

Statistics Finland

Administrative Data Cooperation – Statistics Finland

Ville-Matti Pilviö Business Registry – Data Collection Statistics Finland. 24.9.2023

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- 2. Cooperation with Administrative Data Providers
- 3. Quality check of Administrative Data Sources
- 4. Dataflow
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Ville-Matti Pilviö

- Senior Statistician Business Statistics
- Statistics Finland: 12 years so a relative newcomer
- Statistical Programming and software development
- Badminton
- Fishing

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Business Statistics:

Statistics under the topic Enterprises:

https://stat.fi/en/topic/enterprises



YTY: An Integrated prodution system for Business Statistics (2013 ->)

YTY is a (very) large system

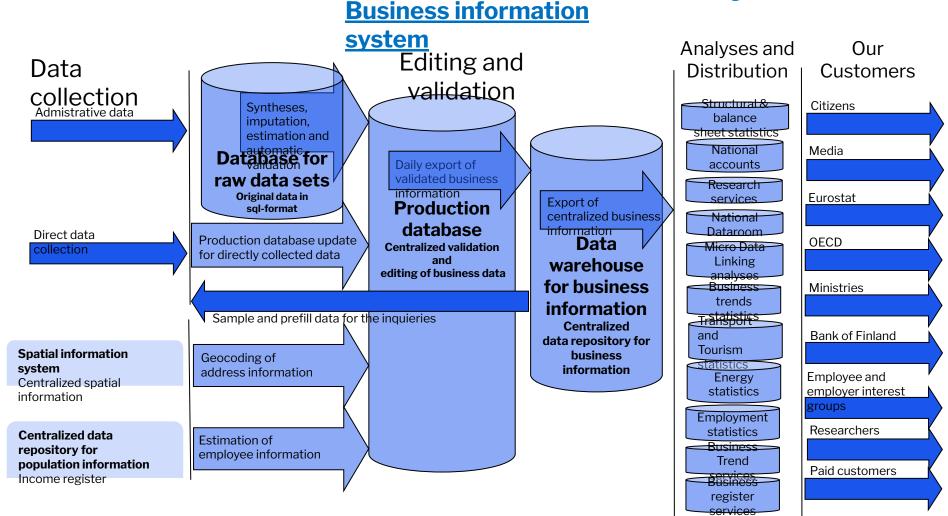
- It is based on our Statistical Business Registry
 - Used for different business statistics
- •Key Concept:
 - Integrate all Business Statistics into one central production system
- Further integration is ongoing:
 - Touristm statistics
 - Education organizers and locations
 - More are being integrated



YTY: Currently producing these statistics

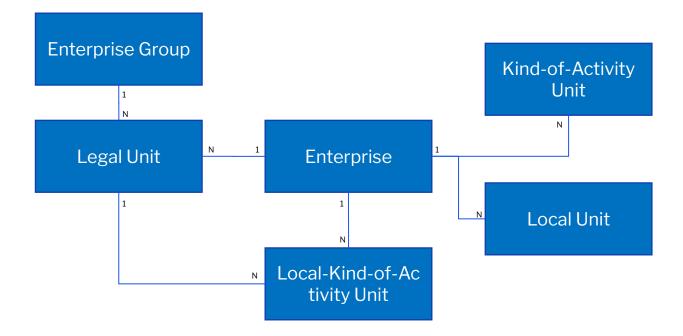
Structural business and financial statement statistics (preliminary t+9, final t+12) Regional statistics on entrepreneurial activity (t+12) Industrial output (t+11) Enterprise openings and closures (Q1:t-5, Q2:t-2, Q3:t+1, Q4:t+4,) Index of turnover in industry (t+75 days) Index of turnover of construction (t+75 days) Turnover of trade (preliminary t+22 and t+45 days, final t+75 days) Turnover of service industries (t+75 days) Wage and salary indices (t+45 days) International trade in services (preliminary t+5, final t+12) Foreign affiliates in Finland (FATS) (t+12) Finnish affiliates abroad (FATS) (t+16) Business Services Statistics (t+10) Business demography (t+12...18) Registrations and bankruptcies (t+40 days) + Chargeable services + Research services

