e-Governance Academy & Estonian eGov Frameworks



Arvo Ott, PhD Executive Director, Chairman of the Management Board eGA - non-government, non-profit, non-academic

eGA was founded by Open Society Institute, UNDP and Estonian Government in 2002







VÄLISMINISTEERIUM



Main Donors







European Union











Compentencies

- Central & local e-government
- E-democracy & e-participation
- Interoperability, open data
- Cyber security
- E-identity
- Change management



Current projects



Governance efficiency
Economic competitiveness
e-Way of live



Balanced e-Governance = Combination of electronic services and participatory acitvities





e-DEMOCRACY e-Participation



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

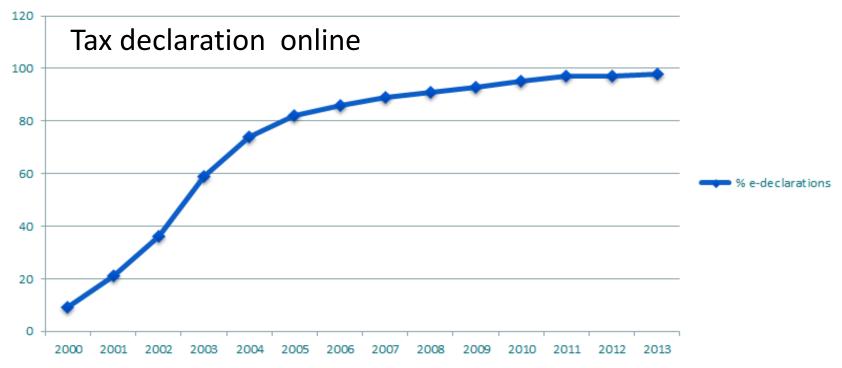
eGovernment example:

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





Takeup takes time

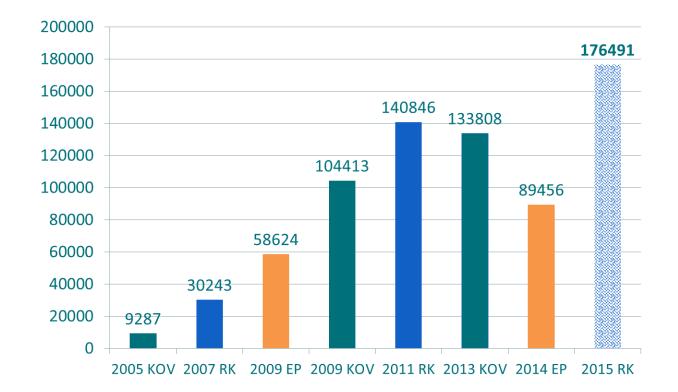


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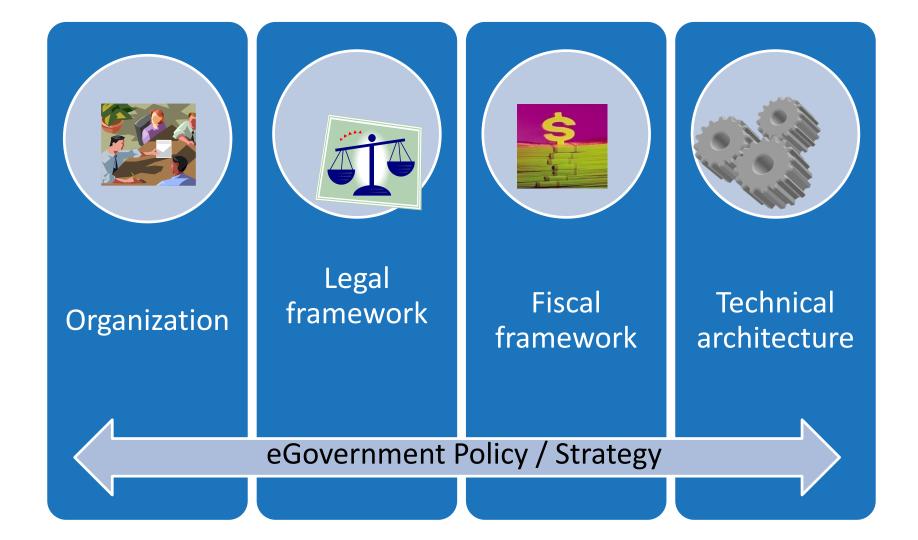
i-voting in Estonia



