

I&R through the X-road

VALDEKO PAAVEL, DVM

ESAVA LEMMIKLOOMAREGISTER, ESTONIA

Käesolev lepingu lisa on sõlmitud 01.11.2019

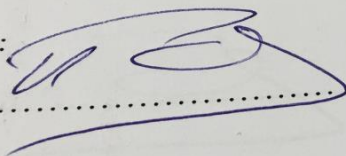
Loomade Kiirabiklinnik OÜ, asukoht Mustamäe tee 44, Tallinn, registrikood 11069394
(edaspidi nimetatud Tööandja), keda esindab ettevõtte juhatuse liige Valdeko Paavel,
isikukood 37612232718 ja Elen Nurmetalu isikukood 48411105247 (edaspidi nimetatud
Töötaja) sõlmisid käesoleva töölepingu lisa alljärgnevatel tingimustel:

Muudetud Töölepingu punkt:

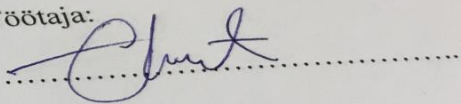
3.2.
Töötaja brutotöötasu täiskohaga töötamise korral on 1100,00 (üks tuhat ükssada EUR) alates
01.11.2019.

Töölepingu lisa on töölepingu lahutamatu osa.

Tööandja:



Töötaja:



Tallinn,
01.11.2019



What's
this?

Yesterday!

—

X-road

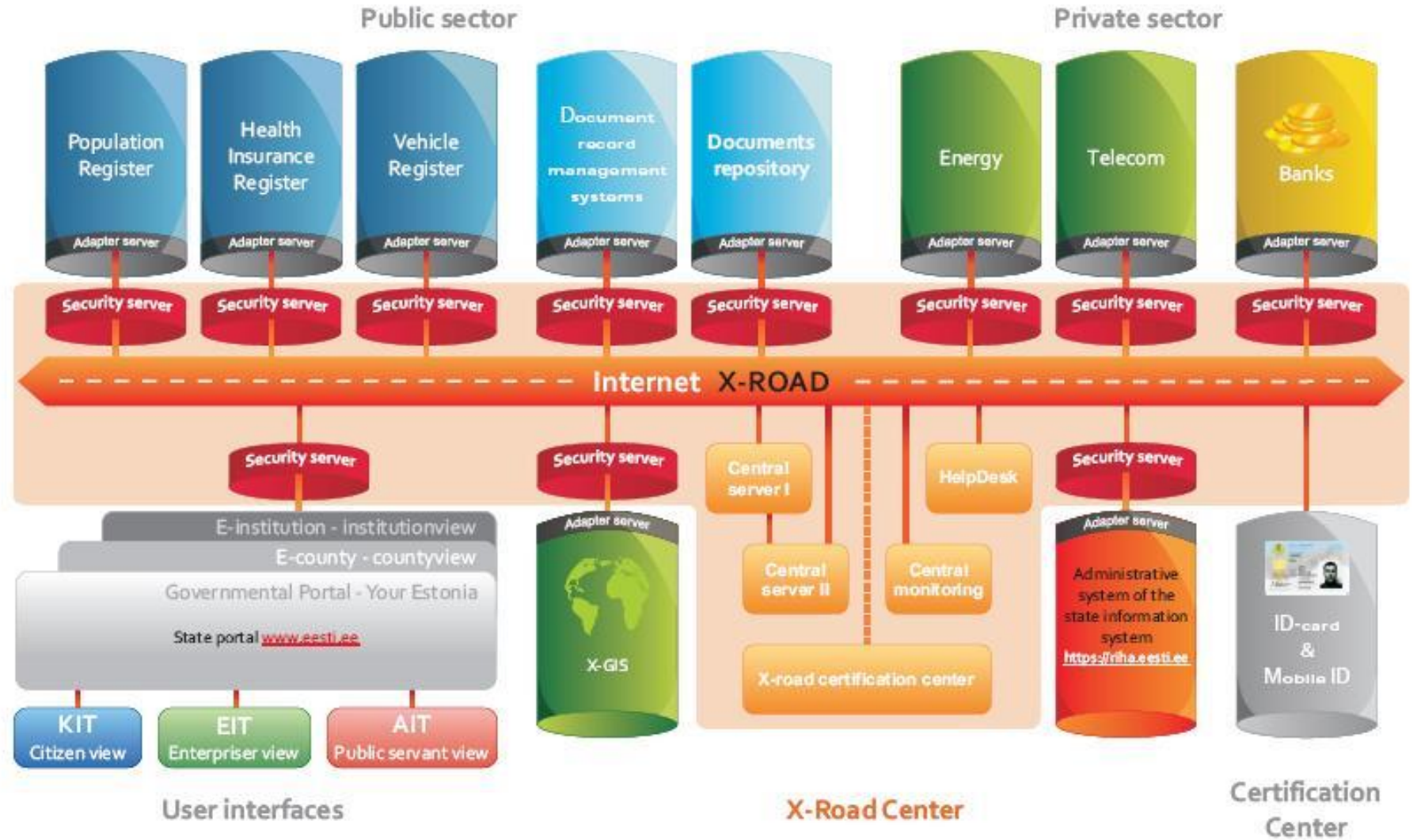
e-Estonia.com

- ▶ The 21st century citizen-centred state and service-oriented society requires information systems to function as an integrated whole to support citizens and organisations. There must be interoperability between different organisations and information systems.
- ▶ In other words they must be able to work together and data only needs to be requested from the citizen once. Estonia's solution for maintaining a modern State is X-Road, which saves Estonians 1400 years of working time every year.



