Interoperability, identity management an trust: the case of Estonia

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Estonia:

Capital: Tallinn

Inhabitants: 1.4 mln

Territory: 45,226 km²

EU member since May 1st, 2004

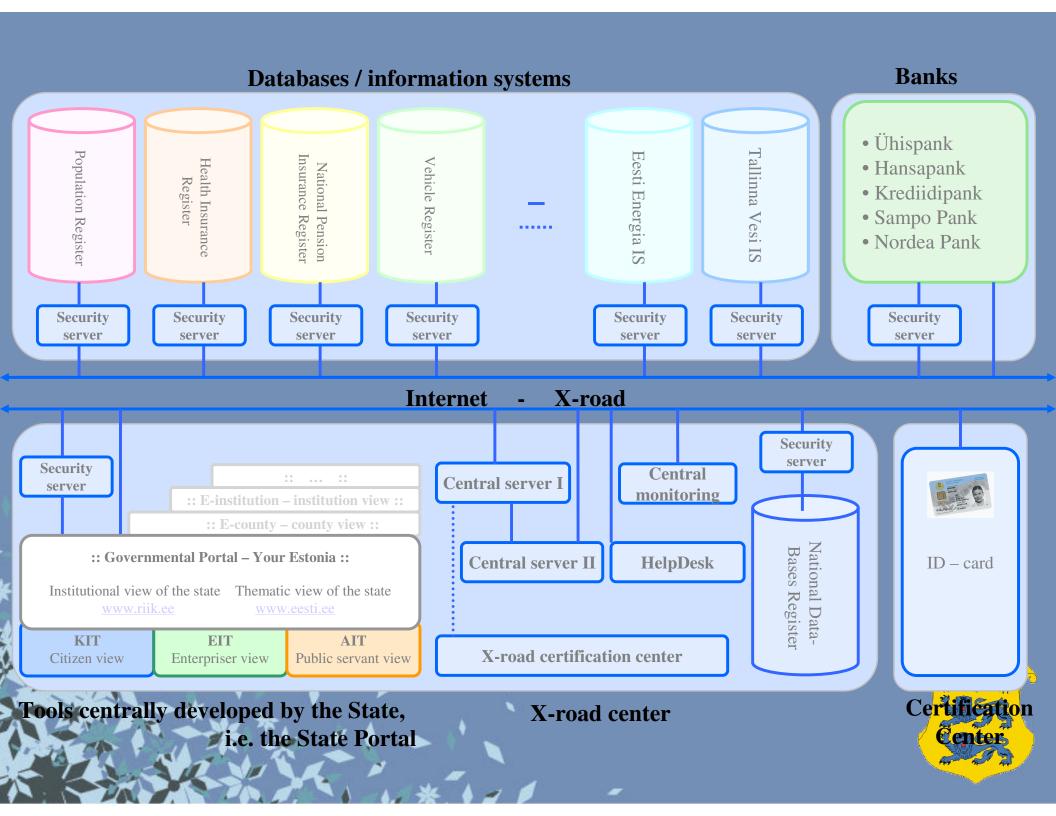
NATO member since April 2nd, 2004

Gov. declared IT test site 1996

E-stonia

- ICT expenditure on IT (% of GDP): 2,9% (2006)
- Households with Internet access: 50 % (2007)
- Enterprises with Internet access: 94 % (2007)
- Individuals using the Internet: 59 % (2007)
- E-government on-line availability: 80% (2006)
- Mobile phone's (per 100 inhabitants): 136 (2007)
- Share of digital transactions in banks: 98% (2007)
- Use of e-banking: 24,5% of all transactions (2007)





