

11-12 MAY 2015 INTERNATIONAL EXHIBITION CENTRE KIPSALA RIGA, LATVIA

IN CONJUNCTION WITH



mHealth, Quantified Self and Big Data - How can we Unite all Patient Data for safe and secure personalized care?

# APOTTI - A FINNISH APPROACH TO UNIFYING PATIENT DATA WITH SOCIAL CARE

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Jari **Renko** works as the CIO of the Helsinki University Hospital group and as the Technology Director of the APOTTI- program. His primary goal is making Information Technology serve the core processes of the healthcare organisations in the Helsinki region in Finland and taking them one step further. His primary responsibilities are developing innovation, flexibility and process efficiency by bringing together the right people, right knowledge and the right information management tools.





# A co-operative multi-organisational project

- Apotti is a true co-operative change project. Participants include the local governments Helsinki, Vantaa, Kirkkonummi, and Kauniainen, as well as HUS (the Hospital District of Helsinki and Uusimaa). The other HUS-district municipalities also have an option to participate in the project via a joint procurement entity (KL-Kuntahankinnat Oy).
- A Program Bureau, in cooperation with the member municipalities and HUS, manages the program. The Bureau comprises of experts from the Health Care, Social Welfare and ICT sectors.

Altogether

~ 30 hospitals, including an University Hospital group

~ 40 health stations

~ 50 social welfare offices

Population:

Apotti area ca. 1,5 million

(Finland ca. 5,4 million)



# Multi dimensional benefit goals of utilizing data-driven healthcare and social welfare with unified patient/citizen data

## Benefits for Citizens

- Up-to-date data is available without delay wherever it is needed: improved client and patient security as well as faster service
- It will be easier for clients/patients to take ownership their own well-being

## Benefits for professionals

- Improved usability, more time for the client/patient
- Up-to-date client/patient data is available securely without delay, regardless of location
- Work support: reminders and actions triggered by events, operations management

## Benefits for the management and organisational planning

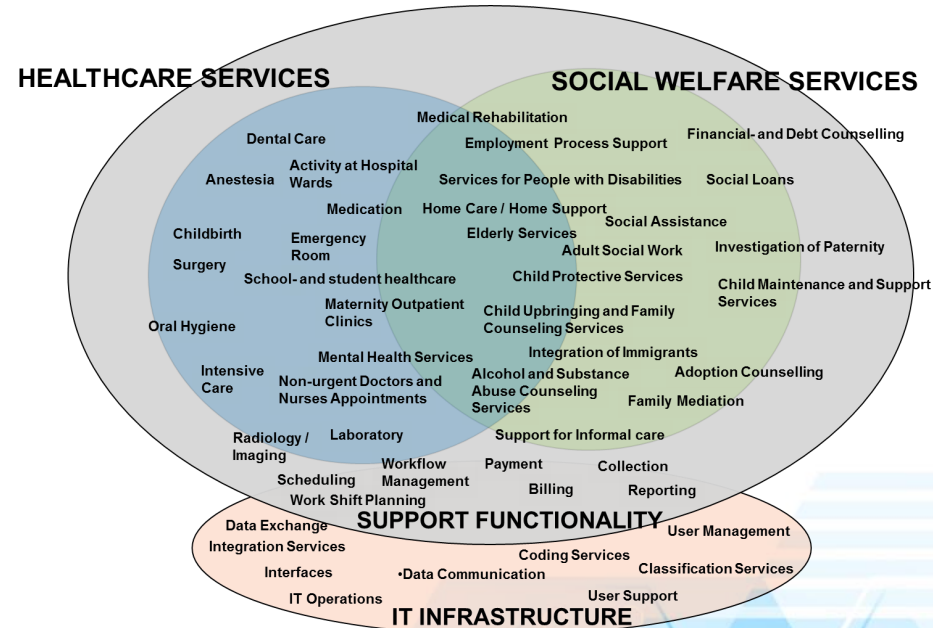
- Unified processes: e.g. a reduction in overlapping development work
- Information about operations and their quality is easily available

