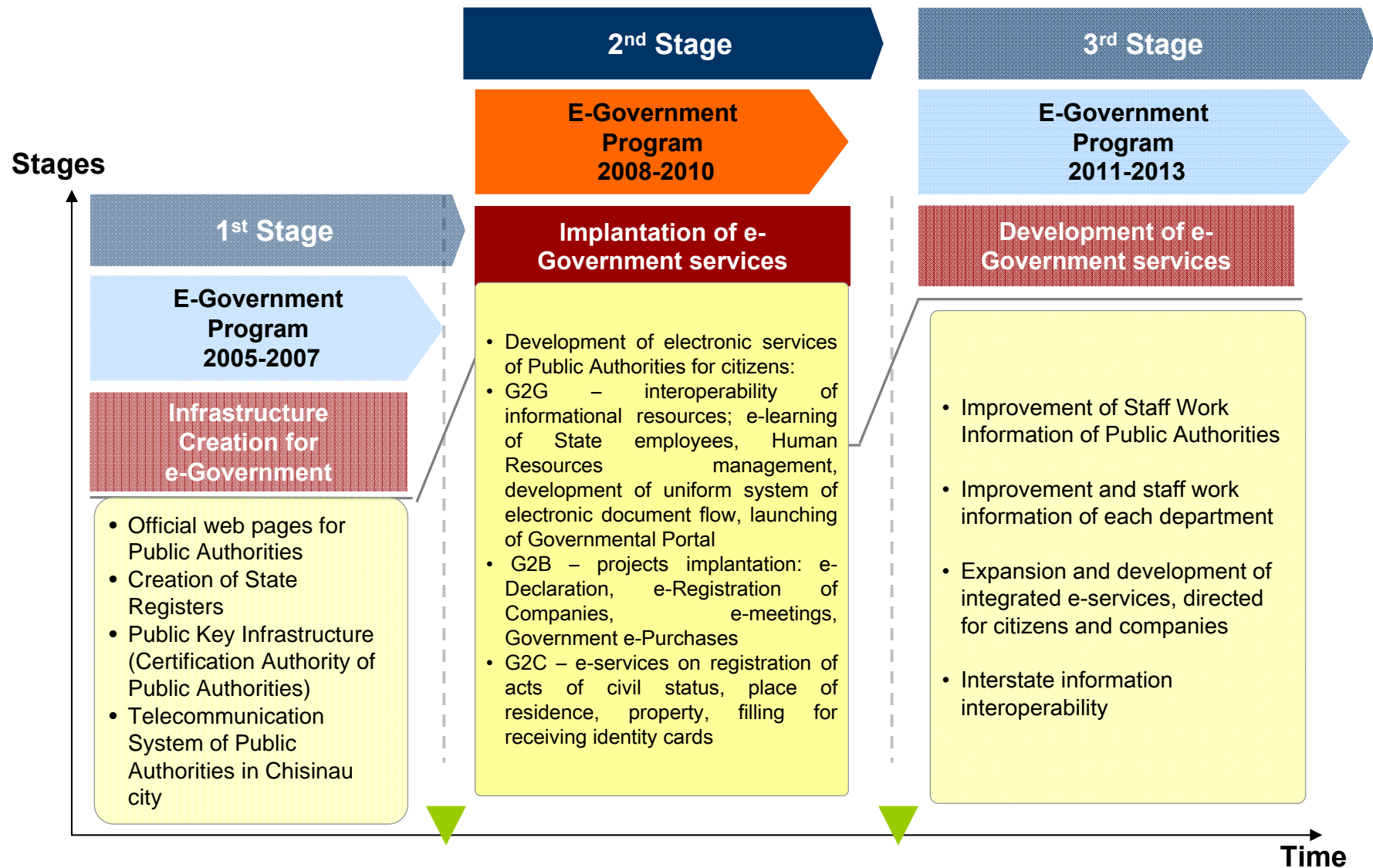# Protection and Integration of State Information Resources and System of the Republic of Moldova

**Alexander Donos**

**State Enterprise "Special Telecommunications Center"**

# Development Stages of e-Government

**Stages**

**1st Stage**

**E-Government Program 2005-2007**

**Infrastructure Creation for e-Government**

- Official web pages for Public Authorities
- Creation of State Registers
- Public Key Infrastructure (Certification Authority of Public Authorities)
- Telecommunication System of Public Authorities in Chisinau city

