Estonian ICT

Reducing administrative burden

it’s much more fun to go out and get
Problems **than in a doctor’s waiting room**

INFORMATION SOCIETY INDICATORS

INFORMATION SOCIETY INDICATORS

100% of schools and GOs have computers
97% of business happens online

80% of families have home access to PCs

98% of income tax declarations made via the e-Tax Board
over 30% of votes were cast over the internet on 2015

important decisions

no matter what the weather does!

Fresh Air and Free Wifi
3G
4G

Internet
access is a
social right!

e-Identity

EESTI VABARIIK
MÄNNIK
MARI-LIS
EST
01.01.1971
47101010033
ASO011376
03.02.2018

ID-Card

- 2002 - introduction of national electronic ID-Card
- More than 94% of the population has one
- Compulsory for all residents

ID-Card

Contains:

Certificate for authentication
(along with e-mail address Forename.Surname@eesti.ee)

e-estonia.com
The digital society

WELCOME TO ESTONIA™

ID-Card

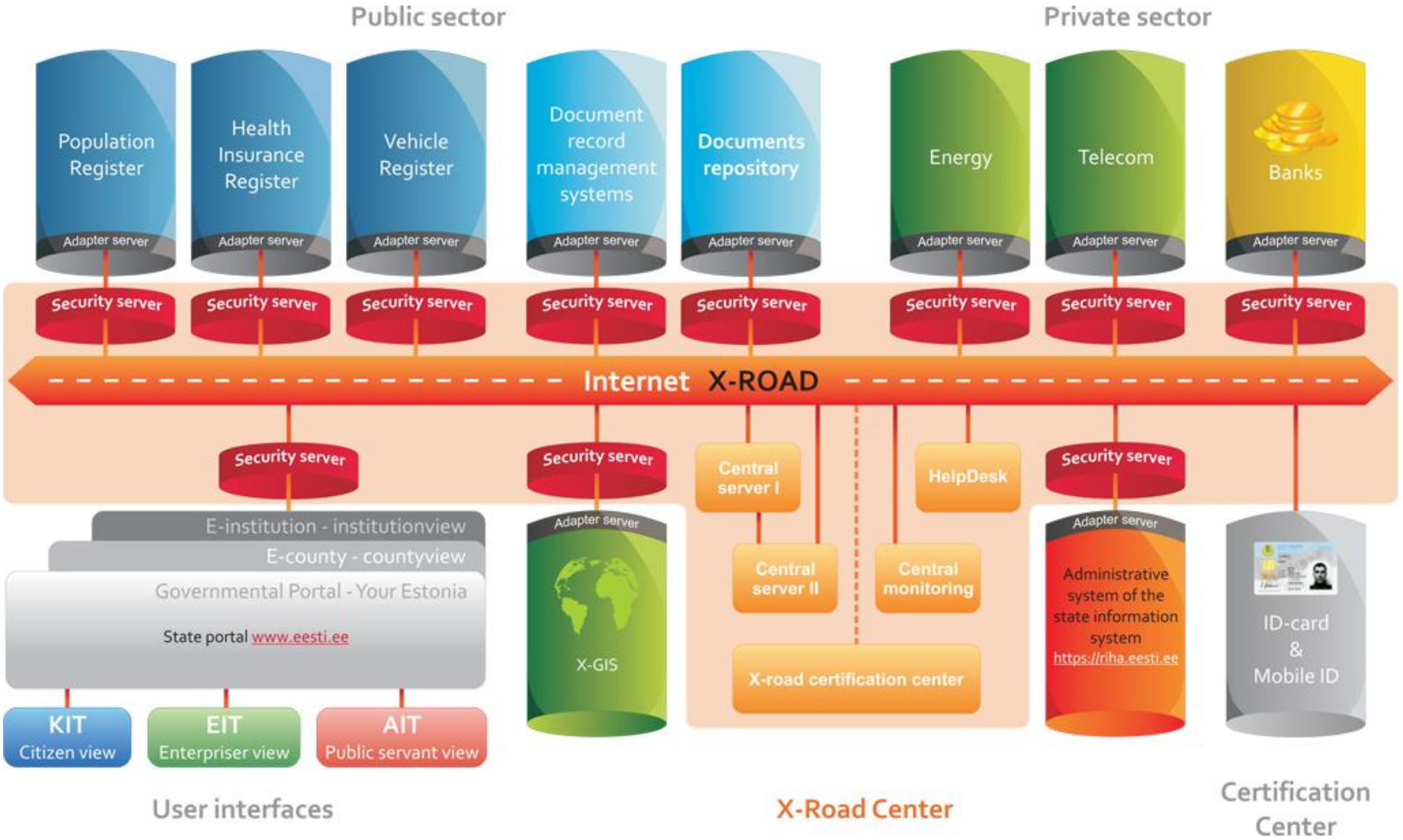
Contains:
Certificate for digital signature

