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「未来型国家エストニアに見る デジタルソサエティ」

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CRO

一般社団法人 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

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)の経済開発部で局次長を務める。

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、Planetwayのヨーロッパ支社Planetway Europeを代表の平尾と共に設立、Planetway Corporationの Chief Relations Officer に就任。

共同書籍: 未来型国家エストニアの挑戦
•<http://www.amazon.co.jp/dp/4802090382/>



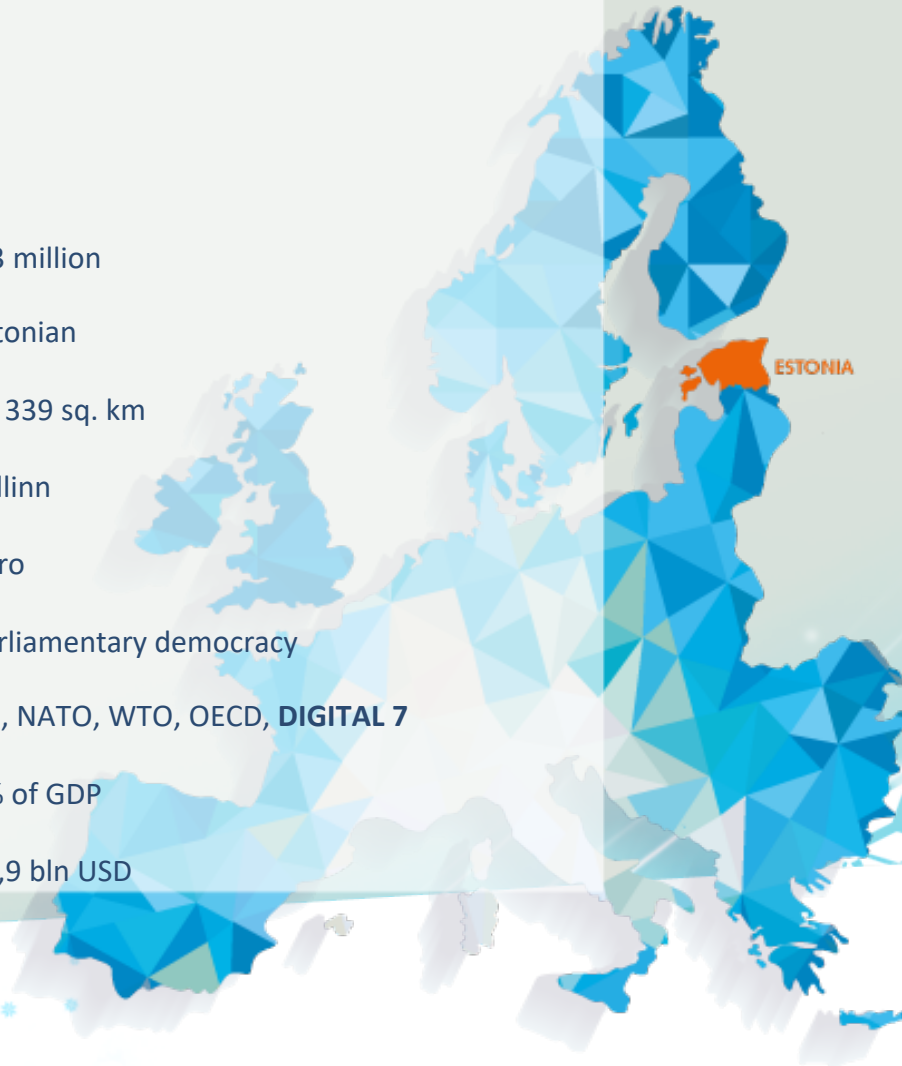


Enterprise
Estonia



ESTONIA IN FACTS

POPULATION	1.3 million
LANGUAGE	Estonian
SIZE	45 339 sq. km
CAPITAL CITY	Tallinn
CURRENCY	Euro
GOVERNMENT	Parliamentary democracy
MEMBER OF	EU, NATO, WTO, OECD, DIGITAL 7
ICT SECTOR	7% of GDP
GDP	25,9 bln USD



