



REPUBLIC OF ESTONIA
MINISTRY OF SOCIAL AFFAIRS

Development of eServices in Health on Social Care

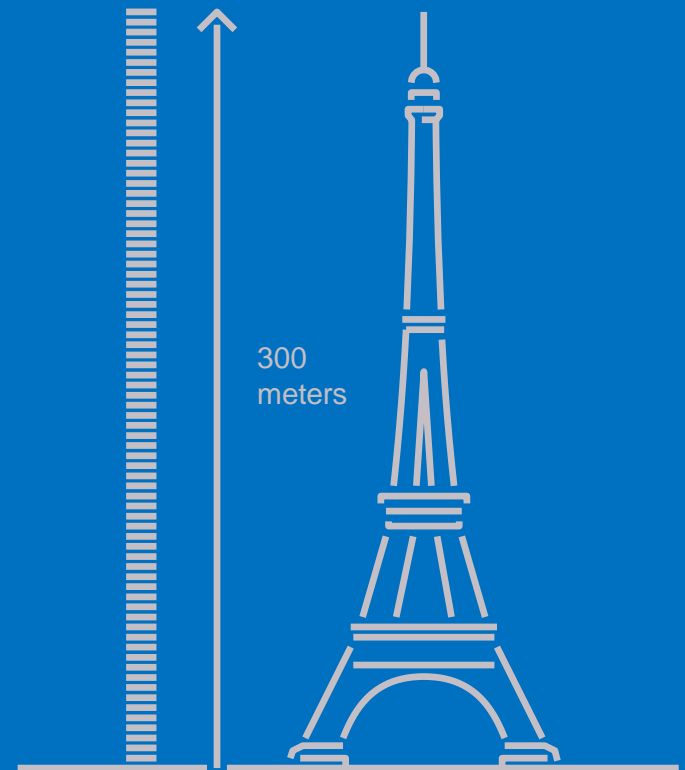
„Smart solutions for sustainable and inclusive societies “
EESC | Tallinn | 12.09.2017

Ain Aaviksoo, MD MPH

deputy secretary general for e-services and innovation (CIIO)

Estonia is a digital society

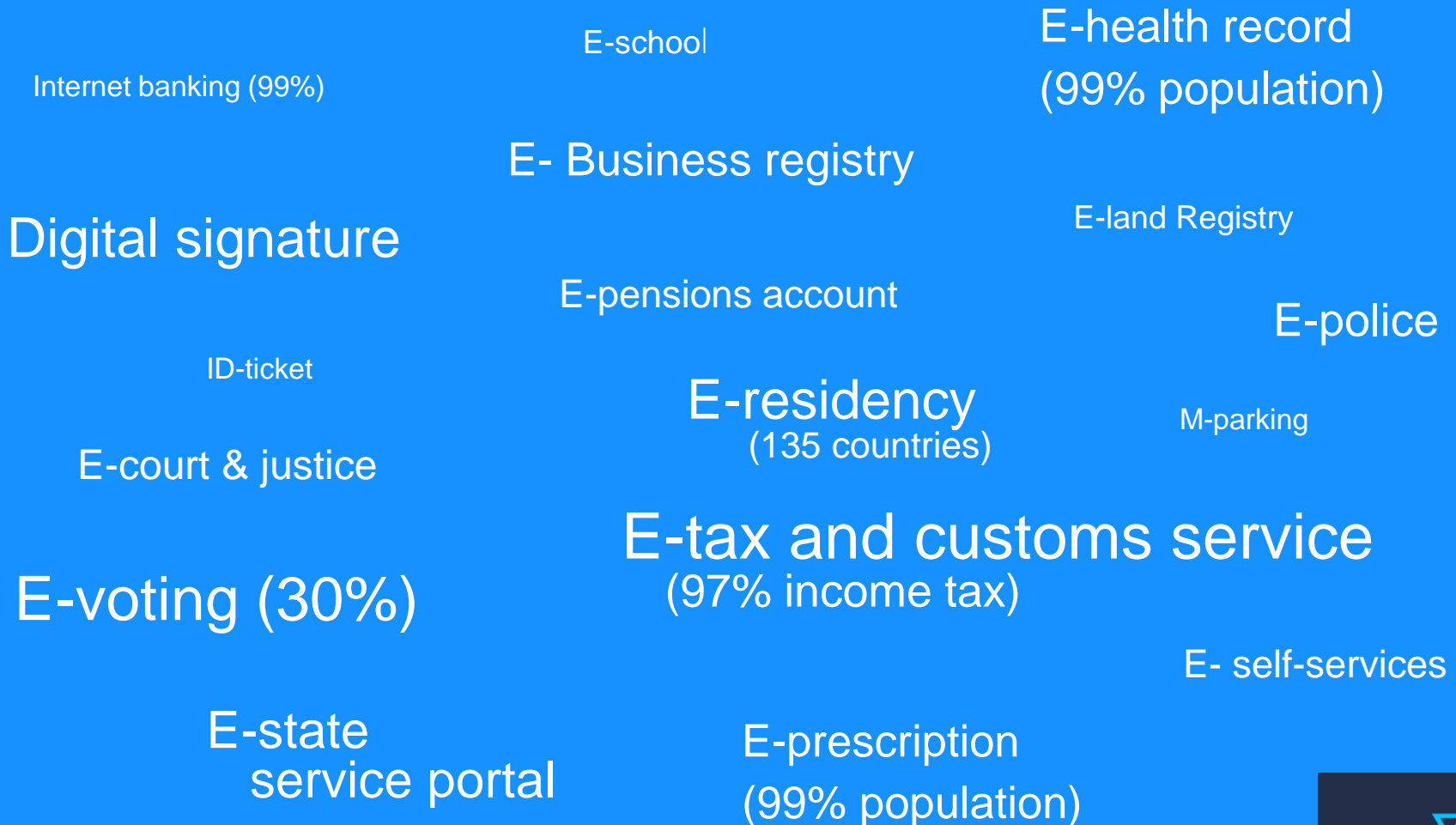
- digital signature saves 5 days a year
- 99% of prescriptions are digital
- 99% state services are online
- ...



