eGovernment and Interoperability Framework

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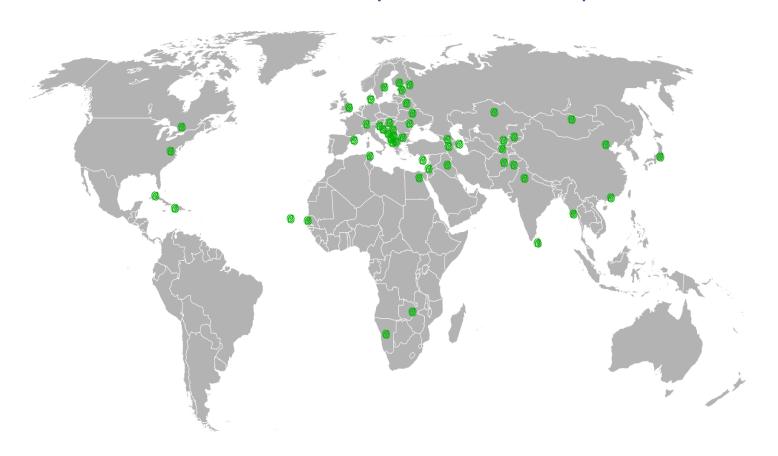
- e-Governance Academy (eGA) is a nonprofit non-governmental organisation for the creation and transfer of e-governance knowledge
- Founded by Open Society Institute, UNDP and Estonian Government in 2002
- Activities with more than 50 countries
- Over 2000 participants in training

- 22 staff members
- Wide network of the international experts – all practitioners with hands-on experience





eGovernance Academy international cooperation



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

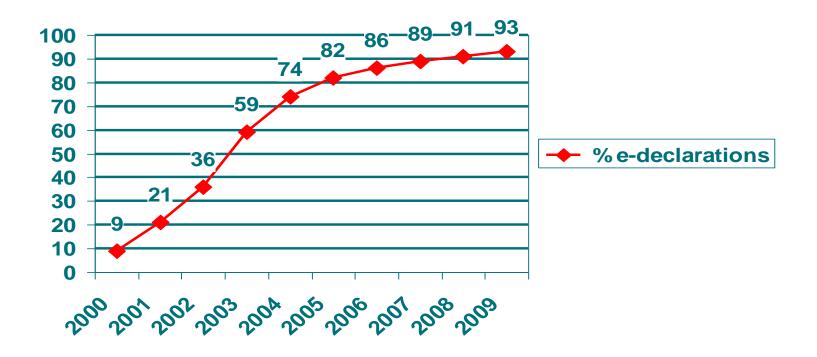
eGovernment example:

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





Tax declarations on-line

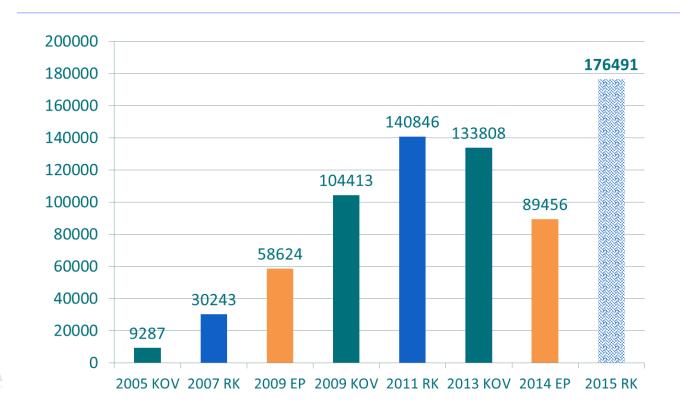


eParticipation example:

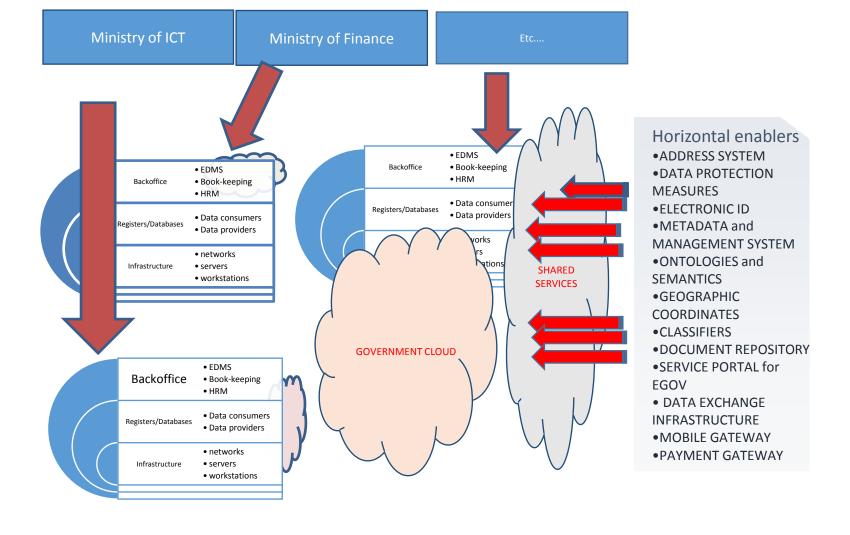
E-Voting in Estonia



e-Voting statistics in Estonia













Legal framework

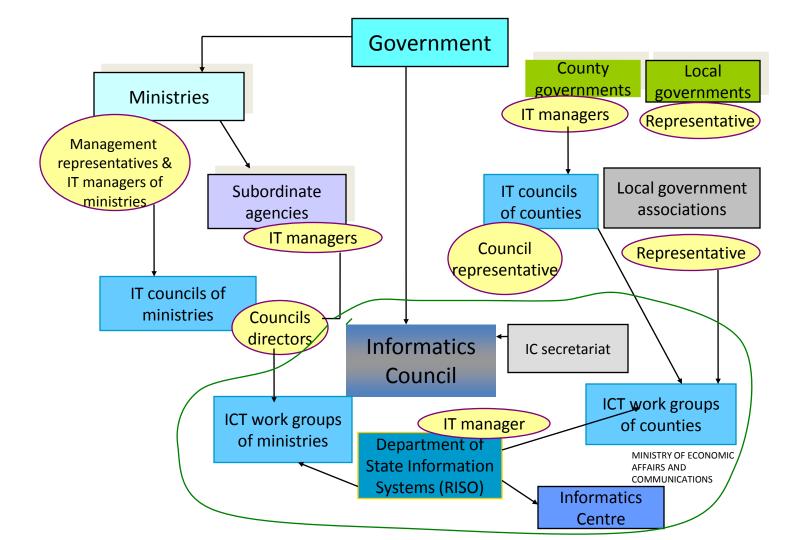


Fiscal framework



Technical architecture

eGovernment Policy / Strategy



Nature of document	Name of Document	Nature of regulation
Policy and strategy documents	eGov Strategy, Interoperability Framework	Infopolitical agreement, strong recommendation
Laws and sub-acts	Databases acts, Personal Data Protection Act, Digital Signature Act etc.	Compulsory
Framework descriptions	Architecture descriptions	Strong recommendation
Interoperability Related Standards	Documents, digital signature, security, message transfer etc.	Advise and recommendation

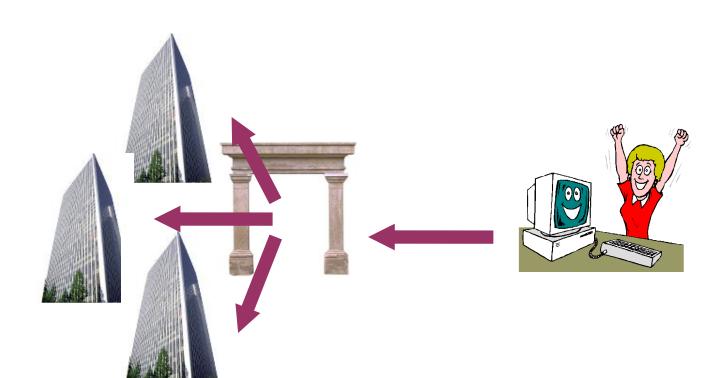
Legislation

- 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)

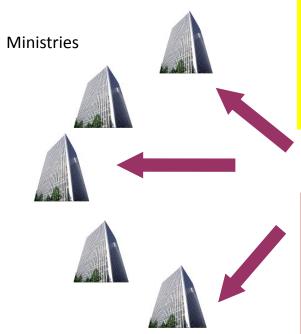


Example: info-political principles in Estonia

- 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.



