





# Taavi Kotka

Former Estonian Government CIO

Head of Jio Research Center in Estonia

Top 12 Europe's digital Champions in 2018 (Financial Times)

World's 100 Most Influential People in Digital Government in 2018 (apolitico.co)

Best CIO in Europe 2014 ([www.ictspring.com](http://www.ictspring.com))

The Brightest Business Minds in North-Europe 2016 (Nordic Business Forum)

Among 100 Most Important Technology Leaders of The World 2016 ([www.computerworld.com](http://www.computerworld.com))

You need **GREAT PAIN**

to make **CHANGE** happen



ESTONIA

**Population:** 1.3 Million

**Size:** 45 227 km<sup>2</sup>

**Capital:** Tallinn

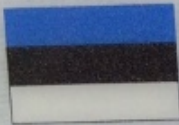
**Language:** Estonian

**Member of EU**

**Currency:** Euro



*"On the Internet, nobody knows you're a dog."*



**EESTI VABARIIK** ISIKUTUNNISTUS  
REPUBLIC OF ESTONIA IDENTITY CARD



PEREKONNANIMI / SURNAME

**KOTKA**

EESNIMED / GIVEN NAMES

**TAAVI**

SUGU /  
SEX

**M/M**

KODAKONDSUS /  
CITIZENSHIP

**EST**

SUNNIAEG /  
DATE OF BIRTH

**21.01.1979**

ISIKUKOOD /  
PERSONAL CODE

**37901214916**

DOKUMENDINUMBER /  
DOCUMENT NUMBER

**AA0723956**

KEHTIV KUNI / DATE OF EXPIRY

**16.05.2019**

KASUTAJA ALLKIRI / HOLDER'S SIGNATURE



**AA0723956**

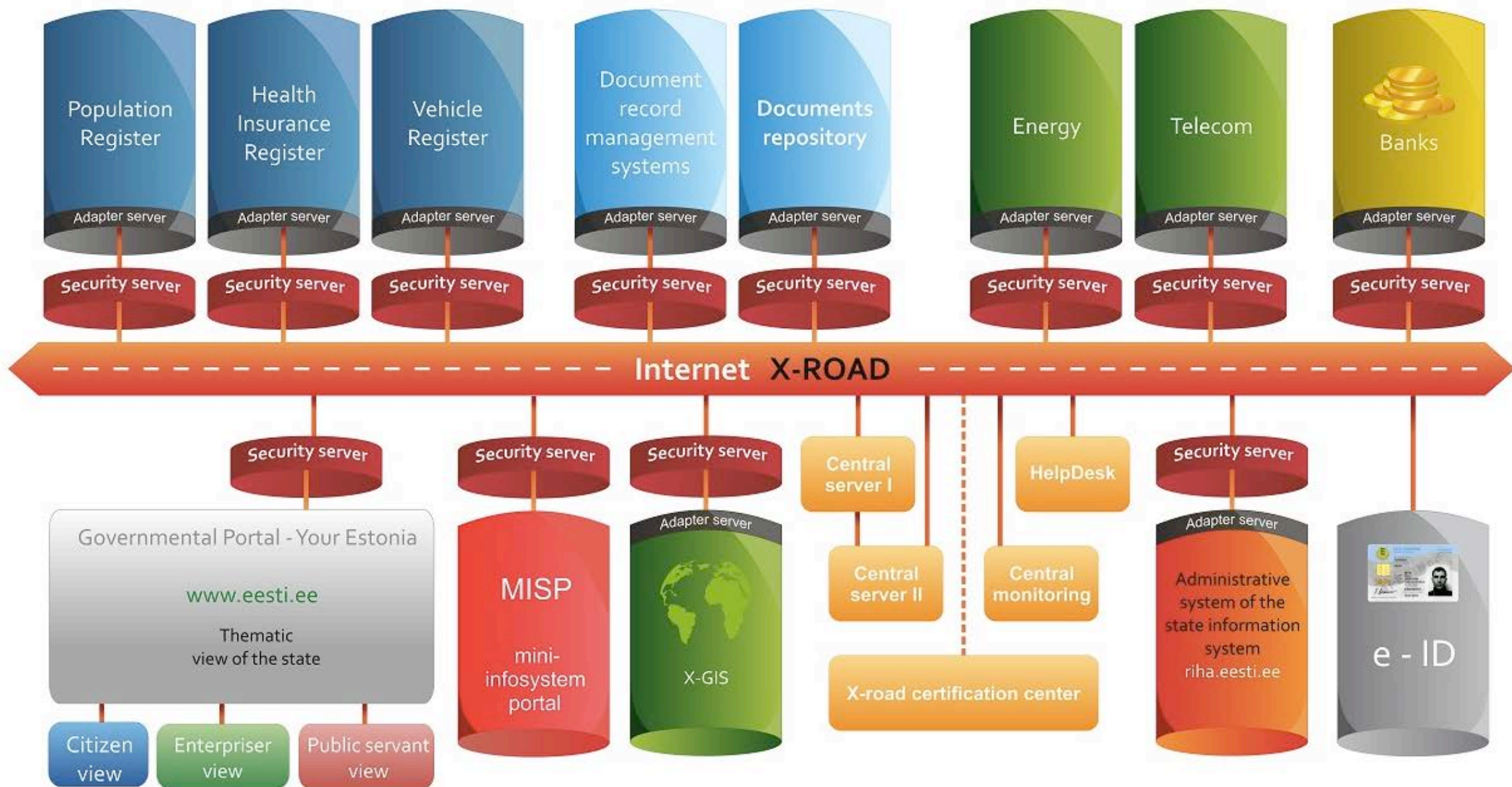




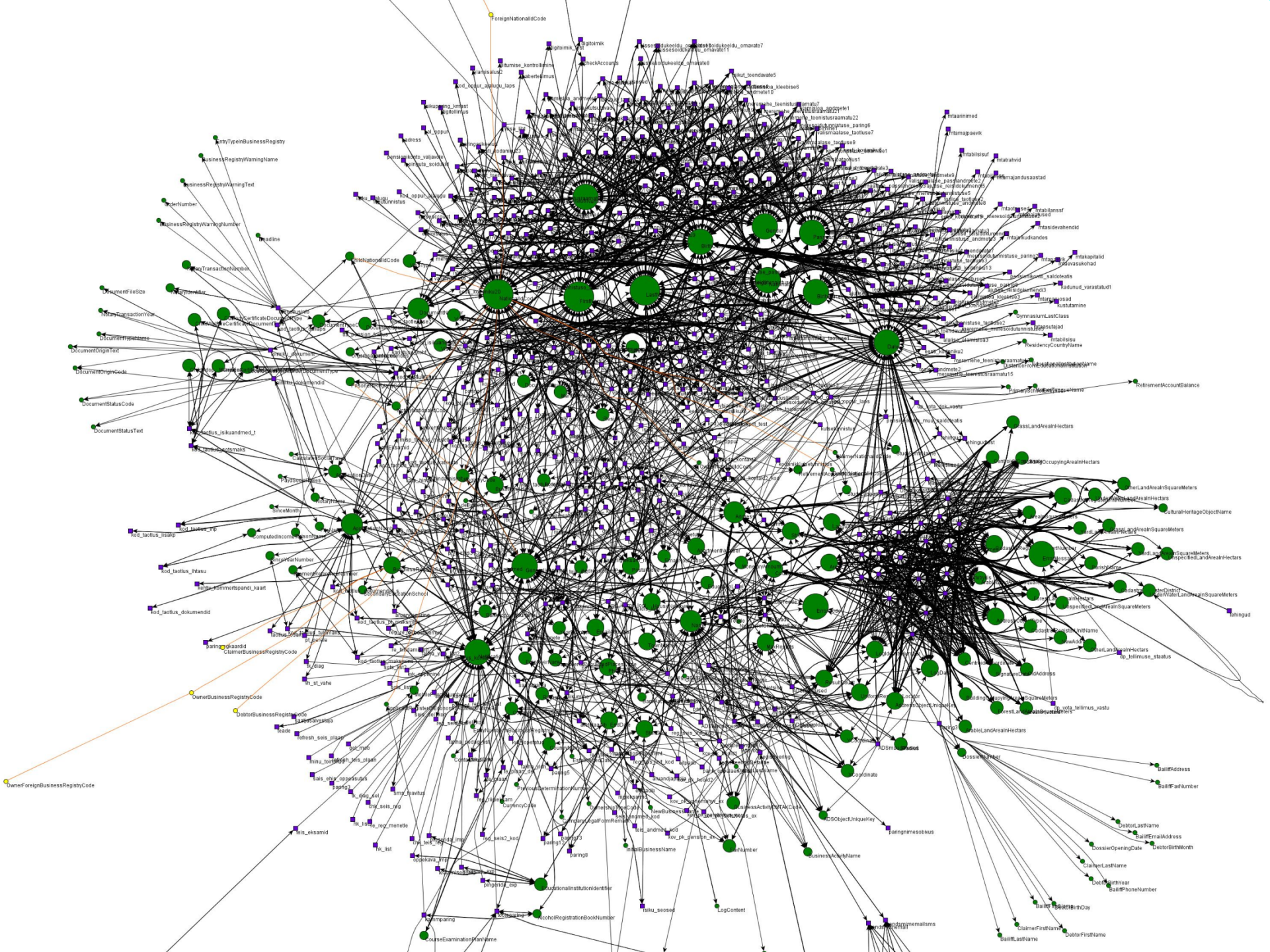
# X-road

Public sector

Private sector









HERE'S  
MY  
PHONE  
NUMBER

ALREADY  
HAVE  
IT

# Logbook

Additional  
information



[Main page](#)

