

The Philosophy of e-Estonia



Aet Rahe
12.04.2016

My background

- Currenty - entrepreneur
 - consultanting on preparing, funding, managing and delivering ICT solutions
 - Supporting preparation of cybersecurity cPPP with EU COM
- Latest position
 - head State Information Systems department @ Ministry of Economic Affairs and Communications (=Deputy government CIO)
 - IT policy making (Digital Agenda 2020; Cyber Security Strategy 2017) & IT
 - investment management
 - Hands-on-experience from software development industry
 - Business Unit manager at the biggest software development house in Estonia – Nortal
- Education:
 - Masters of E-governance Technologies and Services (2016)
 - 2 • Masters in Psychology (2007)



70% of land
1% of people



„Who has been
sleeping in my bed?“

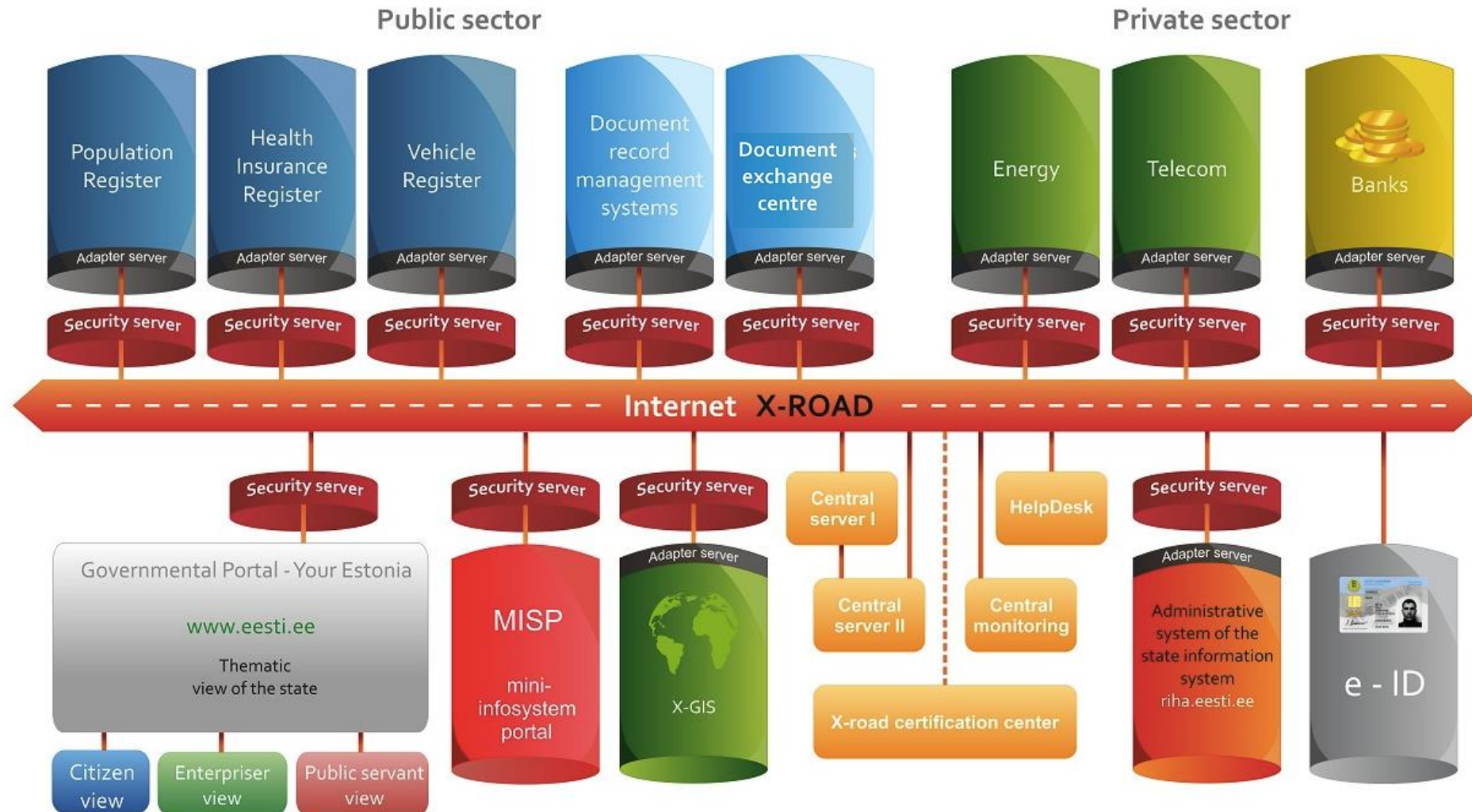


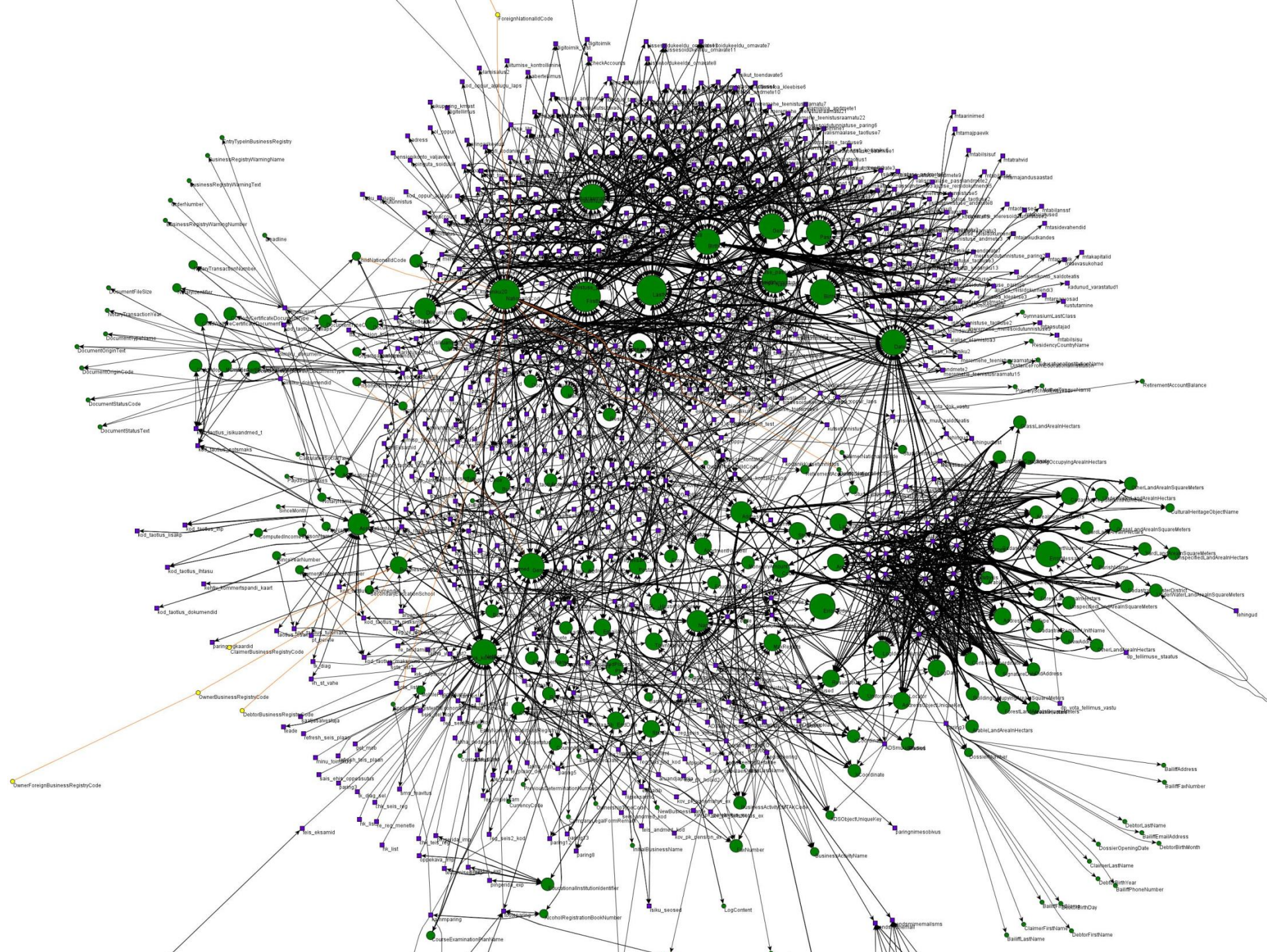
Trust your engineers

Economic advice:
Sell your shares in Parker.