e-estonia.com
The digital society

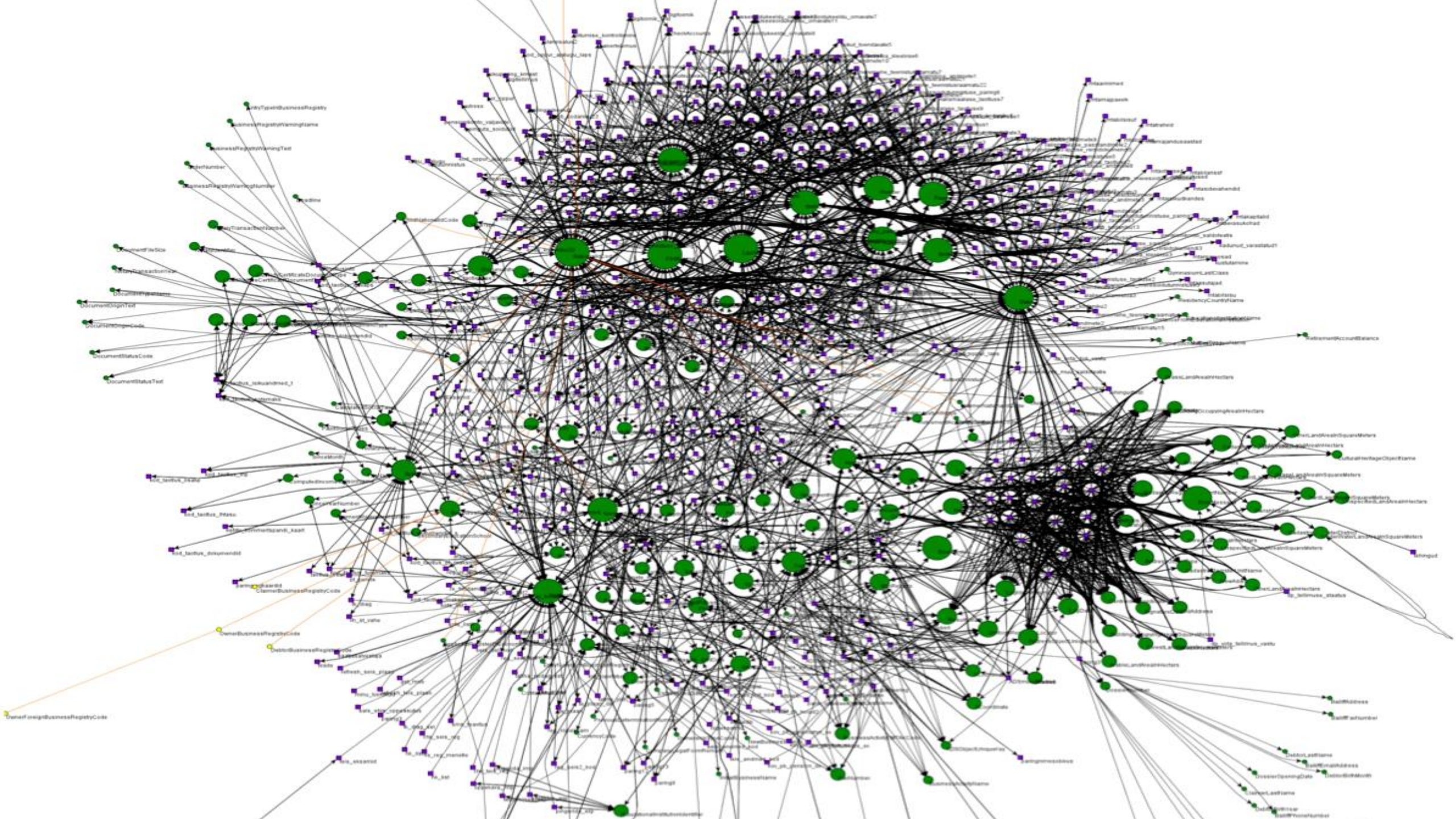
Mobile-ID

Introduced in 2007

Enables secure **authentication** and **digital signatures** via mobile phone



X-Road was launched in 2001



What matters is

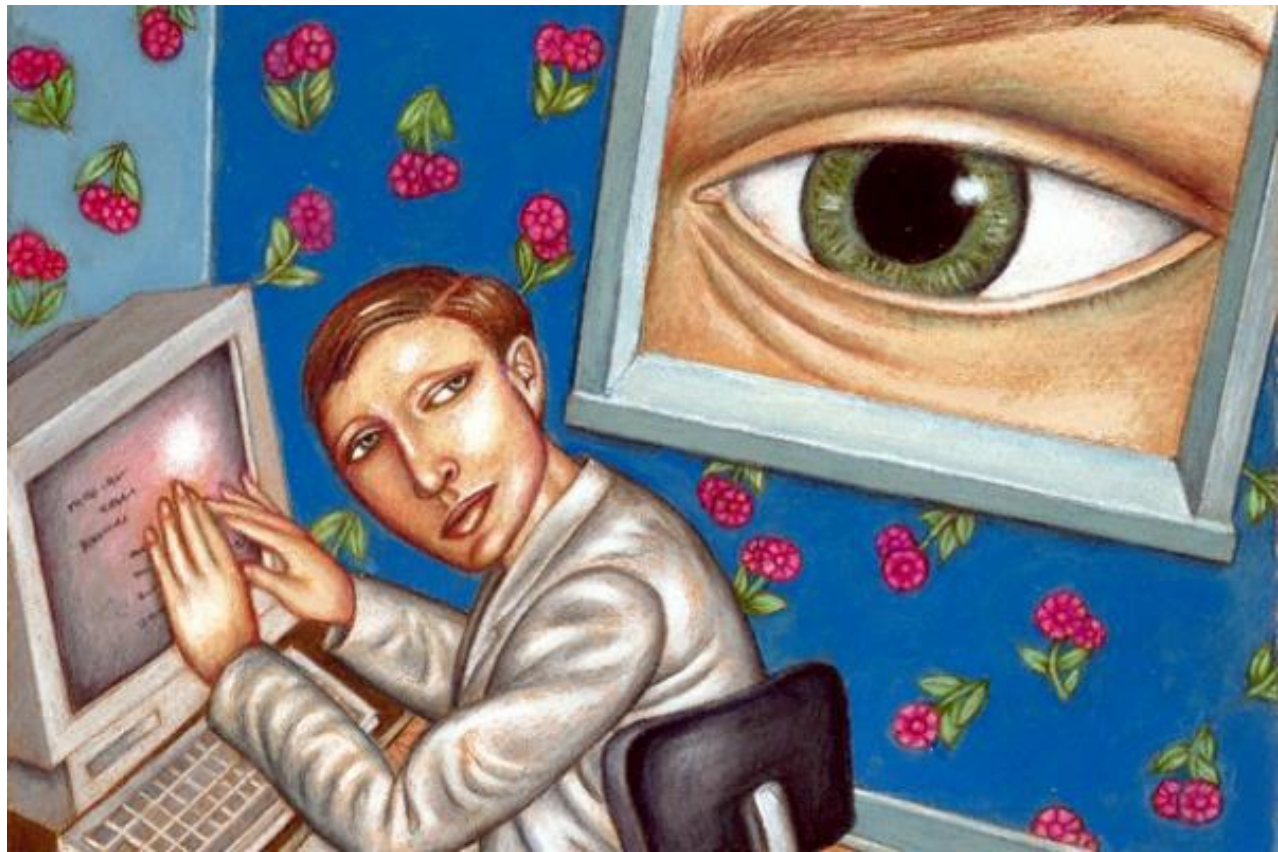
CONTROL,

not CONFIDENTIALITY

everybody must be able

to check, who, when and to what purpose has

used his/her data



Don't be late unless you want your IT-systems to turn into a pumpkin....
12:02
Zzz

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

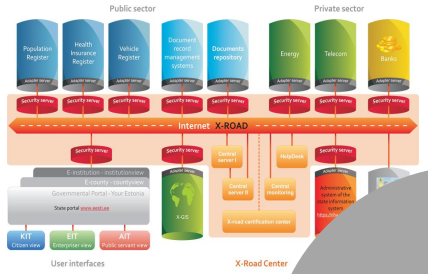
guardtime

CIA Triad

Preventing the disclosure of information to unauthorized individuals or systems.

