



Estonian ICT

Reducing administrative burden

- ▶ Risto Hansen, ICT Demo Center

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ESTONIA

Population: 1.3 Million

Size: 45 227 km²

Capital: Tallinn

Language: Estonian

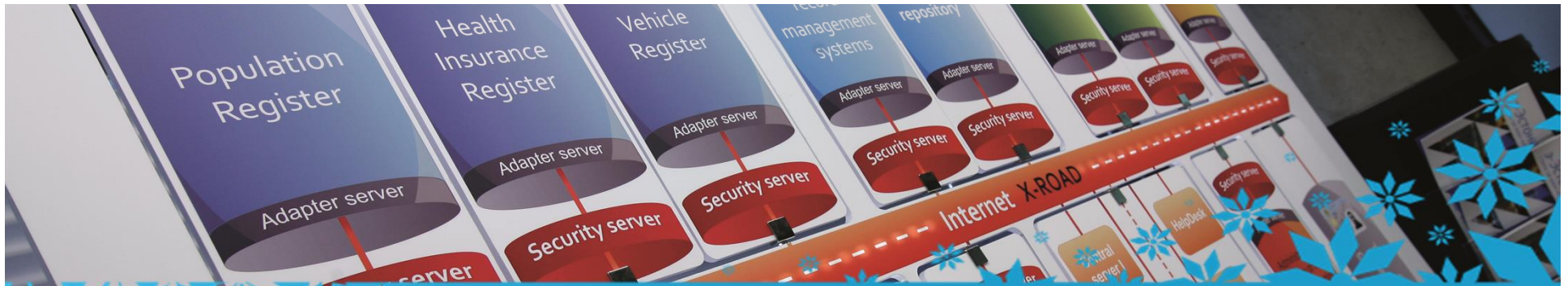
Member of EU

Currency: Euro

GDP: 18,5 BEUR

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ICT Demo Center NGO

Community of ICT companies promoting digital society, cooperation and wider usage of information and communication technology

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guardtime
guardtime.com

ICEFIRE

ANDMEVARA
Eesti e-riigi edendaja

CYBERNETICA

NORTAL

Helmes

aktors II

TECHNOPOLIS
ÜLEMISTE

EESTI POST

elisa

adcash
Advertising network

sigwise

CLEVERON
TECHNOLOGY FOR LOGISTICS

SK



Columbus®
Once you know how...

HireRight

TALLINN UNIVERSITY OF
TECHNOLOGY

NASDAQ OMX™

GoSwift
QUEUE MANAGEMENT SERVICE

gemalto
security to be free

Microsoft®

TRUB
BALTIK AS

Elion

MOB

SpinTEK

../dothouse

Santa
Monica
Networks

SeeMe

REAL SYSTEMS

Hi, I'm eKool

CISCO

#HITSA

MAINOR

NOW!
INNOVATIONS

SCALEWIRELESS

DATEL®
WHEN IT INSPIRES

skype™

NET GROUP
Business class IT solutions




Ülemõis
TARGA ARI LINN
SMART BUSINESS

Elion

Microsoft

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WELCOME
TO ESTONIA™



Information society indicators

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Information society indicators

100% of schools and government
organizations are ICT equipped

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Information society indicators

97% of businesses use computers

76% of families have computer at home

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Information society indicators

Entire country is covered with a broadband 76% of homes have broadband

Three 3G and 4G networks
Free public WIFI areas

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Internet access
is a social right

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Information society indicators

99,8 % of bank transfers are
performed electronically

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Information society indicators

95% of income tax declarations made via the e-Tax Board

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Information society indicators

31,4% of votes were cast over
the internet on 2014

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Information society indicators

95% of medication is bought with a digital prescription in 2013

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Information society indicators

66% of the population participated in the census via internet



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E-Identity

ID-card and Mobile-ID

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ID-Card

- “ 2002 - introduction of national electronic ID-Card
- “ More than 93% of the population has one
- “ Compulsory for all residents



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ID-Card contains:

- “ Information shown on the card
- “ Certificate for authentication (along with e-mail address
Forename.Surname@eesti.ee)
- “ Certificate for digital signature