VISION

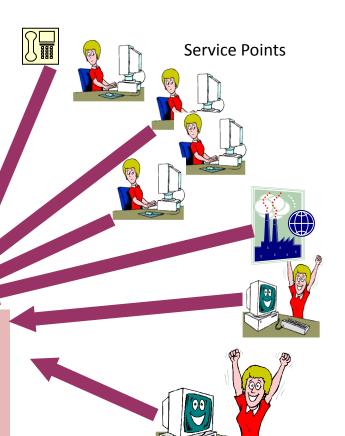


E- Gov Coordination:

- -strategy
- -budget
- -regulation
- -training



Management and implementation of shared, services infrastructure, portal, data exchange infrastructure, eID, payment gateway etc.



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

Central coordination and IOF management – different roles

eGovernment Central Coordination Unit:

- eGov and Information Society strategy planning and monitoring.
- Collecting and analyzing ICT systems in government (forms available)
- eGov budget planning with Ministry of Finances and donors (structure available)
- Developing and giving approvals for legal acts related to eGov
- Preparing eGov strategies and action plans
- Monitoring Action Plan development
- Cooperating with CIOs. Trainings for CIOs.
- Planning and coordinating international cooperation on eGov.



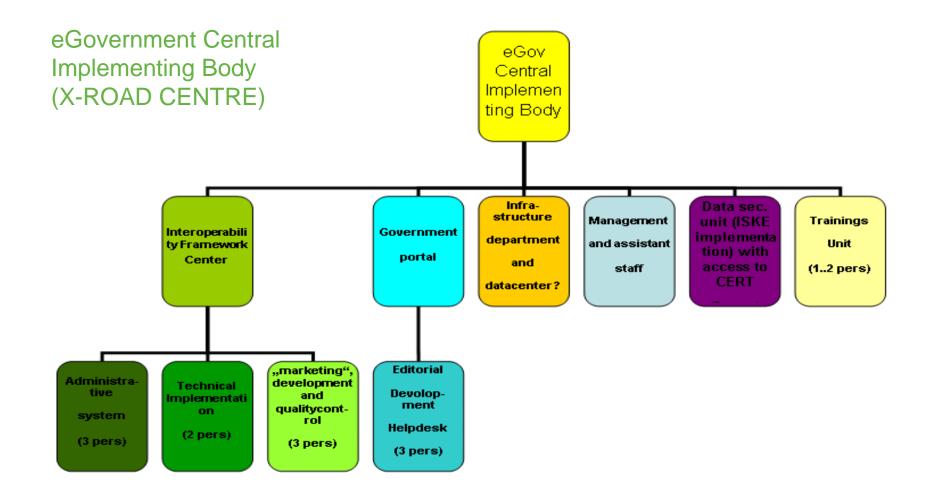
Central coordination and IOF management – different roles

eGovernment Central Implementing Body:

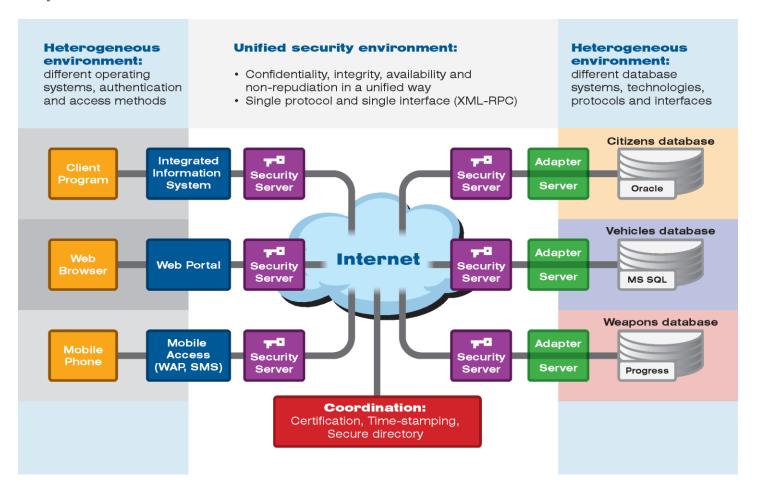
Implementation of eGov interoperability platform.