i-Voting statistics in Estonia

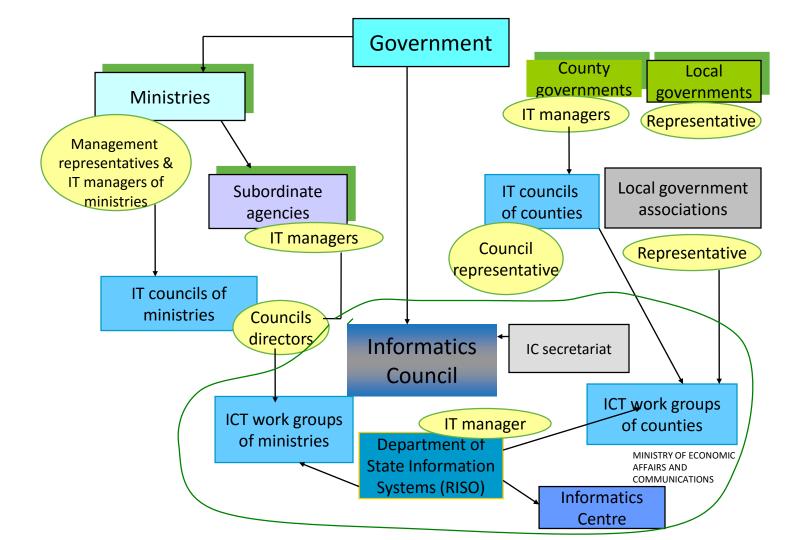






Principles

- Citizen (customer) orientation
- Leading role for the private sector
- Efficient and transparent public sector.
- e-Democracy/e-participation.
- Protection of personal data
- Measures against digital divide (ID-cards example...)
- Neutrality concerning technological platforms



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
- eGov budget planning with Ministry of Finances and donors
- 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

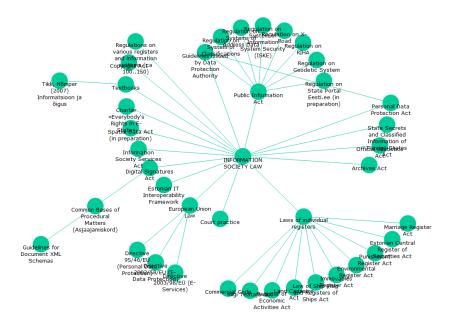
eGovernment Central Implementing Body:

Implementation of eGov interoperability platform.

- Data exchange layer and monitoring
- Portal
- IOP management system metadata
- Infrastructure
 - Network
 - eID
 - CA
 - Mobile and payment gateway
 - Cloud



Legal framework



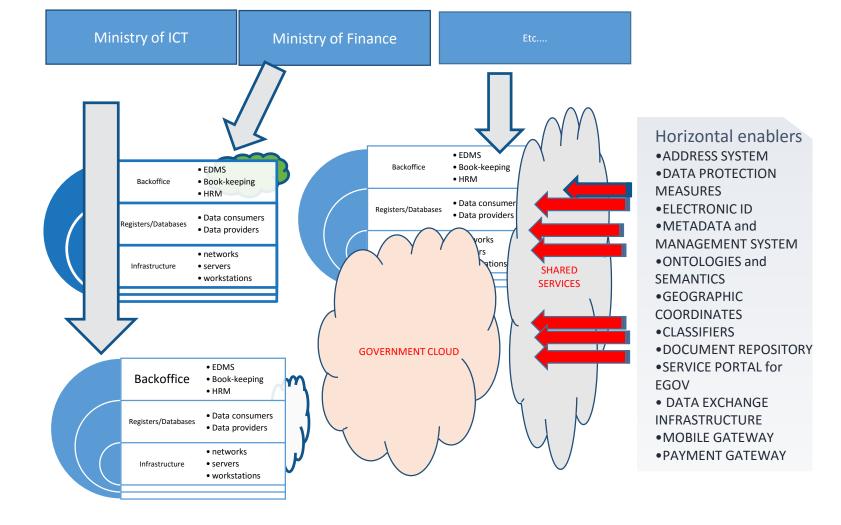
- Technology can not be regulated but relations between people, organizations...rights and responsibilities
- Regulate as minimal as possible. Use existing legal framework and make needed amendments

