FINDATA

The 5th Digital Health Society Summit

Johanna Seppänen, PhD, Director

Findata.fi | @FindataFi | info@findata.fi

Outline

- Current status and Findata services
- What data are available?
- How to access data?
- Pricing and costs?





Cornerstones for secondary use in Finland

- Rich national data registers with long time series
 - In practice 100% coverage of Finnish population
 - Long tradition of national health registers and their secondary use
- Opt-out principle in secondary use of social and health data
- Personal identity code: a key to linking personal information from various registers
- High trust on
 - Government and authorities, transparent operation
 - Benefits from research (as better healthcare)
 - Data security and data safety



Finnish Social and Health Data Permit Authority Findata

Finland has established a centralized health data access point for researchers - Findata

- The aim is to improve access to rich nation-wide datasets
- Operation based on national Act on Secondary Use of Health and Social Data (2019), closely comparable to EHDS
- Findata started to operate in 2020 → Over three years of first-hand experience, about 1 200 applications
- Status: an independent authority positioned in Finnish Institute for Health and Welfare, steering by Ministry of Social affairs and Health
- Non-profit organization, yearly budget ~3 M€, staff ~30 persons



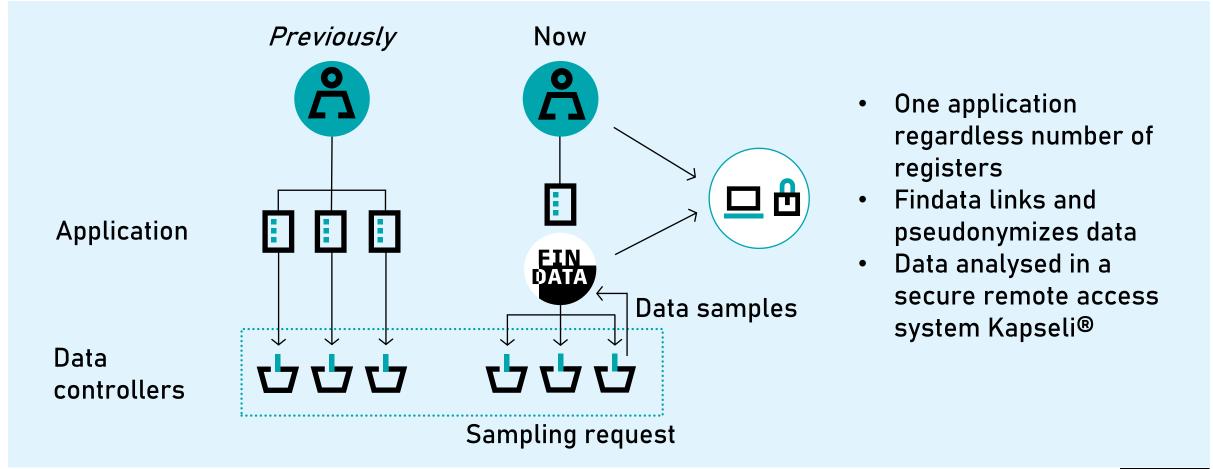
One-stop shop for secondary use of health data

Findata services

- Grants data permits when data are requested
 - from multiple controllers
 - private health care units
 - Kanta-services (electronic health records)
- Collects, links and pseudonymises the data
- Produces aggregated data on request
- Maintains a secure IT-environment for applying, transferring and managing data
- Provides secure remote access system Kapseli® for data analysis
- Help Desk for data users info@findata.fi
- Anonymization services
- Issues R&D&I infrastructure regulations



Previously and at present



Data access and discovery



Data accessed via Findata

Social and health care service providers, both public and private sector

- Patient records in primary and special health care
- e-prescriptions
- Social welfare services

Cover 100% of Finnish population

National registers

Biobanks?

Genome
data?



Data accessed via Findata

Social and health care service providers

- Public and private sector
- Patient records in primary and special health care
- Social services



Kanta services Key health data, COVID-19, e-prescriptions + more Finnish Institute for Health and Welfare (THL)

- Cancer register
- Infectious disease register
- Hospital discharge register
- National vaccination register
- Medical birth register
- Register of induced abortions
- Register of congenital malformations
- Etc.