YTY – Business Information System





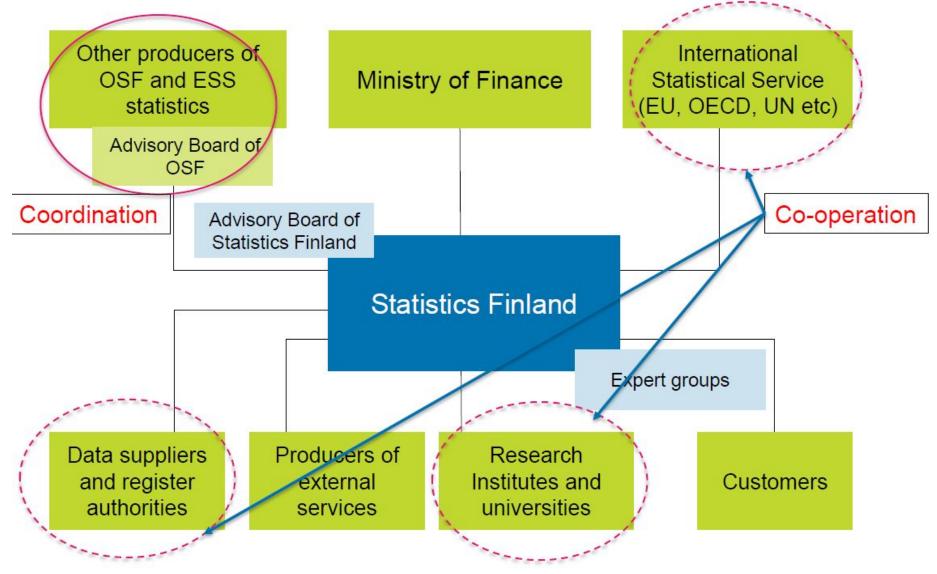
Unit Structures and Relationships





Internal and External Users of the SBR

Stakeholders, coordination and co-operation



Ville-Matti Pilviö



Legal basis for the use of administrative data

- Fundamental principles of official statistics, (1994)
 - **Principle 5.** Data for statistical purposes may be drawn from all types of sources, be they statistical surveys or **administrative records**. Statistical agencies are to choose the source with regard to quality, timeliness, costs and the burden on respondents.

• EU regulation 223/2009 and its amendment <u>759/2015</u>, **Article 17a**

- 1. the NSIs ... shall have the right to access and use, promptly and free of charge, all administrative records and to integrate those administrative records with statistics, to the extent necessary for the development, production and dissemination of European statistics
- 5. The NSIs and owners of administrative records shall establish the necessary **cooperation mechanisms**.
- Statistics Act (280/2004) of Finland
 - Section 4: When data are collected for statistical purposes the primary exploited sources shall be data accumulated in administering the tasks of general government



European Statistics Code of Practice (CoP), principles 2 and 8

- Article 11 of EU Statistical Law explains the meaning of CoP
- Priciple 2 : Mandate for data collection
 - 2.1: The mandate of the statistical authorities to collect information for the development, production and dissemination of European Statistics is specified in law.
 - 2.2: The statistical authorities are allowed by law to use administrative data for statistical purposes.
- Principle 8: Appropriate Statistical Procedures
 - 8.7: Statistical authorities are involved in the design of administrative data in order to make administrative data more suitable for statistical purposes.
 - 8.8: Agreements are made with owners of administrative data which set out their shared commitment to the use of these data for statistical purposes.
 - 8.9: Statistical authorities co-operate with owners of administrative data in assuring data quality.
- <u>https://ec.europa.eu/eurostat/web/quality/european-quality-standards/european-statistics-co</u> <u>de-of-practice</u>



Cooperation with Administrative Data Providers – Statistics Finland



What is administrative data?

- No definition in statistical legislation
- Data collected primarily for administrative purposes, as a result of administrative processes and decision making
- Kept and maintained by various state offices belonging to different administrative sectors
- Administrative registers are regulated by laws (right to collect, store, release, ect.)

