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Interoperability and Infrastructure services in Estonia

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Interoperability solutions for European Public Administrations (ISA)

subtítulo del balión

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Ministry of Economic Affairs and Communiations, Estonia

Background

- 82 % householders have Internet

- 52% of population - heavy users

- All public sector institutions have web pages

- High level of Internet-banking (98%)

- All citizens have ID-cards (smart cards)

- 88% tax declarations were filled online

- Estonia - only binding Internet voting country

- Interoperability framework since 2004

Context

- Government program (political document)

- Information Society Strategy 2007-2013

- Implementation Plan: every year for two years

- Interoperability Framework

  - Main part: Strategical document

  - Parts: Architecture, Semantic Interoperability, Software, Interoperability of WWW, Security Framework, Interoperability of DMS

  - Guidelines

  -

Common Infrastructure

- Broad-bone EEbone

- PKI Infrastructure

- Data Exchange Layer X-Road

- Citizen portal, personalized portal

- Document Exchange Centre

- Registry of Registries, Catalogue of Services

- Address data infrastructure

- Infrastructure for spatial information

Broad-bone EEbone

- Eebone – public broadband network for state and local government, financed centrally

- Every public agency has right (no obligation) to use Eebone free of charge

- Clients pay only for access to the backbone

- End-users must look after the security of their local network themselves.

- Most governmental and local institutions are using EEbone.

PKI Infrastructure

- IDcard(2002), mobileID(2007), digital-ID(2010)

- IDcard is mandatory for citizens and for aliens

- Examples: logging, digital signature (all agencies accepts), @eesti.ee address, public sector correspondence Internet banking, Internet voting, loyalty card, ID-ticketing, ..

- We accepts users with Portuguese, Belgian and Finnish ID-card and Lithuanian Mobile-ID now

SOA based X-Road

- SOA based system that...

    - allows effortless access to the data in registries

    - without compromising the security of the data and

    - with minimal impact to the existing systems

    - with using web services as underlying technology

    - which design is driven by security considerations

- Registries (143) offer online WSDL services (over 2000) to the 60000 government and private organizations (87000000 times in year)

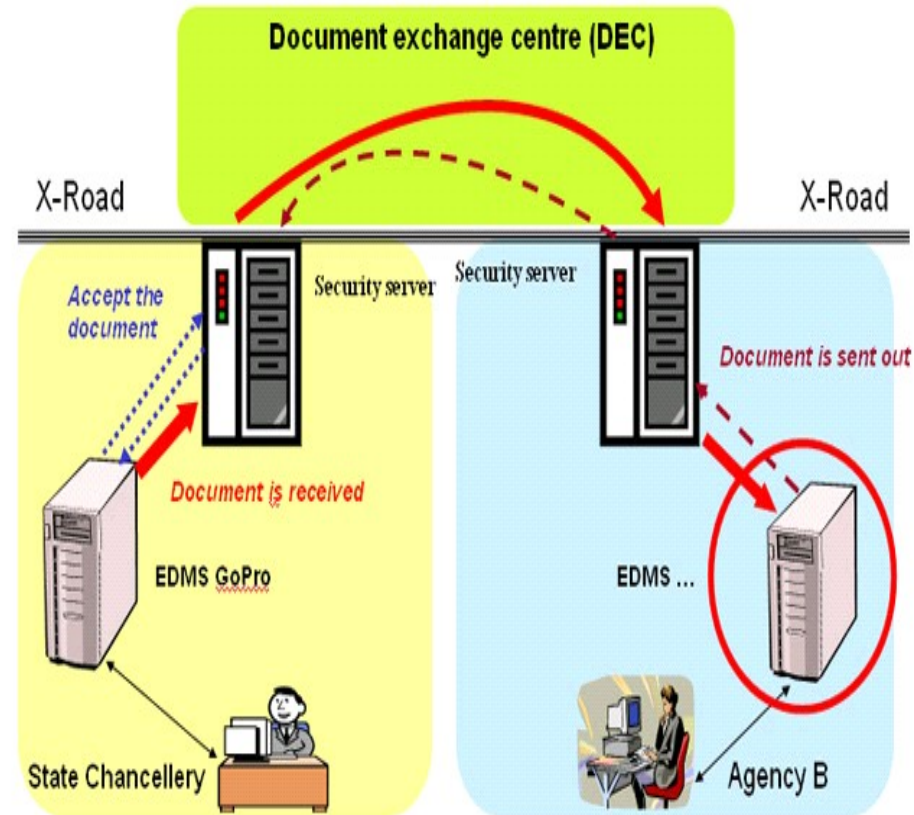- X-Road covers EU GPSM model requirements