X-road

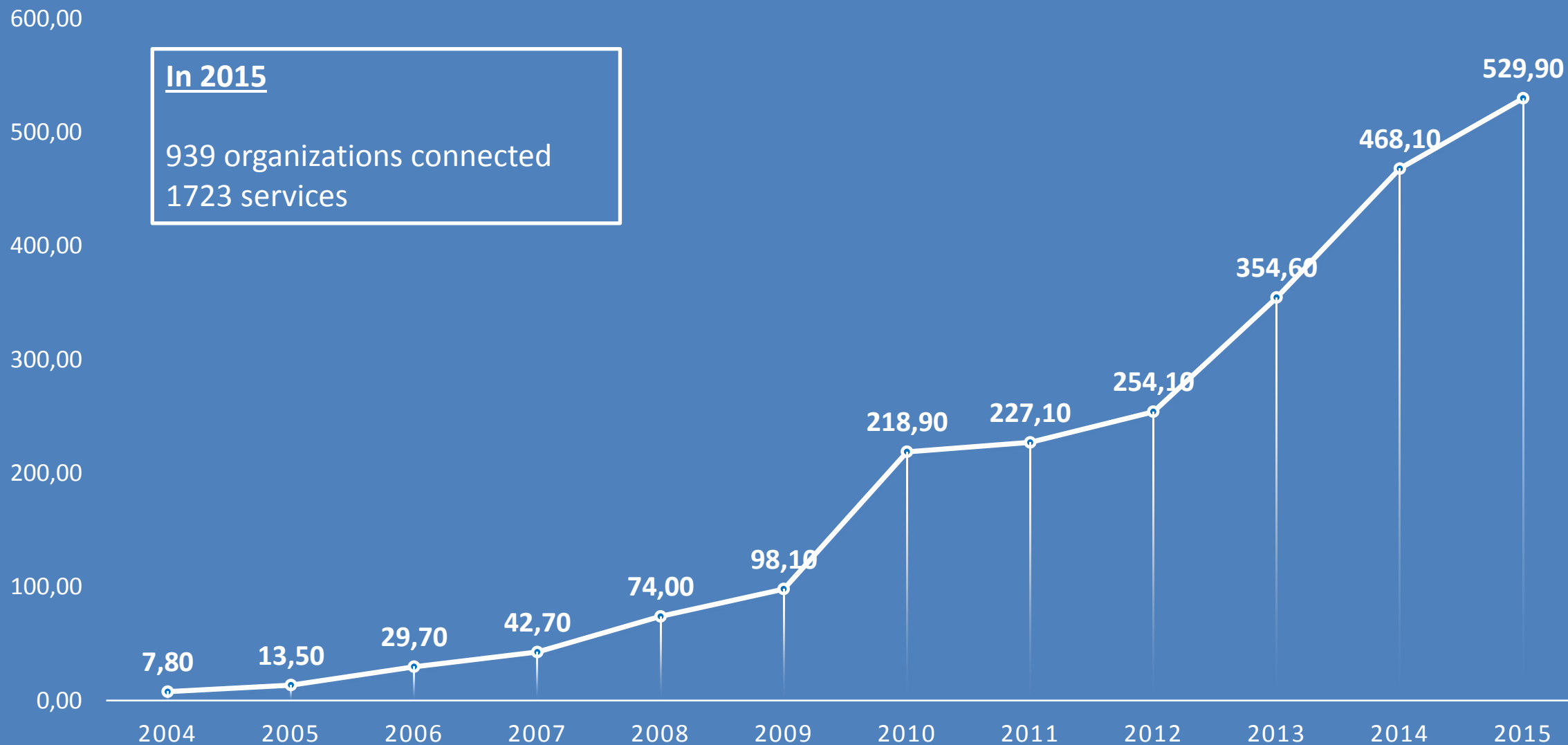


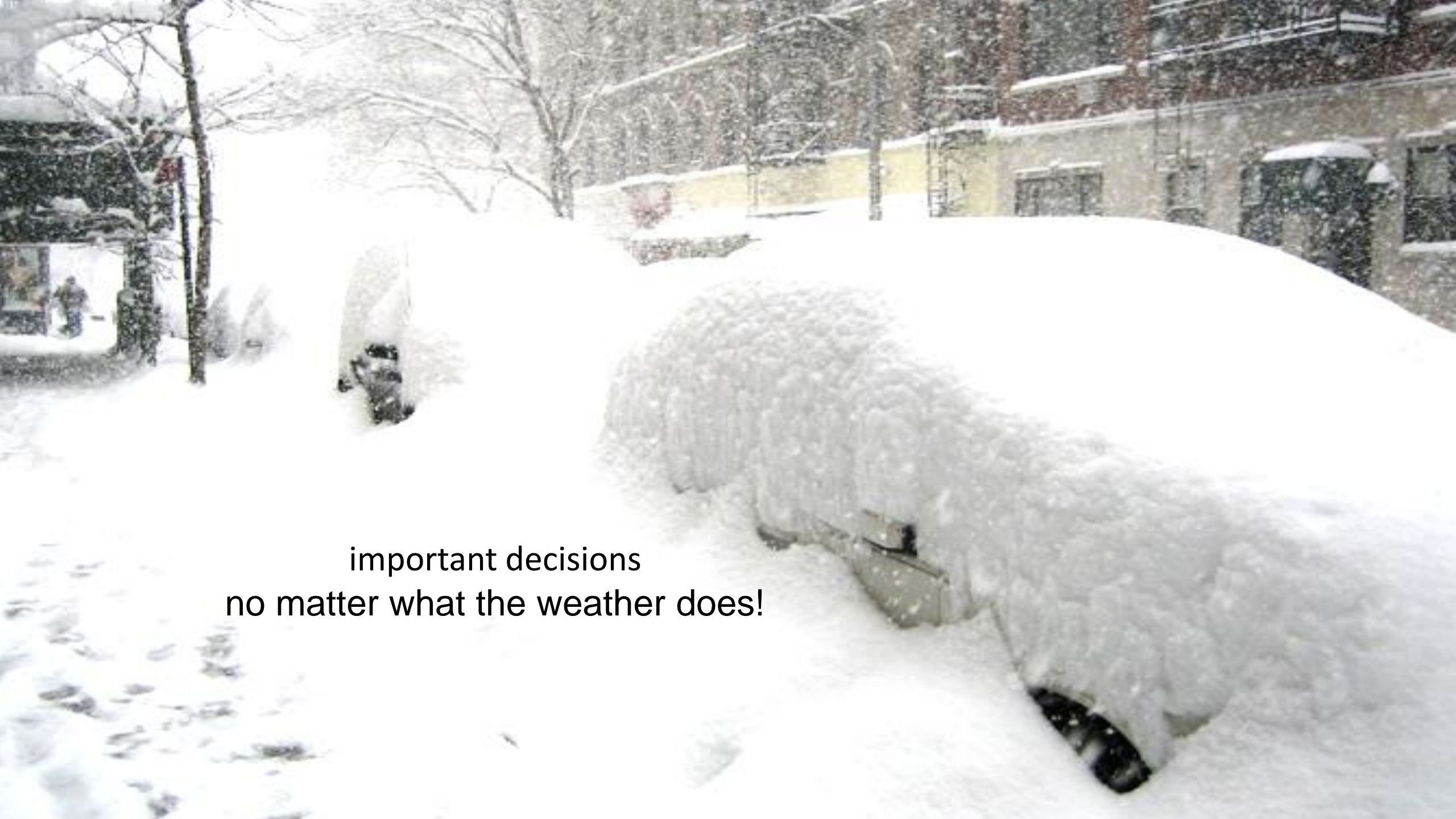


X-ROAD: QUERIES (IN MILLIONS)

In 2015

939 organizations connected
1723 services





important decisions
no matter what the weather does!



What matters is CONTROL not
CONFIDENTIALITY

everybody must be
able to check, **who**,
when and for what
purpose has
used his/her data



Human-readable log of medical data

Kuupäev	Andmed	Isiku nimi	Asutus	Põhjendus
27 veebruar 2015 12:11	ac69ebc6-dcd3-490d-9e13-5a2e31633b69 (Dokumendi registreerimine)	Sirje Multram üldõendus N02011	Tallinna Koolitervishoid SA	
12 jaanuar 2015 15:01	612 (Dokumendi registreerimine)	LEENA ANNUS taastusravi ja füsiaatria D03394	SPORDIMEDITSIINI SIHTASUTUS	
30 detsember 2014 00:32	(Päringud)	AET RAHE	Eesti E-Tervise SA	