## Social benefits

- More efficient and higher quality operations
- Cost-effectiveness

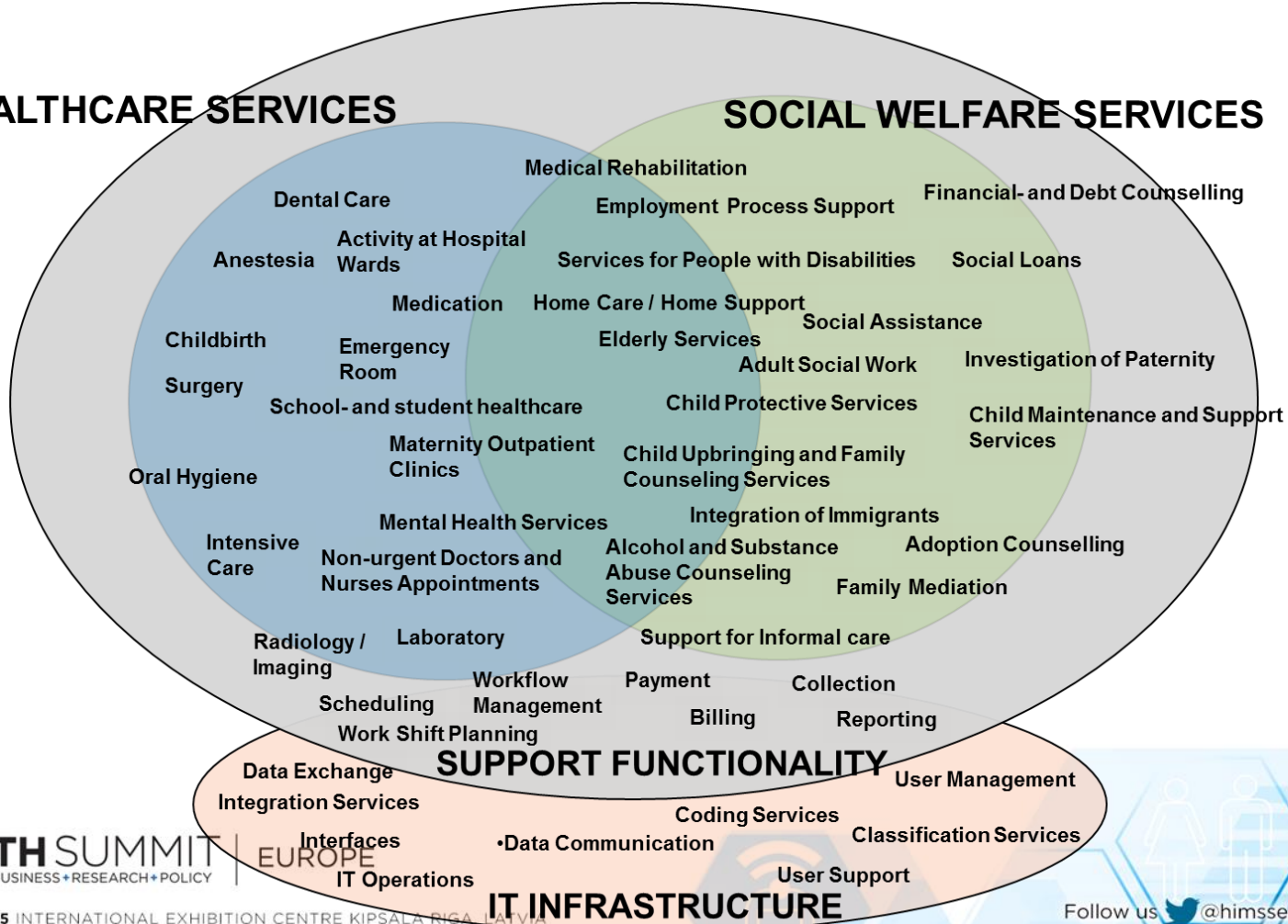
# Healthcare and Social Welfare

- Several key services overlap the functional space between Healthcare and Social Welfare domains
- Identifying the pathways that transverse these two traditionally distinct areas creates opportunities for process improvement with several key metrics
- APOTTI- program strategic goal is creating a Unified Citizen View, allowing a Data-Driven approach to leveraging health, patient safety and process effectiveness



