Centre for Health and Technology

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Current state in e-Health applications in Finland,
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Background

Current situation

Current activities

Thoughts - discussion
- Specifies the future needs of the health and wellness sector
- Allows direct access to high level research and innovations for industry and society
- Fostering collaboration in RD between organizations and different sectors
- Builds strategic international networks
Basics of health care organization in Finland

Population 5.4 million
Public sector covering about 85% of health care

Specialized health care:
21 hospital districts (5+16)
about 70 public hospitals

Primary health care
161 health care centres
provided by municipalities

Private sector covering about 15% of HC
Telemedicine, early 70`s

- teleradiology, tele EKG

- 90`s TELE
  - radiology, dermatology, pathology, education...

- End of 90`s routine – part of daily routines

- 2000 focus much on EHR and eHealth services
Electronic Patient Record (EPR) 5 implementation in Finland 1999-2010 (Availability)

Hospital Districts

Primary Health Care
EHR systems in use

Sama järjestelmä*
- Abilita
- Effica
- GFS
- Mediatri
- Pegasos
- Uranus
- Esko

*saman merkkinen tietojärjestelmä sairaanhoitopiirin kanssa. Toteutus erillinen tai yhteinen
A new law from 5/2011 allows all public health care providers within one hospital district to see all patient information from other institutions, provided the patient has not prohibited this!

- I can now with a click of mouse see information from all the hospitals in my district, a feature that was technically available since 2002!

Jarmo Reponen, by EPR developed in Oulu year 2002

**2011**

**NATIONAL activities**

**KanTa-hanke** – National Archive by MOH – THL-KELA

**SaDe-ohjelma**

Sosiaalihuolto
eHealth 2012

- ePrescription
- National Pharma database
- eArchive
- eView

Regional → National

Personal

Build up platform and core services for pre-production phase
Support usage of citizens and healthcare professionals
Create PHR ecosystem

Enable PHR services to every Finnish citizen
Interested to use eHealth services via Internet

Case: Oulu Self Care effectiveness study 2009
Digital health Service for Citizens:

• Local/Regional organizations develop **own solutions**
  
  Oulu Omahoito, Espoo

• **Local processes** – local products and local systems

• Local solutions how to implement national and international **standards**

• National level health services are few:
  - terveyskirjasto.fi; tohtori.fi; terveyskeskus.fi
eHealth services for citizens – projects with public funding
Benchmarking Finland – what do the reports say?

ICT use among GP level practitioners in Europe (2008)

- DK, NL, FI, S, UK emerge

- availability and use of computer 100% FI

2011 Deloitte & Ipsos Study, based on 13 Indicators on eHealth

- Nordic countries, UK, Belgium and NL have highest scores
Where we are

1) First step is taken – national EPR coverage reached

2) Regional level of data exchange – almost there

3) National data exchange - under construction

Next focus:

Digital services fo citizens
- basic infra OK
- Readiness among consumers is HIGH
- DECISIONS; DECISIONs !
Koottua tietoa
kansalaisen
omaksi hyväksi

Palvelut, esimerkiksi:
- Terveyspäiväkirjat
- Laboratoriotulokset
- Kroonisten sairauksien hallinta
- Esitiedot
- Reseptit ja lääkitys
- Kuntoutus ja valmennus
- Viestintä ja tiedon välttys terveydenhuollon kanssa

Terveyttä koskevat tiedot ja kotimittaukset
- Liikuntaan liittyvät tiedot ja mittaukset
- Ravintopäiväkirja
- Terveyden ja hyvinvoinnin analyysipalvelut
- Vertais- ja lähimmäistuki

Taltioniin kansalainen voi tallentaa, kerätä, tuottaa, jakaa ja hyödyntää omaa terveyttä ja hyvinvointia koskevaa tietoa
DECISION layers!

NATIONAL

Ministry of Health, Ministry of Dinance
THL, KELA,

REGIONAL

21 Health Care Districts

Local

80 - 400?
Current Trends – health care in US
(Eeva Kiuru OWI –collection from US reports)

1. COST REDUCTION!
2. EFFECTIVE PROCESSES
3. Digital health
4. Open, big data
5. SENSORS
6. EMPOWERED CITIZEN
7. CONSUMERISM
8. SMART PHONE ADDS

tagxedo.com

This year:
1.08 billion USD VC funding to digital health 1-9/2012
MOBILE HEALTH TRENDS (US)

1.) The Adoption of Smartphones and Tablets.
2.) Increased FDA Clarity
3.) Consumer Devices in the Healthcare Enterprise. BYOD
4.) More Efficacy Studies
5.) Certification of Health and Medical Apps.
6.) Focus on Behavior Change.

7.) Many more app developer Challenges. Health 2.0
8.) Investment Dollars Hold Steady.
9.) Silicon Valley Gets Serious About Healthcare.
10.) Payors offer More Substantial Mobile Services (Insurance)
11.) Three Big Mobile Opportunities for Pharma: Marketing, Clinical Trials, Adherence.
12.) A Home Health Shakeout.

It’s still one of the core markets for mobile health, lots of opportunity, but some of the weaker companies’ time has run out.
MOBILE HEALTH TRENDS US VERSUS FI

1.) The Adoption of Smartphones and Tablets.
2.) Increased FDA Clarity
3.) Consumer Devices in the Healthcare Enterprise. BYOD

YES – in personal use
National governance and regulations?
BYOD- Traditionally just NO
4.) More Efficacy Studies
5.) Certification of Health and Medical Apps.
6.) Focus on Behavior Change.

4. Research and projects – opportunity
5. No major stakeholders – general MD methods
6. YES- wellbeing applications – HeijaHeija – Sport Tracker
7.) Many more app developer Challenges. Health 2.0
8.) Investment Dollars Hold Steady.
9.) Silicon Valley Gets Serious About Healthcare.

7. Health 2.0 – international other forums - must for companies
8. VC and Business Angels – wait for cash flow – risk taking?
9. Is the Finnish market the right one?
10. Payors offer More Substantial Mobile Services (Insurance)
11. Three Big Mobile Opportunities for Pharma: Marketing, Clinical Trials, Adherence.

10. It isn’t the money – it is the attitude for the change
11. ? Is the train already gone?
12. True – but still an open market – who makes the service system plus citizens to merge?
IT IS TIME to CHANGE the health care system!

National level
- Decisions!

Regional level
- Decisions!

Local level
- Decisions!
• Thank You

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Your networking partners in Oulu, Finland

- Co-creating sustainable connected health solutions
- Driver of business and industries
- From ideas to successful business in wellness
- Delivering leadership for the development of connected and mobile health markets and practices across Europe and beyond