Estonian Informatics Centre

Estonian information system



eIDAS

The Council of the European Union and the European Parliament have adopted the eIDAS regulation (regulation for trust services necessary for electronic identification and electronic transactions) with the purpose of simplifying cross-border use of electronic services. This facilitates the achievement of a common digital market and a functioning digital economy. The regulation mainly addresses public electronic services.

The eIDAS regulation aims to create a level of trust in the digital world that would equal that of the physical world. To achieve that, common principles on the acknowledgment of electronic identity and digital signatures were established for European public institutions. The comparability, recognition, and common grounds for operation are also ensured for trust services.

Pursuant to the regulation, all Estonian state and local government institutions and private companies who provide public services must recognise digital signatures from all EU members as of 1 July 2016.

Similarly, other public sector institutions of EU Member States must accept digital signatures provided by Estonian citizens. Digital signatures of EU citizens that are equal with nationally used digital signatures must be accepted.

Requests this month*

As of 1 Oct 2019

53,449,727



Latest month*

180,855,017

Previous year

985,878,107

Requests to date*

5,370,032,807

706

consecutive days of smooth X-Road experience in Estonia*

As of 2001, the protocol has been amended only 4 times

* Based on data from 1 Oct 2019



The X-Road in Estonia has:

- 487 institutions and enterprises
- 151 public sector institutions
- ca 52,000 organizations as indirect users of X-Road services
- 1,229 interfaced information systems
- 244 security servers installed by members

Number of services that can be used via the X-Road

2,810

Every party who provides services offers 6 services on average



Designed to be secure

Traditional attacking vectors cannot be used with the X-Road due to its structure and architecture

X-Road implements the following security technologies

XAdES, ASIC, VPN, RSA, TSL, RFC3161, OCSP, PKI



5 most popular* service providers

- 10,292,462 EE/GOV/74000091/rets
- 10,050,450 EE/GOV/70000349/tor
- 9,765,239 EE/GOV/70009770/digilugu
- 8,466,752 EE/GOV/70000310/arireg
- 7,688,148 EE/GOV/70008440/rr

Most popular platforms of information systems that have been interfaced with the X-Road



* By query count towards the service provider in last month

Current conventional DB

- ▶ Username
- ▶ Password

Better than nothing. Works well for pet&owner reunion

Secure?

International puppy trade?