- Data Exchange Infrastructure
- Portal
- Data Exchange Infrastructure management system metadata
- Infrastructure
 - Network
 - eID
 - CA
 - Mobile and payment gateway
 - Cloud

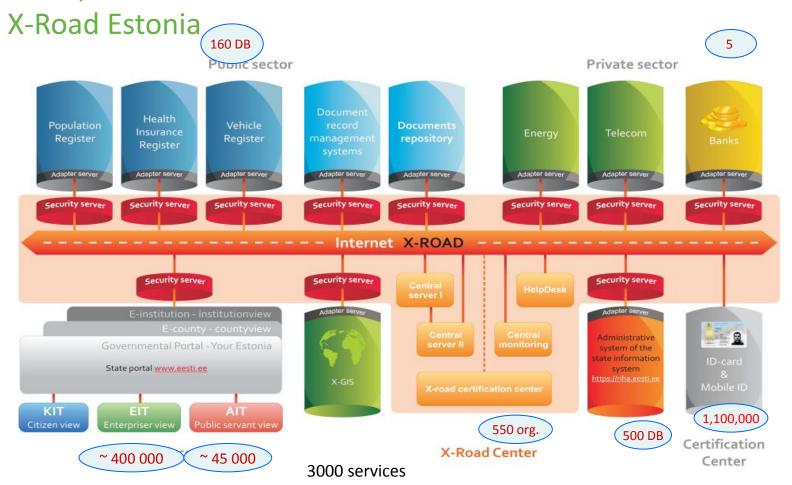


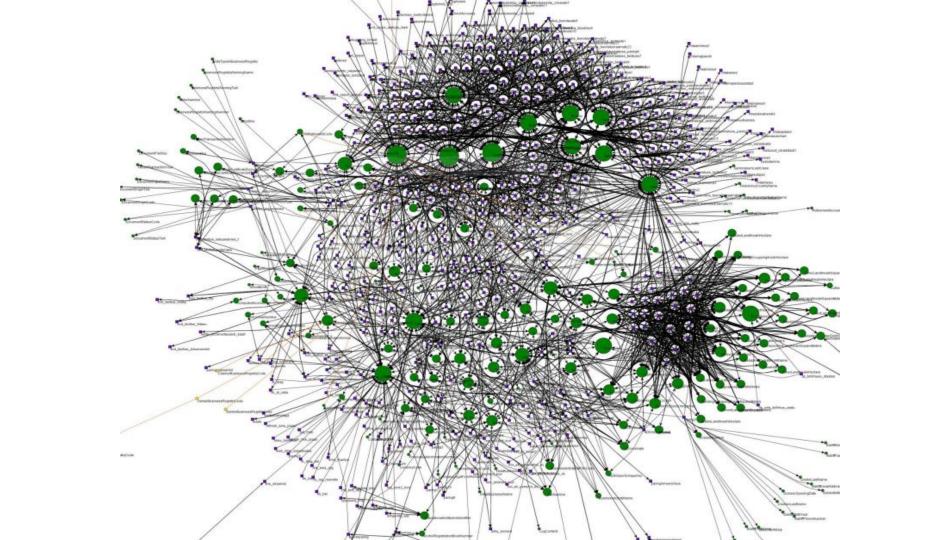


System Architecture

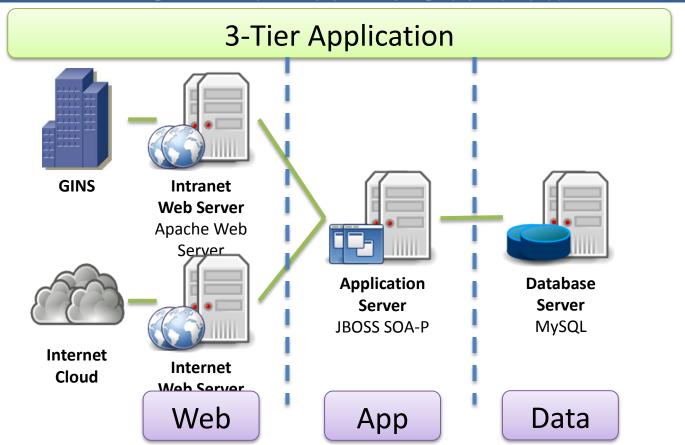


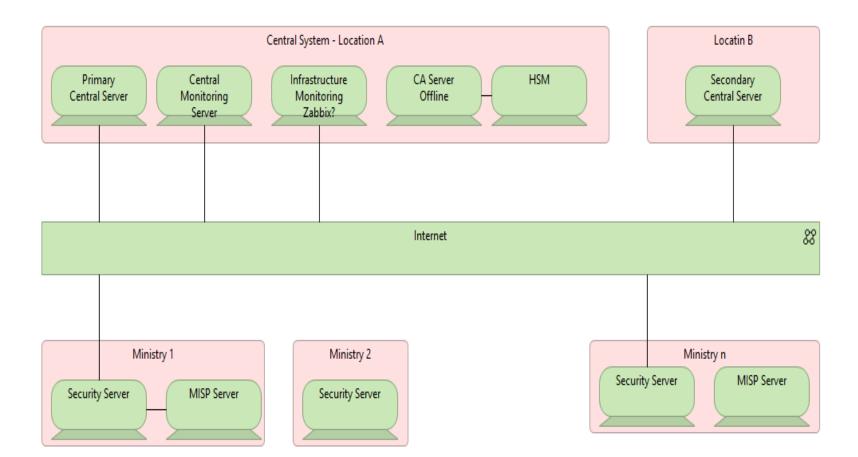
Example:





MISH Architecture Overview





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



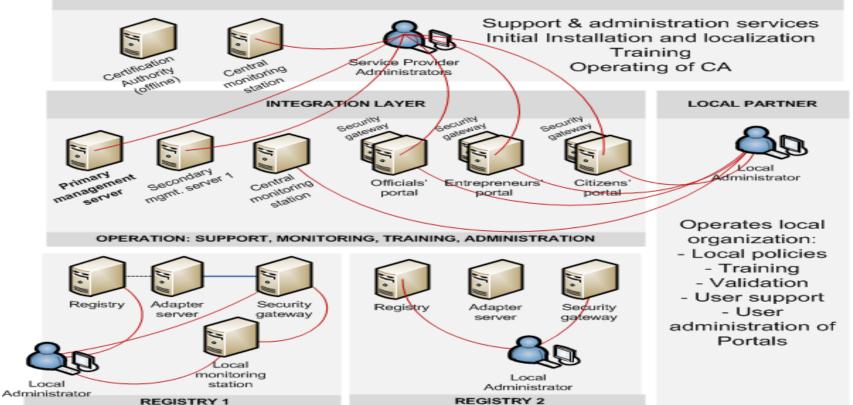
Inside 16 Kb RSA crypto chip are: 2 private keys; authentication certificate; digital signature certificate; personal data file

The central components in the architecture:

- Government network GovNet