Leader in information society

96%

所得税申告
オンライン

電子チャネルで
行う企業と政府の間の
コミュニケーション

80%

以上

100%

学校や政府機関の
ブロードバンド
アクセス

無料で使える
Wi-Fi スポット

1100

以上

88%

人口の
インターネット
使用率

企業のインターネット
とコンピュータの使用

率 96%

以上

ICTリーダーとしての活動



2008



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

2012



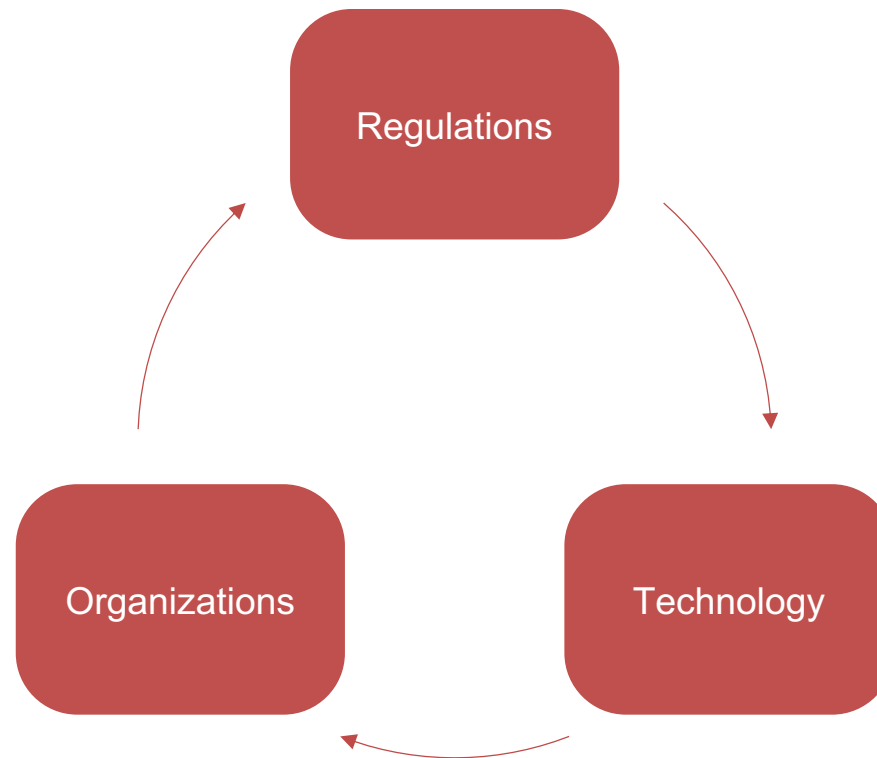
VICE-PRESIDENT (2014-2019)