Specify log search:

Logs about health data  
inquiries from the health  
information system



Logs about my own  
inquiries from the health  
information system



Logs from Eesti Töötukassa  
information system about  
expertises' inquiries



Log entry type



5  
may  
2016



2  
may  
2017



Search

Search all

Visible logs: 46

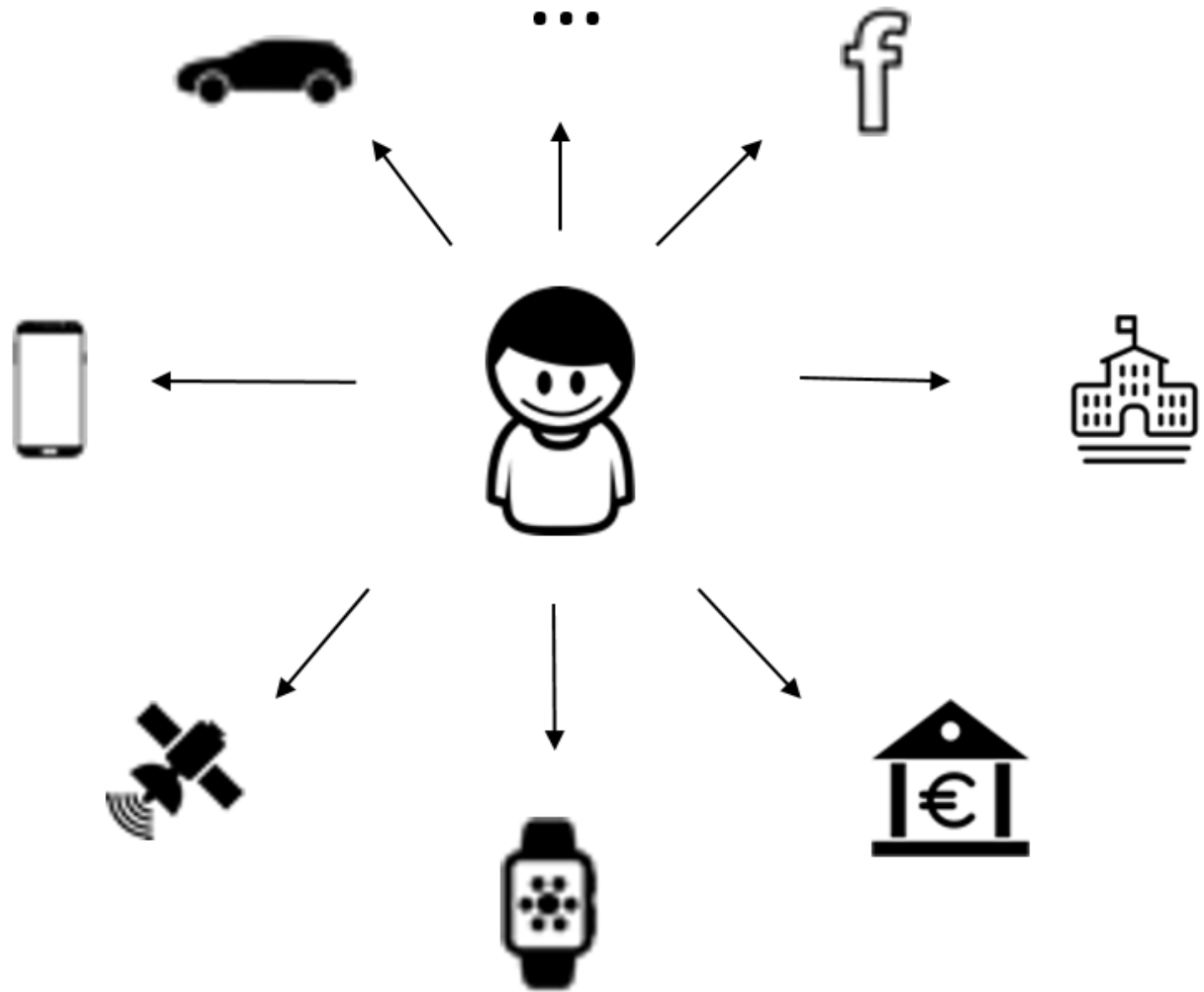
Date	Data	Person's name	Organisation/registry code	Justification
27 April 2017 20:17	PERH.ambepikriis.37729 5923 (Dokumendi registreerimine)	MARI MEREN pulmonoloogia D00842	SA Põhja-Eesti Regionaalhaigla	
24 March 2017 20:26	PERH.ambepikriis.37297 1529 (Dokumendi registreerimine)	KAIRIT PALM kardioloogia D01552	SA Põhja-Eesti Regionaalhaigla	
8 March	6028 (Dokumendi registreerimine)	KATI PAAL peremeditsiin D04207	OÜ Randvere Perearst	

37901214916 & GDPR



# Personal perspective

We all passively generate enormous amounts of data, it is valuable, but You don't control it.



