



WHO
Healthy
CitiesKuopio
Finland



World Health
Organization
REGIONAL OFFICE FOR
Europe



INNOVATION TECHNOLOGY AND LIFE-COURSE APPROACHES

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Belfast 11/MAR/2016

Innovation: Making technology work for health and inequalities - seminar

Taking ideas further

Back home at Kuopio...





CITY OF KUOPIO - 62°53'33"N 27°40'42"E



- Centre of Eastern Finland
- Approx. 111,300 inhabitants in the city
- 165,000 in the commuting area

© Kuopion kaupunki

Kuopio Market Place "Center of the World"

62°53'33"N 27°40'42"E

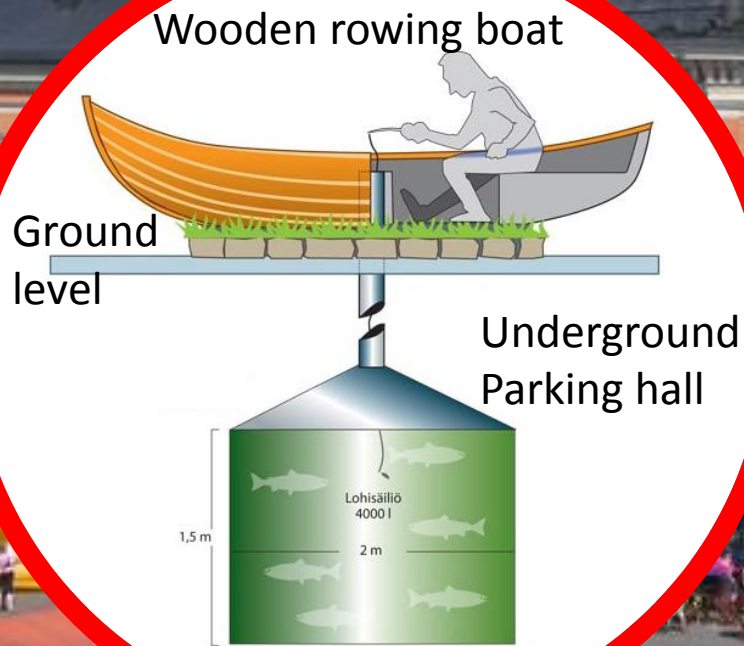


Source: City of Kuopio



Uncertainty





Source: Savon Sanomat
5.12.2013

YLE News, East-Finland 24th June 2015
Minister ice fishing in the middle of Kuopio marketplace



Experimentation culture

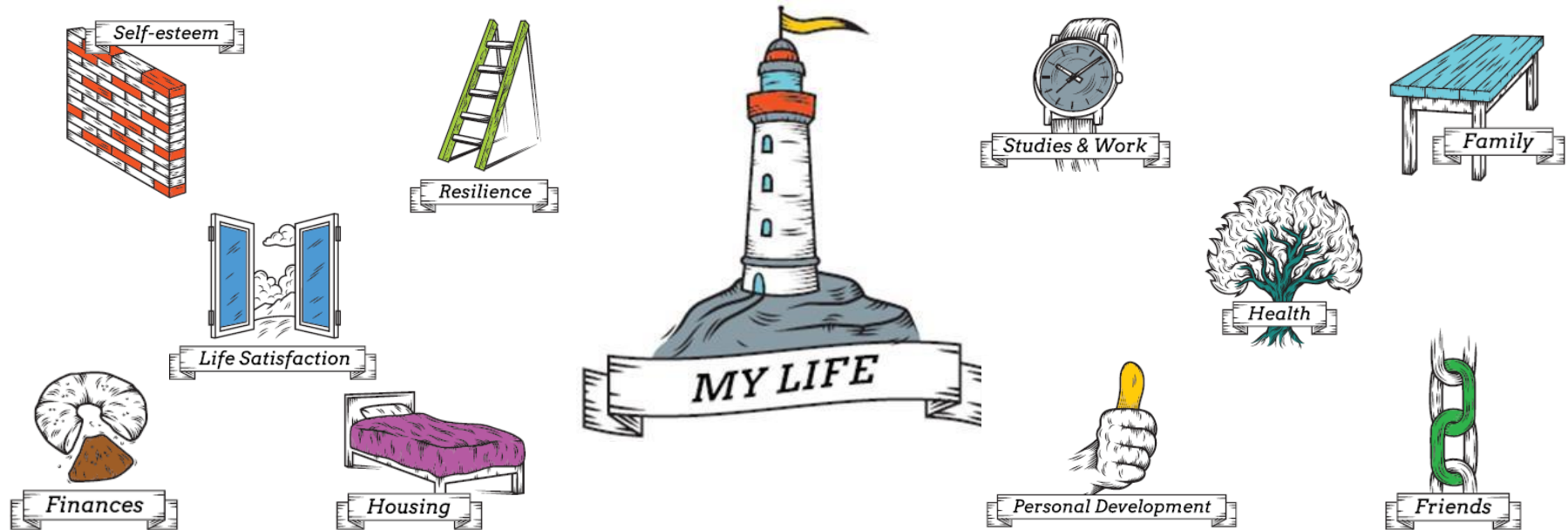


Games for Health - Gamifying healthcare services



The Municipal Trial Law, Finland (§ 1350/2014)

