

BMAイブニングセッション  
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# 未来型国家エストニアの挑戦

Raul Allikivi  
Planetway Corporation 取締役  
日本・エストニア/EUデジタル  
ソサエティ推進協議会 理事



ラウル・アリキヴィ氏が講演中

## 情報社会指標



# Leadership in cyber security



**CCDCOE**

Cooperative Cyber Defence  
Centre of Excellence  
Tallinn, Estonia

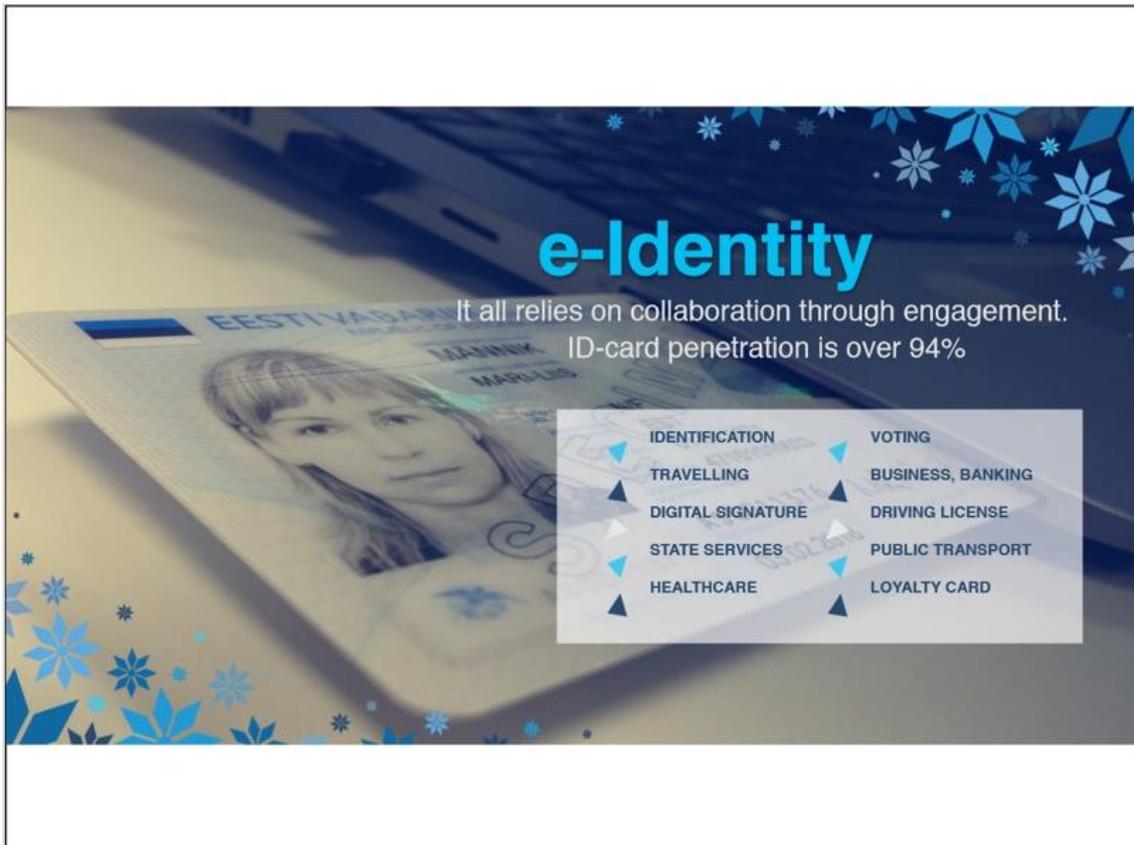
2008



**EU's IT agency  
for justice and home affairs**

2012





**e-Identity**  
It all relies on collaboration through engagement.  
ID-card penetration is over 94%

IDENTIFICATION	VOTING
TRAVELLING	BUSINESS, BANKING
DIGITAL SIGNATURE	DRIVING LICENSE
STATE SERVICES	PUBLIC TRANSPORT
HEALTHCARE	LOYALTY CARD