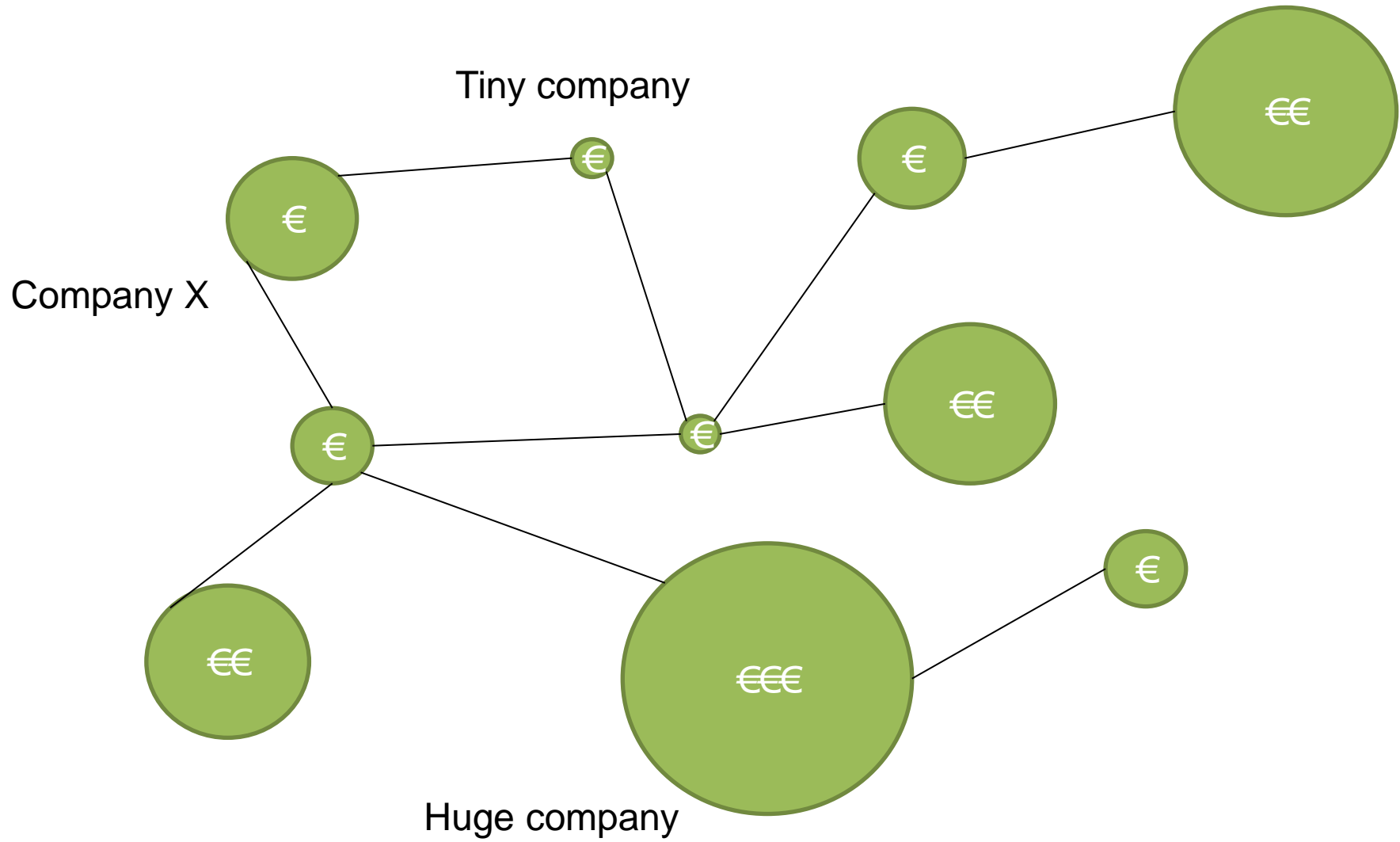
WE CANNOT SOLVE OUR PROBLEMS  
WITH THE SAME THINKING  
WE USED WHEN WE  
CREATED THEM