Case: Customer's personal welfare plan



Source: 3X10D™ Circle of Life, The local Government Trials 2015-2016 / City of Kuopio - Finland

From teaching to learning



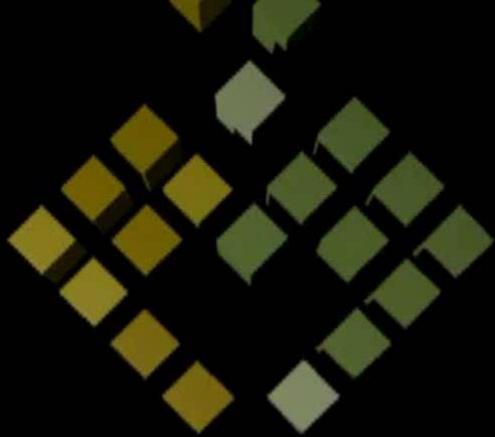
Source: www.fineduvr.fi

A photograph of two women sitting at a desk in an office. The woman on the left has short, reddish hair with a shaved patch on the side. The woman on the right has blonde hair and is wearing a purple jacket and a patterned scarf. They are both looking at a computer monitor on the right side of the desk. The monitor displays a web application with a sidebar and a main content area. A black keyboard is on the desk in front of them. In the background, there is a printer and a window with blinds. A semi-transparent black box with white text is overlaid on the top right of the image.

More efficient, illustrative
and participatory
development processes

Health Game Jam - Community empowerment through multicultural fast technology experimentation

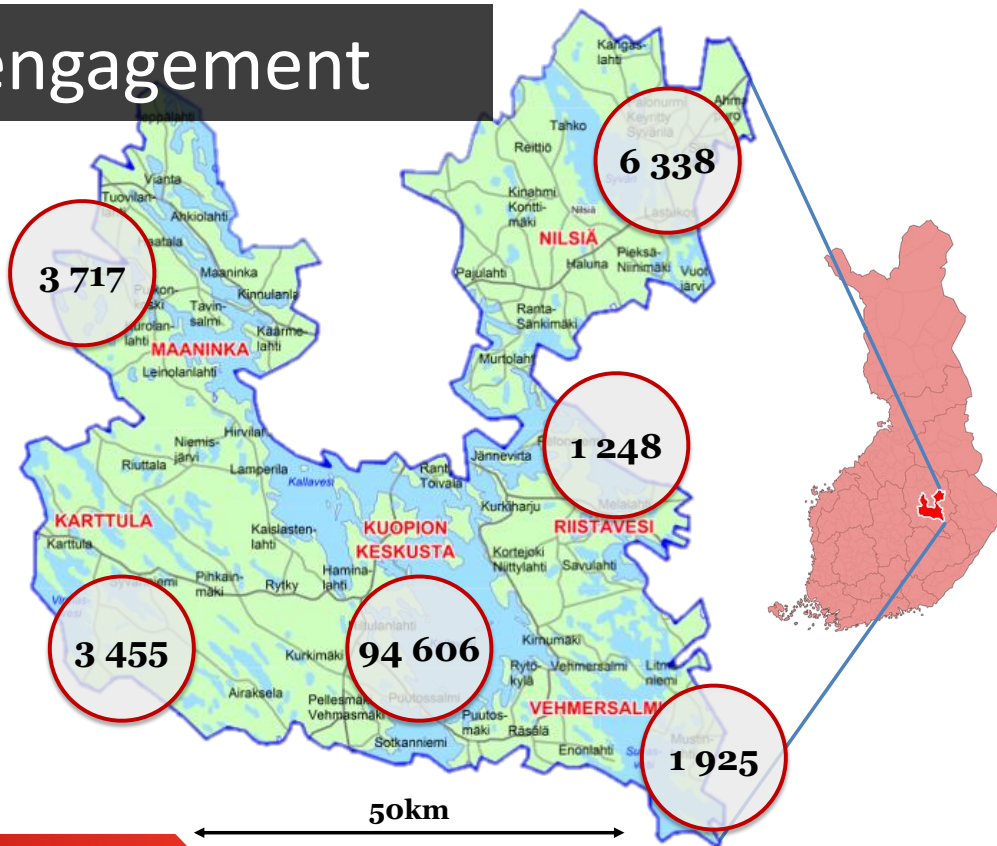




GAMES FOR HEALTH FINLAND

KUOPIO Community engagement

Wellbeing - part of you
everywhere



Enjoy wellbeing
together!



