



NIBIO

NORSK INSTITUTT FOR
BIOØKONOMI

USE OF ADMINISTRATIVE DATA AND NEW SYSTEMS FOR DATA TRANSMISSION IN NORWEGIAN FADN

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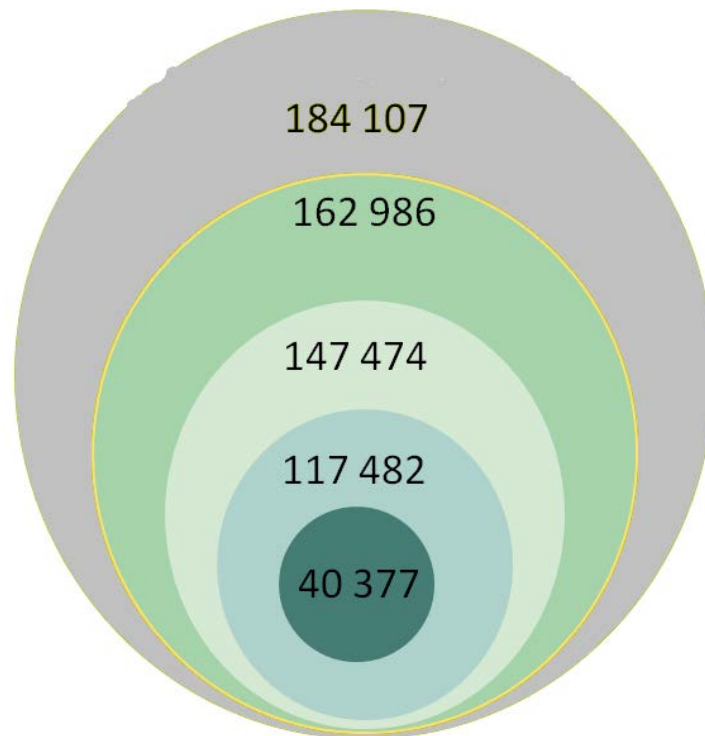
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AGENDA

- What will new legislation mean to our daily work?
- Use of administrative data in Norwegian FADN
- Possible Data Sources
- New path for accountancy data
- Summary

NORWEGIAN AGRICULTURE (2016)

- 184 107 agricultural properties
 - 68 percent owned by men, 26 per cent owned by women, 6 per cent owned by ghosts
- 162 986 properties with agricultural area
- 147 474 properties with domestic building
- 117 482 properties populated
- 41 003 active holdings (Statistics Norway, 2016)
- 40 377 holdings in Grant register



POPULATION FOR THE SURVEY IS DEFINED BY APPLICATIONS FOR SUBSIDIES

- Norwegian Agriculture Agency administrate subsidies. The grant register is the population for Norwegian FADN (40 377 holdings in 2016)
- Family farms
- Farmer must apply for subsidies
- Farmer is not more than 70 years old
- Standard output more than NOK 150 000 (€ 16 300)
- About 3 of 4 farms above threshold (30 000)

NEW LEGISLATION FOR PROCESSING OF PERSONAL DATA

- EU Regulation on «protection of natural persons with regard to the processing of personal data and the free movement of such data» will also concern Norway, becoming operative from May 25th 2018
- There will be a new national legislation in a few months
- Consequences for household income in our survey?
- If any of you know, please tell!

TAX ACCOUNTS AS DATA SOURCE

- Tax accountancy from 283 accountant's offices and 116 farmers
 - 2 dominant software systems have more than 90 per cent of the market
 - NIBIO makes the national standards (accounts, product code, farming code)
 - Transmitted to NIBIO by flat text files by uploading at our web site
- Aggregated information on account level
- Different practice with some lack of standardization
- Time consuming harmonization

ADMINISTRATIVE DATA FROM NAA

- Landbruksdirektoratet (Norwegian Agricultural Authority)
 - Managing the Norwegian agricultural grant regime
 - Farm level data on subsidies, forestry sales, slaughtered animal amounts, milk production, grain production, fruit production, eggs, wool etc.
 - Reading text files with detailed data into our data base by removing aggregated data collected from the accountancy
 - Important to complement accountancy data with amounts like numbers and kilograms from different productions when missing in taxation data

OTHER DATA SOURCES (FARM LEVEL DATA)

- Slaughterhouse (Coop)
 - Settlements on text files with amount of meat, price support and payment
 - 70 per cent of meat production covered
- Dairy industry (Coop)
 - Settlements on text files with amount of milk, price support and payment
 - 90 per cent of milk production covered
- Norwegian National Board of Animal Production Recording
 - Production data (number of cows, milk quota, milk delivered, milk yield, etc.)

DATA FLOW

- «Landbrukets Dataflyt SA» (Data Flow of Agriculture, a legal company owned by most of the big firms buying and selling to farmers)
 - The farmer is the owner of the data, gives potential users as NIBIO access by assenting at the web site
 - Data ware house for different agricultural data and transmitter for data flows
 - Transmitted by XML files
 - Including private companies, Coops, insurance companies, banks, forestry organizations, new participants continuously
 - Operating data flows; settlements, invoices, animal data, accountancy files, bank reports, etc.
 - Accountancy files very detailed and standardized

ACCOUNTANCY FILE FROM LANDBRUKETS DATAFLYT

- New in 2016
- Generated from software in some accountancy offices
- Very detailed data following new common standards
- Include private economy (if existing)
- Just a few offices have sent files yet
- 136 farmers have given NIBIO access to the files
- Just a few files tested yet, but 2017 in full scale
- $\frac{1}{4}$ of the farmers has joined the system (10 000 farmers)

ADVANTAGES AND NEW POSSIBILITIES

- Access to detailed data for research purposes
- Better quality on data
- More efficient treatment of data
- Access to a lot more farm level data than 900 for the Norwegian FADN (10 000 farms are within the system today) Assessment from farmer necessary
- One connection point instead of 280

BOTTLENECKS AND THREATS

- Bottlenecks
 - The farmers and the accountant's offices have to be members of Landbrukets dataflyt SA
 - Farmers must actively go to the website and open for NIBIO
 - The potential for this path is about 50 per cent of the farmers in FADN
 - We have to operate 2 different systems of importing data to the FADN for some years
- Easier for competitors to get access to farm level data
- New legislation for privacy?

SUMMARY

- Lower future budgets have to be followed by more efficient systems or fewer participants in the survey
- Administrative data increases usability and quality
- New data ware house streamlines data transmission and reduces need of supplying administrative data from other sources
- More detailed data opens for wider range of use for the FADN data base
- Extra costs by operating two systems in the coming years
- Data ware house with farm level data opens for competitors

–Thank you for your attention!