-Albert Einstein

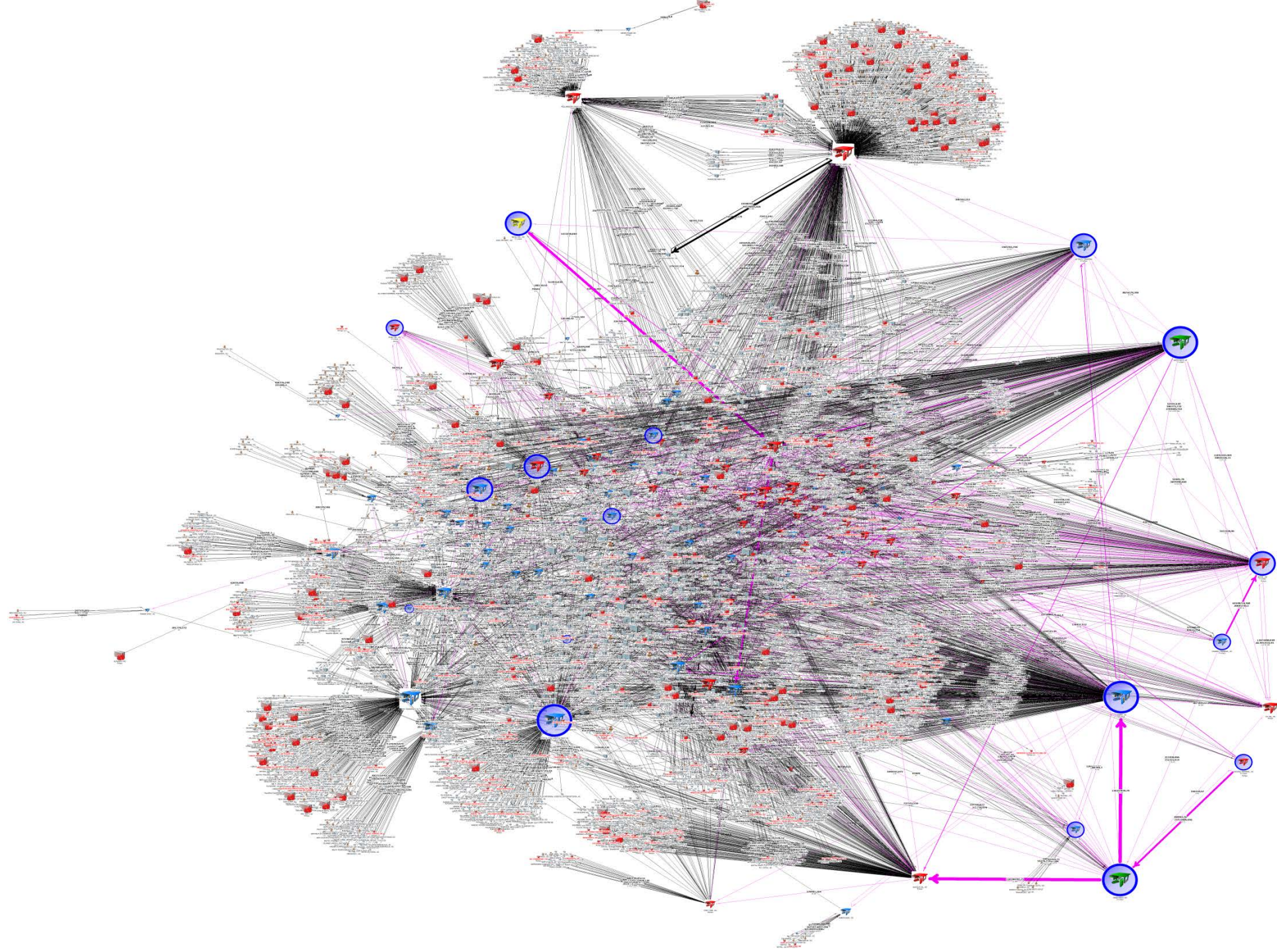


Seamless digital society

How complicated questions can be answered?