Confidentiality
ID-card
Mobile-ID

Making sure that the computing systems, the security controls, and the communication channels are functioning correctly.



Security Model

Maintaining and assuring the accuracy and consistency of systems and data

Availability
X-road

Integrity
KSI

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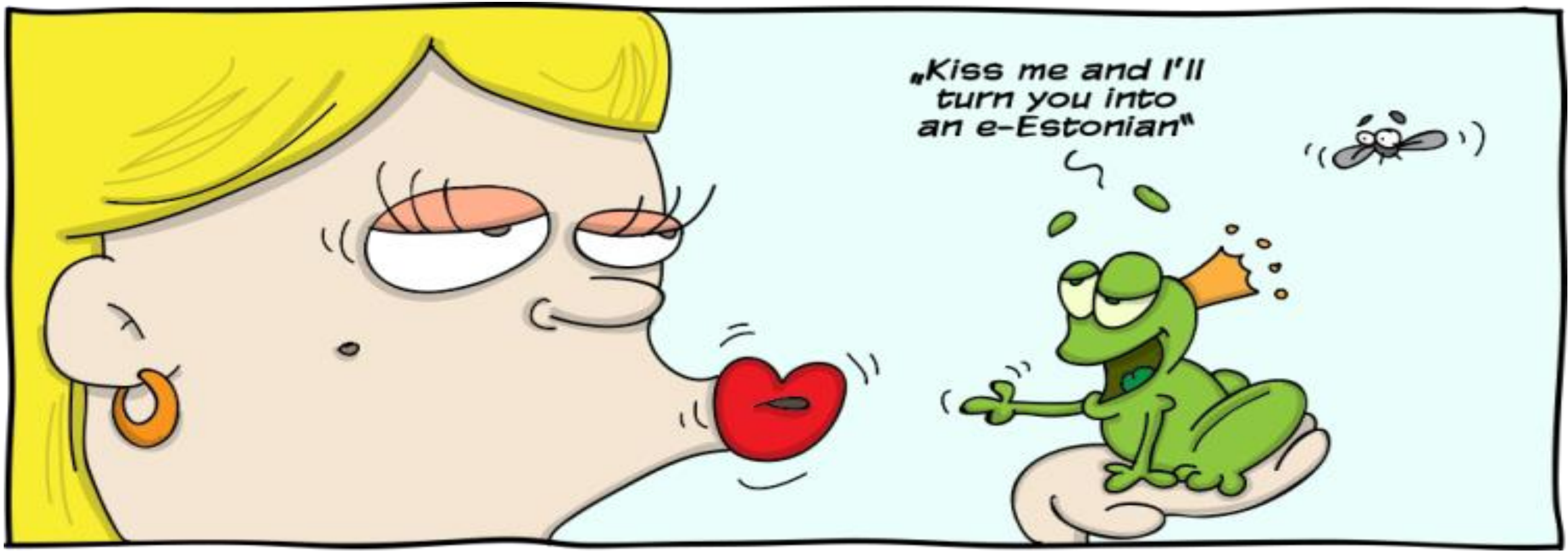
WELCOME TO ESTONIA

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

e-estonia.com
The digital society

Introducing: e-residents (e-Estonian)



EESTI VABARIIK
REPUBLIC OF ESTONIA
DIGITAALNE ISIKUTUNNISTUS
DIGITAL IDENTITY CARD
LUCAS
EDWARD
30.11.2017
N0100001
36205030034
KEHTIV KUNI / DATE OF EXPIRY
DOKUMENDI NUMBER / DOCUMENT NUMBER
ISIKUKOOD / PERSONAL CODE
AINULT ELEKTROONILISEKS KASUTAMISEKS
ELECTRONIC USE ONLY
Your key to e-Estonia

HOW WE
GOT THERE?