## 国民ID制度と電子政府の影響

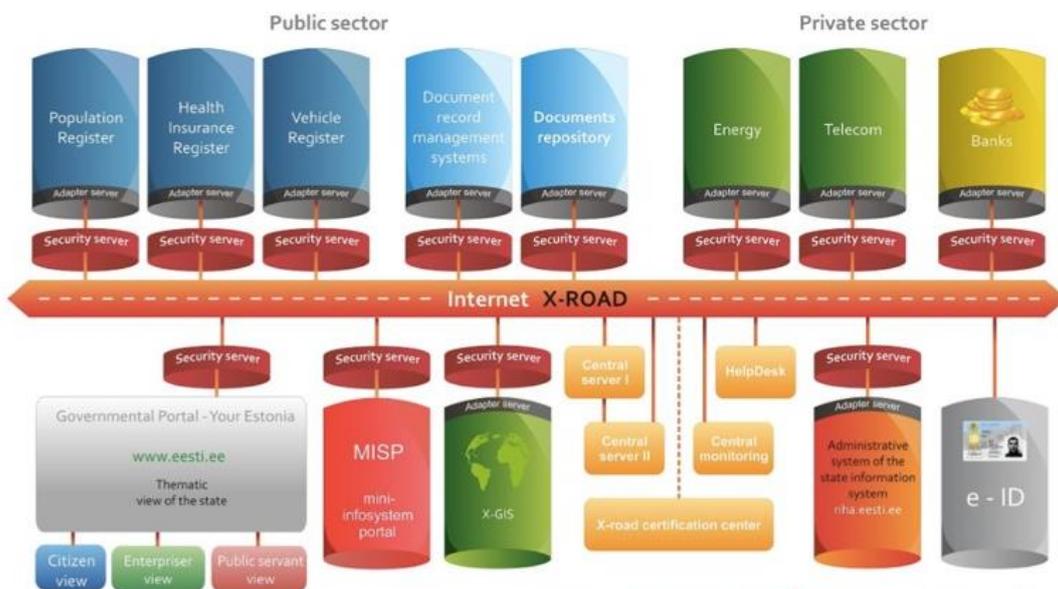


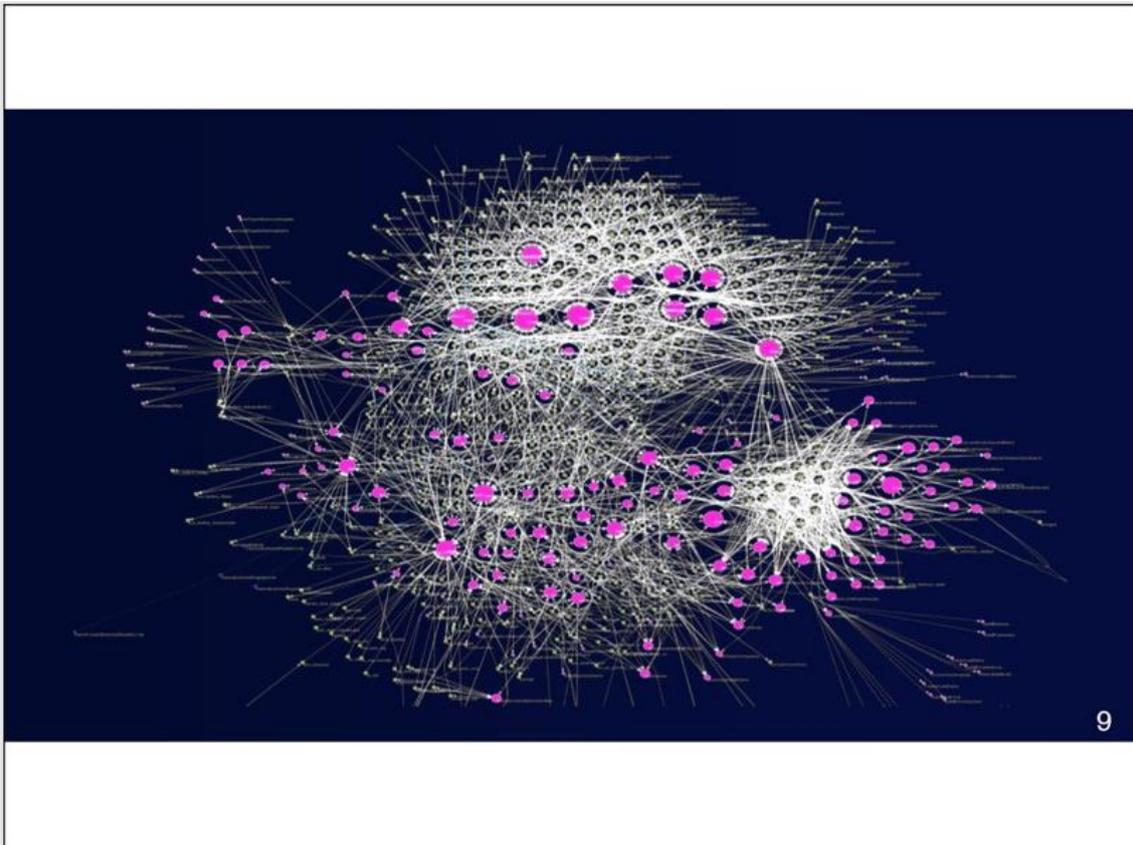
- ID code in Estonia existing already from early 1990ies: **not secret information**
- Secure authentication and authorization in digital environment – **since 2001**
- Today it has been issued more than 1 million ID cards, about 650 000 in use electronically.
- Mobile ID more than 110 000
- Smart ID more than 210 000 (close to 900 000 in Estonia, Latvia, Lithuania)



