



eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

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TRANSFORMING HEALTH SYSTEM WITH IT

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To be discussed

1. From data accumulation to **information processing**
2. From technology adoption to **service redesign**
3. The cornerstone for **future healthcare**

From data accumulation to information processing

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Ministry of Health
Republic of Latvia

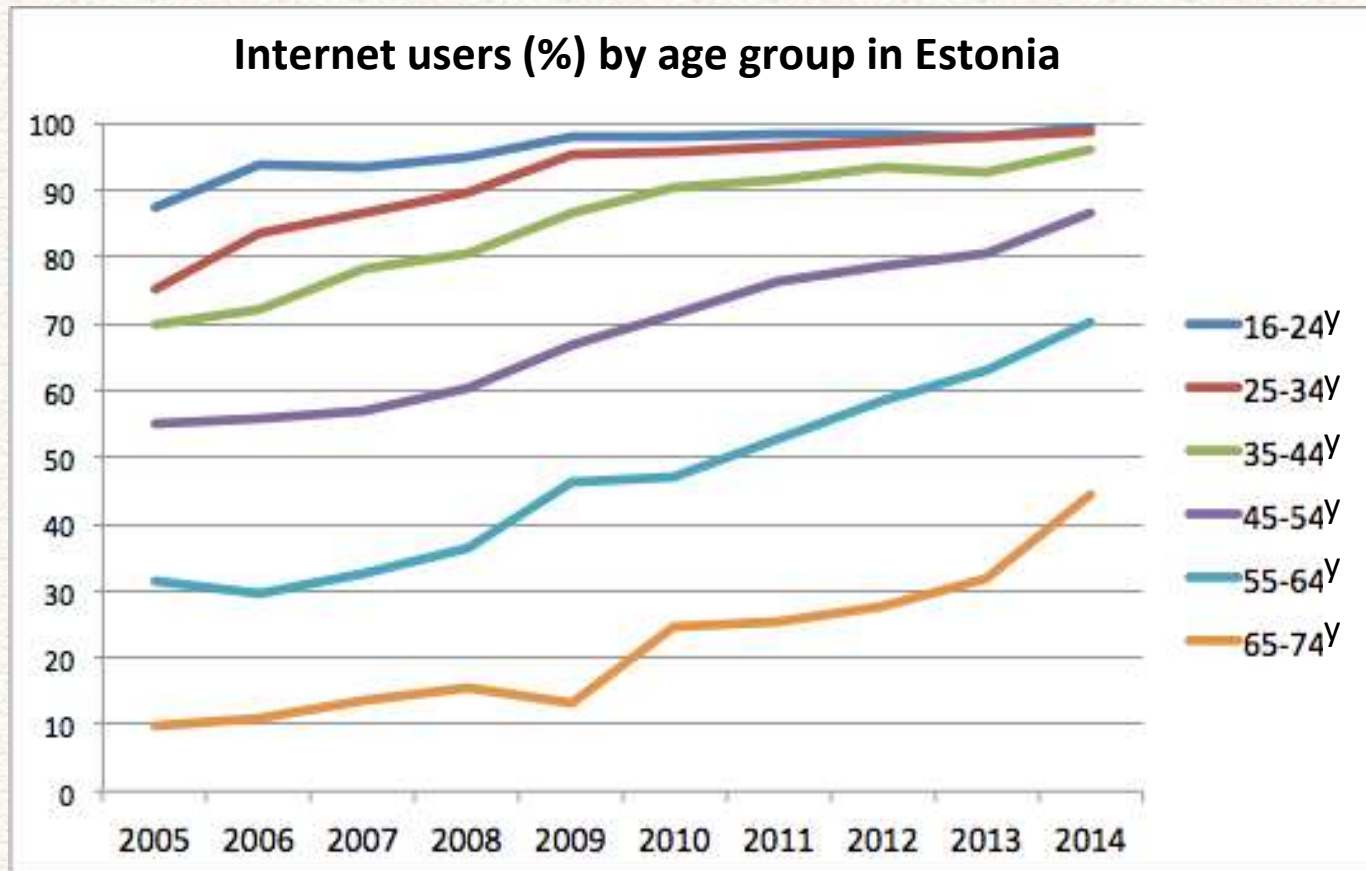
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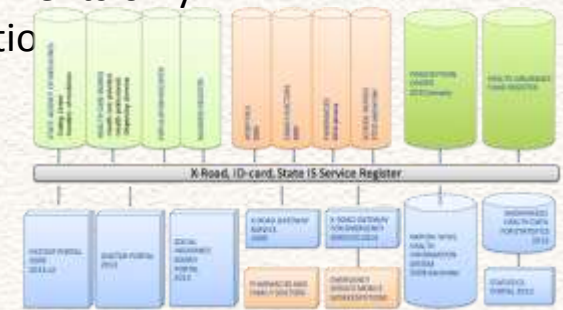
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Almost everyone has arrived to eSociety!



