Creating a digital society

(trust your engineers)
Taavi Kotka
Former Estonian Government CIO
Today in ProudEngineers / Jio

Best CIO in Europe 2014 (www.ictspring.com)

No 12th of The Brightest Business Minds in North-Europe 2016 (Nordic Business Forum)

Among 100 Most Important Technology Leaders of The World 2016 (www.computerworld.com)

Entrepreneur of the Year 2011 in Estonia (by E&Y)

Special advisor to European Commission vice-president Andrus Ansip on digital single market
Population: 1.3 Million
Size: 45 227 km²
Capital: Tallinn
Language: Estonian
Member of EU
Currency: Euro
“On the Internet, nobody knows you’re a dog.”
KOTKA

TAAVI

M/M

21.01.1979

37901214916

AA0723956
Economic advice: Sell your shares in Parker.
X-road

Public sector
- Population Register
- Health Insurance Register
- Vehicle Register
- Document record management systems
- Documents repository

Private sector
- Energy
- Telecom
- Banks

Internet X-ROAD

Security server

Governmental Portal - Your Estonia
www.eesti.ee
Thematic view of the state

Citizen view
Enterpriser view
Public servant view

MISP
mini-infosystem portal

Central server I
Central server II
HelpDesk
Central monitoring
Administrative system of the state information system
riha.eesti.ee

X-road certification center

e-ID
it’s much more fun to go out and get problems than in a doctor’s waiting room
HERE'S MY PHONE NUMBER

ALREADY HAVE IT
<table>
<thead>
<tr>
<th>Date</th>
<th>Data</th>
<th>Person's name</th>
<th>Organisation/registry code</th>
<th>Justification</th>
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<tr>
<td>5 May 2016</td>
<td>PERH.ambeperikiis.377295923 (Dokumendi registreerimine)</td>
<td>MARI MEREN</td>
<td>SA Põhja-Eesti Regionaalhaigla</td>
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<td>2 Apr 2017</td>
<td>PERH.ambeperikiis.372971529 (Dokumendi registreerimine)</td>
<td>KAIRIT PALM</td>
<td>SA Põhja-Eesti Regionaalhaigla</td>
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<td>8 Mar 2017</td>
<td>6028 (Dokumendi registreerimine)</td>
<td>KATI PAAL</td>
<td>OÜ Randvere Perearst</td>
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Winter is Coming
Global market share held by Nokia smartphones from 1st quarter 2007 to 2nd quarter 2013

Sources:
IDC, Nokia, Gartner
© Statista 2016

Additional Information:
Worldwide: Gartner; IDC; Nokia

Proteus Discover is the world’s first Digital Medicine service. A pioneering new healthcare offering that measures medication treatment effectiveness and helps physicians improve clinical outcomes.
Empowering Heroes, Transforming Health

Our purpose is to empower leaders, advocates and influencers in health through support that helps them achieve remarkable outcomes, accelerate discovery, make essential connections and gain confidence on their path to solving the world’s biggest health challenges.
Date: 21.01.2016
Location: Tartu/Estonia
Age: 37

Diagnose: Aortic (valve) stenosis with deficiency

Solution: Prosthetics of the aortic valve
Date: 02.03.2016
Location: Uruguay
Age: 37

Diagnose: not sure
Date: 04.04.2016
Location: Tallinn/Estonia
Age: 37

Diagnose: pericardial inflammation
10 million estonians?
"Kiss me and I'll turn you into an e-Estonian"
Remote and cross-border employment increases 35% per annum.
“After Brexit, I would like to continue doing business with my EU customers the same way I’m used to. … even if decided to move to Bali.”
My customers in Europe require a VAT invoice and SEPA payments. How should I meet such criteria while operating in Brazil?”
I'd like to avoid the complexity and bureaucracy in running my business in Germany.

The possibility to remotely manage my business is a great bonus.

Saskia, data scientist, Germany
3.5 billion people have jobs

1.5 billion mobile workers

How many potential freelancers are thinking like Maria?

Potential economic shift: $20 trillion

700M knowledge workers

680M able to work remotely

420M willing to consider offers abroad
Uber
The world's largest taxi company, owns no vehicles.

Facebook
The world's most popular media owner, creates no content.

Alibaba
The world's largest accommodation provider, owns no real estate.

Airbnb
The most valuable retailer, has no inventory.

Something interesting is happening.
TOM GOODWIN
Uber: The world's largest taxi company, owns no vehicles.

Facebook: The world's most popular media owner, creates no content.

Alibaba: The world's largest retailer, has no inventory.

Airbnb: The world's largest accommodation provider, owns no real estate.

Estonia: The world's largest country, has 1.3 million physical residents.

Something interesting is happening.

TOM GOODWIN
WE CANNOT SOLVE OUR PROBLEMS WITH THE SAME THINKING WE USED WHEN WE CREATED THEM

-Albert Einstein
www.e-estonia.com

Thank you!

Go and check e-Estonia out yourself!