e-Governance Academy

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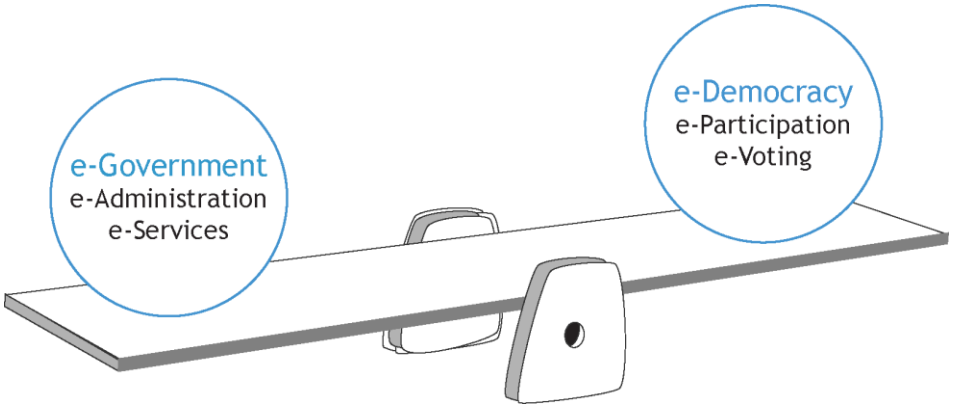
electronic democracy +

electronic government=

e-governance



Balanced e-Governance

Combination of electronic services and participatory services

e- GOVERNMENT

Transaction of user-oriented services offered by government that are based on information and communication technologies.

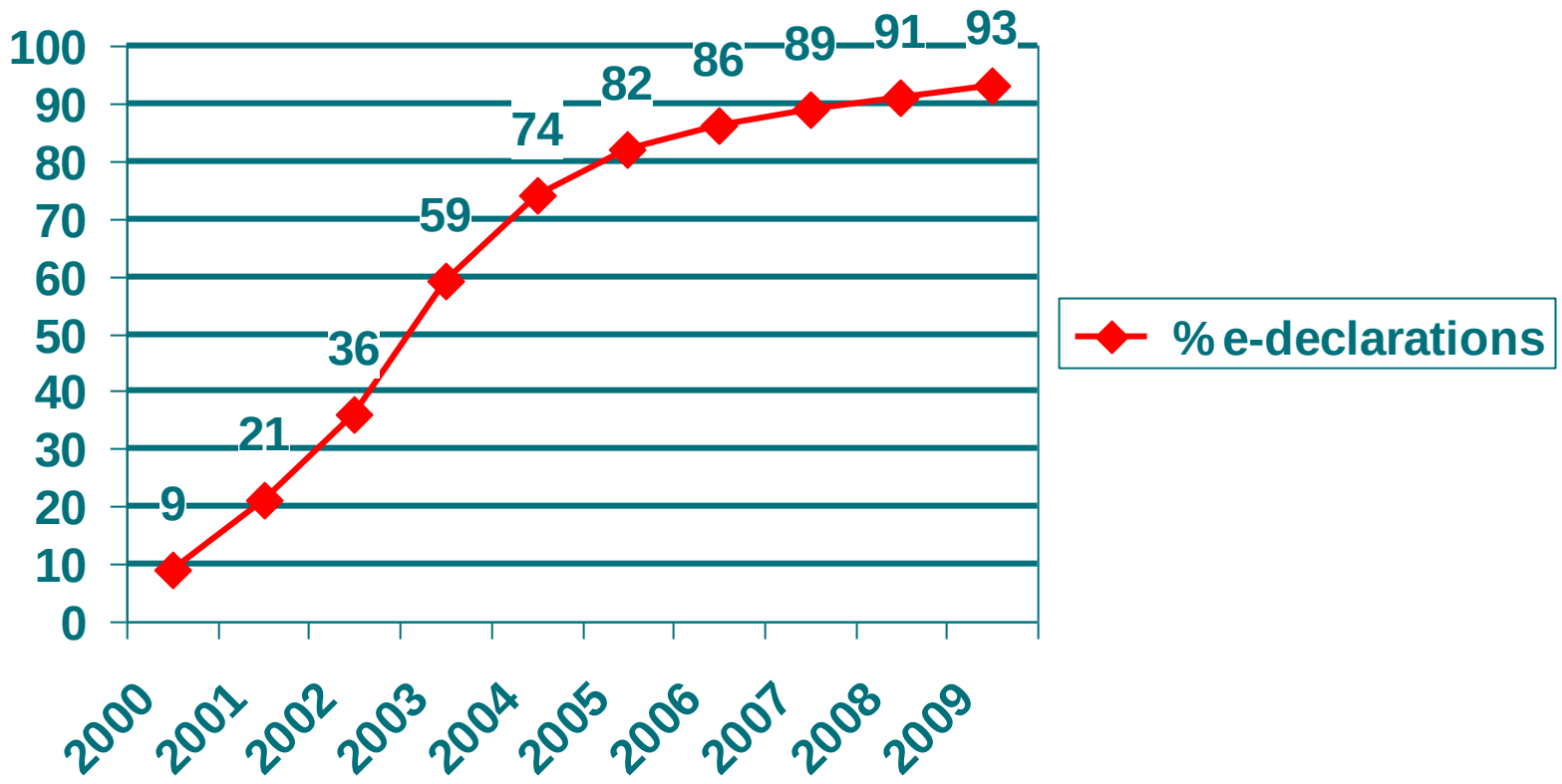
e-DEMOCRACY

Digitally conveyed information (transparency) and the political influence (participation) exerted by citizens and business on the opinion-forming processes of public – state and non-state –institutions

eGovernment example:

Parental benefit – best eGov service in 2004 (interoperability of 5 information systems from 5 goverment institutions)

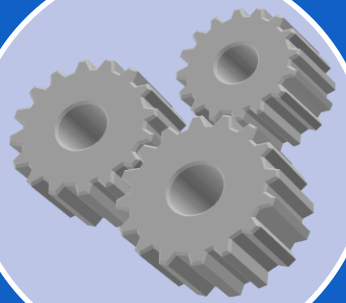
Tax declarations on-line



Organization

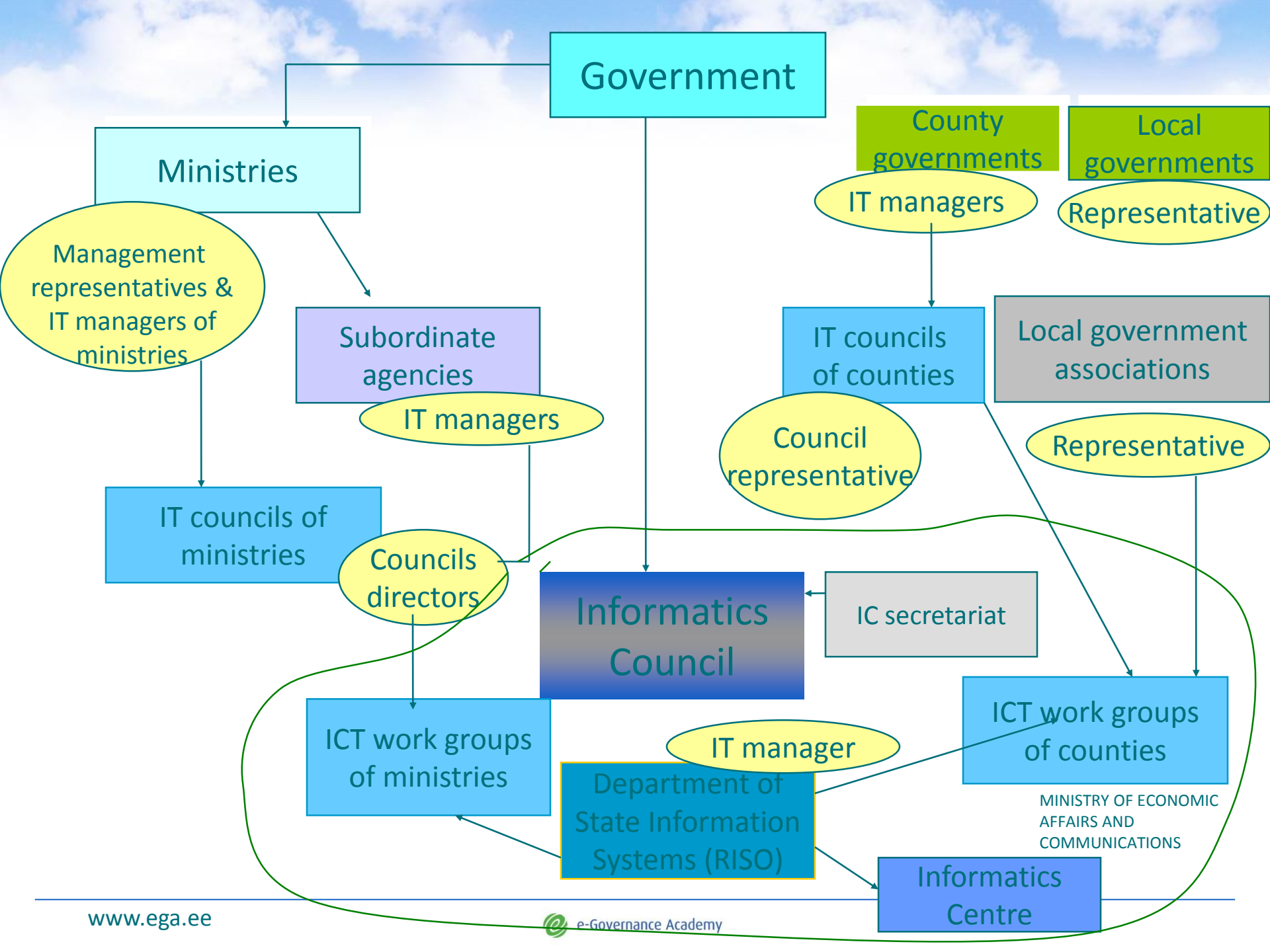
Legal framework

Fiscal framework



Technical architecture

eGovernment Policy / Strategy

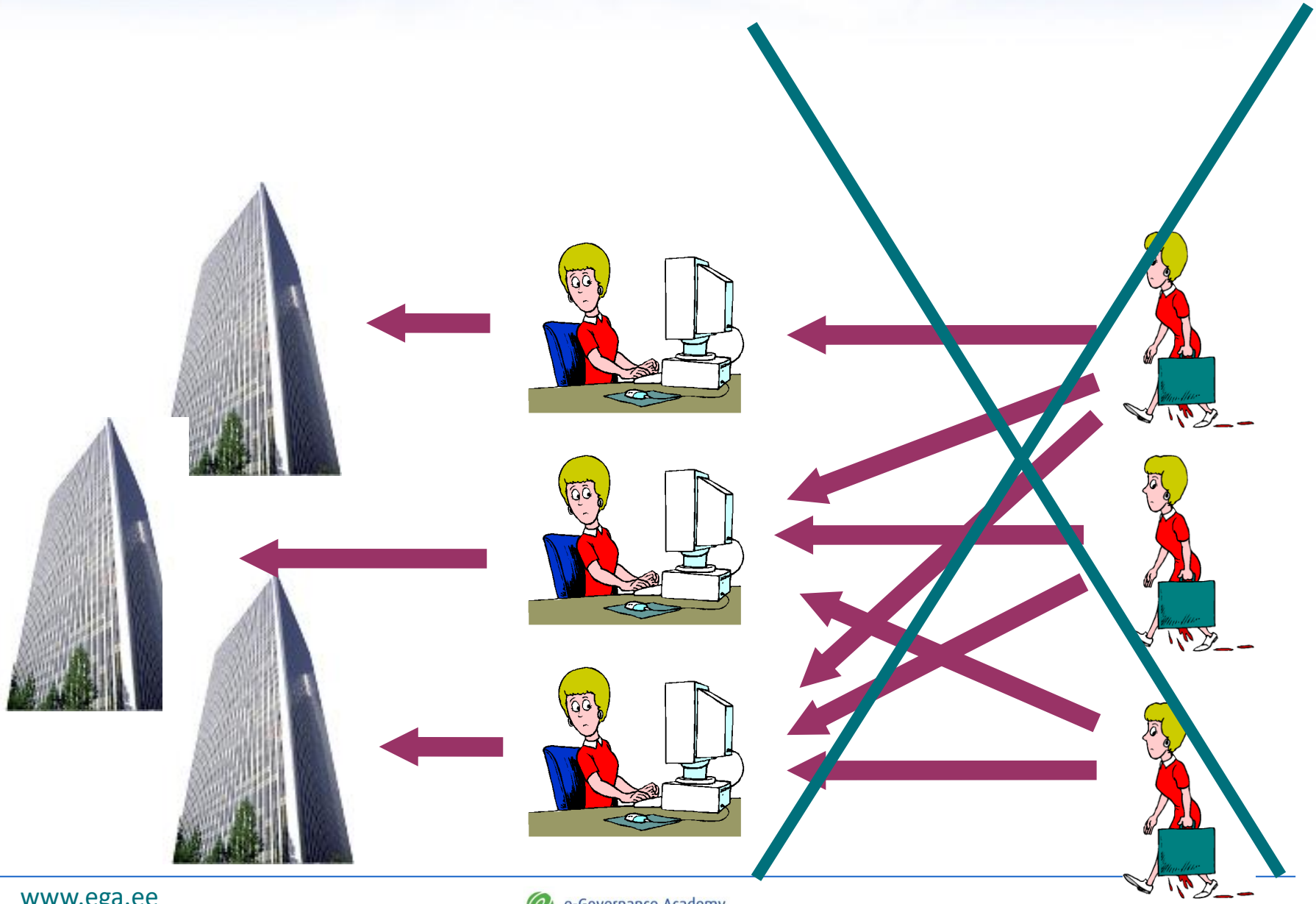

Government
Ministries
Management representatives & IT managers of ministries
Subordinate agencies
IT managers
IT councils of ministries
Councils directors
County governments
IT managers
Local governments
Representative
IT councils of counties
Council representative
Local government associations
Representative
Informatics Council
IC secretariat
ICT work groups of ministries
IT manager
Department of State Information Systems (RISO)
ICT work groups of counties
MINISTRY OF ECONOMIC AFFAIRS AND COMMUNICATIONS
Informatics Centre