Andrus Ansip

Digital Single Market



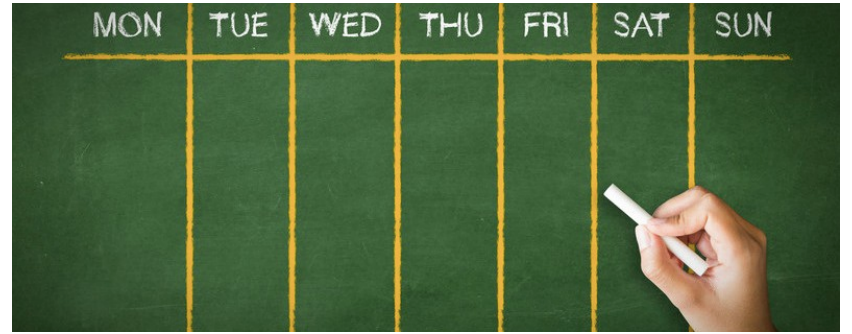
E-Governance: not just about technology



国民ID制度と電子政府の影響

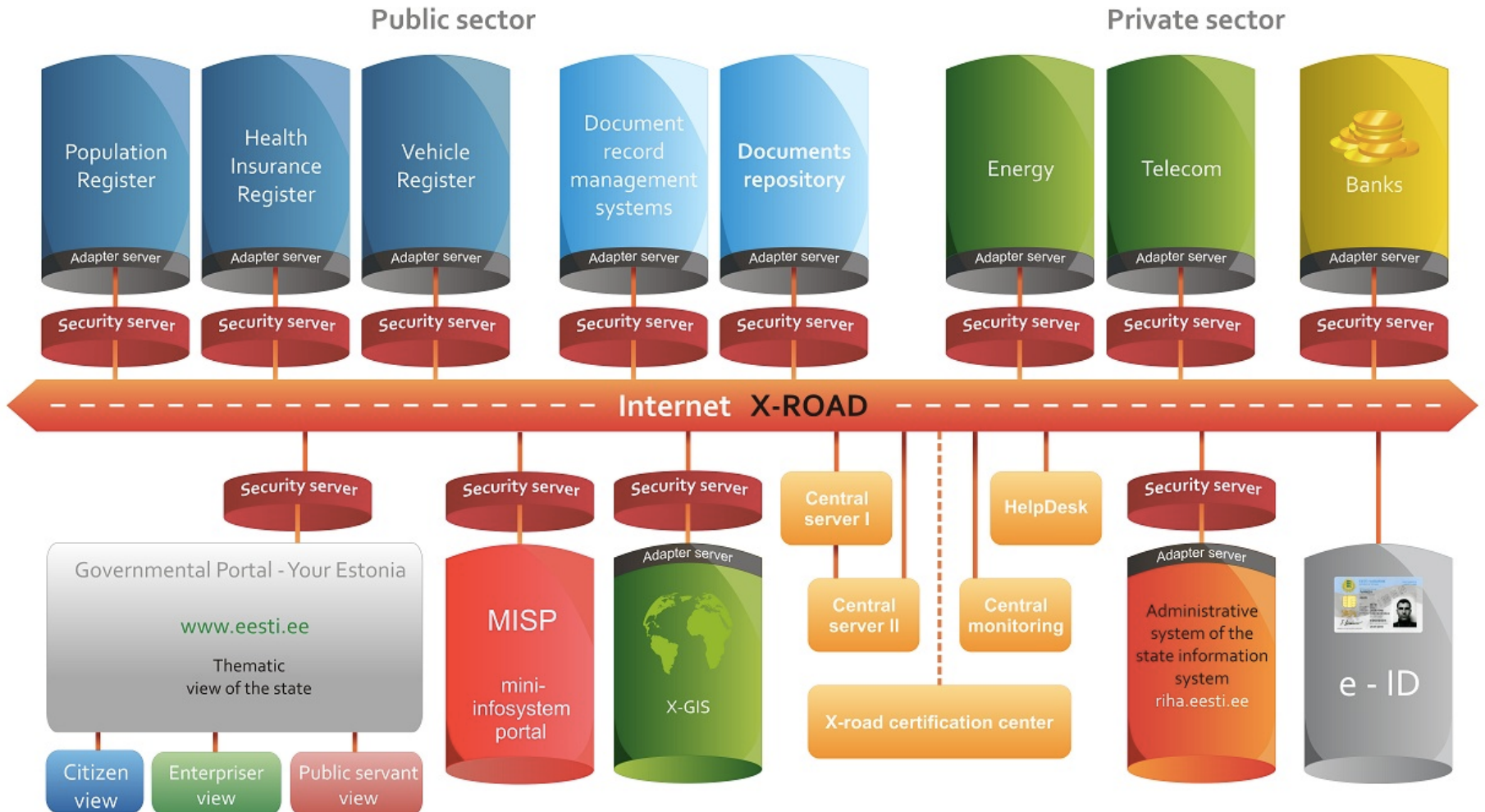


- ID code in Estonia existing already from early 1990ies: **not secret information**
- Secure authentication and authorization in digital environment – **since 2001**
- Today it has been issued about 1.3 million, 50% in active use
- Mobile ID from 2007: 160 000+
- Smart ID from 2017: 210 000+ (close to 900 000 in EE, LV, LT)



2001年からの公共インフラ:

X-road: secure and transparent exchange of data



Security Model

Confidentiality

ID-card Mobile-ID

Preventing the disclosure of information to unauthorized individuals or systems.