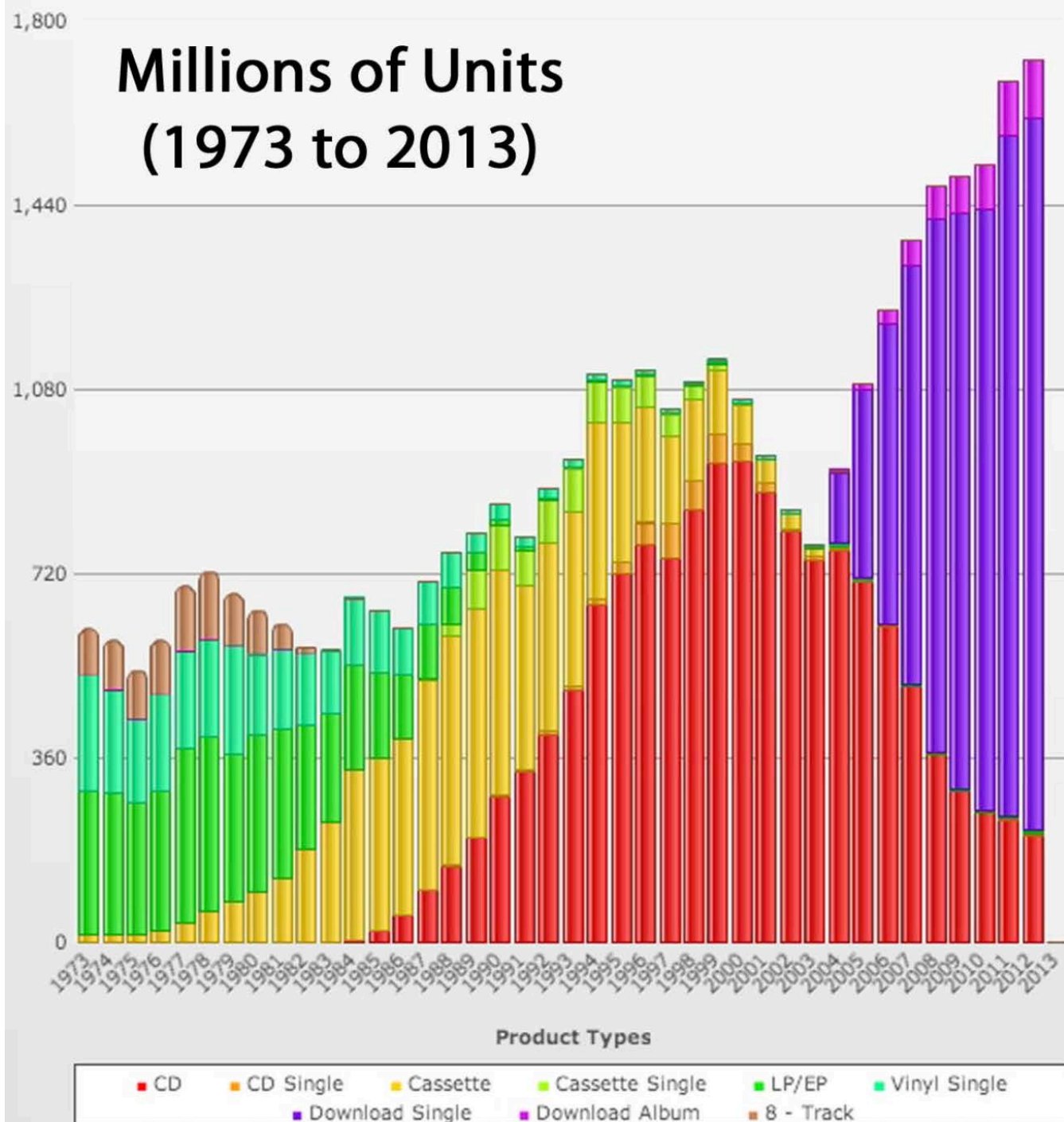
Prediction:

-3 000 jobs in chemical industry in East-Estonia (probability 80%)