BIG BROTHER ~~IS~~
ESTONIAN WAY

*"You will be amazed
about the quality
of your three wishes!"*





Challenges and opportunities of fully digital government

PRIMARY
DATA CENTRE



SECONDARY
DATA CENTRE

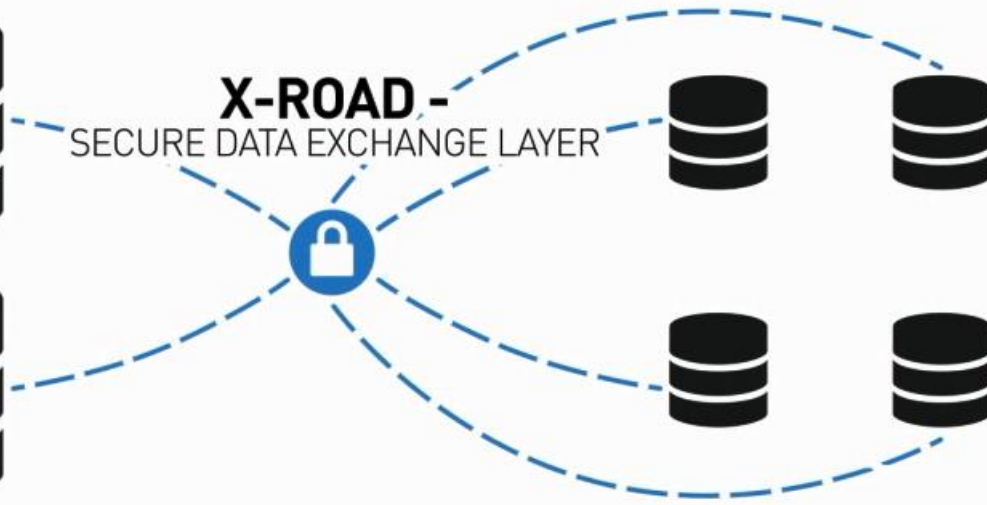


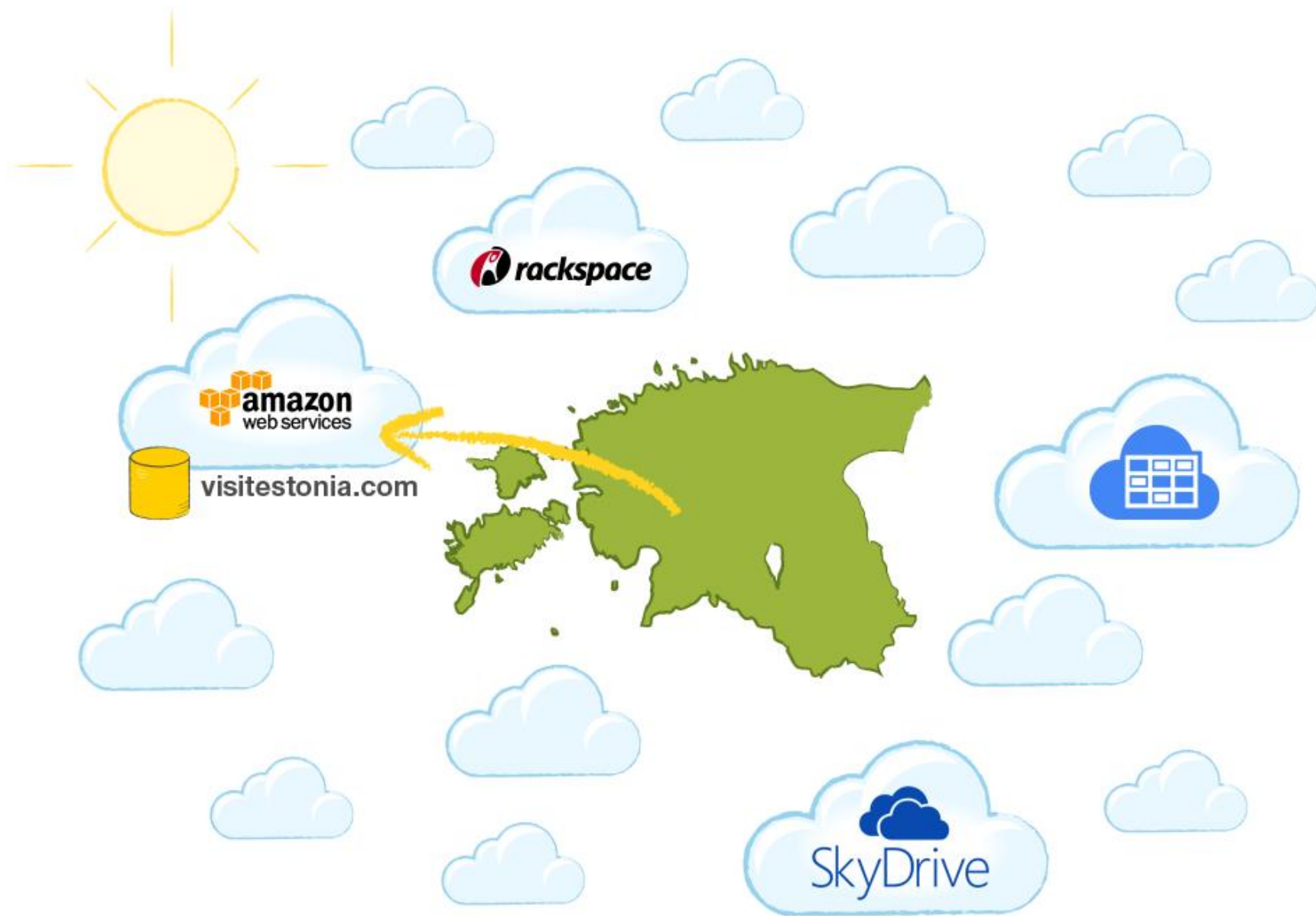
X-ROAD -


SECURE DATA EXCHANGE LAYER



PRIVATE
DATA CENTRES

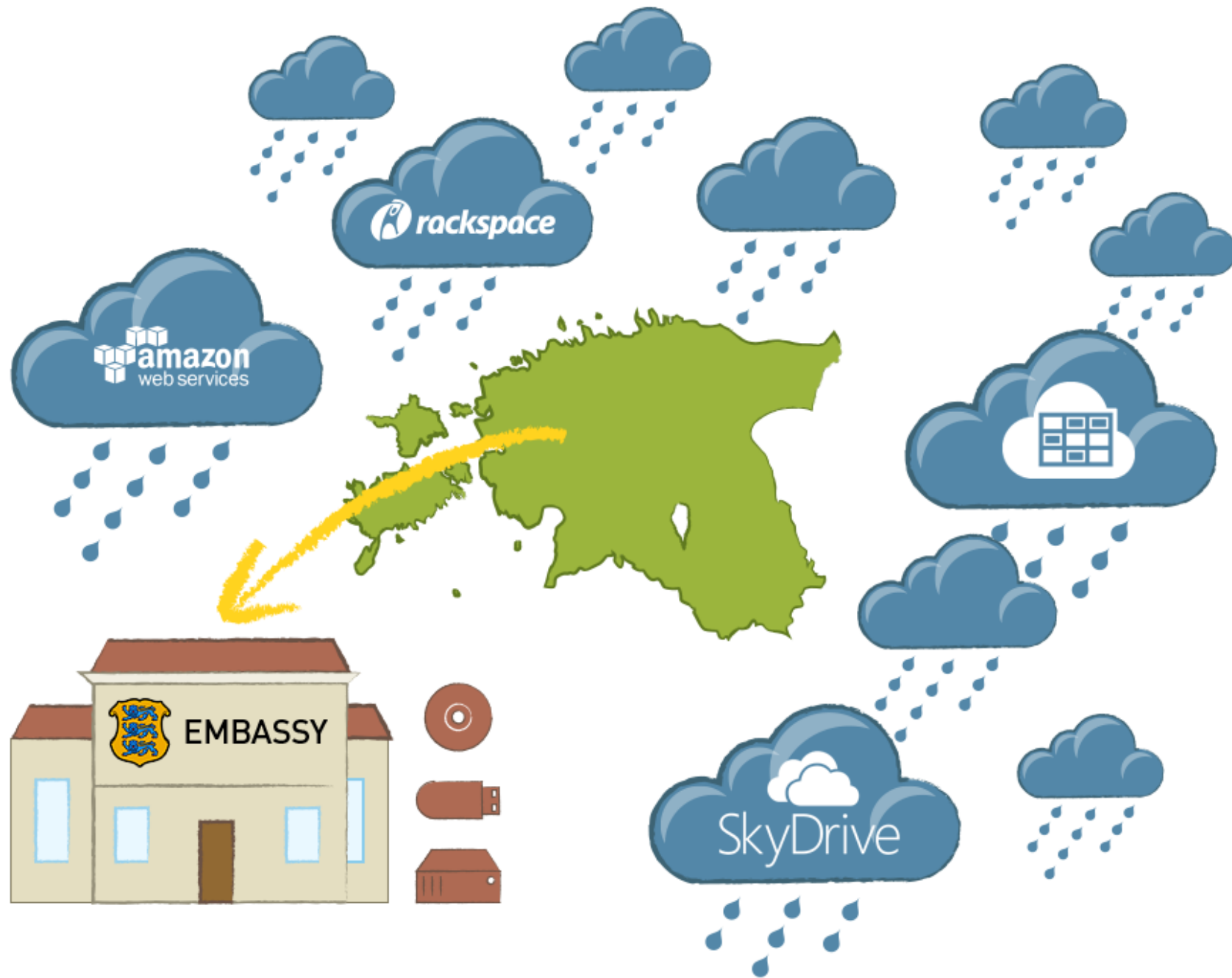


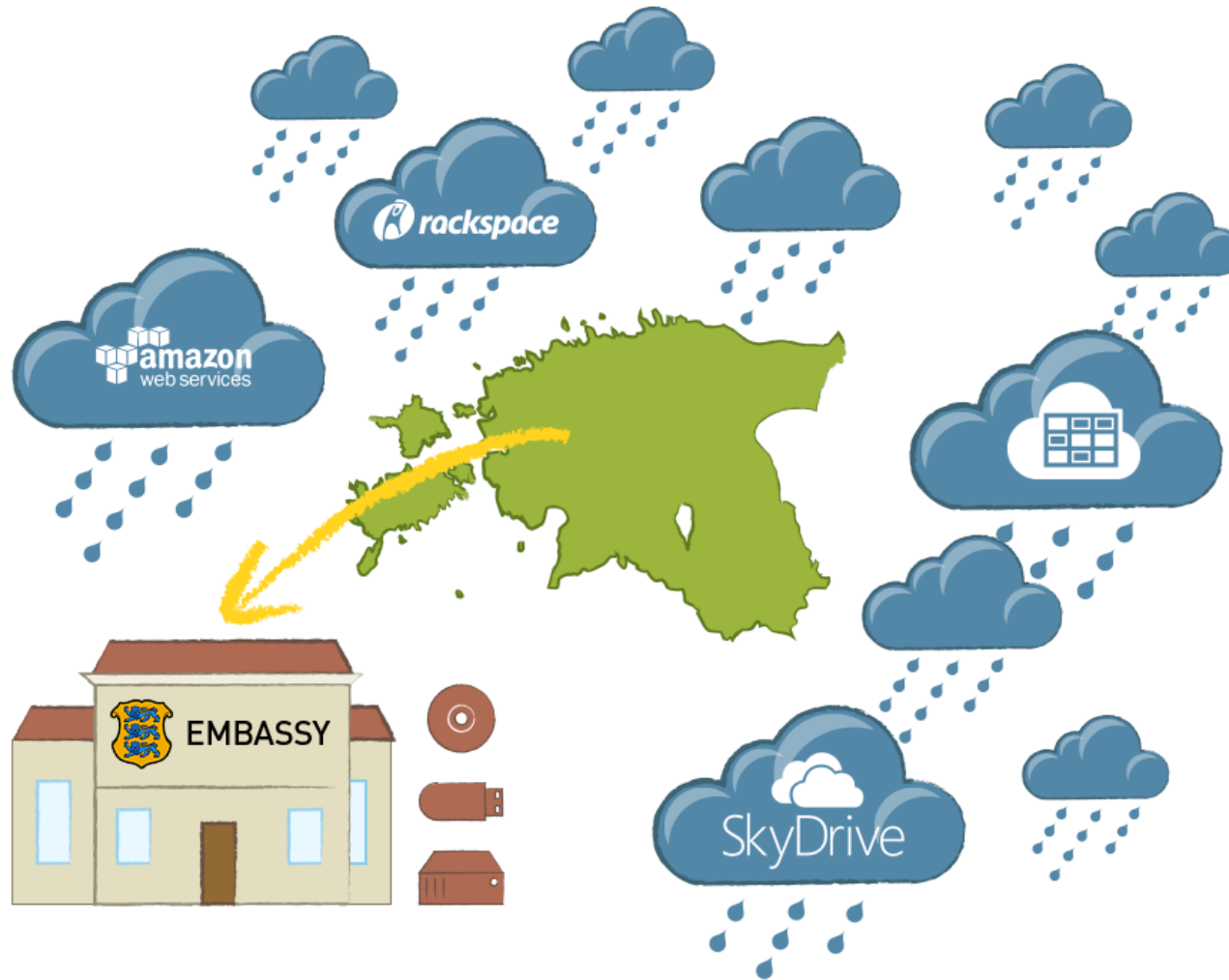