- Data Exchange Infrastructure (x-road);
- The layer of personalized portals (citizen portal(s), entrepreneur portal(s), civil servant(s) portals);
- The register of registers, catalogue of services and the management system for the state information system;
- The layer of geoinformation systems;
- The layer of document management systems and document exchange centre;
- The system of classifications;
- The system of address details;
- The security system

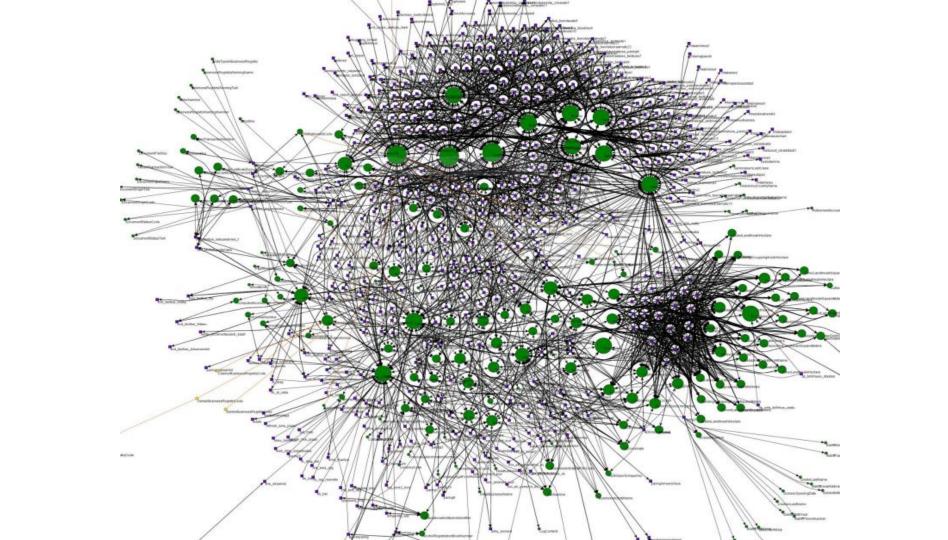


REMOTE ADMINISTRATION & SUPPORT



—Monitoring information■ End-user queries

------Database-dependent protocol------



Thank You!

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