Social Insurance Institution of Finland (Kela)

- Presciptions
- Social benefits

The Finnish Digital Agency (DVV)

- Population data
- Families
- Residence
- Building information

Finnish Centre for Pensions (ETK)

- · Benefits and incomes
- Diagnoses

Finnish Medicines Agency Fimea

- Special permit register
- Adverse reaction register
- Incident report register

Finnish Institute of Occupational Health (TTL)

- Occupational illness
- Exposure measurements
- Patient register

Statistics Finland

Register on cause of death

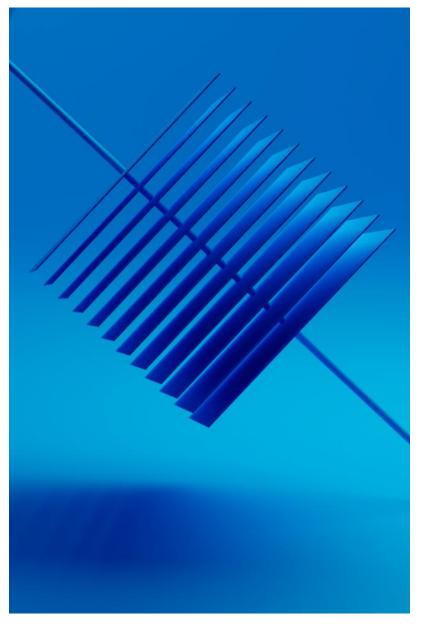
National Supervisory Authority for Welfare and Health Valvira

- Social and healthcare professional person registers
- Register of private service providers

Regional state administrative agencies (AVI)

Matters related to social and health care



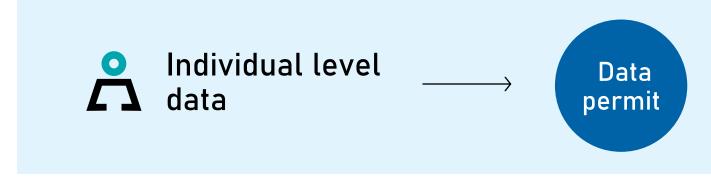


Data discovery: National Metadata Catalogue

- Task mandated to Findata by the Act on the Secondary Use of Health and Social Data
- Regulation on the data contents, concepts and data structures for data descriptions issued by Findata in 2/2021: findata.fi/en/data/regulation-on-datadescriptions/
- Metadata catalogue: www.aineistokatalogi.fi
- Currently includes data descriptions of health and social data from 39 data controllers, both national and regional
- Data descriptions extending from data resource/dataset level to variable and code level
- Includes information on data quality



How to access data



- Direct identifiers removed
- Available in an audited environment for a set period
- For the purposes specified in the Act

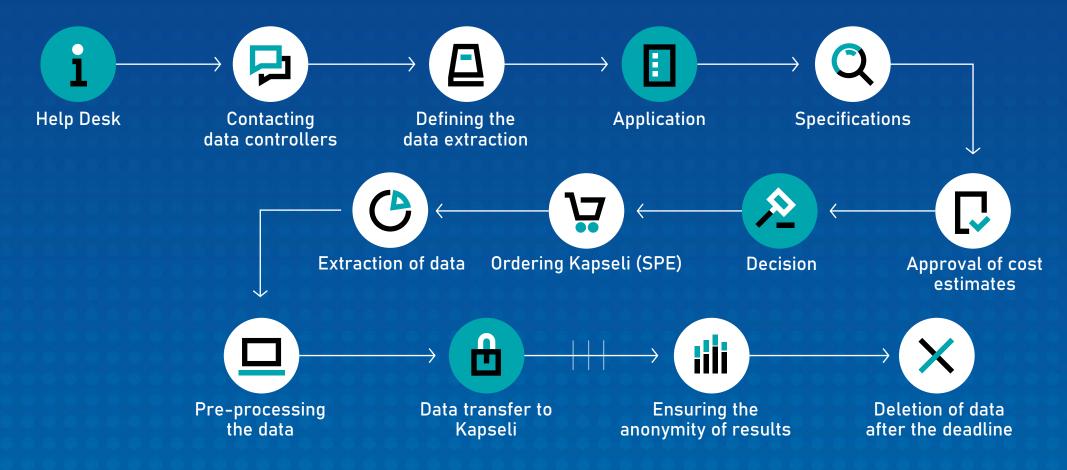




- Anonymous statistical level data
- Sent to the client
- For the purposes specified in the Act
- A data utilisation plan is always required to access data sets
- Individual level data permits are always for specific purpose, time period and persons



