

@AgeingFit 
#AgeingFit2020

To what extent are local authorities across Europe the key to enable the independent living of older adults at home?

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28th & 29th
JANUARY
2020

NICE,
France

4th edition

Pentti Itkonen

Present position:

Chairman of the Board; Avaintec, Finland

Other experience:

Chief Executive Officer in South Karelia Social- and Healthcare District 2009-2019

Head of Development in The Ministry of Social Affairs and Health in Finland 2004-2008. Responsible for developing ePrescribing and eArchiving systems in Finland.

Director of The North Karelia Hospital District 1992-2004.

Several memberships in Working groups in different ministries.

Several Board Memberships of different municipal Companies in Finland

Education:

Doctoral dissertation in Kuopio University 1997.

Several articles and studies in social and healthcare technology.



Local Authorities

- Because the cost effective technology design and implementation need national specifications and guidelines, local authorities have limited possibilities to design and implement independently home care systems.
- If the care providers use many different systems, the integration between providers is difficult.
- In the future artificial Intelligence can consider geographical and demographic specificities fairly and more equal than a human.

Hospitals

Hospitals will have a vital role in the care also of the elderly. In the future they are seen more as one part of the system.

Emergency services will have closer co-operation with home care.

All professionals need to rethink where they perform their role to minimize the pressure to hospitals and maximize the effective use of alternative facilities which run at lower costs and exploit the whole potential of technology.



Technology

- In spite of long period of development the workers are still bound to the ict- systems and pretty far from the autonomy of work where the systems release workers to use independently their education, knowledge and skills.
- The technology itself cannot solve the issue but we need to have much more returns of these technology investments.
- There is a huge need to see the data as a service.
- This calls for more understanding of holistic organizations, measurement of social- and health outcomes and wellbeing and more professional performance management.

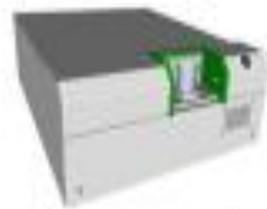


SMART WORKFLOW IN HOME CARE

Smart sensors and alarms in homecare



Virtual visits

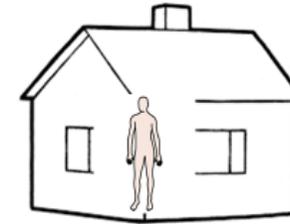


Medication robot



Automatic alarms in the building:

- Fire
- Falling
- Exit from bed
- Floor
- Water leak
- Stove
- Fridge
- Heating



Sensors in your body:

- Brain
- Lungs
- Heart
- Circulatory
- Nerve
- Pain
- Medication

Physical visits based on human sense and expertise

ETELÄ-KARJALAN SOSIAALI- JA TERVEYSPIIRI



AI provides a list of addresses. The nurse can plan the working day autonomously

Avaintec

Avaintec

- Founded in 1997 - A company owned by employees
- Concentrate to develop and provide cloud based Artificial and Machine learning service to health and social care
- Offices: Helsinki in Finland and Hangzhou, Chengdu in China
- Certificates: ISO 27001 (Information security), ISO 9001 (Quality), ISO 13485 (Health care software and equipment)

Main Products

- DataChief Analytics is the easiest to use, agile AI and machine learning solution in the market for social care, healthcare and public sector organisations. DataChief Analytics offers support for decision making for professionals working in organisation.
- REWS ; The idea behind PREWS is that distances between hospitals and homes are often long. With an ill child, the distances could seem even longer. In addition, it can sometimes be difficult for parents to assess when to go to the emergency room with a sick child. As a result, some children are brought on call too late, while some visits are unnecessary.

Main Products

- **SmartLog;** With the service, we bring the benefits of artificial intelligence to enhance log monitoring and to support the work of data protection officers. Artificial Intelligence is more effective than rule based classification systems and can be refined continuously.
- Custody (Frequent customers)
- Avaintec has provided with South Karelia Social and Healthcare District a predictive analytics solution to identify frequent/heavy usage customers. The solution can predict when a health or social care client is at risk, who must be targeted for support to prevent their condition worsening before it happens and prevent unnecessary hospital visits.

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Thank You