A stack of paper saved each month



E-services in Estonia

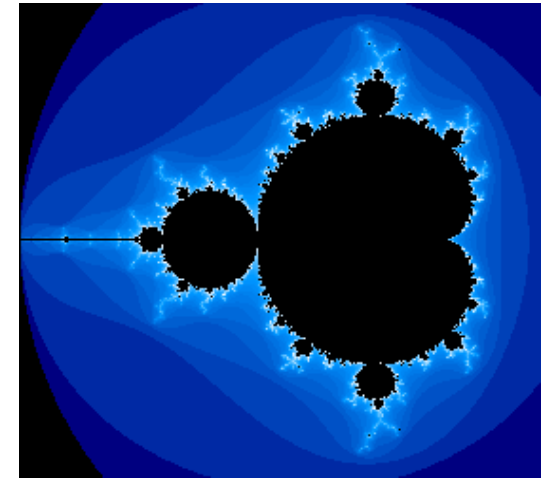


It takes ...

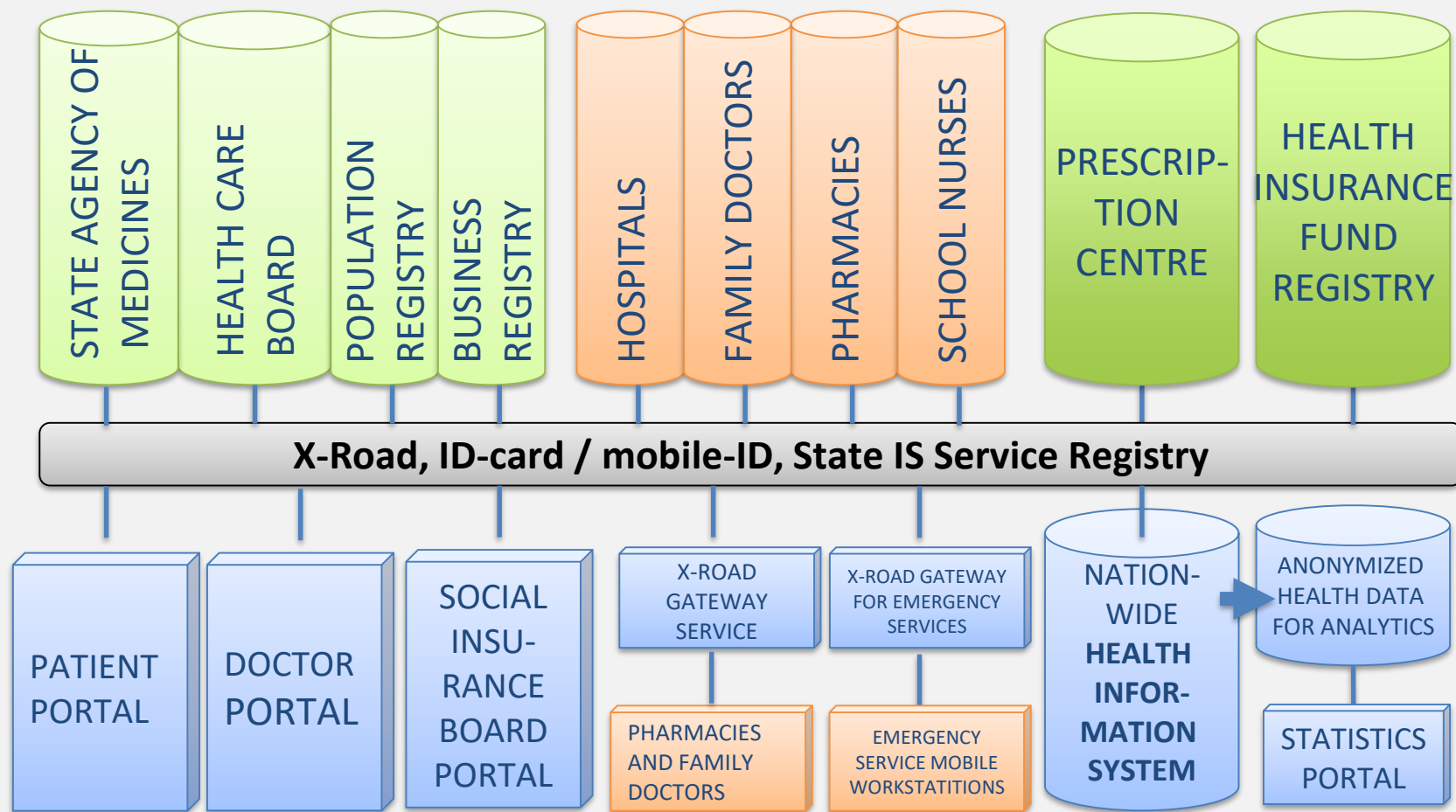
- ✓ lots of **information** from various sources
- ✓ powerful **information systems** to process the data
- ✓ smart **people** to find the meaning from noise or random (though sometimes beautiful) patterns