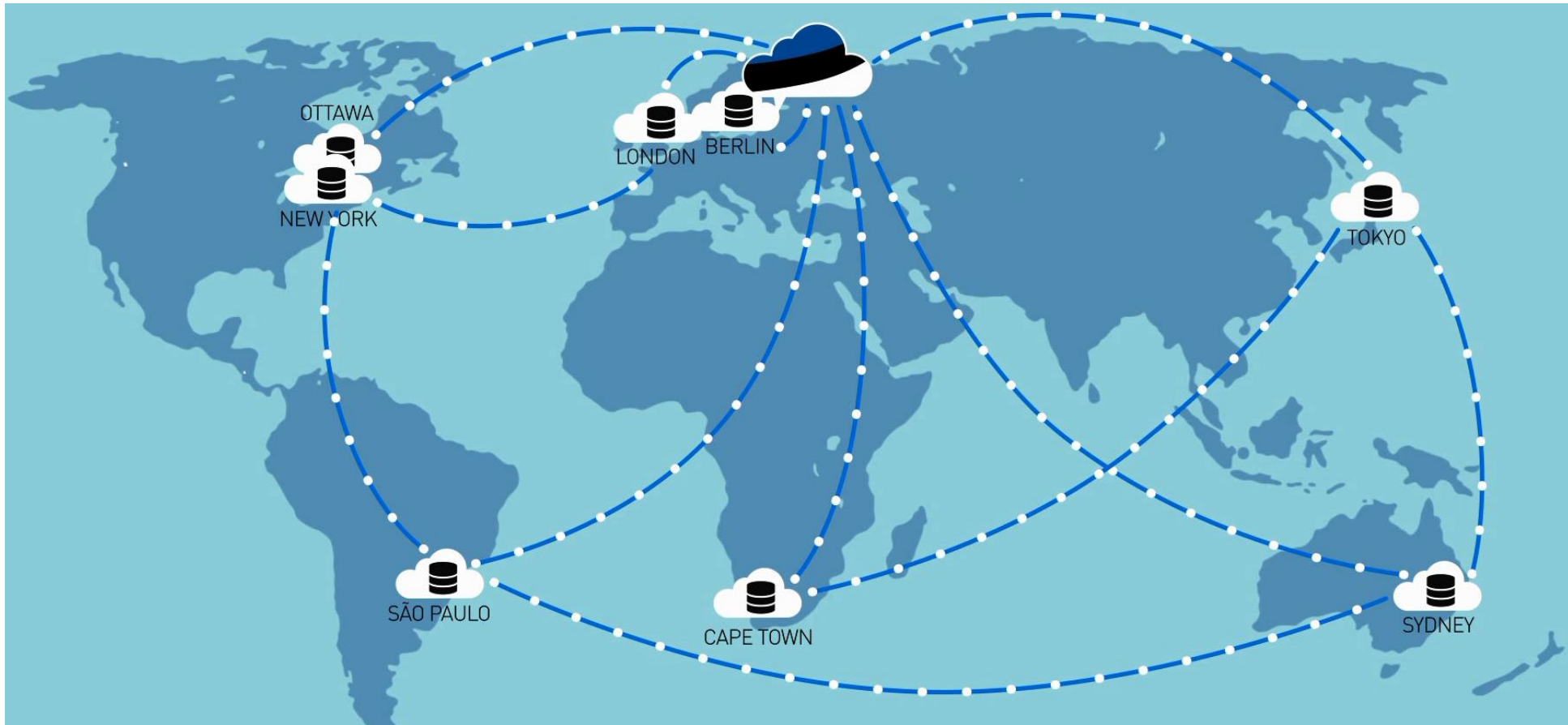
A photograph of Barack Obama sitting at a table in a restaurant, eating. He is wearing a dark suit and a striped tie. A young child with curly hair, wearing a yellow shirt, is sitting next to him, looking up at him. There are white trays with food on the table. In the background, other people are visible, including a woman with her arms crossed. Two speech bubbles are overlaid on the image.

*Dad says
you're
spying us
online*

*He's not
your dad*







2 New initiatives

No Legacy Policy



Why we started dealing with legacy?

- ICT investment management process
- IT budgets comparison
- Lifespan of standard products and devices
- Emerging Technologies
- Proportion of maintenance cost
- Cyber security
- Benefits of open source
- Constant thrive for efficiency

- It doesn't happen organically!