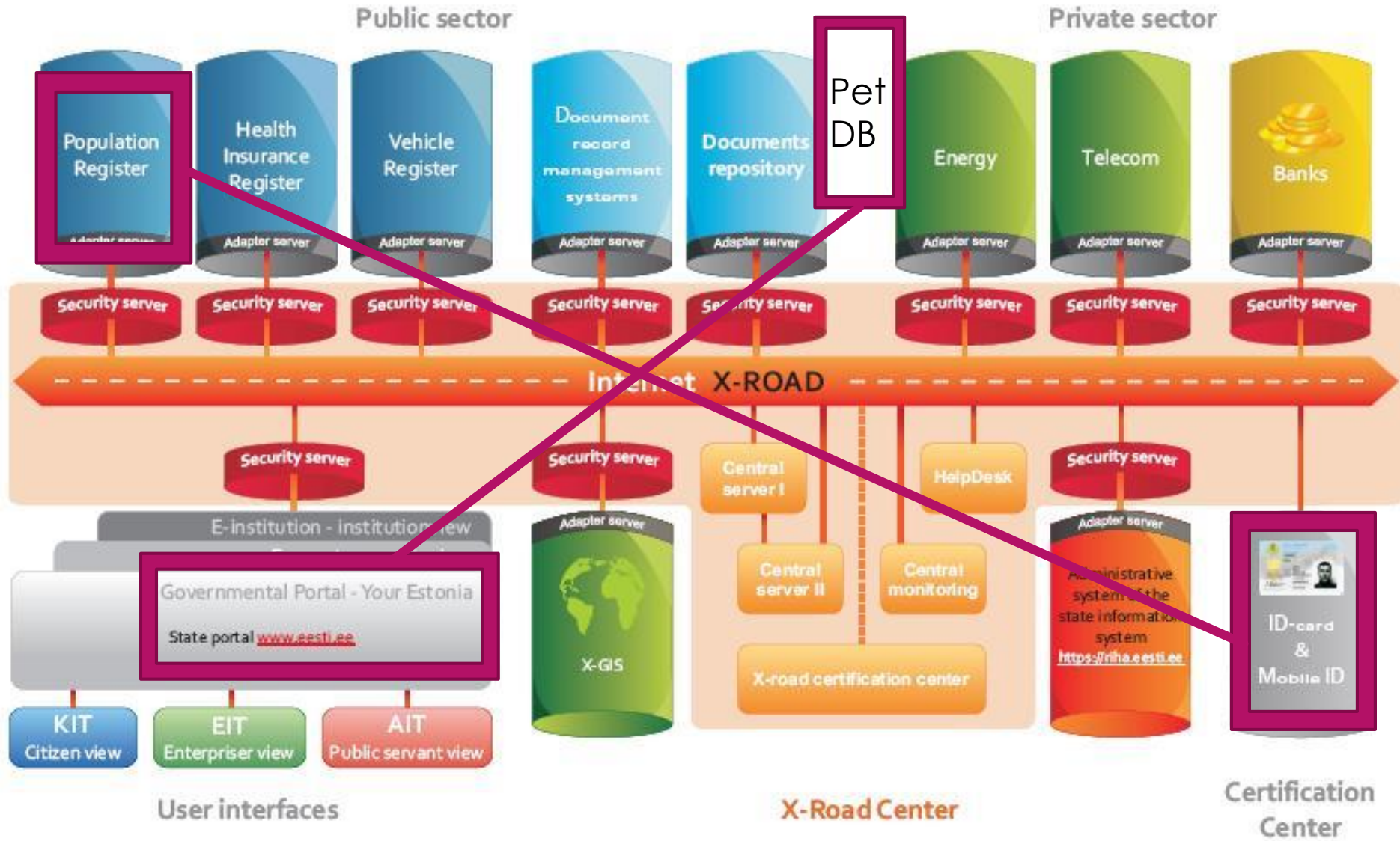
Travelling?

X-road



Estonian Informatics Centre

Estonian information system



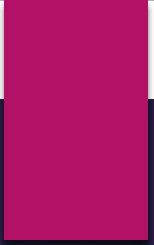
Digital signature-are we there yet?

- ▶ Mobile ID
- ▶ Smart ID
- ▶ ID card

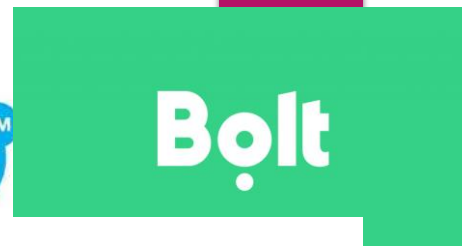
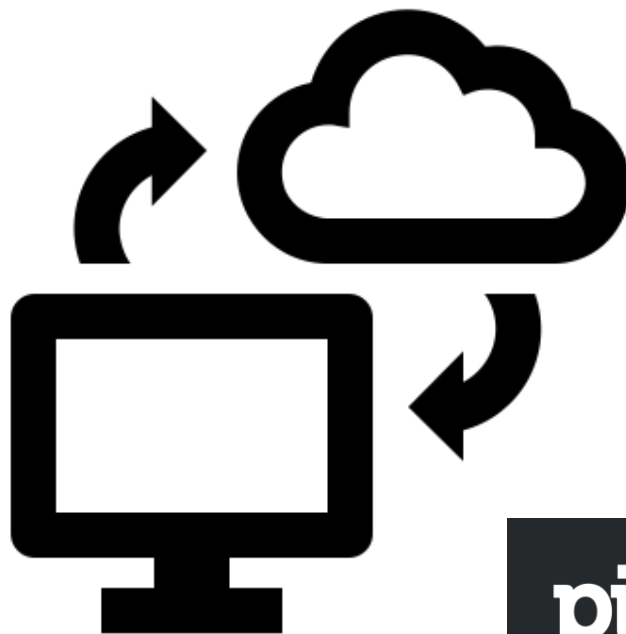
- ▶ E-passport
- ▶ PanEuropean digital track (X-roadish something...)
- ▶ Centralized DB - EuroPetNet
- ▶ Mandatory I&R
- ▶ Keep looking for new solutions

Who's most dangerous on that slide?

An advertisement for "All Star French Bulldogs". It features four French Bulldog puppies sitting in a row against a black background. The text above the puppies reads "All Star French Bulldogs" and "Quality, Champion Bred AKC Registered Frenchies". Below the puppies, it says "MADE IN THE USA - NO IMPORTS!!!" and "Puppies Occasionally Health Guaranteed." followed by "am/ Fawn/Pieds & Brindles website for lots of information and pictures. : www.allstarfrenchbulldogs.com". The entire advertisement is framed with a decorative border of red, white, and blue stars.



What else
do we
have in
Estonia?



What else do we have in Estonia?



Thank
You!