and ...

... a lot of **trust** (from data subjects)



Secure data exchange – cornerstone of Estonian health information infrastructure



Main services of the e-health in Estonia



EU General Data Protection Regulation facilitates better use of personal data



The new Regulation will also guarantee **free and easy access to your personal data**, making it **easier** for you to see what personal information is held about you by companies and public authorities, and make it easier for you to **transfer your personal data** between service providers – the so-called principle of ‘data portability’.

Privacy means that **personal data** should not be secured from being used, but **to be used securely**

Authentication & Authorisation

Who are you?

Constant anywhere & anytime

Solution = **Unique ID**
(plus robust technology:
ID-card, mobile-ID)

What can you do?

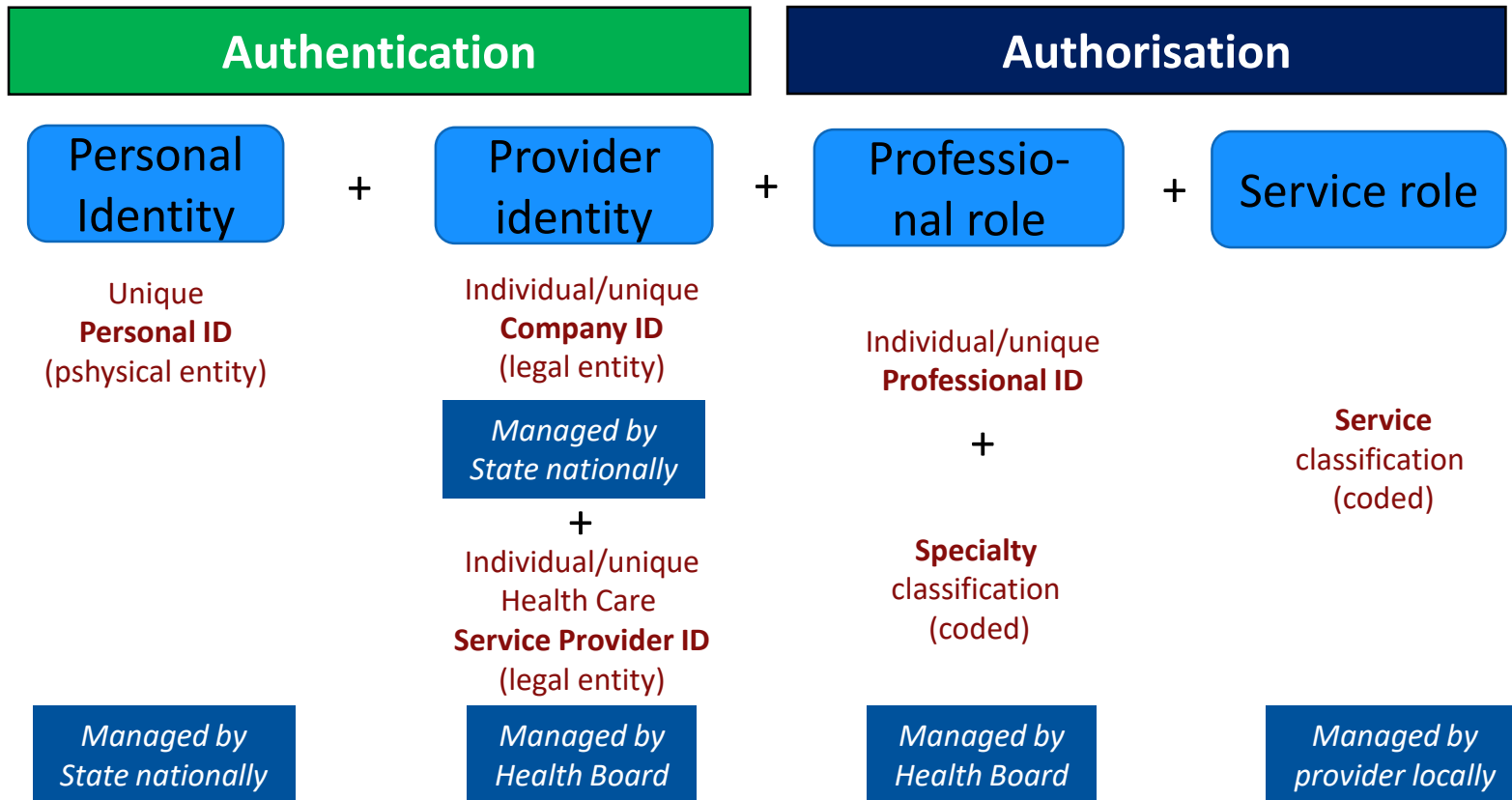
(read, write, delete etc)