KUOPIO
Live it up
www.gamesforhealth.fi

Finnish eHealth and eSocial Strategy 2020

“Information to support
well-being and service
renewal”



INFORMATION TO SUPPORT
WELL-BEING AND
SERVICE RENEWAL
eHEALTH AND eSOCIAL STRATEGY

2020

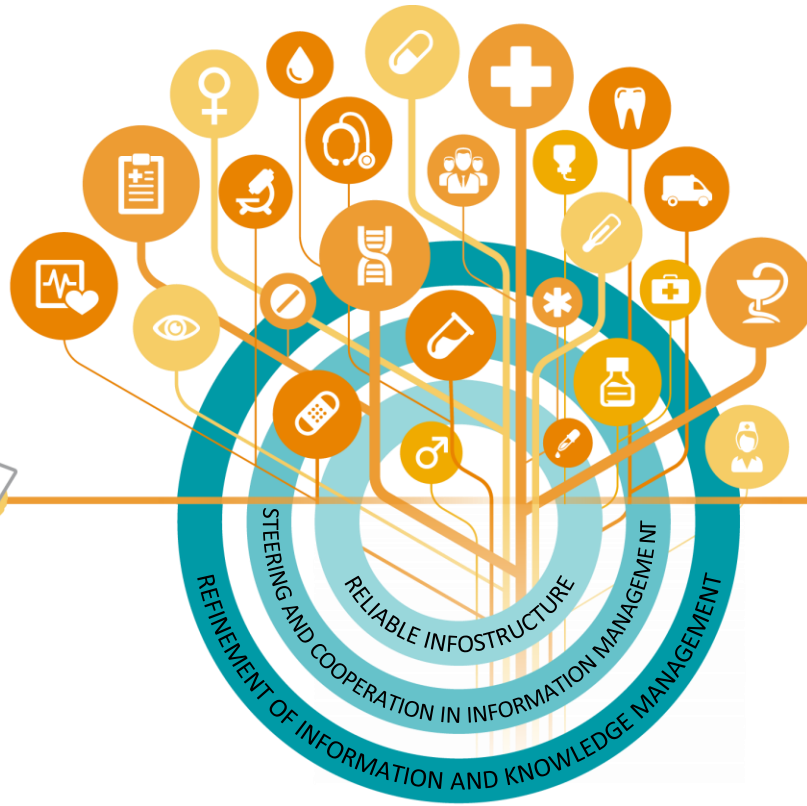
Source: Information to support well-being and service renewal. eHealth and eSocial strategy 2020. Publications of the MSAH 2015

Citizen
Doing it myself

Life management

Freedom of choice

My data



Professional

Smart systems for
capable users

Information systems
support my work

eServices are part
of my work

Information
helps my work

I'm working with
information security

Source: Information to support well-being and service renewal. eHealth and eSocial strategy 2020. Publications of the MSAH 2015

”New guideline: Telehealth services should be handled same as conventional clinic visits”

- 28/OCT/2015, Ministry of Social Affairs and Health, Finland

Source: Ministry of Social Affairs and Health, Finland

”Updated guideline: Telehealth services for patients”

- 15/JAN/2016, *National Supervisory Authority for Welfare and Health, VALVIRA*

Source: *National Supervisory Authority for Welfare and Health, VALVIRA*

”Telehealth services can be reimbursed,
also cross-border”

*- 1/MAR/2016, KELA -an independent social insurance institution supervised by
Finnish Parliament*