Estonian National Health Information System is successful

- Nationwide medical **data exchange platform** launched in **2008**
- **95% of data** by hospitals and family doctors is **digital**
 - ✓ up to 30% process efficiency - **more services for the same money**
 - ✓ 94% of prescriptions digital - **citizen satisfaction** |
 - ✓ 100% insurance claims digital - **precise state oversight and planning**
 - ✓ 97% of patients have countrywide digital record - **exponential demand for new services**
 - ✓ **60%** of limited workability assessments based on HIS documents only (i.e. without any additional paperwork or medical investigation)
 - ✓ /.../

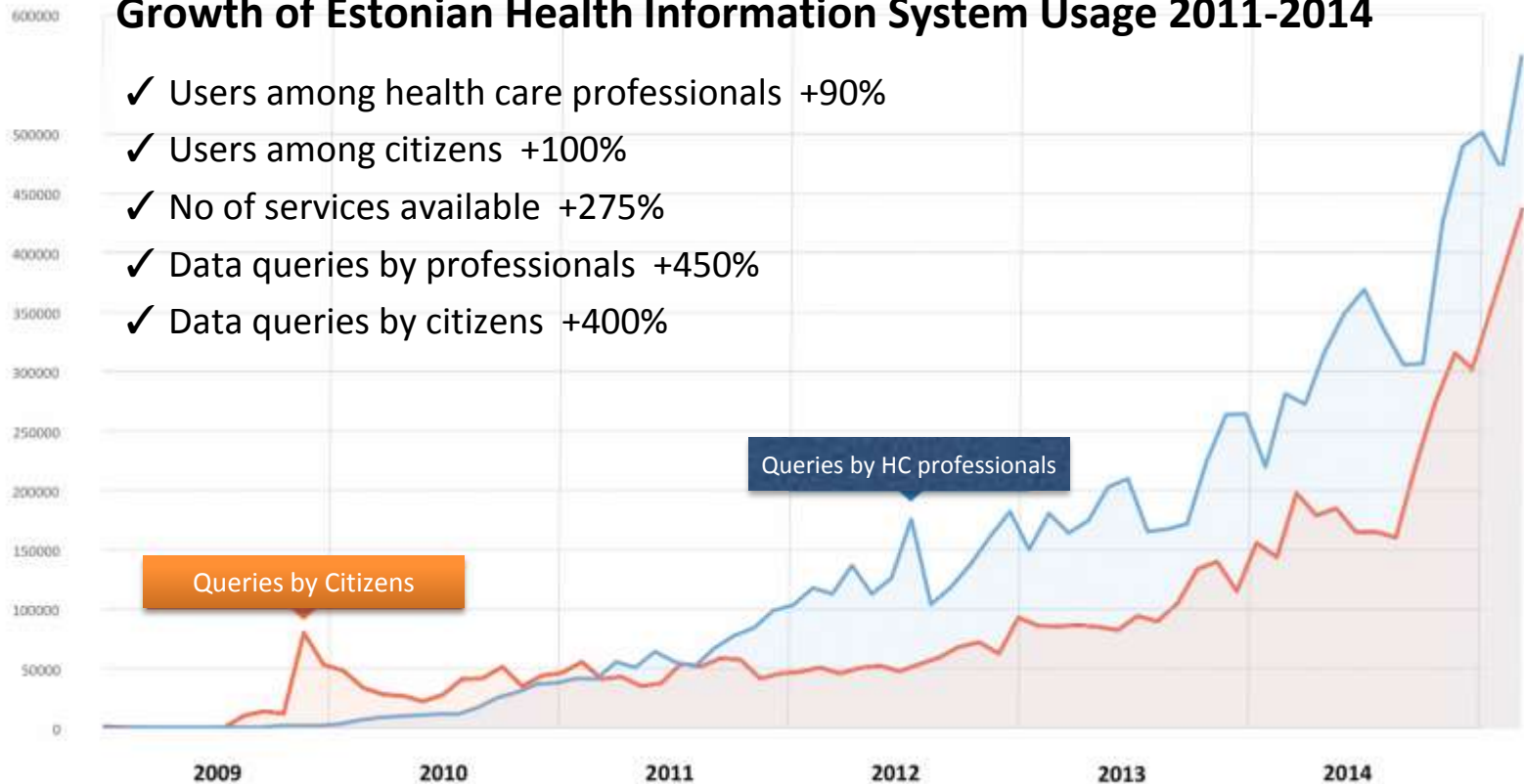


Digital data availability drives the use

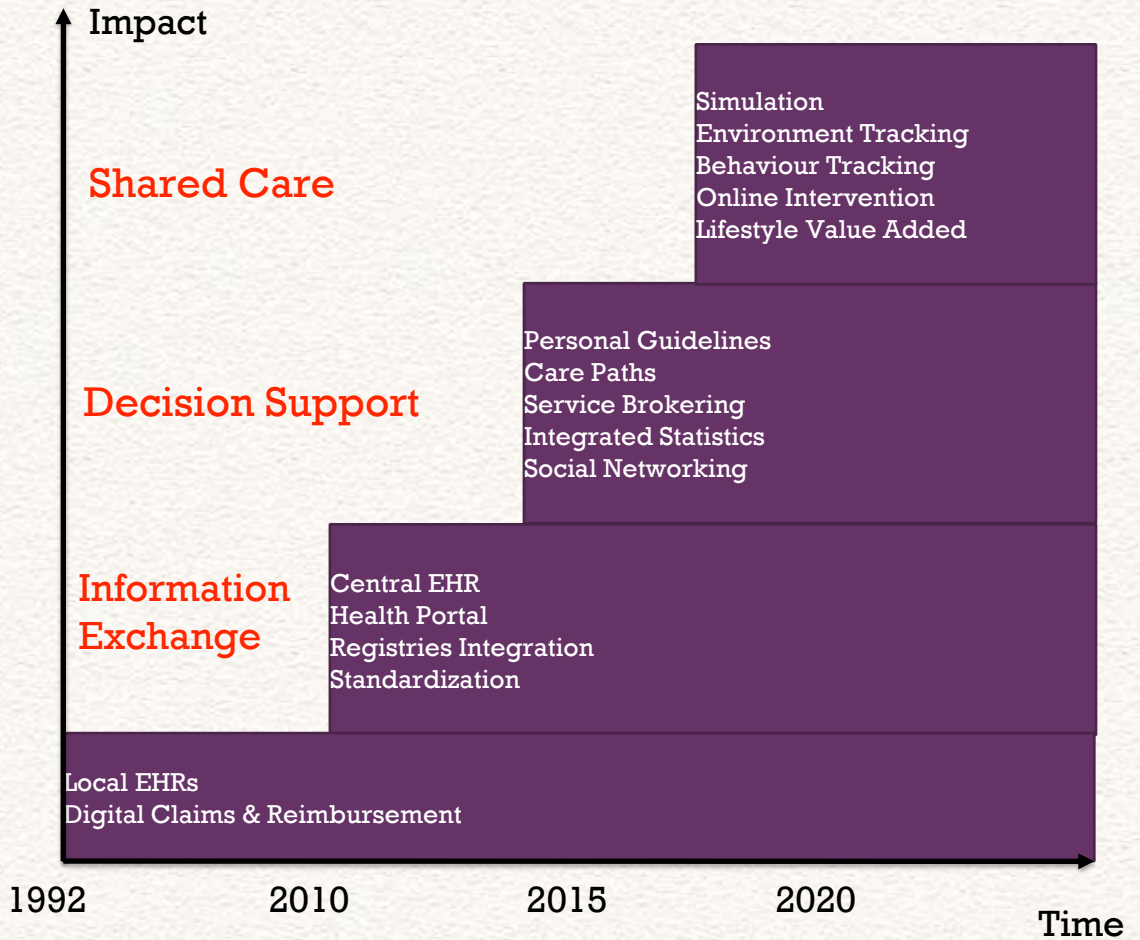
Growth of Estonian Health Information System Usage 2011-2014

- ✓ Users among health care professionals +90%
- ✓ Users among citizens +100%
- ✓ No of services available +275%
- ✓ Data queries by professionals +450%
- ✓ Data queries by citizens +400%

No of queries per month



Vision since 2005...





