



DIGITAL
HEALTH
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AGETECH FINLAND

Finnish agetech expertise and services



Ministry of
Social Affairs and Health
FINLAND



Finland is a country of digital health

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5,6M

6%

100%

€2,57B

Population

- One of the Nordic welfare states
- Aging population, healthcare workforce shortages, and economic pressures faced by advancing digital health and embracing technology as a strategic enabler

Aging

- 6% of Finns aged 80 or older (2024)
- Amount expected to double by 2030 (up to 7% of the population)

Digital health infrastructure

- 100% electronic medical records digitally accessible via Kanta service
- Enabling legislation, also for secondary use of health data
- Governmental commitment to digitalisation and AI

Export-driven health tech ecosystem

- Health technology export value €2.57 billion (2024)
- Strong research capabilities, vibrant startup culture and testbed operations supporting innovations

A large brown bear is swimming in a calm lake, its head and shoulders above the water. The bear is facing right. In the background, a dense forest of tall evergreen trees is reflected in the water under a cloudy sky.

The silent revolution of Finnish elderly care.

**Growing old safely, with
dignity, and by staying
connected to others.**



In Finland, things tend to happen quietly.

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No need for big words or bold claims - just steady work and practical results. That's how change takes root here. And when it comes to elderly care, **a quiet but meaningful shift is already underway.**

Faced with a rapidly aging population, Finland spent a decade incrementally reforming and integrating its health and social care system. In 2023, a major reform centralized care under **22 new Wellbeing Service Counties governed and funded nationally** - ensuring even sparsely populated rural areas get equal access to services. This coordinated approach, combined with **high trust in technology** and a **robust digital and data infrastructure** allows Finnish eldercare to efficiently deliver innovative "aging in place" services.

The result is a **quiet revolution**: Finland's seniors benefit from **practical digital solutions** embedded in everyday care. Now, Finland is ready to share these **proven models** – from AI-assisted home care to integrated data infrastructure – with international partners of how a small country's pragmatic, **coordinated strategy** can yield big impacts in digital eldercare.



**That's Finland's way.
And now, we're ready to share it.**



AgeTech in Finland perspective: from societal to individual level

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1. Governmental and Societal

National enablers underpin Finland's digital care capacity. **Legislation ensures technology neutrality, data rights, and equal access.** Robust infrastructure includes national health registries and the **Kanta system**, which stores and shares health and social care data.

Government-led frameworks like **KATI** (national elderly care and agetech architecture), **RAI** (Residential Assessment Instrument), **Digi-HTA** (evidence-based assessment of digital health technologies) and **enabling legislation** promote consistent quality and implementation.



2. Organizational and Regional

Wellbeing Services Counties organize health and social services regionally, with remote care coordination centers and data-driven planning. For instance, regions develop **population-based predictive analytics** to forecast care demand and allocate resources.

Digital platforms enable information flow between hospitals, clinics, and home care. Leadership and governance models ensure that technology adoption aligns with care quality goals, while **funding is distributed from a national level** depending on the needs of each WSC based on factors such as population and geographical complexities.



3. Care Practices and Services

Integrated care models bridge home and healthcare settings - "**Digital First**" approach offering remote homecare through telehealth, automated medication systems, sensor solutions, and remote rehabilitation.

Coordination units manage and align agetech as part of homecare services, ensuring they are used effectively across the region. For professionals, AI-enhanced tools like automated note-taking, fall alerts and solutions predicting health risks improve efficiency and safety at home and in residential care.



4. User and Individual

At the **personal level**, older adults and informal caregivers use digital health and assistive technologies directly, **empowering seniors to live independently longer** while improving safety and health monitoring at home.

Publicly funded care units assess needs, offering home adaptations, medication support, telehealth, assistive tech, and coordinated in-home services to all eligible seniors. Individual **digital competence** is increasingly scanned as part of the care assessment to support personal agetech solution. **Digital literacy is widespread**, supporting trust in digital care services and smooth technology uptake.



Available agetech services aligned with stages of elderly intrinsic capacity

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Active seniors

emphasizes autonomy, preventive care and social activity

Individuals with high intrinsic capacity

- **Digital self-care tools** Support for managing chronic diseases, reminders, and health tracking
- **Predictive & preventive care models** Identifying early risks like falls or changes in alertness
- **Community & social support** Initiatives involving neighbors, family, and local activities to strengthen belonging and participation
- **Wellbeing & independence tools** Support for maintaining health, relationships, and lifestyle

Elderly supported at home

Includes light-touch care, remote services and family support

- **Digital-first home care** Remote visits, medication dispensing, safety sensors, and automation
- **Home-based care coordination** Services brought to the home to meet emerging or light care needs
- **Assistive technologies in housing** Smart tools that help professionals and caregivers provide support efficiently
- **Rehabilitation at home** Remote or AI-assisted rehab programs to restore mobility and function