**2nd Stage**

**E-Government Program 2008-2010**

**Implantation of e-Government services**

- Development of electronic services of Public Authorities for citizens:
- G2G – interoperability of informational resources; e-learning of State employees, Human Resources management, development of uniform system of electronic document flow, launching of Governmental Portal
- G2B – projects implantation: e-Declaration, e-Registration of Companies, e-meetings, Government e-Purchases
- G2C – e-services on registration of acts of civil status, place of residence, property, filling for receiving identity cards

**3rd Stage**

**E-Government Program 2011-2013**

**Development of e-Government services**

- Improvement of Staff Work Information of Public Authorities
- Improvement and staff work information of each department
- Expansion and development of integrated e-services, directed for citizens and companies
- Interstate information interoperability

**Time**

# Required Conditions for Electronic Services Functioning



- ❖ **Interoperability** of state information systems and resources

- ❖ Creation of **an uniform business logic** functioning

- ❖ Creation of **an unique access point** to the state information resources and services

- ❖ **System approach** to the ensuring of information security

- ❖ **Permanent monitoring** and response to information security threats

- ❖ **Permanent control** of protection of state information systems and resources of departments

# Why is the security important?

| Figures | Growth Dynamics | Negative Profit (USD) |
|---|---|---|
| ❖ **Virus attacks** | **30%** | **15,6 млн.** |
| ❖ **Unauthorized access** | **25%** | **10,6 млн.** |
| ❖ **Data Substitution on transfer** | **17%** | **6,03 млн.** |

*\* - according to the data of the Institute for Computer Security and FBI of USA (2006)*

# Risks of Information Security



❖ **Unauthorized access** to state information system and resources

❖ **Unauthorized substitution and deleting** of information of state importance

❖ **Functioning blocking** of Governmental sites and information systems

*Viruses,*
*DoS attacks, SPAM,*
*outside invasions*

❖ **Hacker attacks**, computer viruses and spam
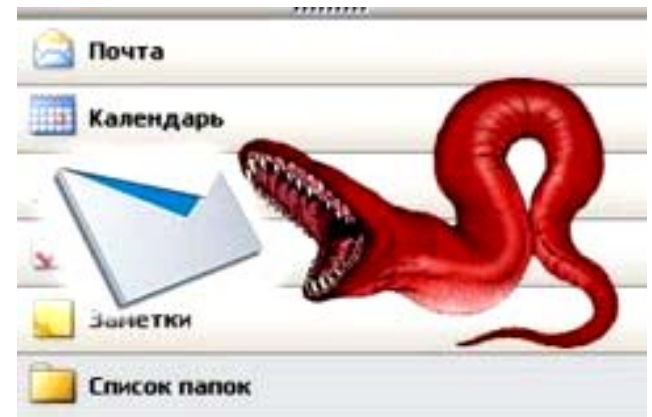
❖ **The Digital signature** was implanted and the necessary conditions for its application were created

❖ **A secure telecommunication system of Public Authorites in Chisinau city** was created, on the basis of modern fiber-optical main communication channels

❖ **The main Government Data Center** was created, which permits to keep in security the databases of critical importance
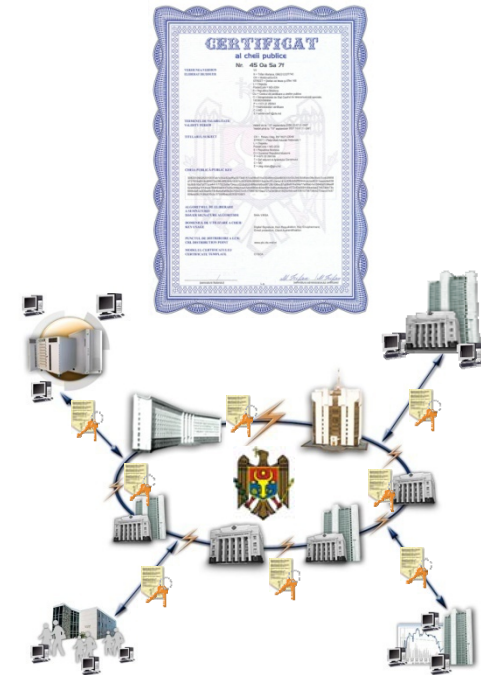
# Priority measures
## on integration and protection of state information systems and resources

- ❖ Creating of **intradepartamental systems** of information protection

- ❖ **Integrating of information system** of central and local authorities, by means of expansion of telecommunication systems of public authorities on **all the territory of the Republic of Moldova**

