

# Opportunities to establish cross-country information exchange and eHealth systems interoperability using epSOS framework

D.Gabaliņa,

Adivisor to Minister of Health, Latvia

14 December, 2012

# Country demographics



- North Europe, Baltic state
- Territory 64 589 km<sup>2</sup>
- Population 2 217 053 inhabitants
- Healthcare budget 457. 492 M EUR, around 3% of GDP
- Internet usage – 62,5%
- Internet banking usage - 47,5%



# National healthcare system



- **Healthcare financing model**
  - State compensated treatment
  - Self – paid services by patients
  - Private voluntary insurance
- **Healthcare network – mix of state and commercial providers**
- **State compulsory service providers**
  - 3 Clinical university hospitals
  - 7 regional hospitals
  - 11 local hospitals
  - 692 ambulatory care centers
  - 762 Pharmacies
  - 1302 General practitioner offices
- **All health care providers: 5625**

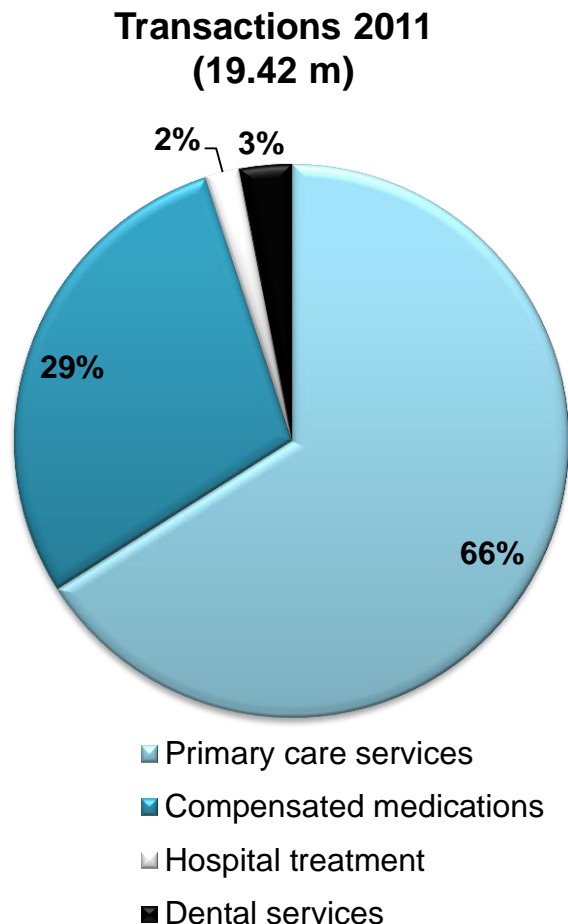


# eHealth in Latvia

- Responsible organization for e-health implementation in Latvia is **National Health Service** (VM NVD)
- eHealth projects are funded by European Regional development fund + budget, current funding ~ 7M EUR
- First strategic documents in 2005
- Information system development started in 2010
- E-governement services in production from 2011
- Piloting – working on that now! (e-booking, electronic health records, portal, IP)
- Production and roll-out planned in 2013



# Achievements – Health care billing (since 2008)



- Fully digitalized data collection process from all points of medical care;
- Fully digitalized billing data processing and electronic payments
- Key functionality
  - Health care personal & institutions register
  - Central health care classifiers
  - Agreements register
  - Billing
  - Patients queue management
  - National healthcare statistics



# Achievements - E-services for citizens (since 2010)



- **My primary care doctor**  
service requests 13078 (+60%)
- **My state compensated healthcare treatment history**  
service requests 47753 (+121%)
- **Medical records for My newborn child**  
service requests 6801 (+70%)
- **My medical records in Central Diabetes database**  
service requests 1365 (+10%)



# eHealth in Latvia: goals (1/2)

- Implement central solution for maintaining of patients health record at national level, assure data access and availability in health care process, create platform for health and clinical information data processing, exchange and analytics
- Extend healthcare service availability and reduce time spent to book GP and specialist appointments for social active part of population;
- Rise doctors productivity by improving and digitalizing data-flows and availability of information, ensure referrals accountability and statistics
- Create central booking functionality and related e-services for citizens
- Digitalize sick-leave notes issuing process and data flows
- Improve billing and refund administration processes for state compensated medical manipulations



# eHealth in Latvia: goals (2/2)

- Process of the electronic transfer of a prescription by a healthcare provider to a pharmacy for retrieval of the drug by the patient
- Assure unified approach for information security and personal data protection policy for all e-health solutions introduced in health care organizations
- Create E-health portal to provide unified user interface for different user groups for work with central e-health systems and to create central internet space for publishing health related information at national level
- Create surveillance IS to provide unified framework to monitor healthcare providers