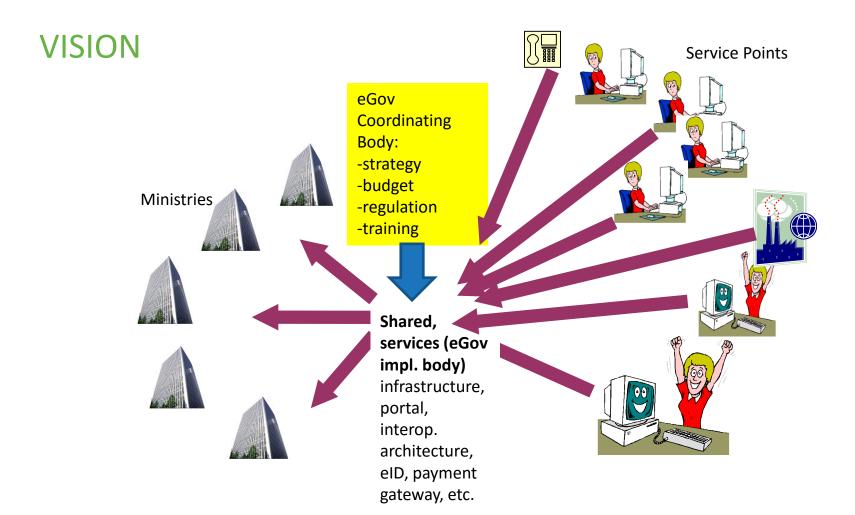


Legislation

- 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)







System Architecture

Heterogeneous environment:

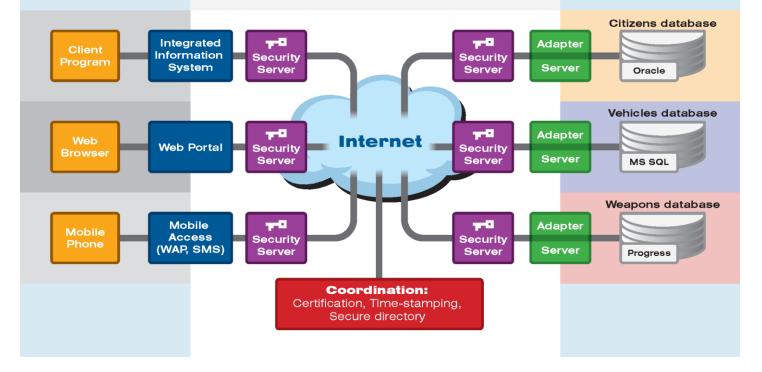
different operating systems, authentication and access methods

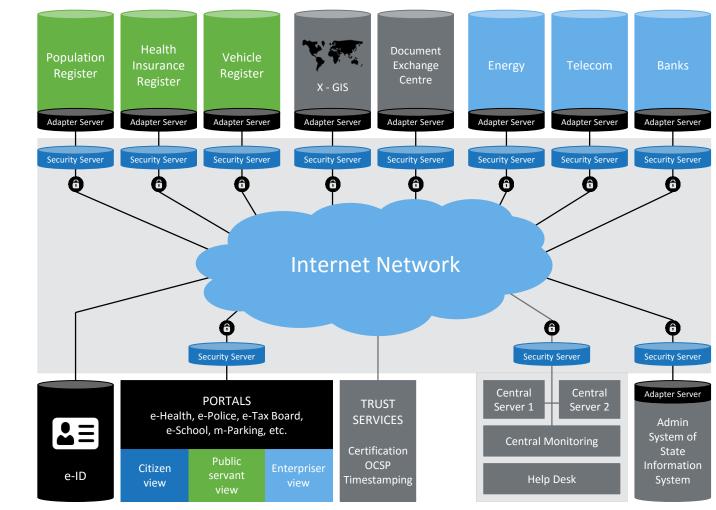
Unified security environment:

- 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



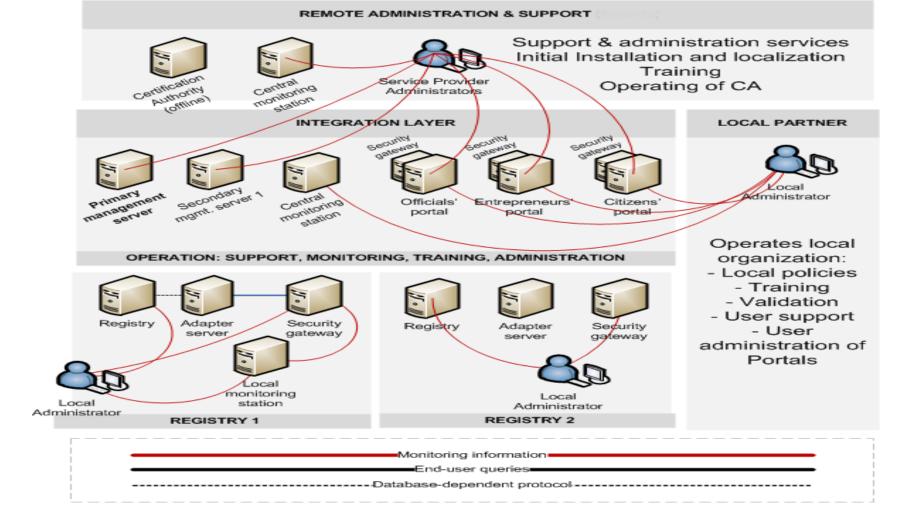


X-Road

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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;
- Gega.ee The security system



Digital ID and Signature Since 2002



Active cards: 1 265 423 >92% of the population Authentications: 431 537 431 Signatures given: 280 716 198

Source: <u>http://id.ee/en?id=30468</u>, 13/04/2016



mID (in SIM card)

Doesn't need software installed on PC

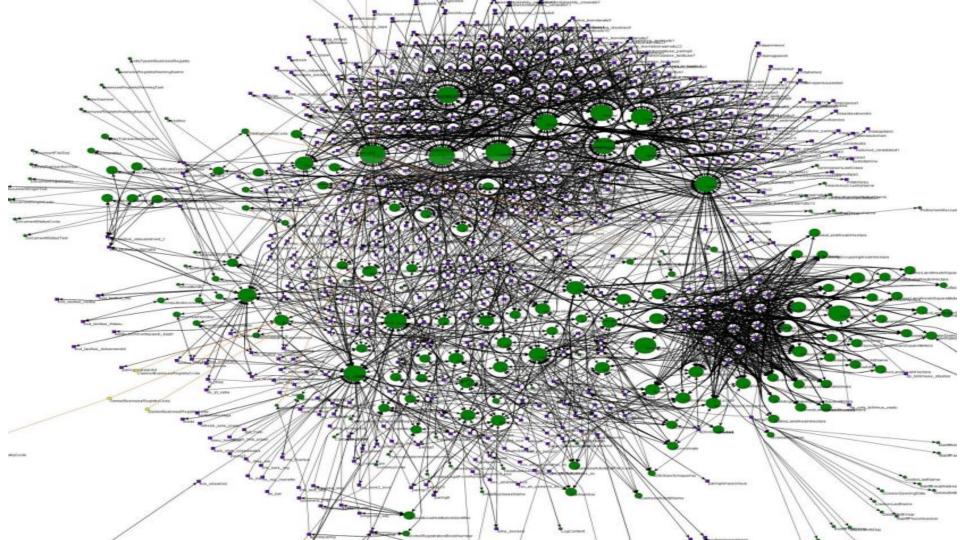
Doesn't need web browser support

Works on any handset

Can be supported by any operator







Thank You

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