## 2001年からの公共インフラ:

X-road: secure and transparent exchange of data





# Efficient

Time-efficient electronic solutions save money and more

- ▶ DIGITAL SIGNATURE SAVES 2% OF GDP PER YEAR
- ▶ 50 TIMES MORE EFFICIENT CONNECTED POLICE
- ▶ MANAGE WORK AND BUSINESS DISTANTLY
- ▶ 1/3 LESS QUEUES AT THE HOSPITALS
- ▶ BEST TAX COLLECTOR IN THE WORLD
- ▶ I- VOTING 2.5 TIMES CHEAPER





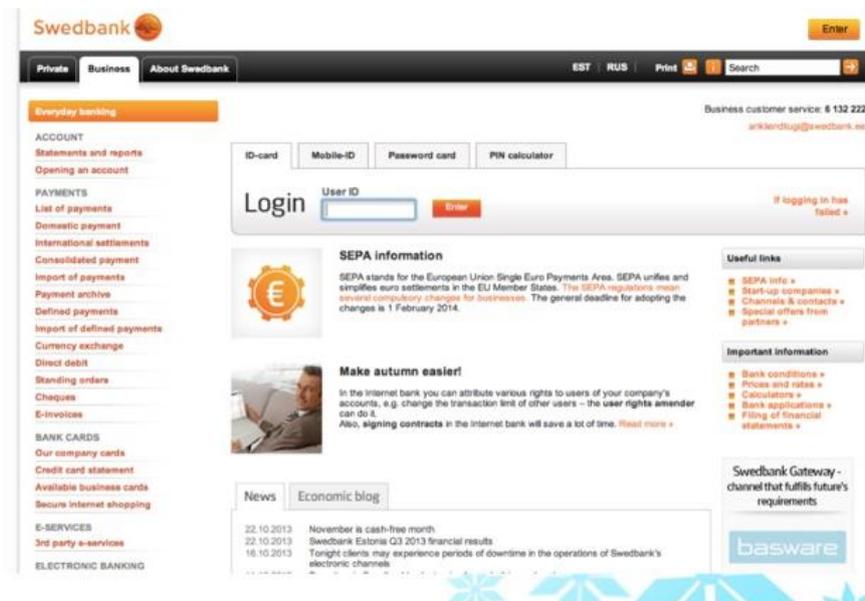
**Easy**  
e-Solutions simplify and benefit our lives.

- ▶ E-CABINET: 5 HOUR MEETINGS TO 30 Min
- ▶ TAXES DECLARATION TAKES 3 MINUTES
- ▶ 99% OF STATE SERVICES ARE ONLINE
- ▶ I-VOTING - 30% VOTE ONLINE
- ▶ INVISIBLE GOVERNANCE
- ▶ BANKING IS ONLINE 99.8%
- ▶ E-TAXES 98% ONLINE
- ▶ E-PRESCRIPTIONS 99%
- ▶ PAPER-FREE ADMINISTRATION
- ▶ EASY BUSINESS IN 18 MINUTES

The advertisement features a photograph of a man sitting in a colorful beach chair on a wooden deck, looking at a laptop. The background is a scenic view of a beach with tall grasses and a blue sky. The text is overlaid on the image, with the word 'Easy' in a large, bold font. The statistics are presented in a list format with blue arrowheads pointing to the right.