Dynamic in space & time (same individual can have multiple roles)

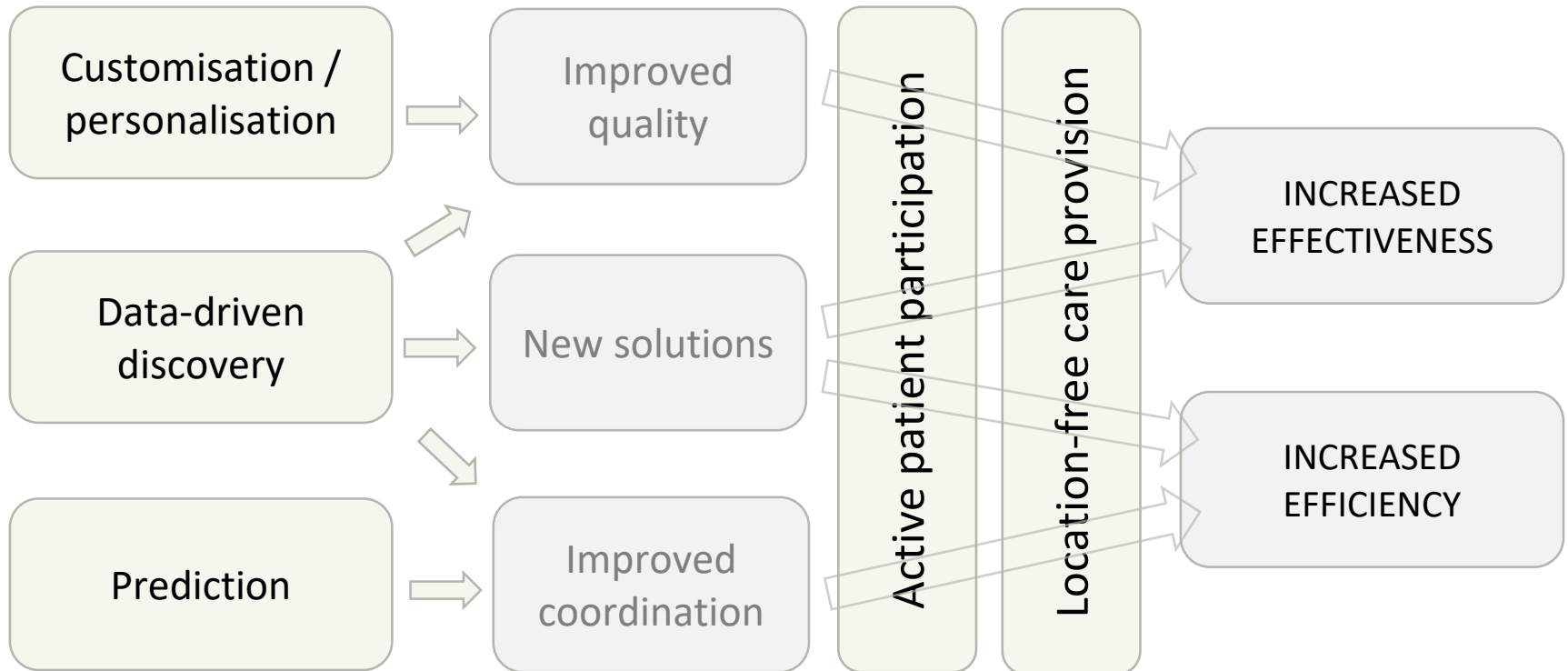
Solution = **classification or roles**
by profession, facility, service etc