- ❖ Creating of **security gateway** for the Governmental Portal

- ❖ Creating the **Center of ensuring the information security** and of administration of the public authorities' telecommunication system
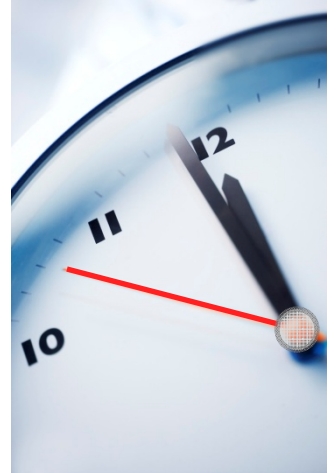
# Information Protection in the Public Authorities
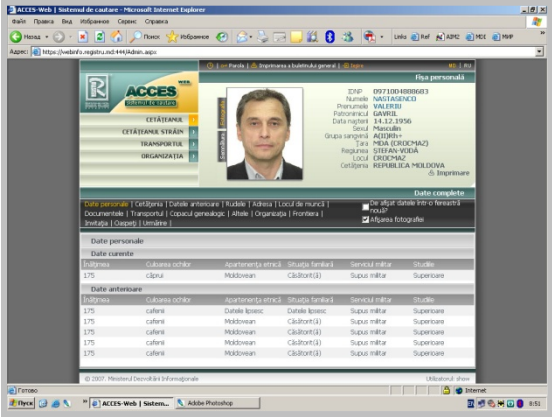


❖ Protection of **State information systems and Databases**

❖ Protection of **departmental telecommunication systems**
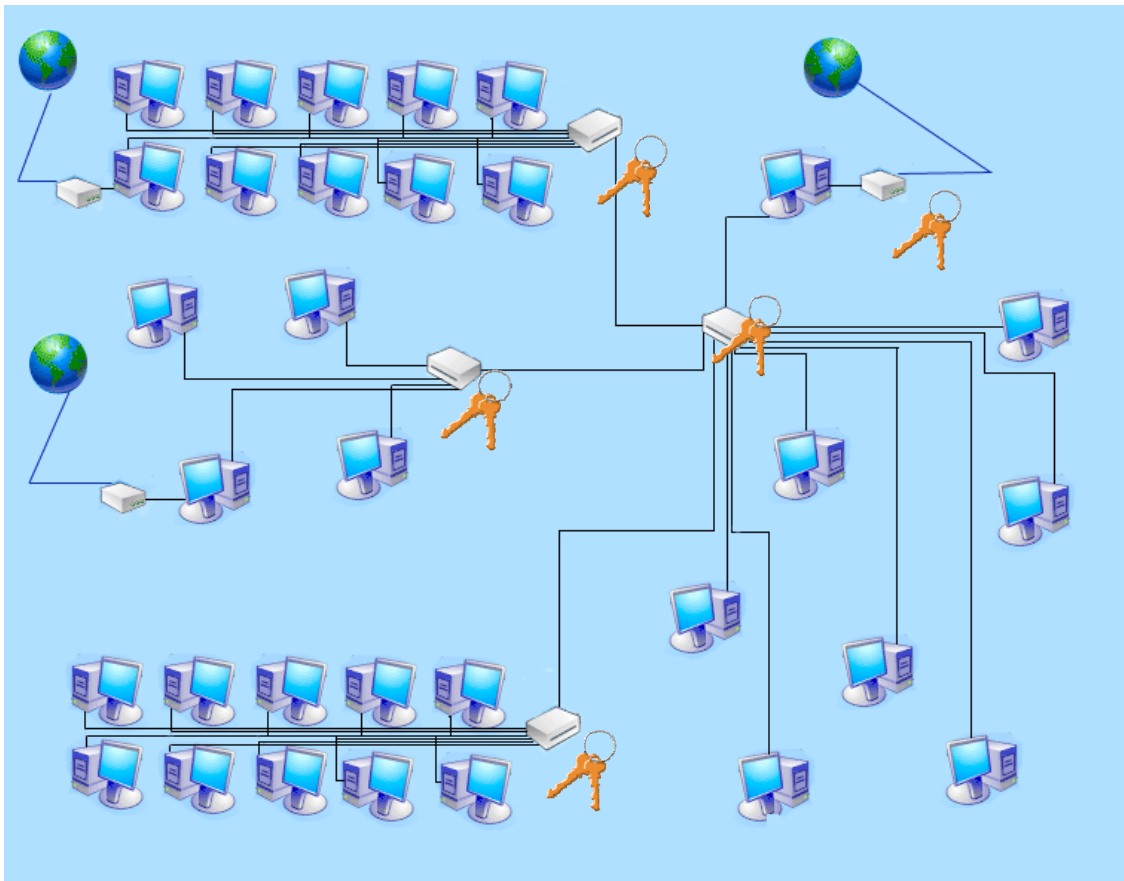
❖ Protection of State employees' **workstations**