X-Road architecture

Personal Portal
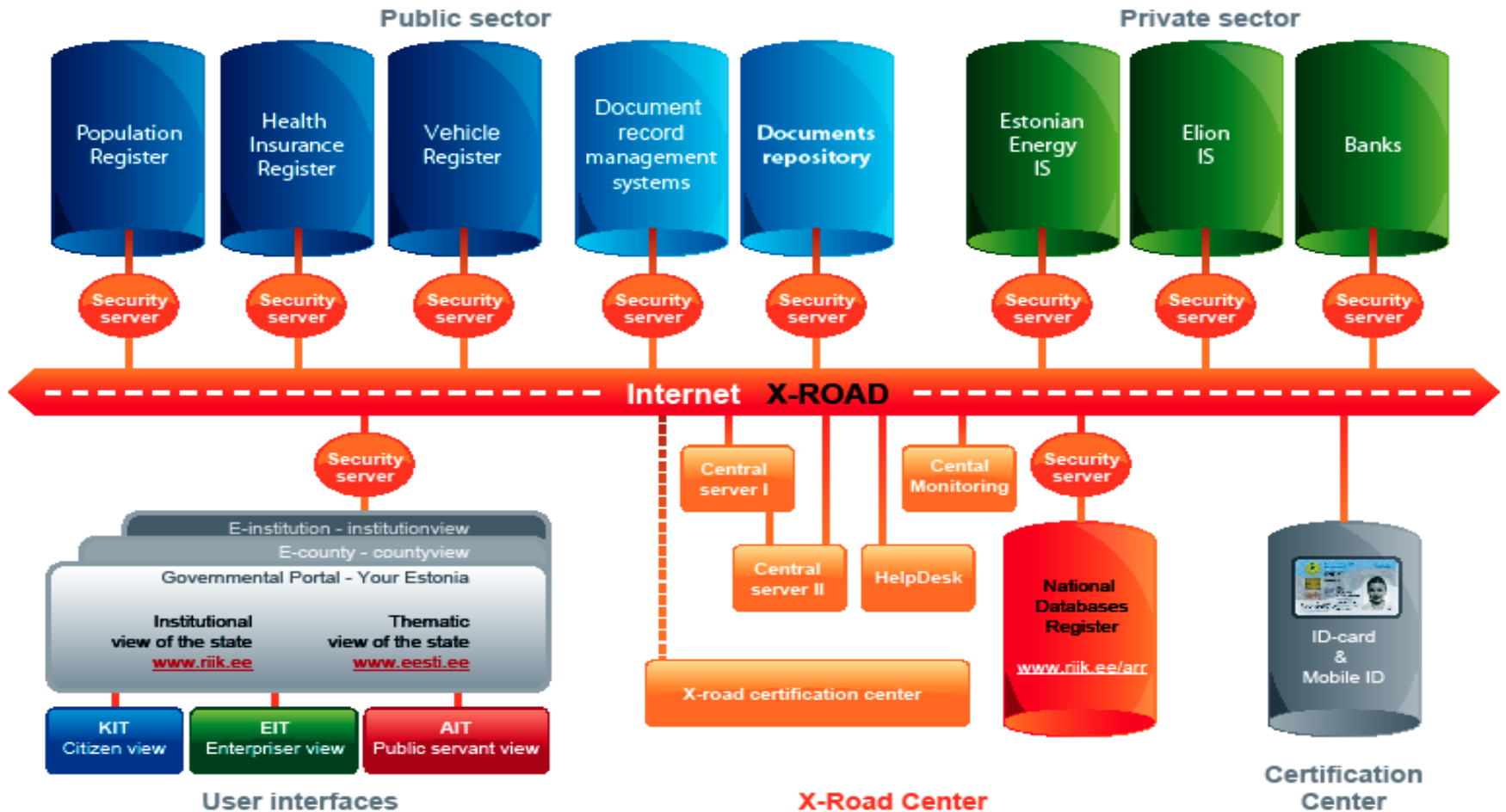
- Public part: rights and obligations of citizens