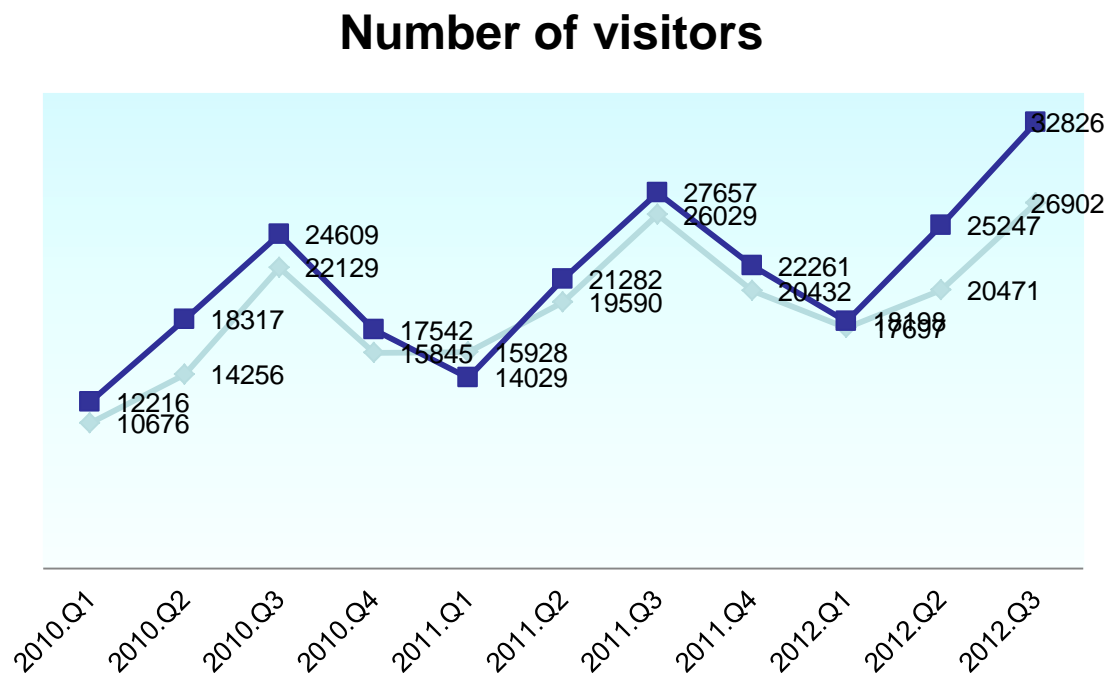


# eGovernment maturity level – basis for cooperation

- E-government maturity level in both Latvia and Estonia is high
  - Availability of e-identification services (LV – 80000 Id cards during 7 months)
  - Usage of state registers to provide trusted data
  - Legislation provides legal framework to live with electronic documents and services
  - Citizens behavior and habits changed - ~ 70% percent of citizens uses Internet at least once a week, 30000 citizens visit Latvia.lv daily



	EE in LV	LV in EE
2010.Q1	10676	12216
2010.Q2	14256	18317
2010.Q3	22129	24609
2010.Q4	15845	17542
2011.Q1	15928	14029
2011.Q2	19590	21282
2011.Q3	26029	27657
2011.Q4	20432	22261
2012.Q1	17697	18198
2012.Q2	20471	25247
2012.Q3	26902	32826



#### Sources

- *Estonians in Latvia: Central Statistical Bureau of Latvia: TU03. Number of visitors in hotels and other accommodation establishments*
- *Latvians in Estonia: Statistics Estonia, TR131: Accommodated tourists by county and country of residence*



# eHealth EU targets

- Action 56: Member States to Engage in large-scale pilots financed by the Competitiveness and Innovation Programme
- Action 75: Give Europeans secure online access to their medical health data and achieve widespread telemedicine deployment
- Action 76: Propose a recommendation to define a minimum common set of patient data
- Action 77: Foster EU-wide standards, interoperability testing and certification of eHealth
- Action 78: Reinforce the Ambient Assisted Living (AAL) Joint Programme

<https://ec.europa.eu/digital-agenda/en/news/putting-patients-driving-seat-digital-future-healthcare>



# epSOS

- Key goals are to improve the quality and safety of healthcare for citizens when travelling to another European country.
- epSOS aims to design, build and evaluate a service infrastructure that demonstrates cross-border interoperability between electronic health record systems in Europe, by developing a practical eHealth framework and ICT infrastructure that enables secure access to patient health information among different European healthcare systems
- Time period: 1<sup>st</sup> July 2008 - 31<sup>st</sup> December 2013
- Participants: 23 different European countries: 20 EU member states and 3 non-EU member states.



# Latvia and Estonia cooperation challenges

- Language
  - Terminology
  - Classifiers
  - Legislation
  - Technologies?
  - Practical issues
- In terms of European Interoperability Framework
    - Legal Interoperability
    - Organisational Interoperability
    - Semantic Interoperability
    - Technical Interoperability





Pārresoru koordinācijas centrs



RIIGIKANTSELEI



LATVIJAS REPUBLIKAS ĀRĻIETU MINISTRIJA



SSE RIGA



IZGLĪTĪBAS un ZINĀTNES  
MINISTRIJA



# Thank You!

Contact me:

[Dita.Gabalina@vm.gov.lv](mailto:Dita.Gabalina@vm.gov.lv)