Availability

X-ROAD

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

Integrity

KSI Blockchain

Maintaining and assuring the accuracy and consistency of systems and 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**




Example: internet banking

Percentage of bank transactions online: 99%

The screenshot shows the Swedbank internet banking interface. At the top left is the Swedbank logo. To its right is an "Enter" button. Below the logo is a navigation bar with "Private", "Business", and "About Swedbank" tabs. Further right are language options "EST" and "RUS", a "Print" button, and a search bar. The main content area is divided into a left sidebar and a main content area. The sidebar contains a "Everyday banking" header and several menu categories: ACCOUNT (Statements and reports, Opening an account), PAYMENTS (List of payments, Domestic payment, International settlements, Consolidated payment, Import of payments, Payment archive, Defined payments, Import of defined payments, Currency exchange, Direct debit, Standing orders, Cheques, E-invoices), BANK CARDS (Our company cards, Credit card statement, Available business cards, Secure internet shopping), E-SERVICES (3rd party e-services), and ELECTRONIC BANKING. The main content area features a "Login" section with tabs for "ID-card", "Mobile-ID", "Password card", and "PIN calculator". The "Login" form includes a "User ID" input field and an "Enter" button. To the right of the login form is a message: "If logging in has failed »". Below the login form are three sections: "SEPA information" with a Euro symbol icon and text explaining SEPA regulations; "Make autumn easier!" with a photo of a man and text about user rights amendments; and "Useful links" with a list of links such as "SEPA info", "Start-up companies", "Channels & contacts", and "Special offers from partners". Below these is "Important information" with links for "Bank conditions", "Prices and rates", "Calculators", "Bank applications", and "Filing of financial statements". At the bottom, there is a "News" section with a "Economic blog" tab and a list of news items with dates and titles. On the right side of the bottom section is a "Swedbank Gateway - channel that fulfills future's requirements" box with the "basware" logo.

Swedbank 

Private Business About Swedbank

EST RUS Print   Search 

Everyday banking Business customer service: 6 132 222
ariklienditugi@swedbank.ee

ACCOUNT

Statements and reports

Opening an account

PAYMENTS

List of payments

Domestic payment

International settlements

Consolidated payment

Import of payments

Payment archive

Defined payments

Import of defined payments

Currency exchange

Direct debit

Standing orders

Cheques

E-invoices

BANK CARDS

Our company cards

Credit card statement

Available business cards

Secure internet shopping


E-SERVICES

3rd party e-services


ELECTRONIC BANKING

ID-card Mobile-ID Password card PIN calculator

Login User ID If logging in has failed »

 **SEPA information**

SEPA stands for the European Union Single Euro Payments Area. SEPA unifies and simplifies euro settlements in the EU Member States. *The SEPA regulations mean several compulsory changes for businesses.* The general deadline for adopting the changes is 1 February 2014.

 **Make autumn easier!**

In the Internet bank you can attribute various rights to users of your company's accounts, e.g. change the transaction limit of other users – the **user rights amender** can do it. Also, **signing contracts** in the Internet bank will save a lot of time. [Read more »](#)


Useful links

- SEPA info »
- Start-up companies »
- Channels & contacts »
- Special offers from partners »

Important information

- Bank conditions »
- Prices and rates »
- Calculators »
- Bank applications »
- Filing of financial statements »

Swedbank Gateway - channel that fulfills future's requirements



News Economic blog

22.10.2013 November is cash-free month

22.10.2013 Swedbank Estonia Q3 2013 financial results

16.10.2013 Tonight clients may experience periods of downtime in the operations of Swedbank's electronic channels

Example: Commercial Registry:

Time to found a new company can be 18 minutes



No Legacy Policy

No government IT infrastructure can be older than 13 years

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



Programming from grade 1



エストニアの電子政府の目指す先

1. Government as a Service

・国家も民間と同じように顧客を手に入れる必要があるというマインドセットを持つべきである

- E-Residency「電子居住権」
- デジタルノマドビザ

2. Zero bureaucracy

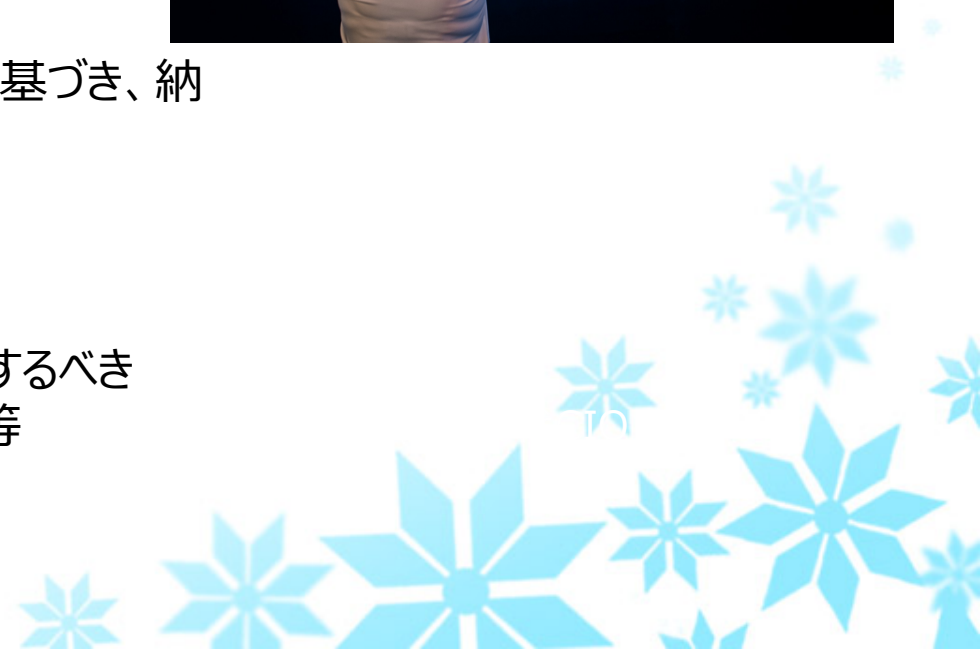
・民間企業の行政の負担削減
・必要の無い義務を廃止することで規制緩和
・公共セクター内での官僚式の手続きの削減

- Reporting 3.0
 - 個人・起業家の銀行口座のデータに基づき、納税額計算・税務申告が行われる
 - 個人，起業家の負担軽減

3. Invisible service

・必要の無い政府とのコミュニケーションは廃止すべき

- 年金の申請，子育ての補助金の申請等



GaaS: Government as a Service

Become an e-Resident like 64 862 others
Over 6000 new companies established by e-residents!

250 Companies established in Estonia by 3034 Japanese e-residents!





e-Residency: global platform for startups

STARTUP ESTONIA

Foreign Founders in Estonia Meetup vol. 5

**August 31, 6:00 pm
@ Workland Vabaduse**

Startup Estonia @startupestonia · 8月28日
Join us this Friday for Foreign Founder meetup vol. 5, a meetup for all foreign #startup #founders in Estonia and the local #startup community to meet, change ideas and learn from each other. [eventbrite.com/e/foreign-founders-meetup-vol-5](https://www.eventbrite.com/e/foreign-founders-meetup-vol-5)

WE'RE LOOKING FOR

18

€1000

IT SCHOLARSHIP

future founders from Estonia & Ukraine

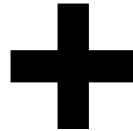
BACKED BY FOUNDERS & CREATORS BEHIND

99

LIFT99

Powered by Garage48

Simple formula for a “new Silicon Valley”



Which one is better “smart city”?



VS.



'TEST SITE'



Born global



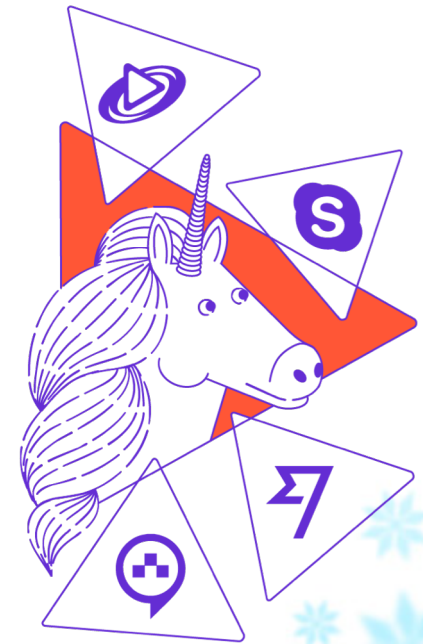
Everything started with Skype



Estonian Startup Scene in Numbers

- ▶ **650** startups, of which **130** startup visa founded
- ▶ Startup founders: 18% foreigners, 15% women
- ▶ **4900 new jobs** created, 46% women, 20% foreigners