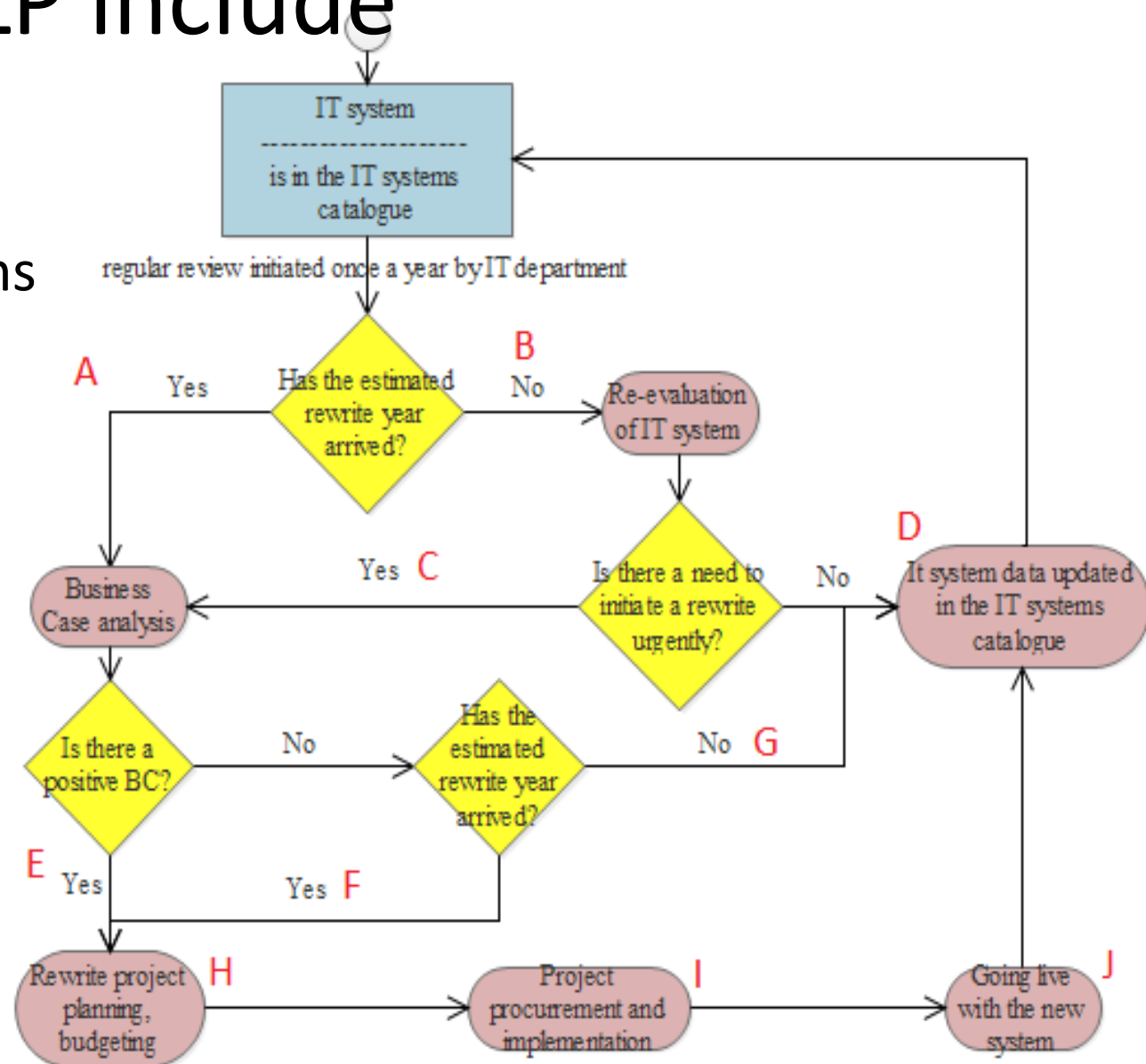
Innovation is an
incremental process

Where's the proof for NLP?

Idea: there should not be any important
government IT systems that are older than 13
years!