Source: KELA

eHealth special qualifications for medical doctors and dentists in Finland

Available
since

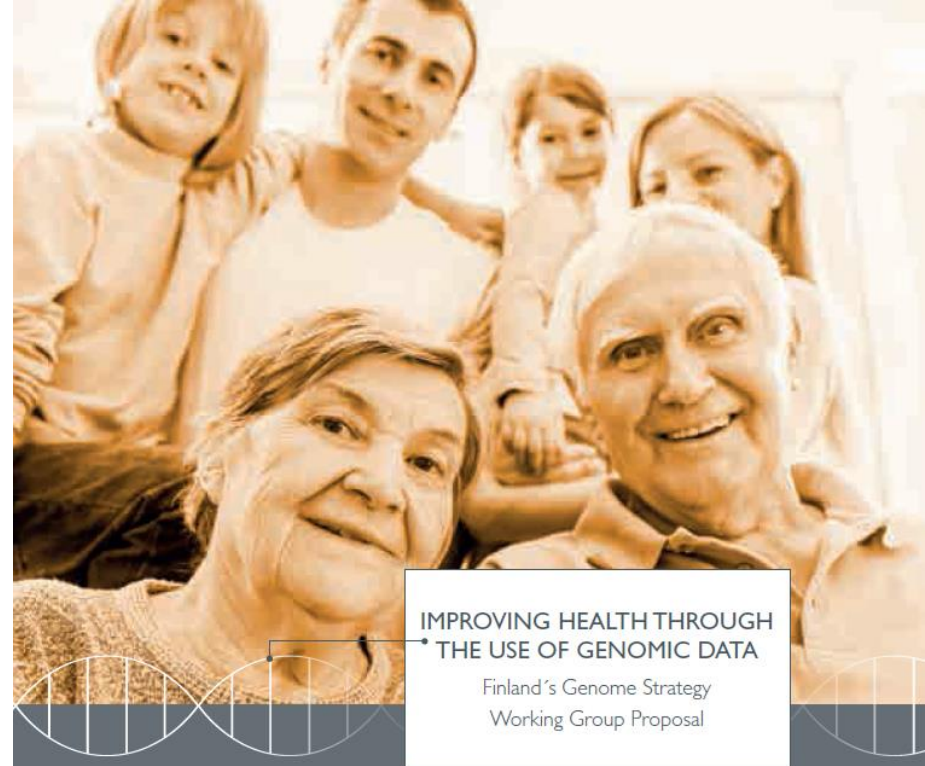
2013

68

Approved
qualifications
(FEB/2016)

Finnish Genome Strategy Vision 2020

“Genomic data will be effectively used in healthcare and in the promotion of health and wellbeing”



IMPROVING HEALTH THROUGH
THE USE OF GENOMIC DATA

Finland's Genome Strategy
Working Group Proposal

MINISTRY OF
SOCIAL AFFAIRS AND HEALTH

Source: Better health through genome information. National genome strategy. Working group proposal. Reports and memorandums (MSAH) 2015:34

STAR TREK

STARFLEET MEDICAL TRICORDER®

Be open-minded

STARFLEET MATERIALS DEPOT INVENTORY ITEM: MEDICAL TRICORDER

The tricorder is a standard issue multi-purpose scientific tool used by landing parties and other diagnostic teams. Included in its features are sensors, computers and recording devices. Tricorders can link with starship-based computer systems to file analyses or access additional data.

Custom versions are available for specialized teams and individuals, such as engineering and medical uses. The medical tricorder works in combination with a hand-held scanner which allows the physician or other emergency medical technician to conduct an initial examination of a patient or other subject. The efficiency of medical tricorders may be limited by the availability of data on xenobiological life forms.



Flip open the tricorder to commence the scan!



Activate the light-up viewscreen!



Monitor the diagnostic sounds to evaluate your patient!



Clips to your belt or wristband!



Boldly go where no one has gone before!™ Collect Playmates® new Classic Star Trek™ Captain Pike's Laser Pistol!

Qualcomm Tricorder Xprize 10 M\$

- Device to diagnose 13 health conditions by collecting large volumes of data through a combination of wireless sensors, imaging technologies, and portable, non-invasive laboratory replacements
- Anemia, Atrial Fibrillation (AFib), Chronic Obstructive Pulmonary Disease (COPD), Diabetes, Leukocytosis, Pneumonia, Otitis Media, Sleep Apnea, Urinary Tract Infection...
- tricorder.xprize.org



Source: Qualcomm Tricorder Xprize

Valteri Centre for Learning and Consulting
Valteri School, Mäntykangas





Innovation technology “Womb-to-tomb”

SA VI LAH TI.

KUOPIO



SA
VI
LAH
TI.



KUOPIO

- **500,000 m² of new construction**
- **billion euros investments**



KUOPIO

Picture: Arkkitehtitoimisto Ajak

Lakeside living close to nature and
new kind of learning and working
environment by the Lake Kallavesi



KUOPIO

Picture: Arkkitehtitoimisto Ajak

Year 2015

9 000

students

10 000

workplaces

30

inhabitants

19 000

people

During 2020's

15 000

students

13 000

workplaces

6 000

inhabitants

34 000

people

KUOPIO

Picture: Arkkitehtitoimisto Ajak

“The cities of the future will be self-aware, much like a being. These cities will be able to reconfigure themselves, based on what’s happening, and what might happen, in the immediate future.”

Roberto Saracco, Chair of IEEE's (Institute of Electrical and Electronics Engineers) Future Directions Committee

THANK YOU – KIITOS!

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