1996: Tiger Leap Foundation to support ICT in schools

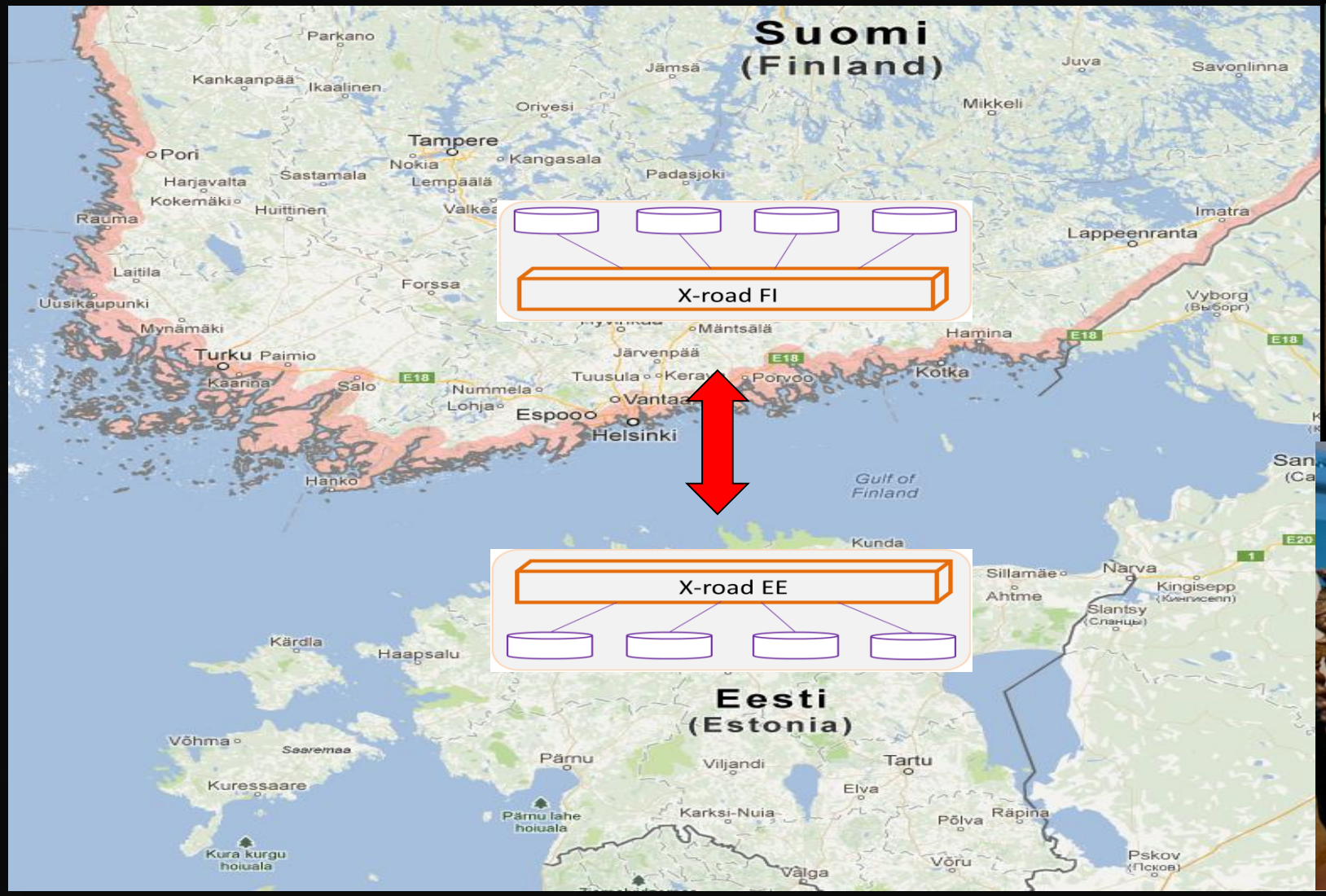
2001: Look@world starts to build 500 Public Internet Access Points

2002, 2009 & 2010

Computer courses for 10% of adult population under Look@world project

What´s Next?

Cross-border e-services



ICT_MoU_FI-EE_10dec2013.bdoc

DigiDoc³ KLIENT

Settings | Help | About | English

Use ID-card Use Mobile ID

No card in reader

Check if the ID-card is inserted correctly to the reader.
New ID-cards have chip on the back side of the card.