**Protection of State information systems and Databases**
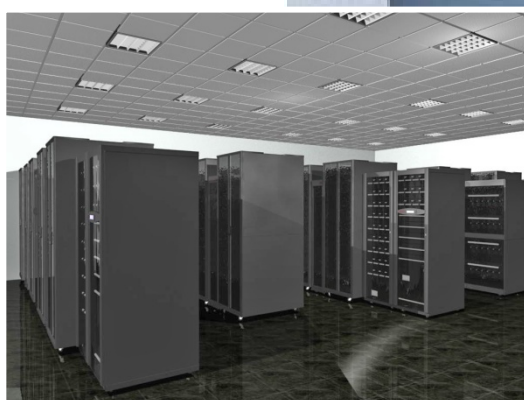
# Information Protection in the Public Authorities

**Protection of departmental telecommunication systems**

# Information Protection in the Public Authorities

Protection of State employees' **workstations**



- ❖ Requirements to **local workstation**
- ❖ Requirements to **antivirus protection**
- ❖ Requirements to **protection against the unauthorized access**
- ❖ Requirements to **cryptographic protection** of information

# Forming of a Permanent Commission on Attestation and Control

**Verification of the requirements observance of information security in public authorities of the Republic of Moldova**

- ❖ **Conformity control**
- ❖ **Coordination**
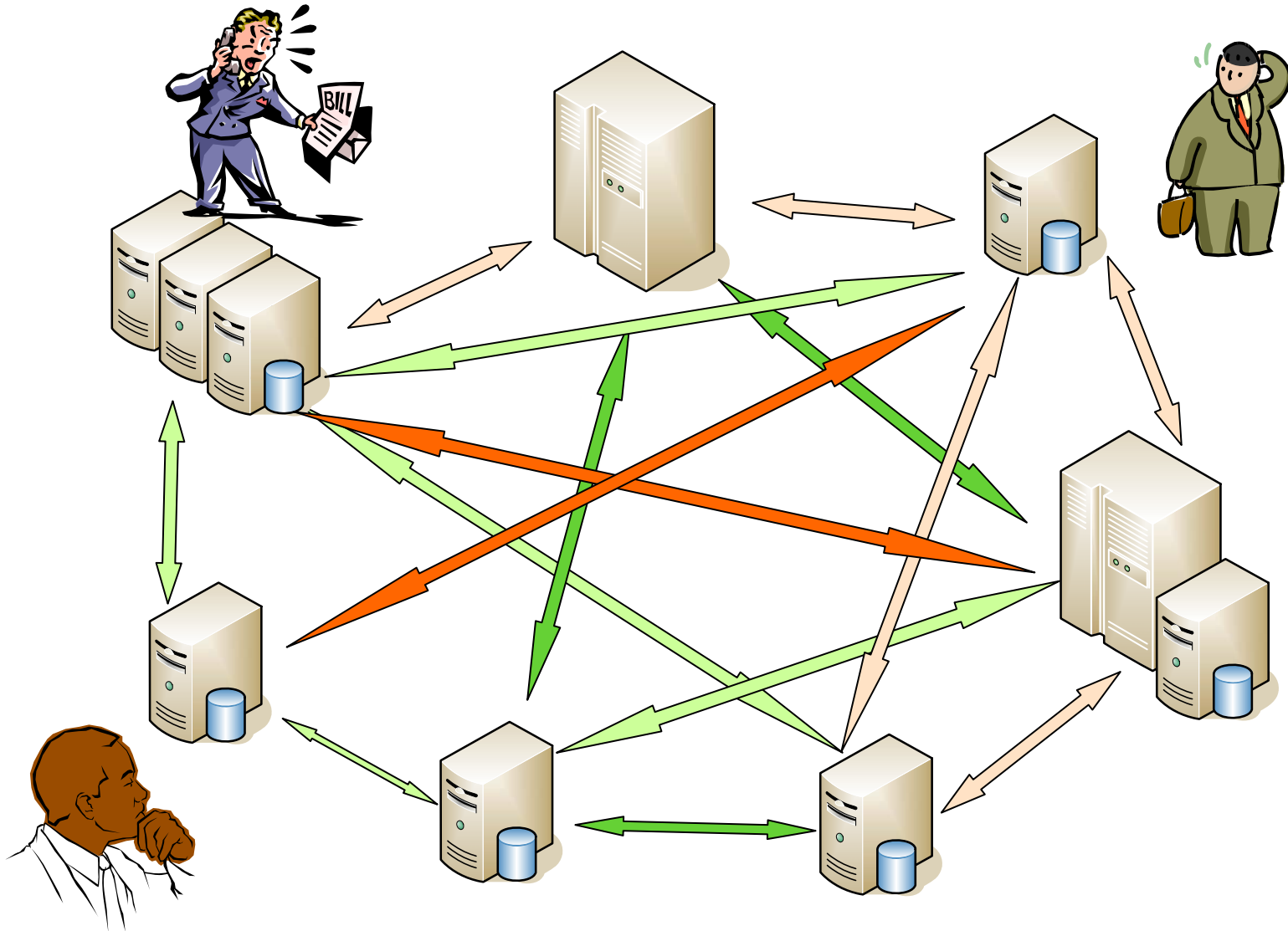- ❖ **Monitoring**
- ❖ **Attestation**
- ❖ **Audit**
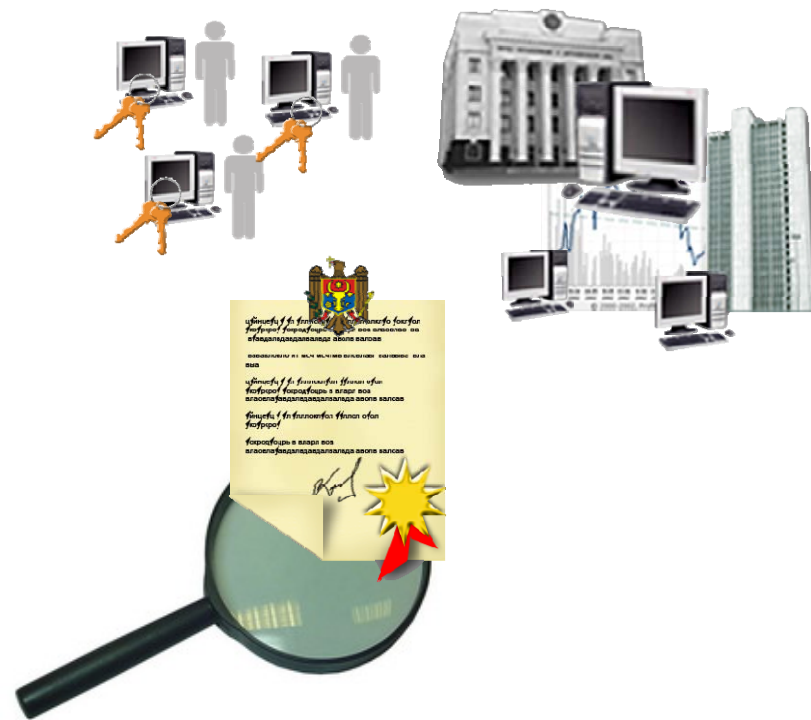
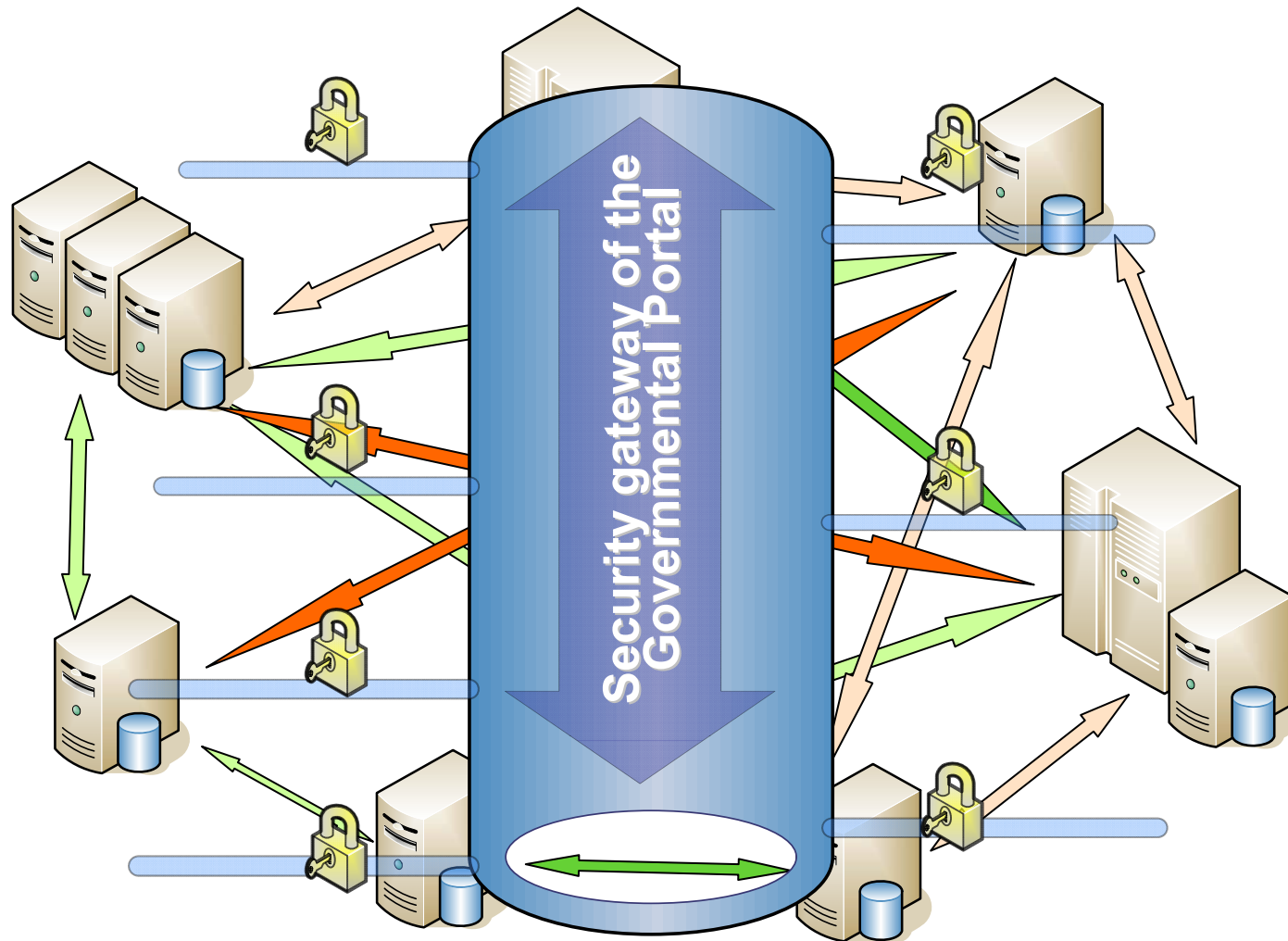# Integration of State Information Systems and Resources of Central and Local Authorities