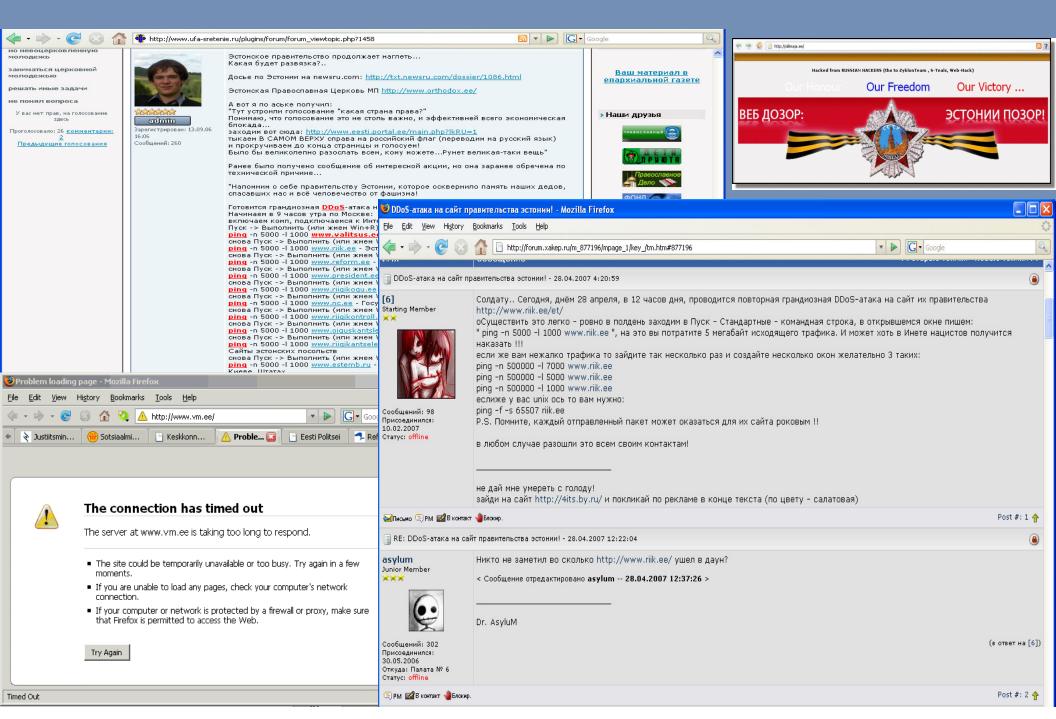
Cyber attacks

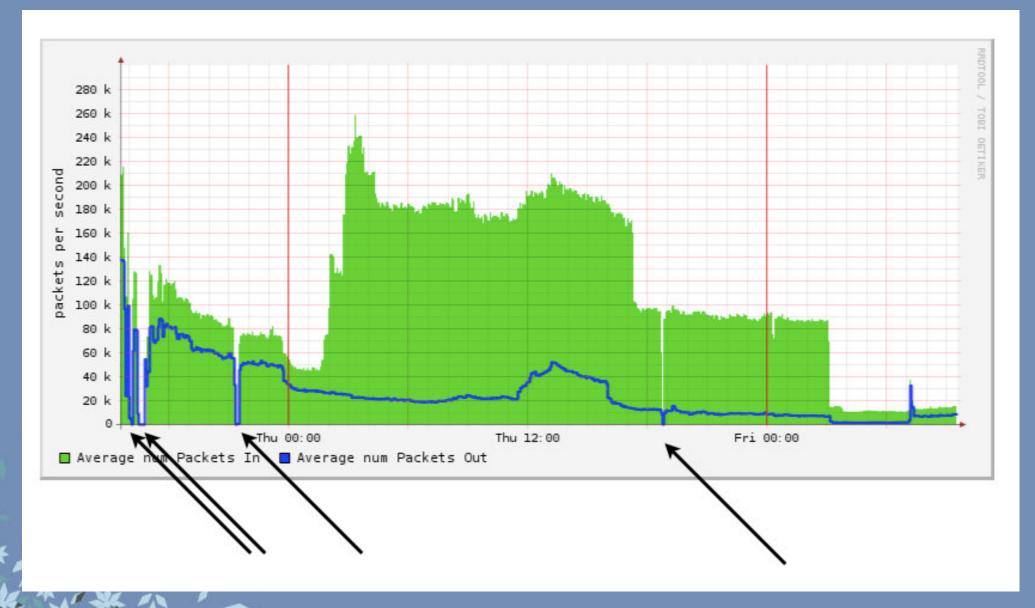
From April 27th to May 19th 2007





Calls and instructions







Sites attacked

www.mkm.ee (Ministry of Economic Affairs and Communications): unreachable www.peaminister.ee (Website of the prime minister): unreachable www.riigikogu.ee (Estonian Parliament): unreachable www.sisemin.gov.ee (Ministry of Internal Affairs): unreachable www.valitsus.ee (Estonian Government): unreachable www.vm.ee (Ministry of Foreign Affairs): unreachable www.agri.ee (Ministry of Agriculture): reachable www.envir.ee (Ministry of the Environment): reachable www.fin.ee (Ministry of Finance): reachable www.just.ee (Ministry of Justice): reachable www.kul.ee (Ministry of Culture): reachable www.mod.gov.ee (Ministry of Defence): reachable www.pol.ee (Estonian Police): reachable www.reform.ee (Party of the prime minister): reachable www.sm.ee (Ministry of Social Affairs): reachable

On May 10 2007 - we lost 50% of milk, bread and gasoline for 90 min!



Conclusions

- Conception of trust changed in the cyber society
- We are very tightly related to cyber room globally and dependent on e-services
- It's easy to organize the cyber attack
- Cyber attacks are very serious threat today and increasing threat in the future
- Critical Information Infrastructure Protection will be very important
- Partnership is important

Thank you for your attention!

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