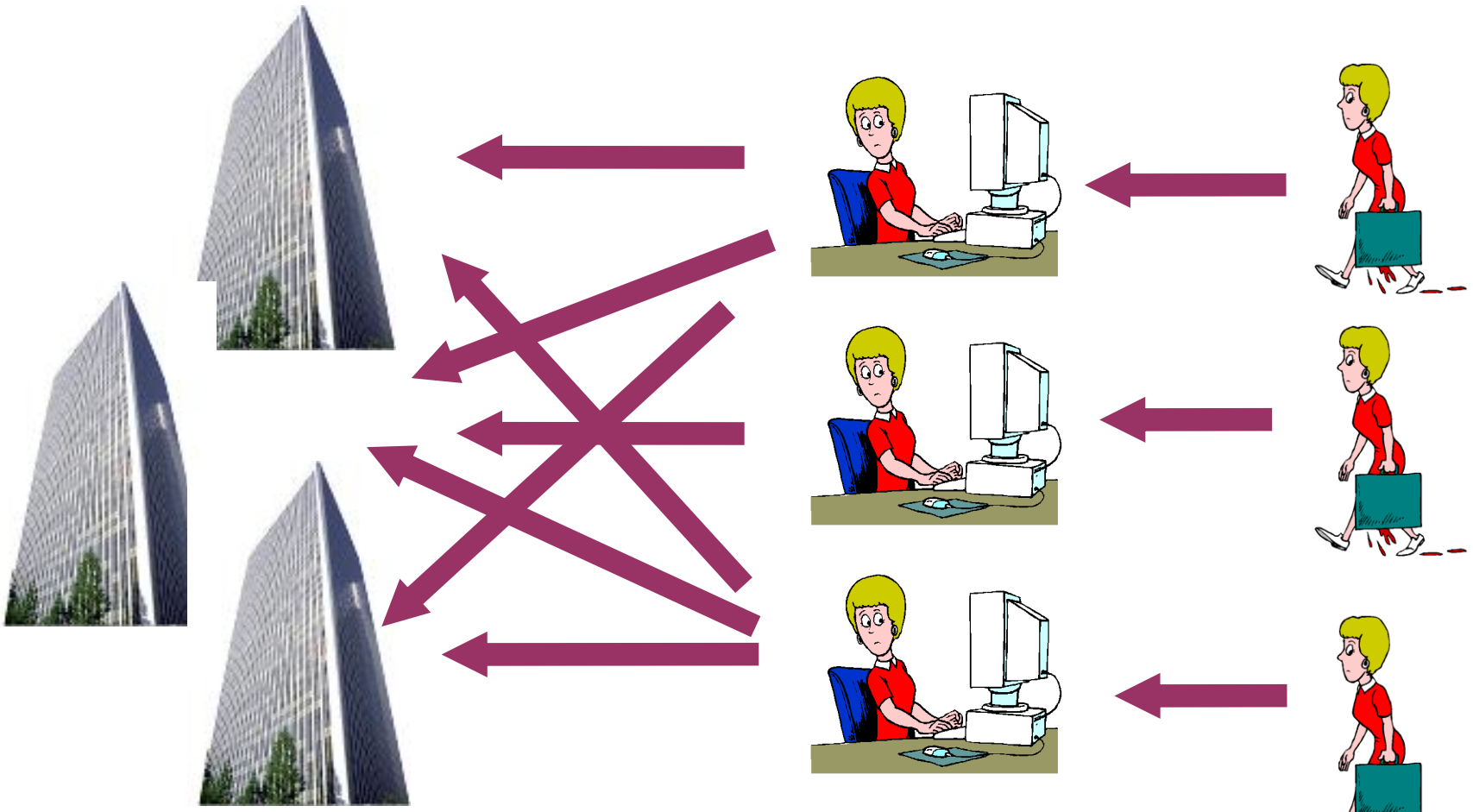
Legislation

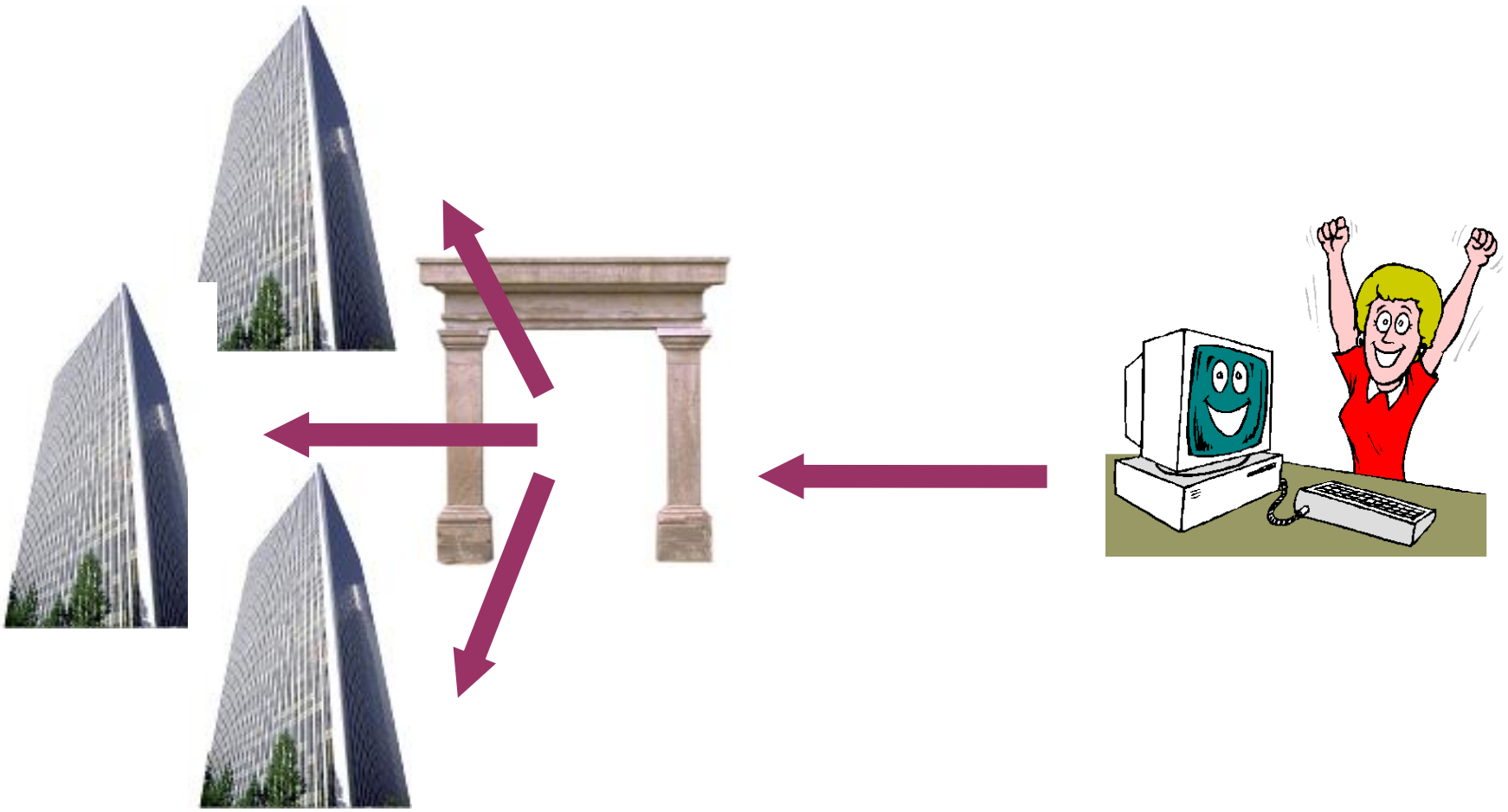
- **Databases Act** (1997/ 2006)
- **Public Information Act** (2001)
- **Digital Signatures Act** (2000)
- **Act on Intellectual Property** (applicable also for state databases)
- **Principles of Estonian Information Policy** (1998, 2004)
- **Action Plan of Estonian Information Policy – (eEstonia)** (1998, 1999, 2000, 2001,2002, 2003, 2004, 2005, 2006...)
- **Personal Data Protection Act** (1996)