Key strategic success factors

- (1) Universal mandatory digital data capture by all care providers
- (2) Universal mandatory secure data exchange platform
("X-road" for everybody: all sectors and databases, private & public)
- (3) Data exchange requirement from day one
- (4) Clear and robust legal framework
- (5) Societal trust towards (health) data exchange

From technology adoption to **service redesign**

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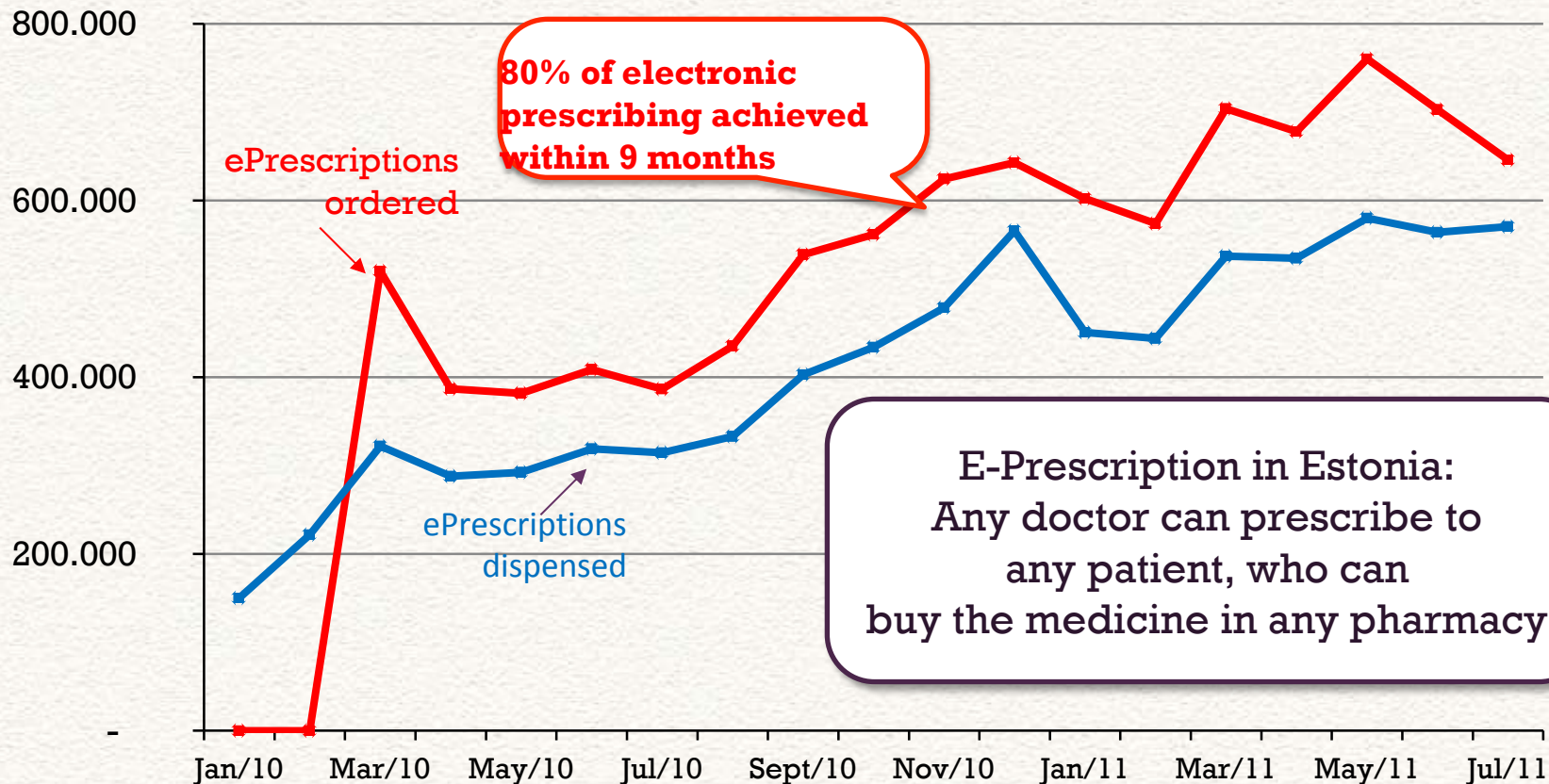
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CASE 1: ePrescription - very fast system-wide adoption of e-services



Inspiration from Mayo Clinic: Well-designed eServices are loved by everyone

**98% of patients
with mean age 68y
used actively
patient educational tool
with iPad
after heart surgery**

*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)*



CASE 2: Digital Health Certificate - integrating services beyond health system

- Health Certificates exchanged digitally between issuing physician and Road Administration
- Pilot start in July 2014
- Digital certificates outnumbered paper-based certificates in 6 months
- Mandatory digital processing in 9 months