High care needs patients

includes 24/7 care, nursing support, and safety monitoring

Individuals with significant loss of capacity

- **Integrated home care models** Advanced digital models like virtual hospitals or mobile nursing units
- **24/7 digital monitoring and response systems** Sensor-based safety, urgent care alerts, and continuous support
- **Tailored professional support** Services designed around complex and ongoing care requirements

Agetech example companies



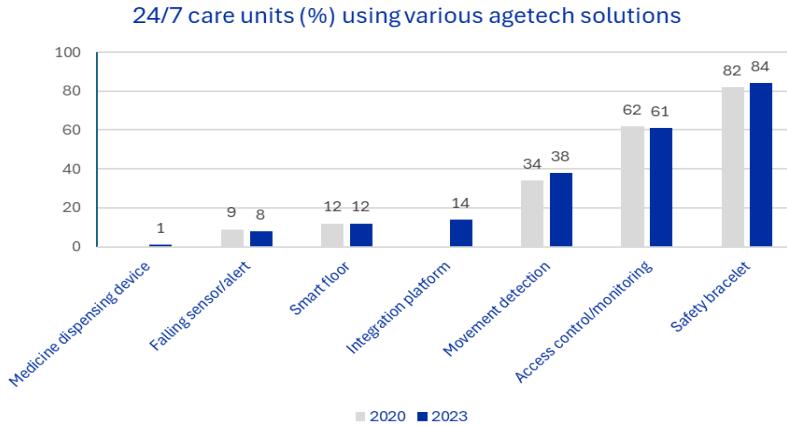
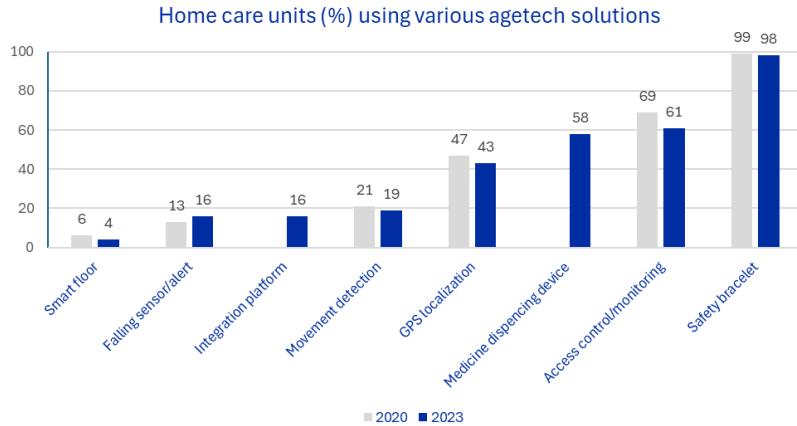
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Welfare Technology Directory



Agetech in use



Agetech solutions in use 2020 and 2023



- The data is based on a national follow-up survey* to all units of home care and 24/7 care for older adults in Finland
- Automated medicine dispensing devices have become common in home care in a few years (the item not included in the 2020 survey)
- Technology for remote homecare visits not been included in the survey yet, but based on information from wellbeing counties' websites, all wellbeing counties provide remote homecare visits.



Real-world use of agetech in care services

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Digital-first care model in wellbeing service counties	AI-assisted care notes in nursing homes	AI-powered predictions based on RAI data	IoT & AI platforms for risk alerts & services	Sensor-based monitoring in homecare settings
<ul style="list-style-type: none">Automates medicine dispensingEnables virtual homecare visitsSends alerts via sensors to caregivers	<ul style="list-style-type: none">Uses speech recognition for notesReduces documentation time by 50%Supports caregiver focus on patient care	<ul style="list-style-type: none">Identifies fall and pain risksDetects early decline in functionSupports timely preventive care	<ul style="list-style-type: none">Sends alerts from health risksRecommends personalized servicesSupports holistic care approach	<ul style="list-style-type: none">Tracks homecare client safetyEngages family caregiversSends real-time alerts if needed
<p>Examples</p> 	 	 <p>RehabScreen</p> 	 	 

REFERENCE CASE:



AI-assisted care notes in residential care



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Challenge

- In 2025, there is 366 000 employees in the social and healthcare sector in Finland. **200 000** new professionals are required in the next 10 years
- In elderly 24/7 residential care, nurses spend **46-48 minutes** on documentation per day (Finnish Institute for Health and Welfare, 2023)
- The amount of documentation is still increasing and according to professionals, one third is redundant



Solution

- Attendo and Efima developed an AI assistant that enables real-time documentation of client information **from free-form speech to structured documentation**
- The RPA-based AI assistant utilizes Microsoft Azure speech recognition technology, OpenAI language models, and additional AI components developed by Efima
- The AI assistant enables richer and faster note-taking and allows more time for meaningful interactions with clients