Example: info-political principles in Estonia

- Citizen (customer) orientation
- Leading role for the private sector
- Efficient and transparent public sector. eDemocracy and participation.
- Functioning model for protection of personal data
- Measures against digital divide (ID-cards example…)
- Neutrality concerning technological platforms
- etc.



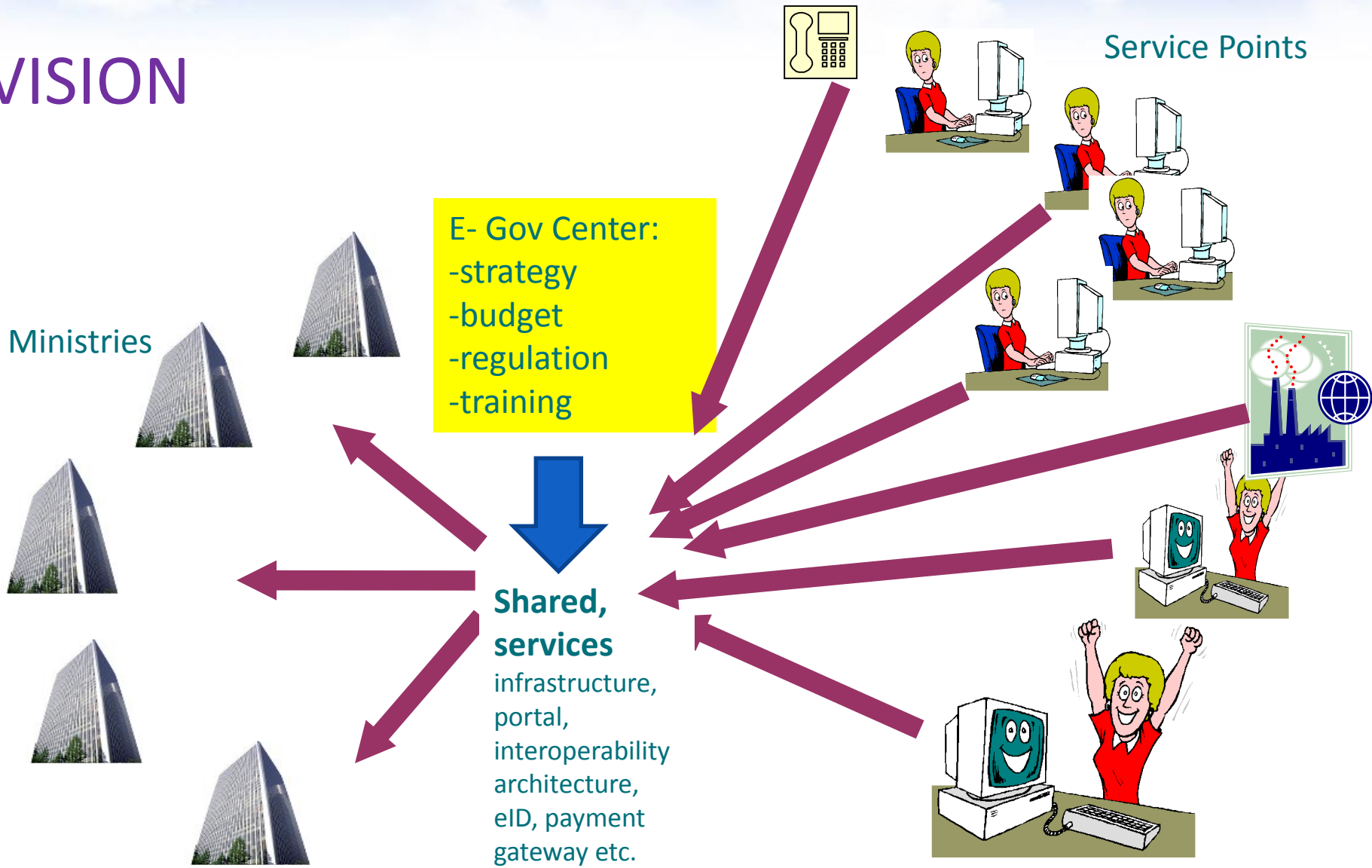




Governmental Registries

- Many registries, all very different, managed and developed by different organizations and financed separately
- Very many users, most of them are very small organizations without security knowledge and with a very small IT budget
- Very high security requirements. Registries contain personal data that is in some cases used to make high value decisions and in some cases needed in real time