Health certificates for driver's license application	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015
<i>paper-based</i>	2874	2744	4146	3824	2673	2250	2289	1911
<i>digital</i>	16	6	74	251	1475	2277	4244	6795

The cornerstone for future healthcare

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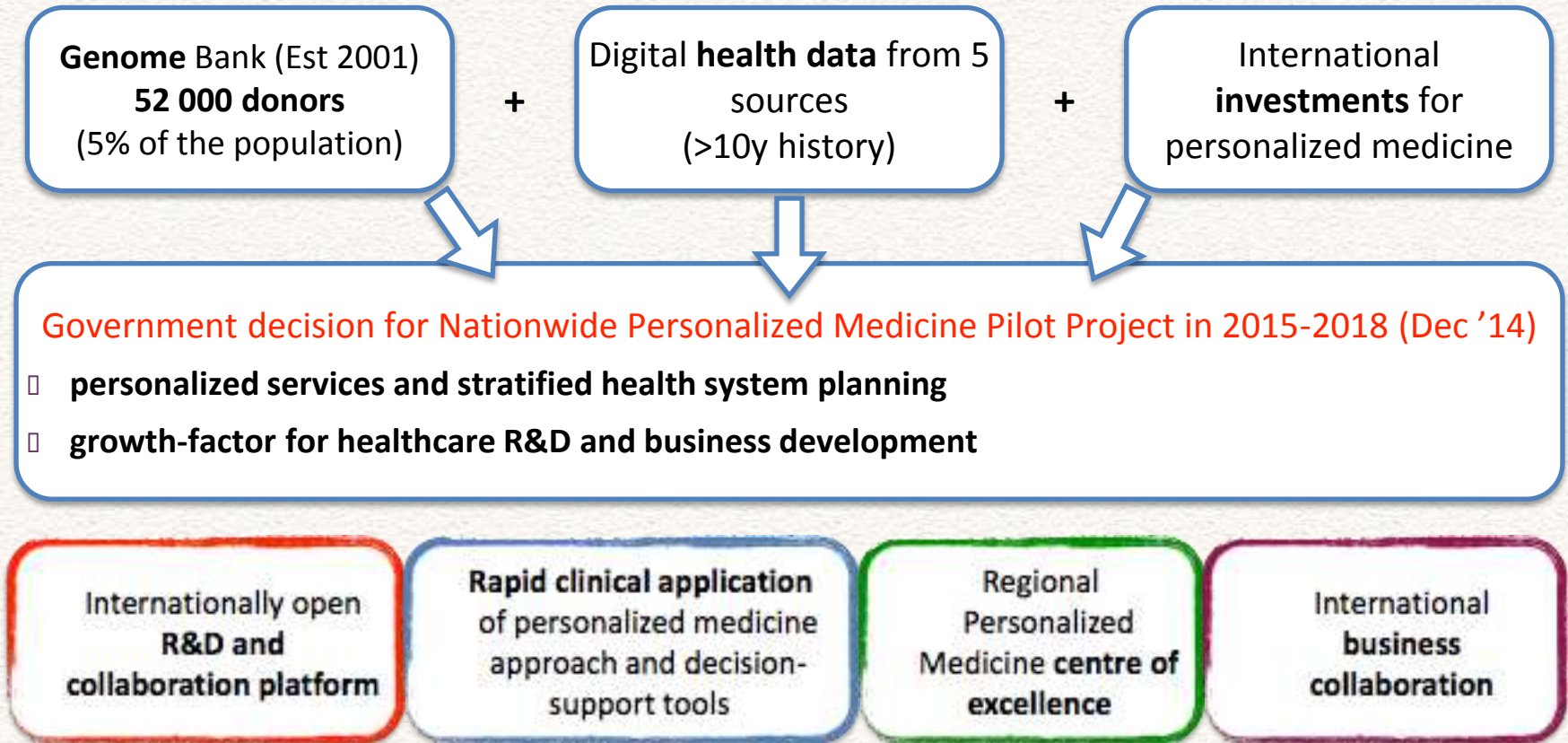
Strategic transformation goals in Estonia's eHealth Strategy for 2015-2020*

Better information - more health!

1. Citizen-centered & **Personalized medicine**
2. Holistic case management and **integrated health & social service network**
3. **Quality & outcome based** service and health policy management
4. **Teleservices** & increased service efficiency
5. Data capture and **information infrastructure** for clinical services, R&D, economic development

Personalized Medicine Pilot Project

An example of the impact of e-health in one strategic focus area





*The time of digital health
has only begun...*



THANK YOU

Ain Aaviksoo

“Transforming health system with IT”

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