Кишинёв

**Development of telecommunication system of Public Authorities around the whole territory of the Republic of Moldova**

# Security Gateway as an Uniform Service of Integration of State Information Systems
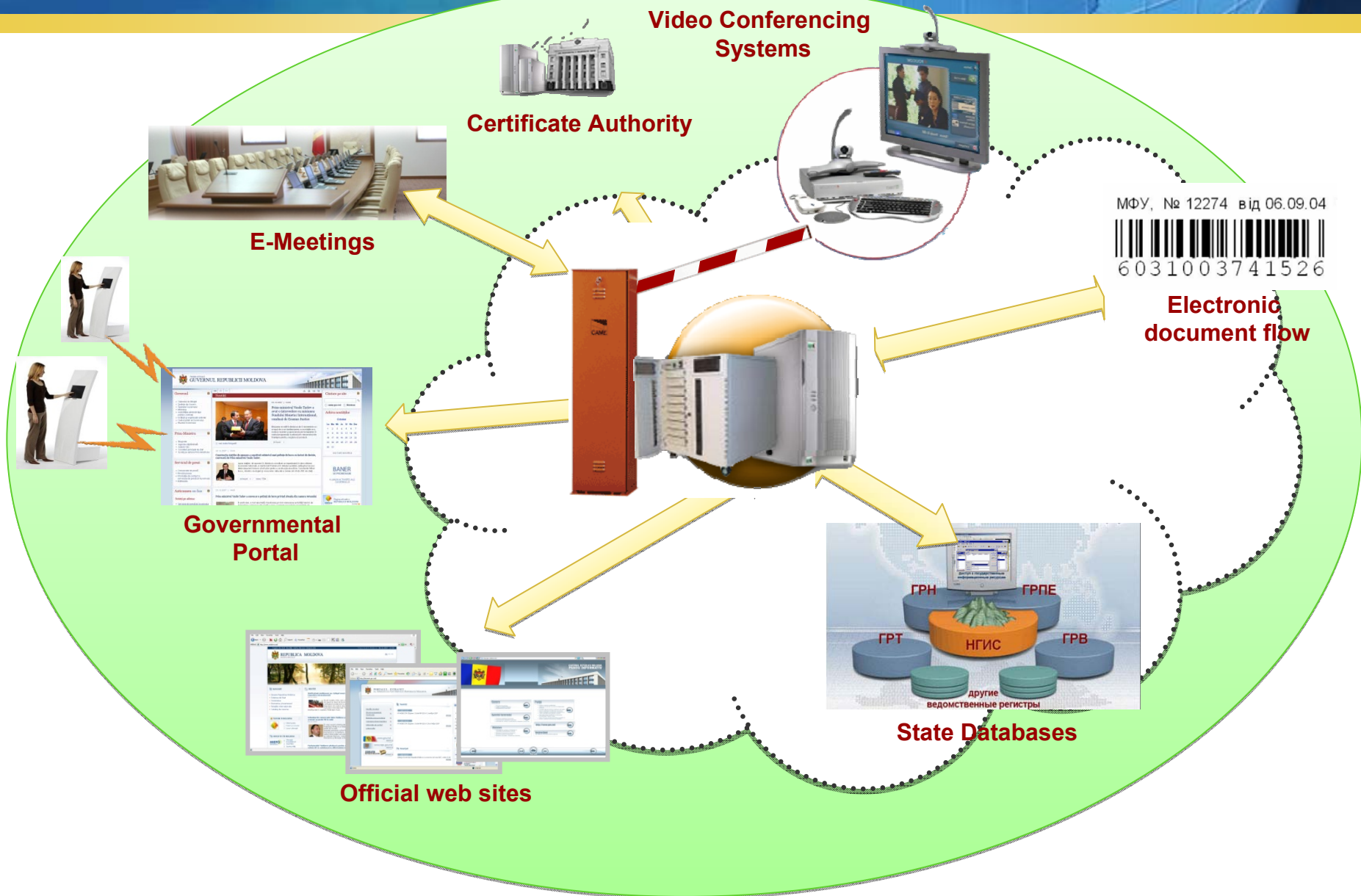
**Security gateway of the Governmental Portal**