Benefit

Based on the pilot in Attendo residential care:

- The time spent on note-taking could be reduced from 45 min to **20 minutes**, which corresponds to 6 percent of working time – in permanent use the saving will increase
- The AI assistant reduces the amount of information that the nurse needs to keep in memory (until the end of the shift), alleviating cognitive load and stress
- Study by the Finnish Institute of Occupational Health (2025)



Technology for Home Care in South Karelia Wellbeing Services County

Virtual homecare visits

- Delivers **scheduled video calls between homecare nurses and clients**, enabling services like medication reminders, wellbeing checks, guide rehabilitation exercises and to provide recreational and cultural activities
- **Reduces the need for in-person visits** while maintaining regular contact and care quality
- **Improves cost-efficiency and sustainability** by lowering travel needs for care staff and reducing emissions, while also helping combat loneliness through virtual social programs

Sensor-based monitoring and alerts to caregivers

- **Enable 24/7 emergency communication** through a wrist-worn button or automatic sensors (e.g. fall and door alarms, smoke detectors, and GPS watches)
- Technologies **supports independent living and enhance safety at home**.
- **Reduce the need for constant in-person monitoring**, allowing care resources to be used more efficiently while giving peace of mind to both clients and their families.

Automated medicine dispensing

- Automatically dispenses **pre-packed medications or prefilled medication cups** at the right time to ensure safe and accurate medication
- **Reduces the need for physical nurse visits**, improving efficiency in healthcare services
- **Enables remote monitoring and alerts for caregivers**, enhancing safety and reducing workload



IoT & AI platforms for risk alerts & services

- **Monitors patients in home care and nursing homes**, using AI to detect early signs of health changes and predict care needs
- **Improves medication safety** by identifying potential drug-related issues and deviations
- **Reduces emergency visits and hospital stays**, helping clients live at home longer while optimizing care resources



Agetech expertise and other resources



Agetech research organizations

- Centre of Excellence in Research on Ageing and Care (CoE AgeCare), University of Jyväskylä¹
- LAB University of Applied Sciences (Lahti) – Digital Transformation in Health and Safety²
- LUT University (Lappeenranta and Lahti)³
- Metropolia University of Applied Sciences (Helsinki) – Center of Excellence in Ageing⁴
- Social Research Center for Welfare Technology, University of Eastern Finland⁵
- THL - Finnish Institute for Health and Welfare⁶



¹ <https://www.jyu.fi/en/research/centres-of-excellence/centre-of-excellence-in-research-on-ageing-and-care>

² <https://lab.fi/en/RDI/research-groups/digital-transformation-health-and-safety>

³ <https://www.lut.fi/en/research/focus-areas/business-and-society>

⁴ <https://www.metropolia.fi/en/rdi/center-of-excellence-in-ageing>

⁵ [Welcome! - Social Research Center for Welfare Technology](https://www.srctech.fi/en/welcome)

⁶ <https://thl.fi/en/main-page>



Agetech expertise and services

GeroNursing Centre (GNC)¹, University of Oulu

- Research, education and networks for both the successful aging of older adults and the well-being at work of health care professionals
- Education as online courses based on scientific research

LAB University of Applied Science²

- Gerontology education with agetech innovation and co-design approach

Nordic Healthcare Group (NHG)³

- Supporting agetech implementation through expertise of health and social care
- Coordinator of the Finnish Agetech Network with 250 members as a partner of the Ministry of Social Affairs and Digital Health of Finland

VALLI Gerontechnology Centre⁴

- Agetech know-how, information sharing and networking

Wenla Health and Welfare Technology Directory⁵

- Search and browsing service for wellness and healthcare technologies on the market

¹ In English | Gero Nursing Centre (GNC)

² <https://lab.fi/en>

³ <https://nordichealthcaregroup.com/>

⁴ <https://www.valli.fi/tyomuotomme/ikateknologiatekeskus/in-english/>

⁵ [Etuivu - Wenla - Hyvinvointi- ja terveysteknologiahakemisto](#) (in Finnish)

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Visiting sites (care providers)

#	Site	Service	Description
A	Attendo Vuoripirtti Espoo	Nursing home with AI	<p>Attendo Vuoripirtti is a home for the elderly located in Tillinmäki, Espoo. The care home offers round-the-clock care, short-term service housing to ease the daily life of family caregivers, and lighter service housing.</p> <p>Vuoripirtti and Efima company have developed an AI application for care note-taking based on speech recognition technology and a language model. The application has significantly reduced the logging time and improved the quality of notes. Caregivers can dictate records in real time, even on their phones.</p>
B	Kustaankartano, Helsinki	Nursing home with agetech	<p>Kustaankartano provides a range of housing, care, and rehabilitation services, as well as engaging day activities, at the city's senior centres and service homes. Also places in a private service home. Long term living provided to over 300 clients.</p> <p>Kustaankartano collaborates with the innovation company Forum Virium of the City of Helsinki and participates in agetech testing and pilots. Technologies are also in permanent use: Smart floors, GPS location-tracking, Oioi digital and multisensoral walls.</p>
C	South Karelia Wellbeing Services County	Home care and remote home care	<p>South Karelia produces health services, family and social welfare services, and services for the elderly in the region. The wellbeing services county is a joint municipal authority covering nine municipalities. 94% of the 75+ year-old inhabitants live at home.</p> <p>Home care is supported by a variety of technological aids, easy to use for the older adult. Remote home care is provided through virtual homecare visits, automated medicine dispensing devices and predictive AI preventing falls and health problems.</p>