Identification in healthcare Estonia

(no difference btw digital or physical identification)



Future health and care is strongly influenced by digital approach



EVERYBODY loves WELL-DESIGNED eServices targeting a NECESSARY problem

**“ 98 % of patients
with average age 68a
used actively
patient-education tools
on iPad
after heart surgery”**


Source: D.Cook jt “Patient Education Self-Management During Surgical Recovery: Combining Mobile (iPad) and a Content Management System” (Telemedicine and e-Health. April 2014, 20(4): 312-317. doi:10.1089/tmj.2013.0219)



From „health data“ to „digital health services“

Русский


Eesti

My e-Health 

VANANENUD TARKVARA
KASUTAMINE ON OHTLIK →

My data


Ain Aaviksoo
37406146510
INSURED
Family doctor:
Katrin Ollikainen

Update 

Represented persons

HANS OSKAR AAVIKSOO
39812310225

HANNA MERILYN
AAVIKSOO
49812310237



DIGITAL HEALTH SERVICES

Health data

[Time critical data](#)

[Dental care documents](#)

[Dental care charts](#)

[Dental status chart](#)

[Passport of Immunization](#)

[Ambulance charts](#)

[Prescriptions](#)

[Referrals](#)

[Invalid referrals](#)

[Valid referrals](#)

[All referrals](#)

[Referrals related to an-appointment](#)

[Health declarations](#)

[Health certificates](#)

[Case summaries](#)

[Out-patient case summaries](#)

[Day-care case summaries](#)

[In-patient case summaries](#)

[Birth case summaries](#)

[Notifications](#)

[Development assessment notifications](#)

[Immunisation notifications](#)

[Growth notifications](#)


[Examination notifications](#)

[Counselling notifications](#)

[Examination results](#)

[Image references](#)

[Referral responses](#)



Health related information

Starting from October, you will find information and materials important to the patients and their family members here

Important updates

Data is updated about your prescriptions. Possibility is developed to see and print out your Passport of Immunization in the future

Just an example ...

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A Comprehensive Rehabilitation Platform for the Continuum of Care

REQUEST A DEMO





estonishing –
dare to fulfill your desires safely!

further inquiries: ain.aaviksoo@sm.ee

Estonian EU Presidency on digital health



EU2017.EE

Estonian Presidency
of the Council of the
European Union

EU has already several important legal acts to support eGovernment across all MS, but these must be **implemented** for the benefit of all European **citizens** fully making use of the opportunities and advantages of the **single market**

Free movement of data in healthcare makes difference through hitting the triple aim

1

Increased access and safety in healthcare can be achieved through **empowered citizens** and **adequate data availability** at the point of care

2

Sustainability of health systems will be supported by **value-based approach**.

3

New economic opportunities, jobs and investment will be created using **data-driven health care innovation**.

Health data should be **used securely**, not to be secured from being used!

eHealth focus areas for Estonian EU presidency

1. The **right of citizens to control** the processing of their health data comfortably and electronically should be **realized in practice**

2. Wider use of health data for **research and innovation**

Citizens truly in
control of their
health and the data
+ system that
support it



Health care as an
asset not cost
item for public
budgets



Conclusions

- ✓ citizens should fully control their (health) data – this is the key to privacy
- ✓ Data integration from various sources leads the way to economic growth
- ✓ Digital Single Market principles should be put into work for the benefit of all EU citizens

Tallinn 2017

high level eHealth conference

„Health in the digital society Digital society for health“

October 16-18, 2017 | Tallinn, Estonia



- ✓ Real-world experience of the benefits and value of digital tools for health, care and prosperity of the societies
- ✓ State-of-art and practical solutions for advancing, implementing and funding health into digital society

Digital Health Society
Tallinn Declaration on eHealth

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