Fragmentized departmental information systems
Integration of departmental Information Systems by the security gateway

"Unique Window" applying the Security Gateway

Reg. Chamber

SE "REGISTRU"

Tax Inspectorate

Security Gateway of the Governmental Portal

PORTAL

Person

Description of the Inquiry processing logic

Bureau of Statistics
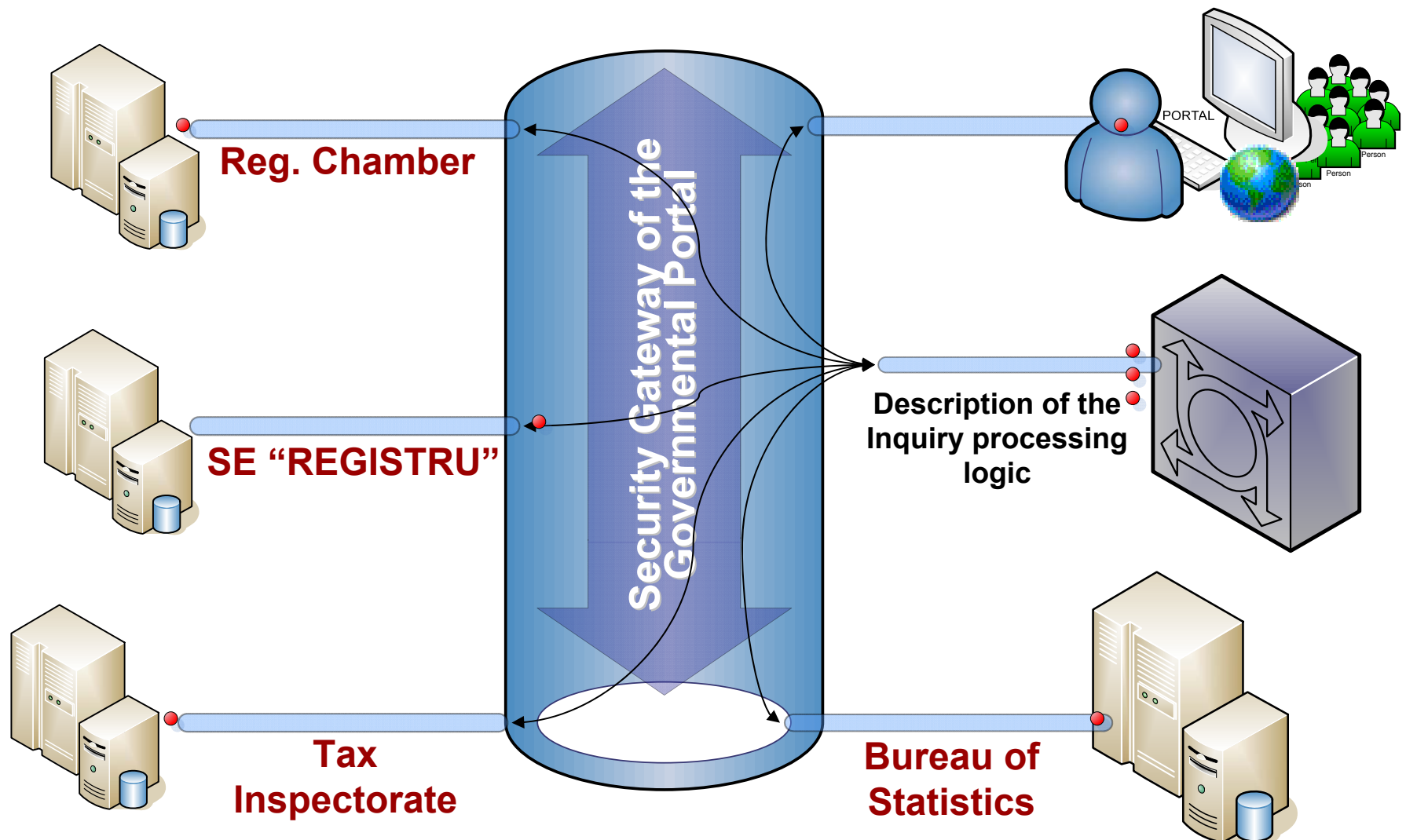
Interaction of State information systems on registration of an enterprise by principle of an "Unique Window"