## 事例: internet banking

Percentage of bank transactions online: 99%



## Launching the e-Prescription



Estonian e-prescription  
launched in **2010**

By the end of first year **73%**  
of prescriptions issued digitally

Currently **100%** are  
e-prescriptions

**10 m** prescriptions and  
**1,5 m** patients per year



## 事例: Commercial Registry:

Time to found a new company can be 18 minutes



## 一年生からのプログラミング授業



## Better UX: from “pull” to “push”

Avaldelt » Pere » Lapse sünd » Kirike Puu

eesti.ee

### Lapse sünd

Palju õnne! Te saite lapse 23.01.2016. Teie lapse isa on Paul Puu. Registreerime teie lapse sünni ja paneme ta kirja lasteaeda. Teie nautige võimalust veeta aega oma lapsega.

**TEIE LAPSEL EI OLE VEEL NIME!**

Te ei ole oma lapsele veel nime pannud. Palun mõelge hoolega, millise nime oma lapsele panete. Teie laps saab kunagi täiskasvanuks ning peab saama oma nime väarikalt kandma. Lapsel on lihtsam elus hakkama saada, kui tema nimi kirjutatakse traditsioonilise kirjaaldisega.

Eesnimi	Perekonnanimi	OK
	Puu	

Populaarsemad tüdrukunimed 2015  
**Salme, Leili, Elfride**

Populaarsemad poisinimed 2015  
**Felix, Ernst-Kaarel, Rudolf**

Vaata siit, millise nime võiksid lapsele panna »

## Smart governance with real-time economy: will be around soon



## ノーレガシー政策

No government IT infrastructure can be older than 13 years

All the state IT systems and technologies need to be renewed from ground-up



# GaaS: Government as a Service

Become an e-Resident like 40 000 others  
Over 3900 new companies established by e-residents!



Your key to e-Estonia

e-Estonia.com  
The Digital Society



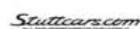
## No more paying for talking

What if people could transfer their words - like a phone without the phone.

And without the phonebill.



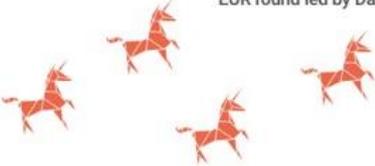
Everything started with Skype



Welcoming the 4th Estonian-bred unicorn



Founded: 2013  
 500 000 drivers  
 10 million users  
 A unicorn since May 2018 with a 150M  
 EUR round led by Daimler