Container:C:\Users\Indrek\Desktop\Dropbox\Showroom ...oonid\Indrek\ICT_MoU_FI-EE_10dec2013.bdoc Save

Container content:

ICT_MoU_FI-EE_10dec2013.odt 20 KB

Save files to disk

Signatures

Jyrki Katainen
/ I agree
Signed on 10. December 2013 time 11:11
Signature is Show details
Remove

Andrus Ansip
Signed on 10. December 2013 time 11:04
Signature is valid Show details
Remove

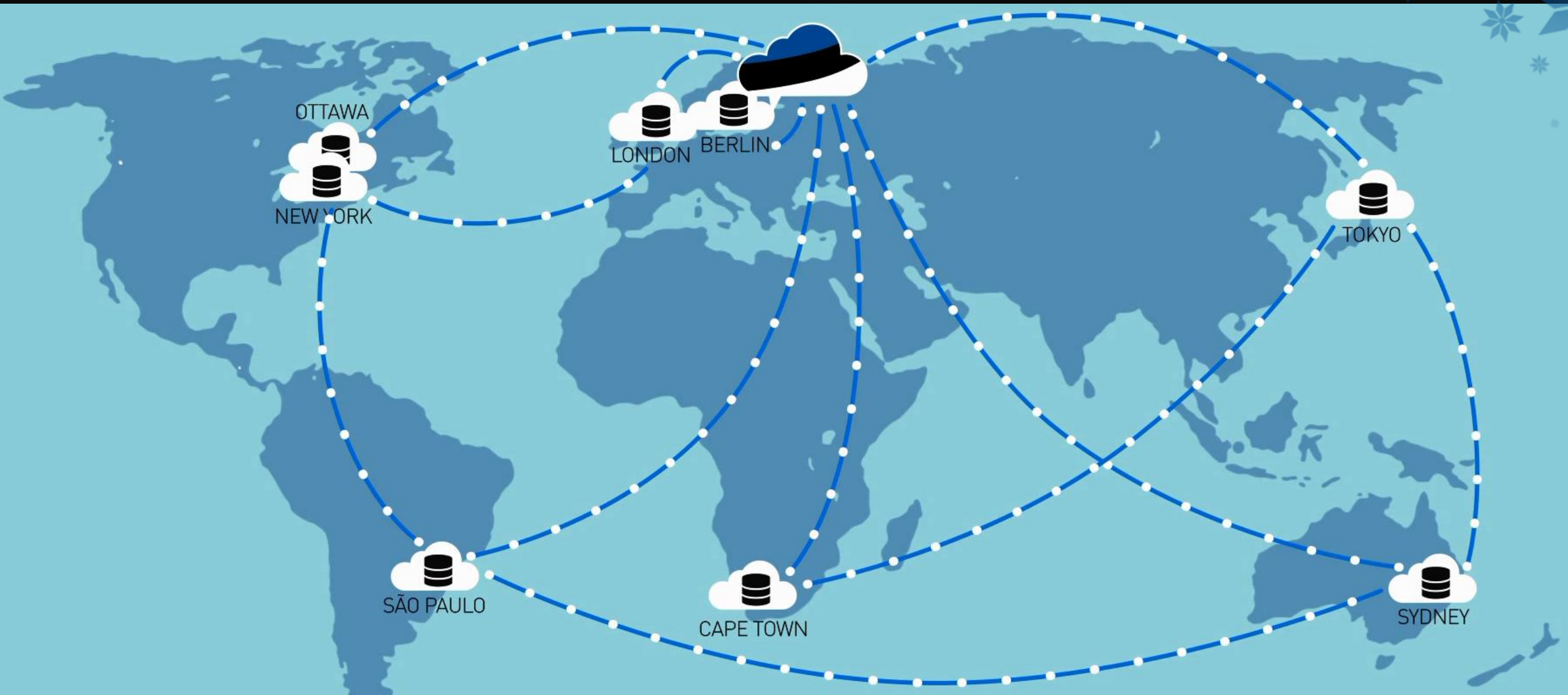
Send container to email
Browse container location

Print summary
Encrypt document

Add signature | Close

e-Receipt

Data Embassy



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