# Security Gateway of the Governmental Portal

Video Conferencing Systems

Certificate Authority

E-Meetings

Electronic document flow

МФУ, № 12274 від 06.09.04

6031003741526

Governmental Portal

State Databases

ГРН    ГРПЕ
ГРТ    НГИС    ГРВ
другие ведомственные регистры

Official web sites

# Creation of the Center for Ensuring the Information Security of the Public Authorities (Situation Center)

**Within the bounds of the State Enterprise Special Telecommunications Center of the Information and Security Service**
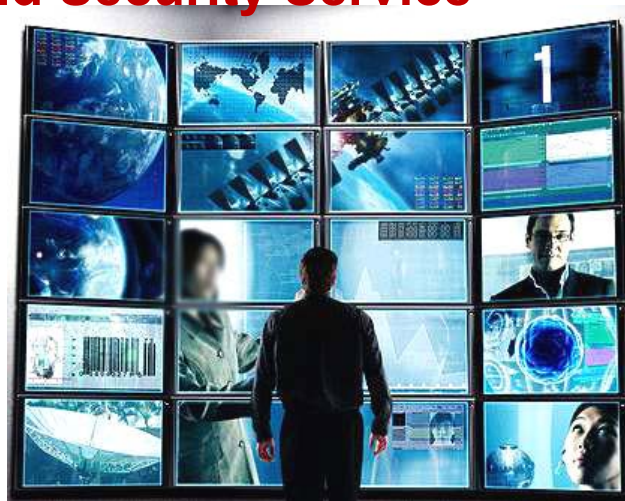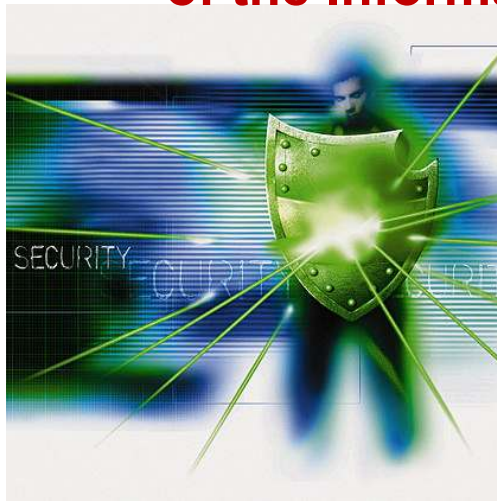


- ❖ **Prevention, detection** and **repulsing** of computer intrusion and hacker attacks
- ❖ **Antivirus protection** and spam protection
- ❖ **Control** and **monitoring** of information security status

# Creation of the Center for Ensuring the Information Security of the Public Authorities (Situation Center)



**Architectural simulation of Situation center within the bounds of State Enterprise Special Telecommunication Center of the Information and Security Service**

THANK YOU FOR YOUR TIME!