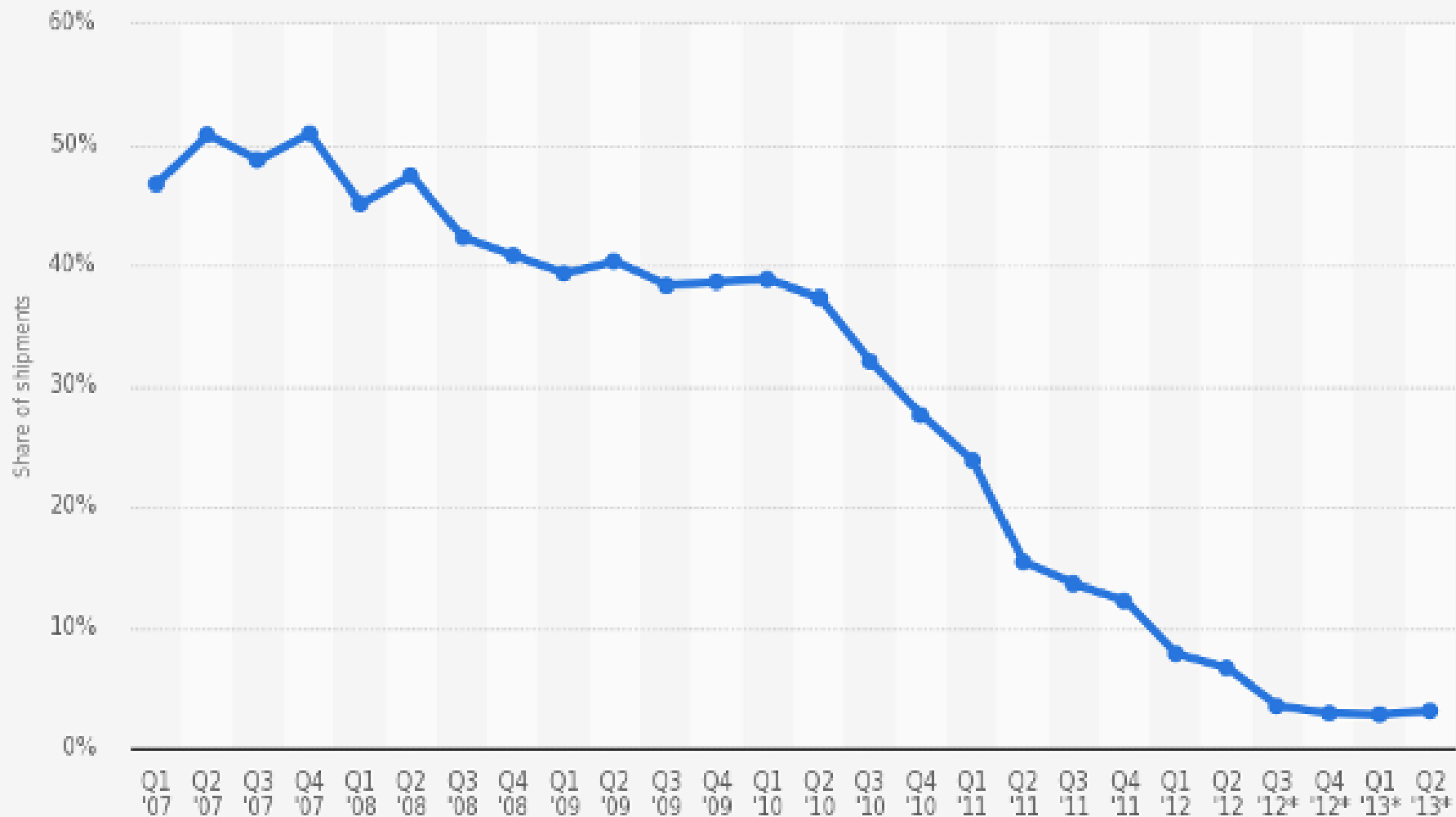
Innovation through PAIN

WINTER  
IS COMING

# Millions of Units (1973 to 2013)



## Global market share held by Nokia smartphones from 1st quarter 2007 to 2nd quarter 2013



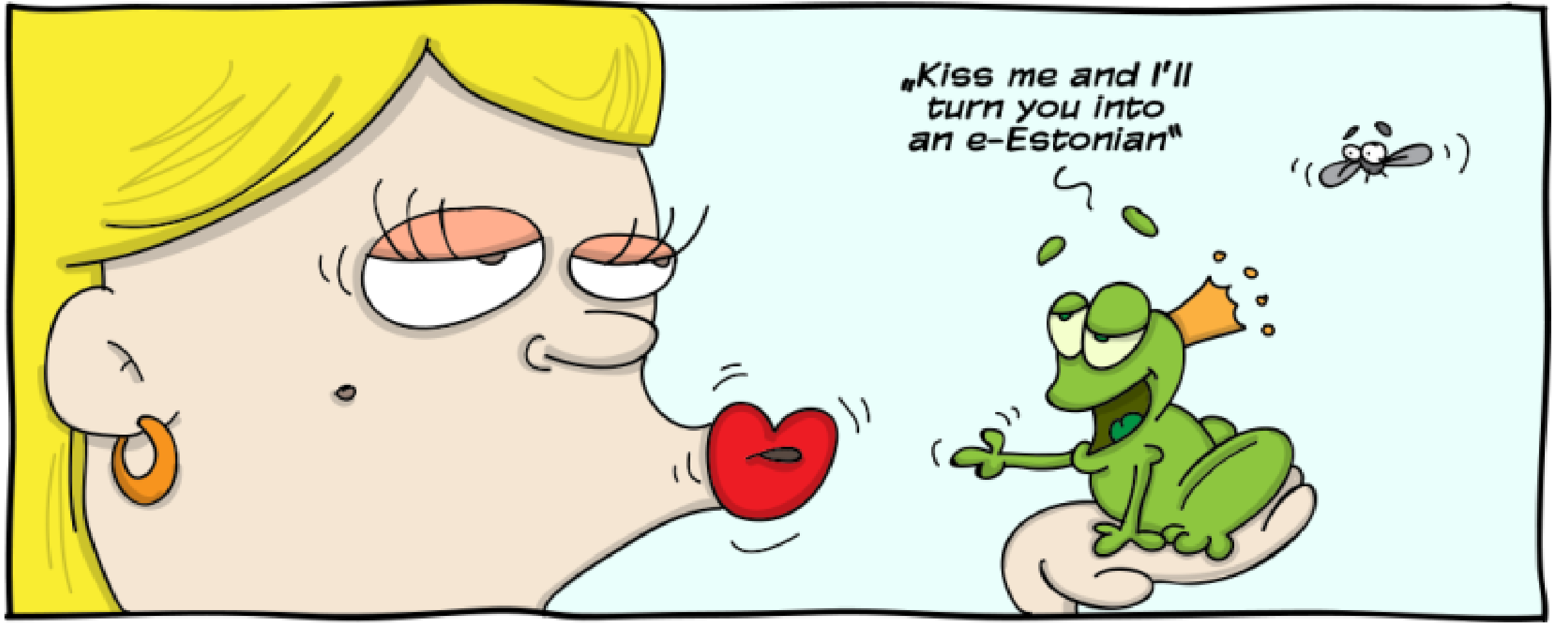
Sources:  
IDC, Nokia; Gartner  
© Statista 2016

Additional Information:  
Worldwide: Gartner, IDC, Nokia

10 million estonians?