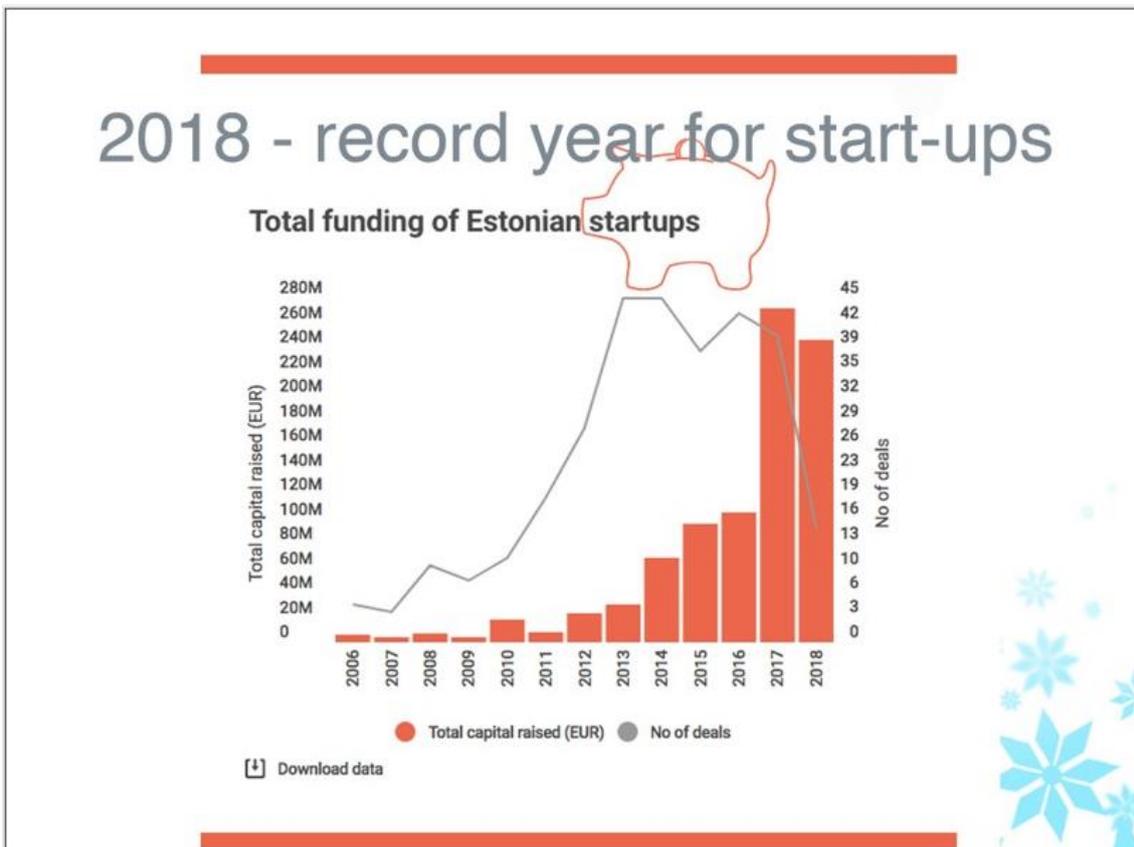

  
  


TransferWise





playtech  
SOURCE OF SUCCESS



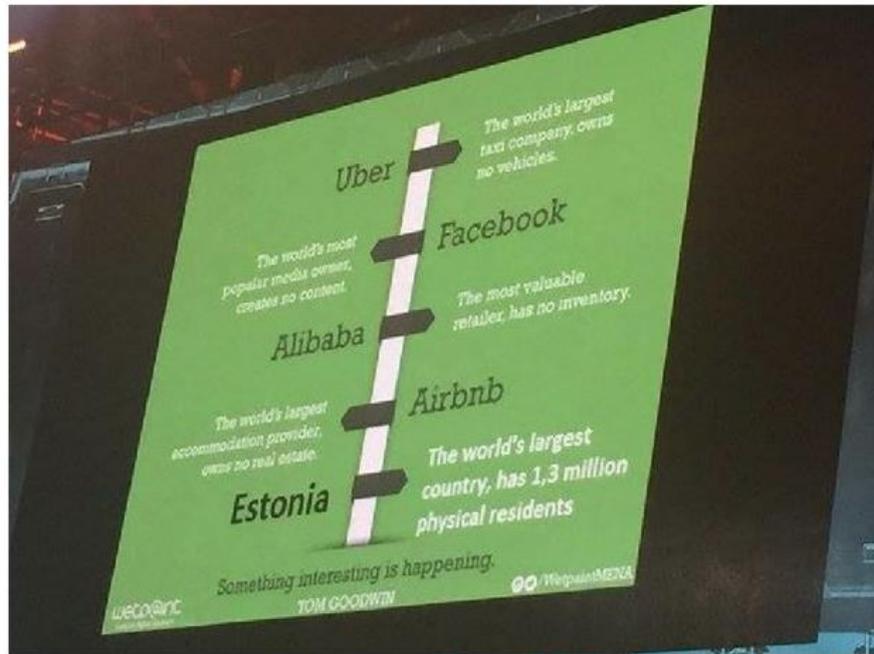
## Direct access to top level policymakers



## e-Residency: global platform for startups



エストニア:  
世界が変わっていく中での傾向？



## Personal data security is one of the major topics of 2018

### MyData



## MyNumber: step in the right direction



Roadmap for Japan is impressive BUT:

- MyNumber is considered private information
- Limited usage for private companies
- Not compulsory to have it

[allikivi@planetway.com](mailto:allikivi@planetway.com)





## ラウル アリキヴィ

1979年エストニア生まれ。2002年タルトゥ大学卒業後、2005年早稲田大学の修士課程を修了する。エストニア 経済通信省 入省。

2007-12年、エストニア経済通信省(Ministry of Economic Affairs and Communications)の経済開発部で局長を務める。

2010-12年、エストニア航空の監査役に就任し、政府担当者として航空会社の再建従事。

現在は日本に暮らし、エストニア行政での経験と知識を生かしてコンサルティング会社ESTASIAを2012年12月に設立し、アジアにエストニアの行政システムなどを紹介している。

2013年には日本のクラフトビールを欧州へ輸入するBIIRUを設立。

2016年はPlanetway Corporationの取締役就任。

共同書籍：未来型国家エストニアの挑戦

•<http://www.amazon.co.jp/dp/4802090382/>



以上

ご講演を有難うございました！——BMA 編集委員会