- Secure e-mail @eesti.ee

- Online services from registries over X-Road

- Notification services

- Personal Document Management system (pre-filled forms, case tracing)

- Personal area for signing and exchange signed documents

Document Exchange

- No more ordinary post
- No more scanners
- Cases are transferred without additional entry
- All EDMS have an interface to DEC
- Transport via X-Road

Document exchange through the document exchange centre

Document exchange centre (DEC)

X-Road

Accept the document

Security server

X-Road

Security server

Document is sent out

Document is received

EDMS GoPro

EDMS ...

State Chancellery

Agency B

Good Practice Label 2009

Catalogue of Services

- Administration System of State Information Systems (RIHA)

- Data about:registries, services, service consumers, semantic assets

- Workflow for assessment of registries

- Joining to X-Road

- Documentation of registries

- Description of services (SLA, WASDL)

Address Data

- We have common address data Infrastructure: addresses are entered once, addresses are in all registries in the same form, different forms are used in search

- An address service is any activity associated with address details

- Address services: X-Road services

- X-Road services are used for the normalisation of addresses

GIS Infrastructure

- Digital maps developed by the public sector are accessible and usable for all authorized users and for other information systems on the bases on open GIS standards.

- It is possible to use geoinformation data sources to provide new e-services.

End
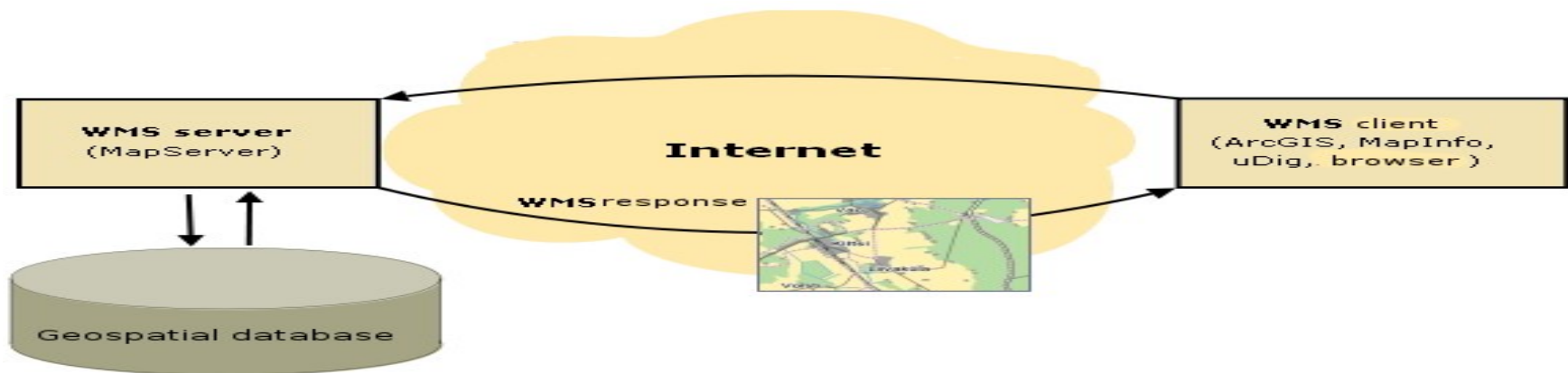
Thank you for your attention!

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