VISION



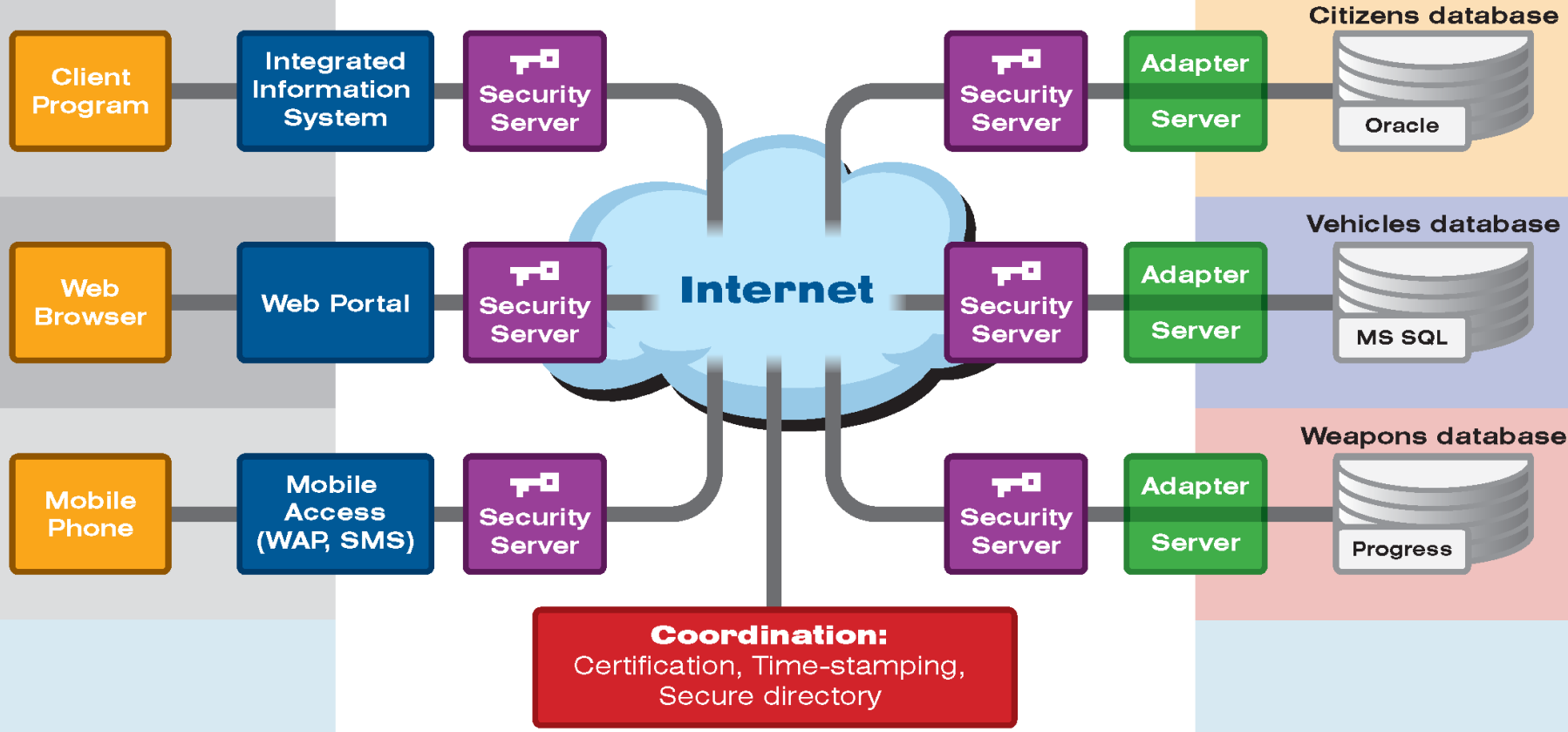
More and better services, More locations, 24/7,smaller Government, lower costs

Heterogeneous environment:
different operating systems, authentication and access methods

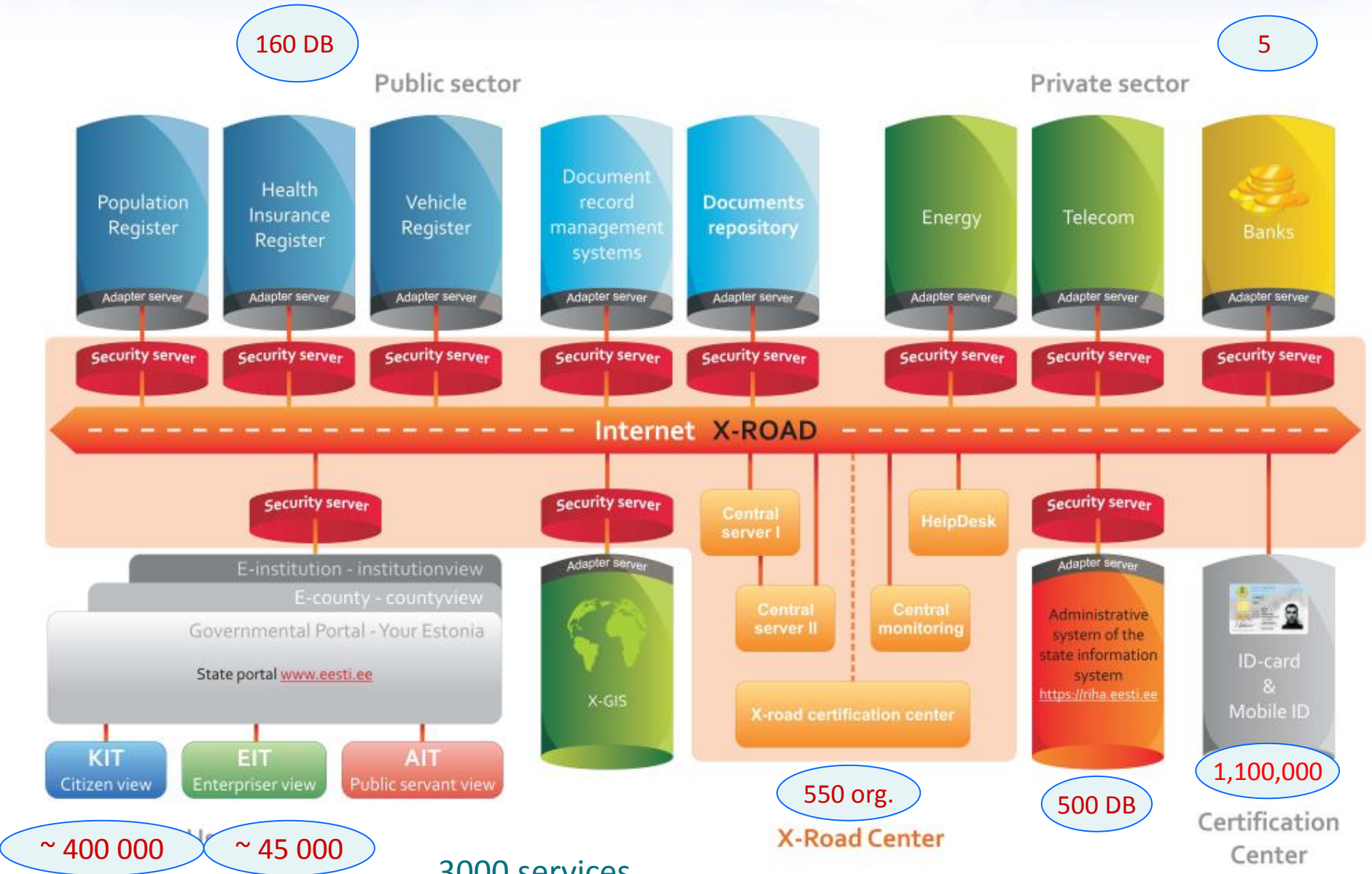
Unified security environment:

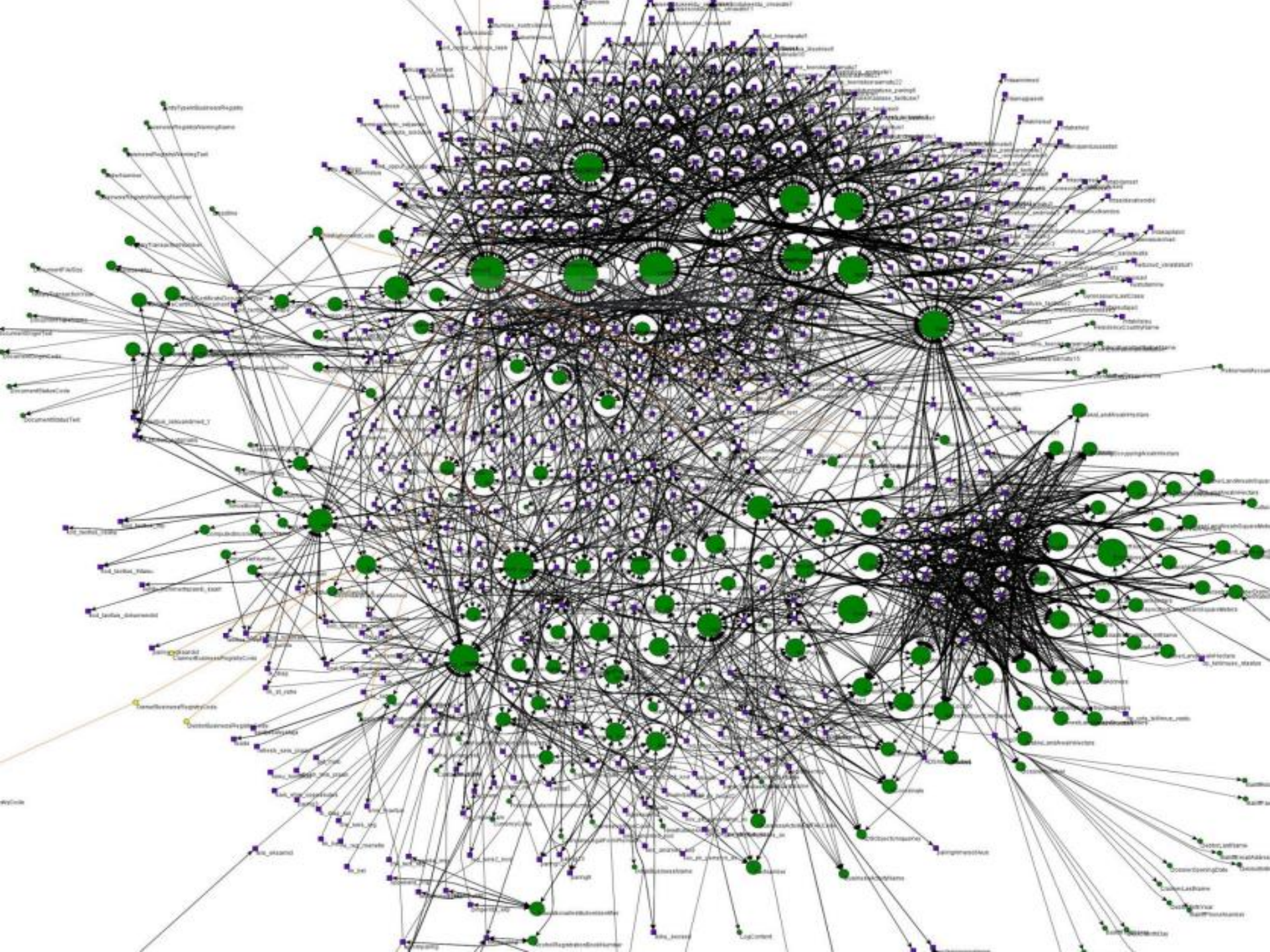
- Confidentiality, integrity, availability and non-repudiation in a unified way
- Single protocol and single interface (XML-RPC)