Customer path



Duration of the permit process

First check Processing of Extracting and Queue application compiling of data Done within one week At the moment Approximately 3 Goal: 60 days from of submitting an approximately 4 months the permit decision months Systemic process, in Factors that affect the application which every party can If information is Queues have process: extraction missing, Findata slow or speed up the carried out in several shortened process (applicant, provides guidance on significantly over the stages, delays from years (Aug 2023: 47 controllers, Findata) filling it in controllers. vs. Aug 2022: 104 particularly complex applications in queue) data etc.

Estimated total time for applying and accessing individual level data: 9 months Estimated total time for amendments to existing permit: ~1-6 weeks



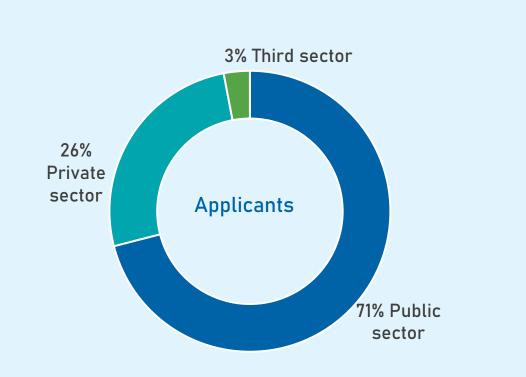
FINDATA IN FIGURES

Year 2022

270 Applications 284 Decisions

From which

- 94% individual level data
- 95% for scientific research



Issued permits openly available: findata.fi/issued-permits



Pricing and costs



Pricing of services

- Based on decree issued by Ministry of Social Affairs and Health
- Prices consist of four elements:

Element		Price	Additional information
1. Permit fee	Data permit	600-3 000 €	250 € for students
	Data request	2 500 €	250 € for students
2. Reimburses for data controllers' sample costs		2 000 € median price per data controller	0-60 000 € range
3. Findata's data management work		135 €/hour	Maximum estimate given in advance
4. Payment/subscription for Kapseli SPE		160-460 €/month	Depending on the size of the computing package

For up-to-date information, please see: findata.fi/pricing



FINDATA IN FIGURES

Kapseli® remote access users (Oct 2023)



Projects

139

Users

1035

Machine packages	Number
Small	42
Medium	45
Large	43
Extra large	9
Total	139

Overview: findata.fi/en/kapseli Findata Regulation on secure operating environments



Challenges

- A systemic change in the whole R&D environment
 - Not just a new player on the field, the rules have changed for all
- An ambitious timetable for setting up the services
 - Agile process

- Legal frame still developing
 - Compatibility with other regulation
- Data controllers' resources and capabilities
 - Data availability and interoperability
- Need for public discussion about the price and costs of health data



Trust is a must!

- Data sets made available without individual's direct identifiers
- A secure remote access environment for individual level data sets
- Security in Findata operating environment is controlled by an information security inspection body and Valvira
- Compliance with the Act supervised by
 - Ministry of Social Affairs and Health
 - Data Protection Ombudsman
 - National Supervisory Authority for Welfare and Health (Valvira)





Summary of the presentation

- Findata's activities are based on the Act on the Secondary Use of Health and Social Data, issued in 2019.
- 2. Findata has received more than 1000 applications and made around 900 decisions.
- 3. Findata takes care of the whole process: aiding data discovery \rightarrow providing a help desk for clients \rightarrow handling applications \rightarrow issuing permits \rightarrow requesting & managing the data \rightarrow providing the pseudonymised data in a SPE.
- 4. Findata has faced challenges but also overcome difficulties & streamlined its processes during the first few years, relying in active cooperation with the stakeholders.
- 5. Findata is actively taking part in the EHDS preparations.



Thank you!



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