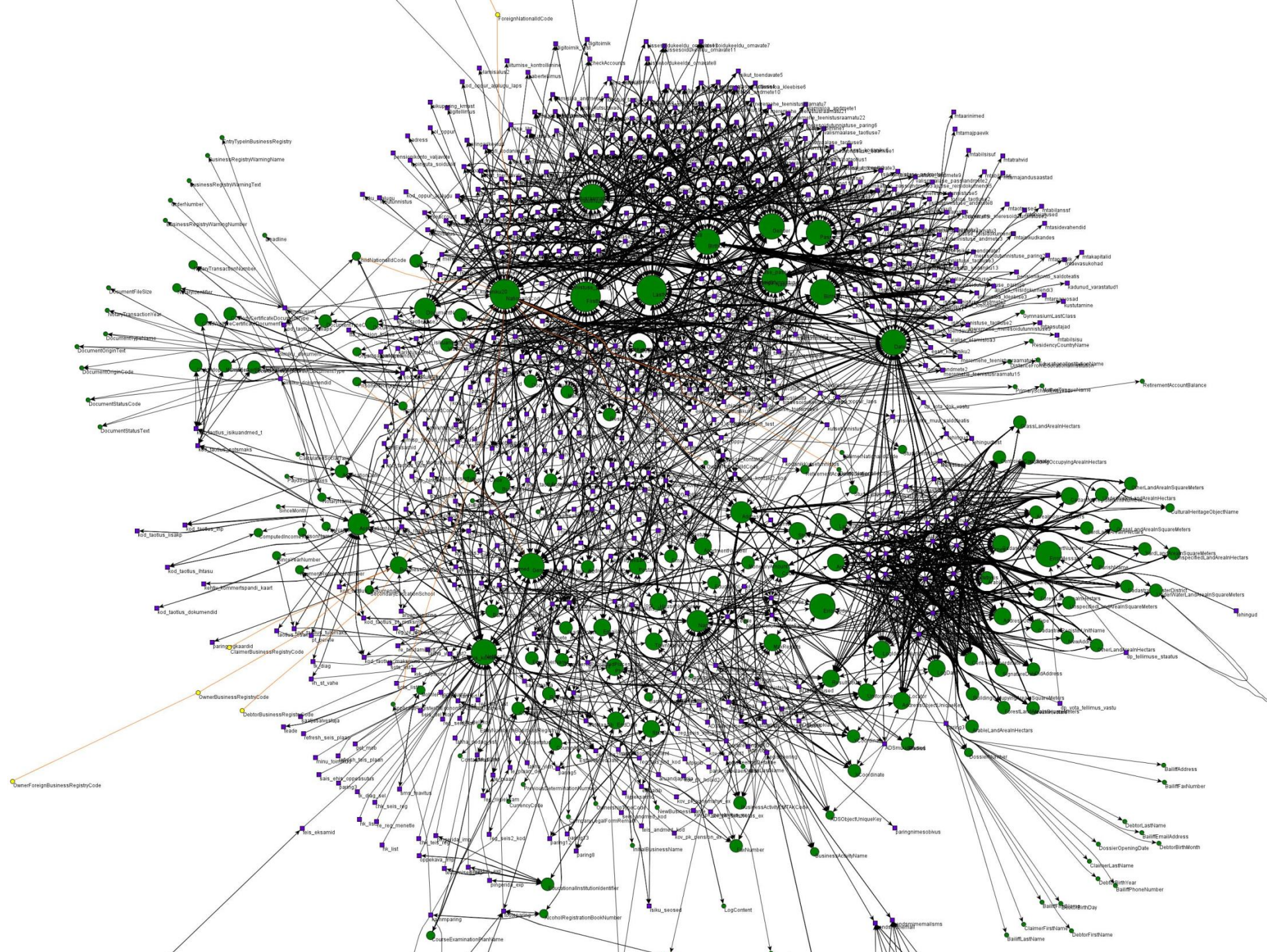
Teaser: what should NLP include

- Mandatory
 - rewrites of mission critical systems
 - business case based approach
 - Portfolio management (IT)
 - Owners (Business)
 - Yearly re-evaluation (technical, business process)
- No excuses
 - Exceptions clearly defined
- Motivation scheme

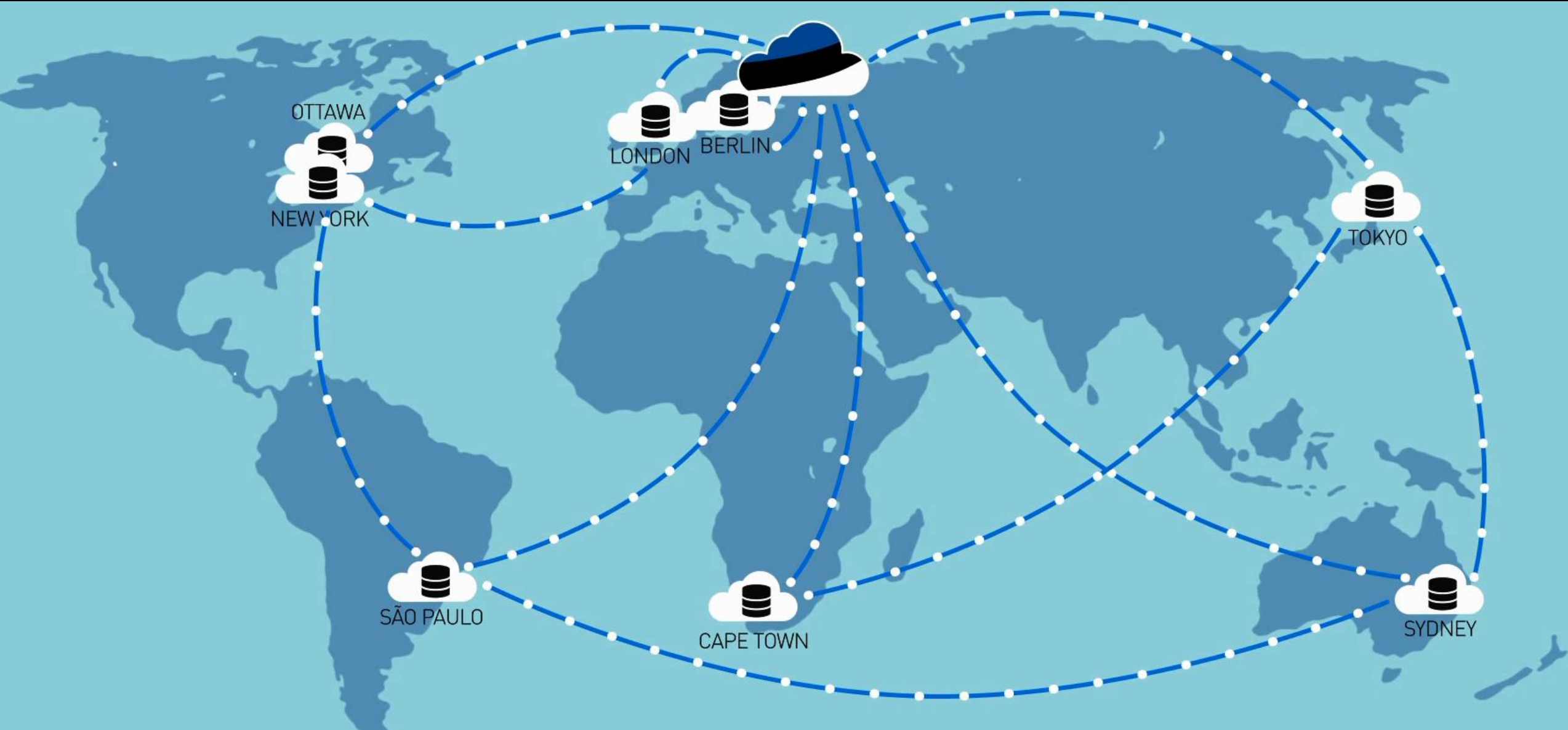


And finally..
If everything is..





Data Embassies



10 million Estonians?





"Kiss me and I'll
turn you into
an e-Estonian"

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
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Facebook

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retailer, has no inventory.

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accommodation provider,
owns no real estate.

Airbnb

Estonia

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

Something interesting is happening.

Why stuff happens first in Estonia?

- Trust your engineers
- No-legacy
- Think Big

Learn more

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- Read more about [e-residency program](#)
- Videos about [e-estonia](#)
- [X-road](#)
- eID and digital signature



Thank you!

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