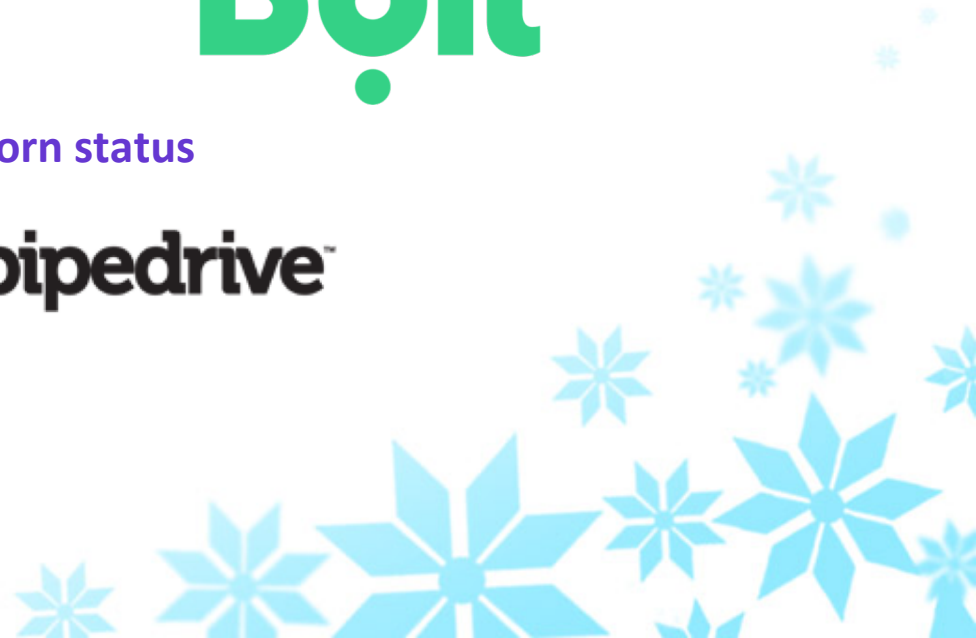
- ▶ **Startups paid €32.7M** in employment taxes (2019 1st Half), **72%** of the total in 2018
- ▶ **Raised over €1.1B** in the last 12 years (90% foreign funds)



Global top for Unicorns per capita



On their way to unicorn status



Attracting talent (since January 2017):

- **founders** from non-EU countries
- **new talent** to Estonian startups

Altogether **1503 individuals** have relocated or granted the right to move to Estonia!

- TOP countries for founders: **Russia, Iran, Turkey, India**
- TOP countries for employees: **Brazil, India, Russia, Ukraine**

Startup Visa

STARTUP
ESTONIA

2019 is the year of
global talent enriching
the Estonian Startup
ecosystem



Startup Visa vs e-Residency

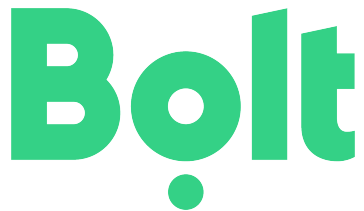
Startup Visa	e-Residency
<ul style="list-style-type: none">● Physical access to the Estonian ecosystem● Permit to enter the country● Main goal - relocation● 1500 + applications from 90 countries, 35% success rate	<ul style="list-style-type: none">● Virtual access to the Estonian ecosystem● Not a permit to enter the country● Main goal - ease of doing business remotely by using Estonian e-services● 65,000+ e-residents



Direct access to top level policymakers



Estonian start-ups connected with Japan



sTARTUp Day 2020: January 29-31, 2020



Latitude59: May 28-29, 2020



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

Digital Society — Core ICT Infrastructure



2019.06.11 Planetway – Ichikawa City Partnership

<https://ascii.jp/elem/000/001/878/1878684/>



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未来型国家
エストニアの挑戦

電子政府がひらく世界



ラウル アリキヴィ / 前田 陽二 著

エストニア政府 CIO ターヴィ・コトカ氏 推薦
**最先端の
オープンガバメントに見る
新しい社会像!**

  インプレス R&D [NextPublishing]
E-Book / Print Book