Cooperation with data providers

- Bilateral data transmission agreements between Statistics Finland and the owners of administrative registers and data
- Discussions at High-level meetings (Director Generals) 1-2 years interval
- Discussions on expert level on monthly or short term intervals
- Identified contact persons for data transmission guarantees continuous and regular co-operation
- Information request when data is needed only once



Content of data transmission agreements

- More specific matters are agreed in the **data transimission agreement:**
 - Data release principles
 - Storage of released data
 - Data secrecy and protection
 - Data delivery (in appendix or here)
 - Compensation of costs
 - Contact Persons
 - Appendices of agreement (deliveries, technical matters, variables)
 - Validity and copies of agreement
 - Signatures
- Information request when data is needed only once or asked first time
 - By email? Delivery, variables, etc

Appendix A: Data deliveries

File names	Delivery fre- quency	Delivery schedule	Deliv- ery mode	Delivery method	File size cate- gory (S-M- <u>L)*</u>	SF: contact persons for data content	XX: Contact per- sons
						First name Last name, firstname.last- name@stat.fi tel. +358 29 551 xxxx	First name Last name, first- name.last- name@xxxx. xx tel. xxx xxxx

File names are of the form del_data_timeref_part, where

- 1. del: Identifier of the data supplier (e.g. official abbreviation) This part is always the same,
- 2. data: Name describing the data file or part of it

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- 3. timeref: The identifier for earlier and future data deliveries consisting of
 - *a) year specifier y20xx (mandatory data) and if necessary*
 - B) quarter q1-q4 or period p1-px or month m01-m12 or week w01-w53
- 4. A possible piece indicating the file part used for all large deliveries requiring division of data: 001-099

Appex B: Technical matters related to data delivery

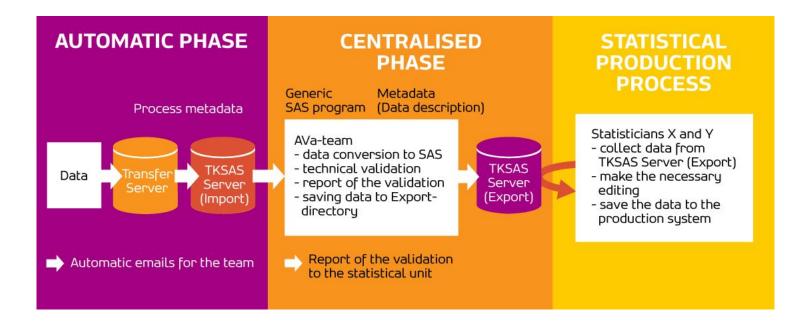
- Exporting files –basic data:
 - Data supplier, technical contact person
 - Supply method (server)
- Data files the supplier sends to SF server
 - Server name
 - Trasfer protocol
 - Authentication practice
 - Sender's identifiers (id and password given by SF)
- Data files that SF retrieves from supplier's server
 - Server name /IP-adress
 - SF identifiers
 - Authentication practice

National Board of Administrative Data Suppliers and Users

- This was in active use in Finland in the 1990s and 2000s during the initial phases of using Administrative Data for Statistical Production
- It allowed a regular channel for suppliers and users to interact
- It was very beneficial to bring about a "cultural change" in developing a collaborative, cooperative mentality between the AD Suppliers and Users
- Personal interaction
- Understanding why Users wanted access to the data
- Building trust that the data will not be misused

Phases of administrative data collection system

• The system consists of three phases: automatic phase, centralised phase and statistical production process.



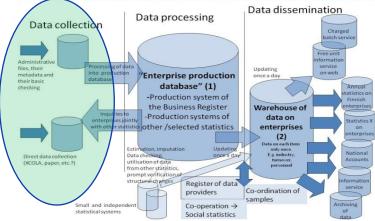


Quality check of Administrative Data



ETL1

Vision 2: The Business Register in a consistent enterprise data system



Data Arriving into YTY:

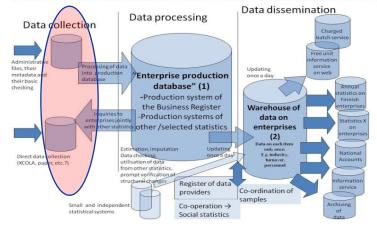
- Administrative data
- Data from direct collections (Surveys)
- These are implemented by standardised procedures

ETL: Extract – Transfer – Load.



Vision 2: The Business Register in a consistent enterprise data system





- All data entering StatFin enters through one "door" AVA (standard entry point)
- Is now in safe keeping and in a usable format
- No corrections are made to this data contents
- Data are technically corrected (formats)
- Validity of data has been established
- •Source data must be described in the metadata system
- Standardised Quality controls (meta-controlled) of data entering by "type"





Thank You - Kiitos!

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