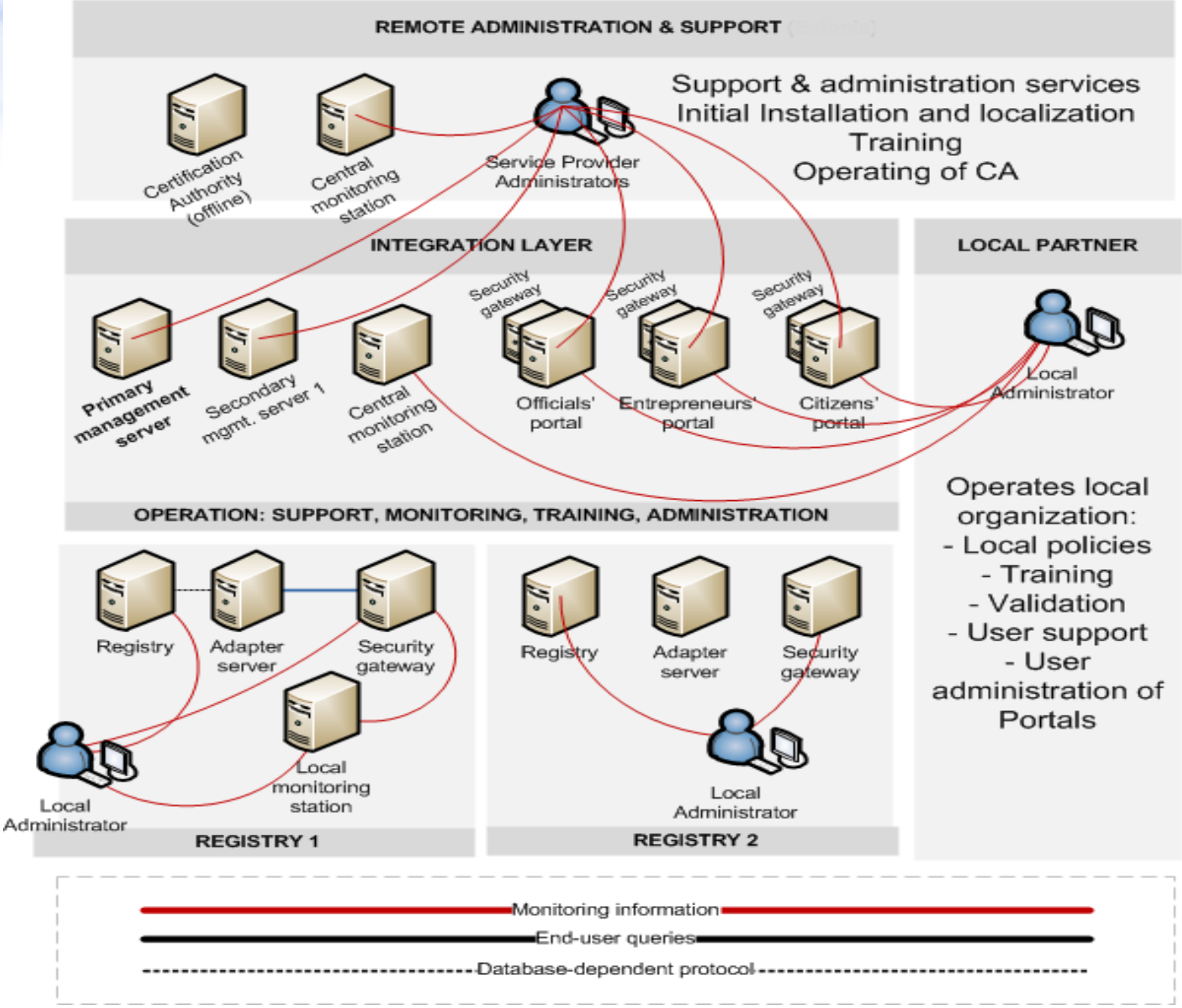
Heterogeneous environment:
different database systems, technologies, protocols and interfaces



X-Road Estonia






REMOTE ADMINISTRATION & SUPPORT
Certification Authority (offline)
Central monitoring station
Service Provider Administrators
Support & administration services
Initial Installation and localization
Training
Operating of CA
INTEGRATION LAYER
LOCAL PARTNER
Primary management server
Secondary mgmt. server 1
Central monitoring station
Security gateway
Security gateway
Security gateway
Officials' portal
Entrepreneurs' portal
Citizens' portal
Local Administrator
OPERATION: SUPPORT, MONITORING, TRAINING, ADMINISTRATION
Operates local organization:
- Local policies
- Training
- Validation
- User support
- User administration of Portals
Registry
Adapter server
Security gateway
Local monitoring station
Local Administrator
REGISTRY 1
Registry
Adapter server
Security gateway
Local Administrator
REGISTRY 2
Monitoring information
End-user queries
Database-dependent protocol

National chip-based Identity Card

Issuing authority:

Estonian Citizenship and Migration Board

Service contractor:

TRÜB Switzerland

Start of issue:January 1, 2002

Conformance with:
ICAO Doc. 9303 part 3

Inside 16 Kb RSA crypto chip are :
2 private keys; authentication certificate;
digital signature certificate;
personal data file

Thank You!

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