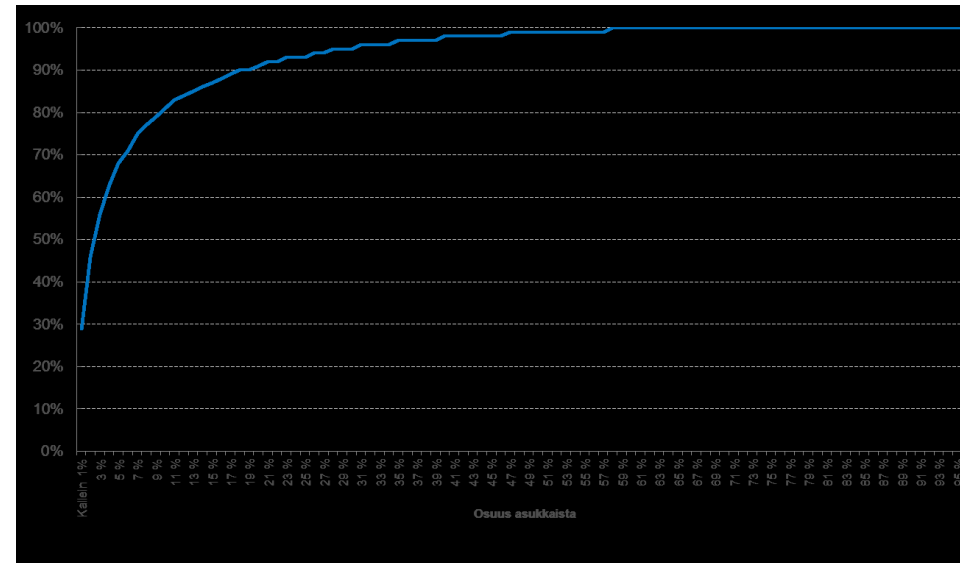
# HEALTHCARE SERVICES

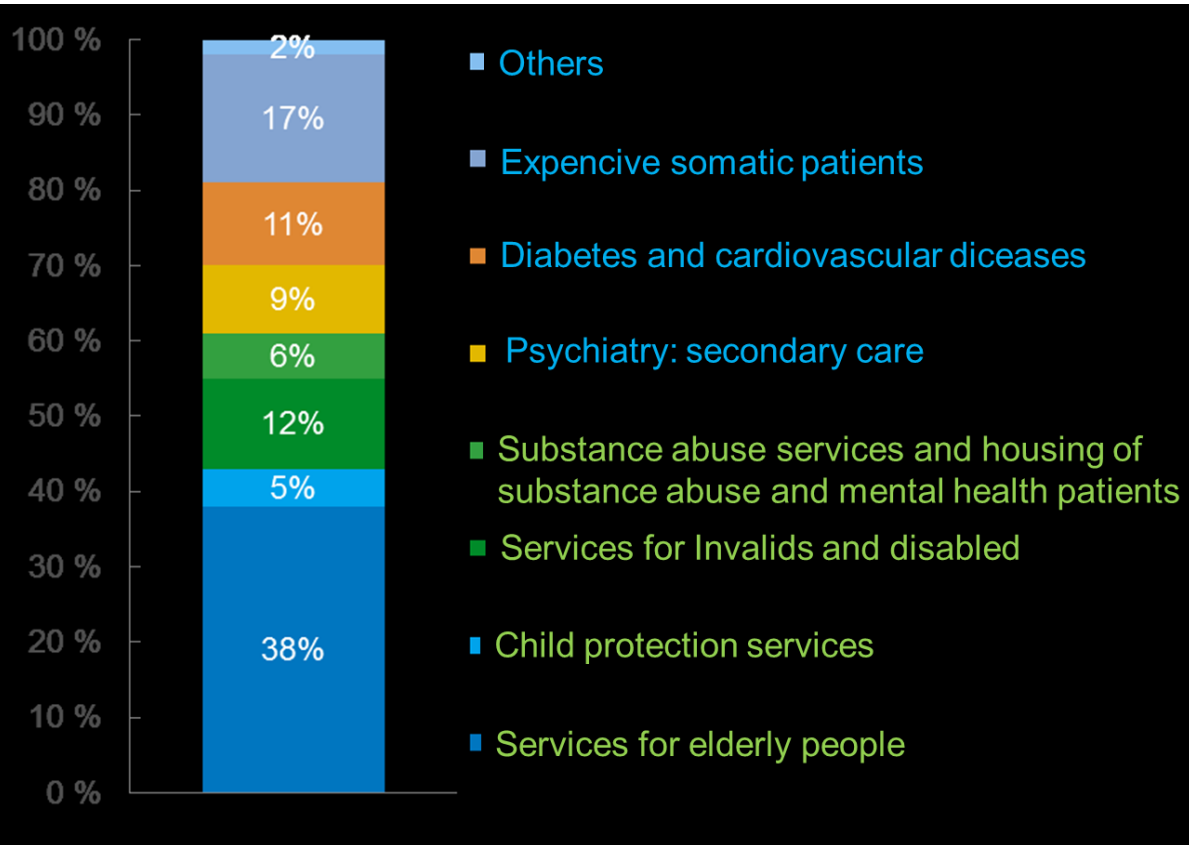
# SOCIAL WELFARE SERVICES



# Cross-organisational control rationale

- Known result: in Finland 10% of the patient population causes 74-80% of all combined Healthcare and Social Welfare costs
- In a multi-system care model total co-ordination is difficult and targeting the right population demanding
- Better co-ordination and prevention should be developed to drive the total value chain in all public Healthcare & Social Welfare services





37%  
Only health care

62%  
Health care and social welfare

# Integrations of services means

- Continuum of care and services
- Continuum of processes
- Continuum of data

Hip Replacement surgery: 10%  
Integrating private sector Healthcare and Social  
healthcare)  
Targeted personal Health and Services Coaches for identified  
Services Mega-users -> Acute call and treatment episodes down  
20%-40%  
Stockholms Läns Landsting  
(Reinius 2013, Stäck 2012)  
17% drop  
16% drop Sp  
High Customer Sa  
City of Tampere - (Hämäläinen)



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# THANK YOU

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