Testbeds for agetech – also for international partners

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#	Testbed	Operator	Description
A	Pohde Wellbeing Lab	Wellbeing services county of North Ostrobothnia	Pohde WellbeingLab (OuluHealth Labs) enables developing solutions and innovating with real end-users in authentic environments – homes, social and healthcare centres and hospitals.
B	Satakunta Testbed, Funteeraamo Showroom	Satakunta University of Applied Sciences, Prizztech Oy	Satakunta Testbed provides tailored research and development services for companies and supports healthcare providers to find and test suitable technologies. Maintains an open directory Wenla.fi for technologies and digital solutions for social and health care and wellbeing. Experience of innovating with older people. Funteeraamo showroom introduces various health and wellbeing technologies, applications and digital contents with easy access, advice and borrowing service.
C	SeAMK Wellbeing Labs	Seinäjoki University of Applied Sciences	SeAMK Wellbeing Labs is the development and learning environment of the fields of health care and social work of Seinäjoki University of Applied Sciences (SeAMK).
D	Testbed Helsinki, Health Proof Helsinki	City of Helsinki, Forum Virium Helsinki, Metropolia Proof Health, HUS Helsinki University Hospital	Testbed Helsinki provides the whole City of Helsinki as a testbed for new innovations. Companies and RDI actors can develop and experiment products or services in an authentic city environment. Key focus areas: EdTech, Smart Traffic, Built Environment, Circular Economy and Health & Wellbeing. Health Proof Helsinki provides a unified service entity in the fields of health technology and medical technology: early-stage preclinical testing environments and expertise (Metropolia Proof Health), research and testing environments and expertise in primary health care and social work (City of Helsinki), and research environments and expertise in specialist care and diagnostics (HUS Helsinki University Hospital).
E	Sote Virtual Lab	Tampere University of Applied Sciences	In the Virtual Lab for Social and Health Care, RDI actors can develop, test and put forward ideas on tomorrow's digital and intelligent technologies related to basic health care, safe and well-performing home environment, remote care and rehabilitation, telemedicine, and mobile healthcare services.
F	LAB WellTech	LAB University of Applied Sciences, Lahti and Lappeenranta	LAB WellTech RDI service is part of LAB Faculty of Health Care and Social Services, dedicated to supporting and enhancing wellbeing in society. LAB WellTech provides RDI expert services and valuable partner network including partnership for businesses, wellbeing services counties, and other organizations. Campus premises include Home Lab, Care Simulation Rooms and Co-Design Lab with up-to-date technology and equipment for elderly care R&D.



A <https://ouluhealth.fi/pohde-wellbeinglab/>

B <https://www.satakuntatestbed.fi/en/>; <https://satakunnanhyyvinvointialue.fi/palvelut/ikaantyneet/kotona-asmusen-tukipalvelut/funteeraamo/> (in Finnish)

C <https://wellbeinglabs.seamk.fi/en/>

D <https://testbed.hel.fi/en/health-and-wellbeing/>; <https://www.healthproofhelsinki.fi/>

E <https://sites.tuni.fi/vlaborforhealth/>

F <https://www.labwelltech.fi/eng/>



Agetech research and reports

- Ecosystem model with citizens needs in focus (Päijät-Häme Wellbeing Services County). In Book: Nordic Welfare Centre (2022). *Integrated Healthcare and Care through distance spanning solutions – for increased service accessibility*.
https://nordicwelfare.org/pub/Integrated_Healthcare_and_Care_through_distance_spanning_solutions_v4/
- Niemelä, M. (2022). The Use of Robotic and Smart Technologies in Finland to Support Older Adults Living at Home. *ASEM Global Ageing Center Issue Focus*, 3(3), 19–28.
- Niemelä, M., Heikkinen, S., Koistinen, P., Laakso, K., Melkas, H., & Kyrki, V. (Eds). (2021). *Robots and the Future of Welfare Services: A Finnish Roadmap*. Aalto University. <https://urn.fi/URN:ISBN:978-952-64-0323-6>
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<https://www.julkari.fi/handle/10024/147940> (in Finnish)



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Thank you!