Mobile-ID

Introduced in 2007

Enables secure authentication and digital signatures via mobile phone

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Digital Signature

State Portal

e-Pension Account

Land Register

e-Banking

Business Register

i-Voting

**Tax and Customs
Board**

ID-Ticket

e-Health

e-Police

Customer Self Service Portals

e-School

e-Border queue management

e-Invoice

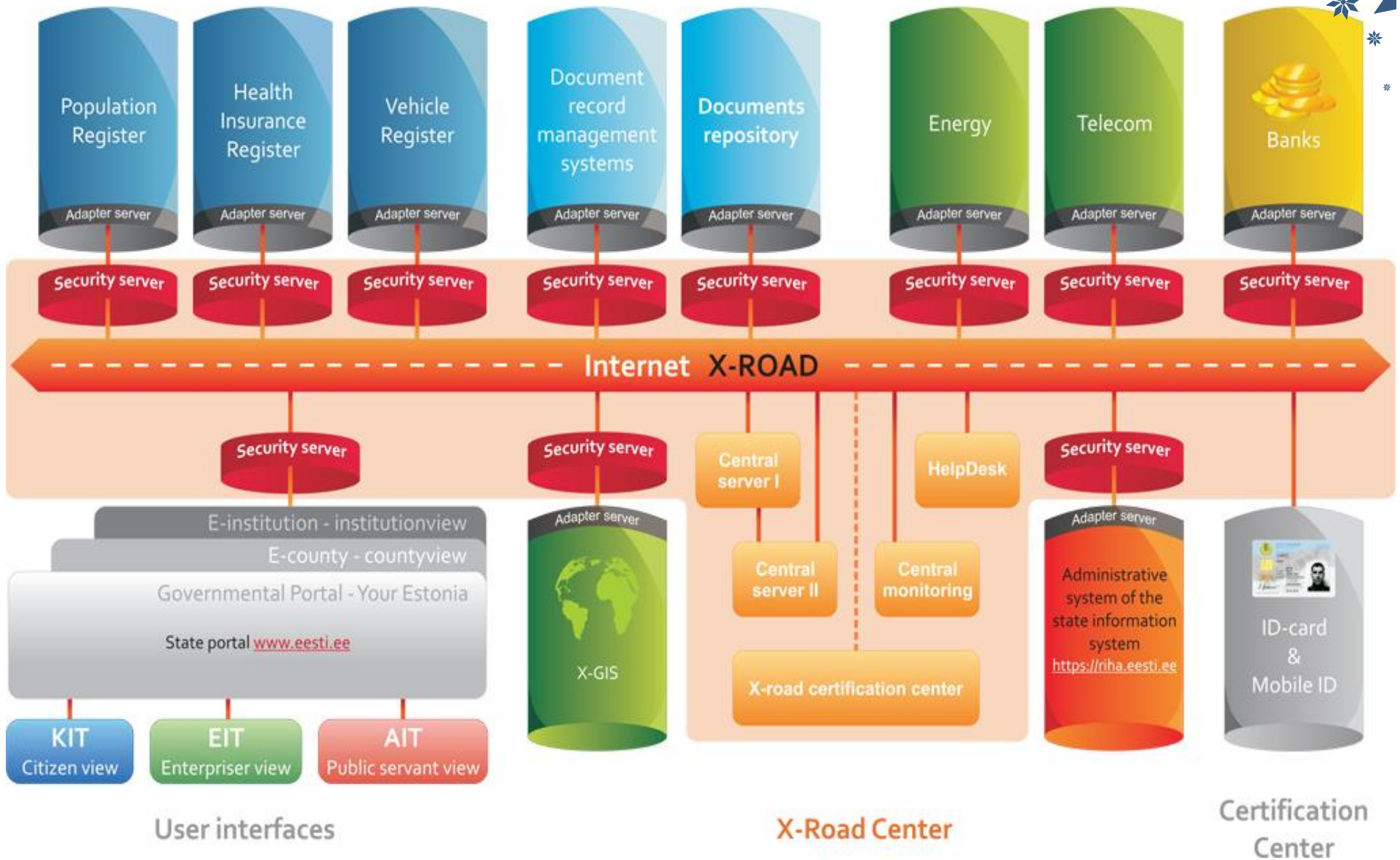
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Public sector

Private sector



Security, Trust & Verification



KSI technology introduced in 2007

Provides Unbreakable and Undisputable Integrity

Preserves the long-term history of security events and important digital assets

Ensures, you don't have to trust administrators to check the integrity of digital data

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Some achievements

2000: Launch of e-Tax Board

2000: Launch of m-Parking

2003: Launch of ID bus ticket

2005: i-Voting was introduced

2007: Launch of e-Police system

2008: Launch of e-Health system

2010: Launch of e-Prescription

2013: X-Road Europe introduced

2013: Online Border-Crossing
Queue System

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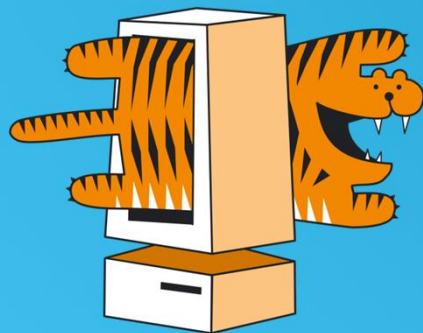


How
we got
there?



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WEL
COME
TO EST
ONIA™



TIIGRIHÜPE

1996: Tiger Leap Foundation
to support ICT in schools

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vaata maailma

maailma vaata

2001: Look@world starts to build
500 Public Internet Access Points

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A large crowd of people is gathered at an outdoor festival. In the foreground, a large Estonian flag (blue, black, and white horizontal stripes) is flying. The background features a large, dark, dome-shaped structure, possibly a stage or a building, under a blue sky with scattered white clouds. The scene is set outdoors with trees visible on the right side.

**2002
2009 & 2010**
Computer
courses
for 10% of adult
population under
Look@world
project

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A close-up photograph of a baby wearing a VR headset. The baby's mouth is open in a surprised or excited expression. The VR headset has a large, glowing blue lens. The text "What is next?" is written in white, sans-serif font across the center of the lens. The background is a soft-focus pattern of light-colored fabric with small animal prints. The image is framed by a blue border on the left and top, decorated with white and blue snowflake patterns.

What is next?

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EstWin:
2017: 100 Mbps Internet
to every home

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Using ID-Card as a loyalty card

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- “ e-Receipt
- “ Official e-mail = physical address
- “ Mobile-ID + NFC
- “ Virtual resident
- “ Data Embassy
- “ Cross Border e-Services

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Thank you!

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