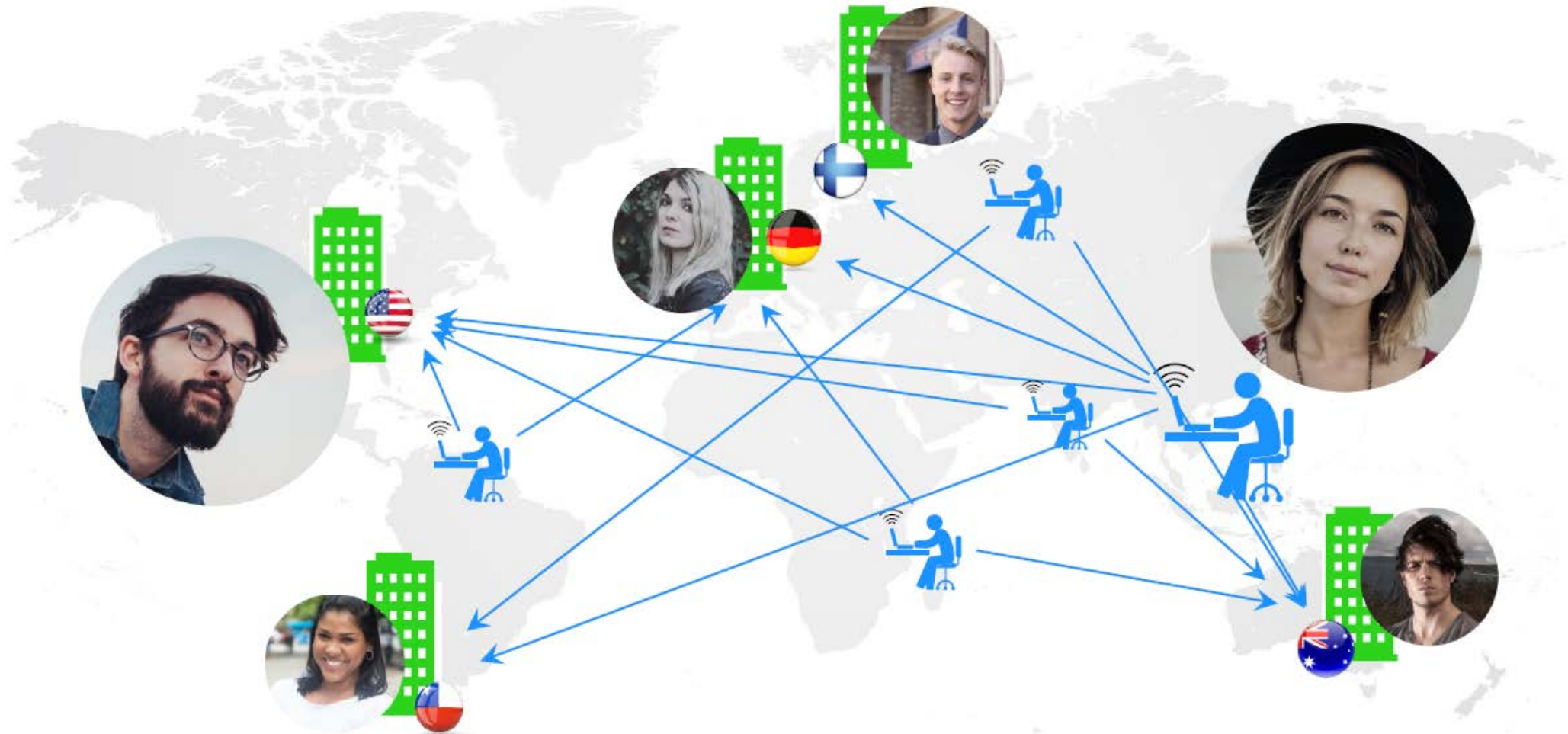






*„Kiss me and I'll  
turn you into  
an e-Estonian“*

Remote and cross-border employment  
increases **35%** per annum



21:32 ↗



**Rob Watt** ▶ **Estonian e-Residents**



8 hrs · 🧑🏻‍🤝‍🧑🏻

Hi friends, I'm going to be working from **Dojo Bali** today and would love to connect with any e-Residents if you're around. 🌞🌴💻



Uber

The world's largest  
taxi company, owns  
no vehicles.

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

Facebook

Alibaba

The most valuable  
retailer, has no inventory.

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

Airbnb

Something interesting is happening.

TOM GOODWIN

Uber

The world's largest taxi company, owns no vehicles.

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

Facebook

Alibaba

The most valuable retailer, has no inventory.

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

Airbnb

Estonia

The world's largest country, has 1,3 million physical residents

Something interesting is happening.

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

-Albert Einstein





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