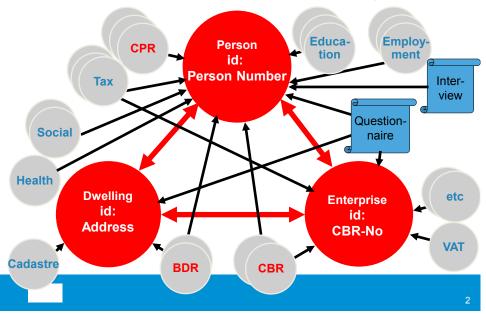


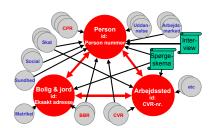


The Statistical Information System











A treasure!

- High data quality
- Coverage
- Coherence
- Combining & linking
- Longitudinal studies
 - World's first Census without questions

www.dst.dk/declarations

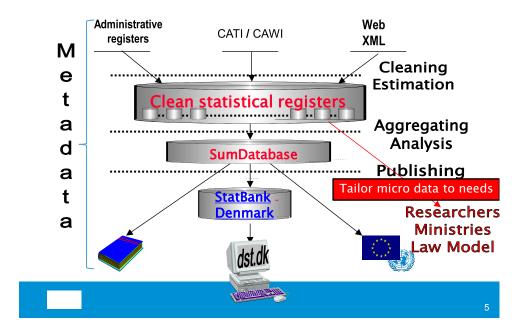
3



The State of Denmark







Consequences of archive method

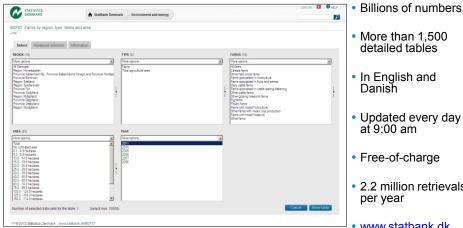
- Data collection not linked to use
- Key purposes are foreseen
- Almost anything can be made on demand

The statistical program	Paid services
Decided by the Board	Customers
Free on Internet/ StatBank.dk	Full (average) cost recovery
Examples: Municipality level	Examples: Small area statistics
Detailed statistics	Even greater detail
	Research on micro data





Most important channel: Online access to **Statbank Denmark**



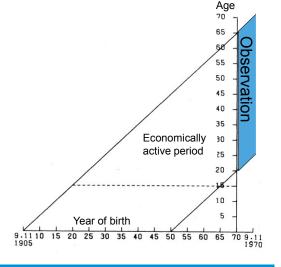
- detailed tables
- In English and Danish
- Updated every day at 9:00 am
- Free-of-charge
- 2.2 million retrievals per year
- www.statbank.dk

Micro data and longitudinal analysis

Fig. 3.2.1. Undersøgelsespopulationens fødselstidspunkt og erhvervsaktive periode.

Elsebeth Lynge: Occupational mortality 1970-75

- Pioneering studies!









Register based research

1986: Statistics Denmark starts "on-SITE" access for researchers.

1993-2000: possibility to send programmes to Statistics Denmark and have the output sent back.

2000: Statistics Denmark starts "on-LINE" access for researchers: Direct access to databases in Statistics Denmark from own computer

2002: Ministry of Science starts supporting computer time for researchers in Statistics Denmark and update/documentation of selected databases

g

Researchers' access

1986: 2 researchers
1997: 71 researchers
2002: 151 researchers
2004: 277 researchers

2008: 667 researchers2012: 1,000 researchers

2014: 1,400 researchers



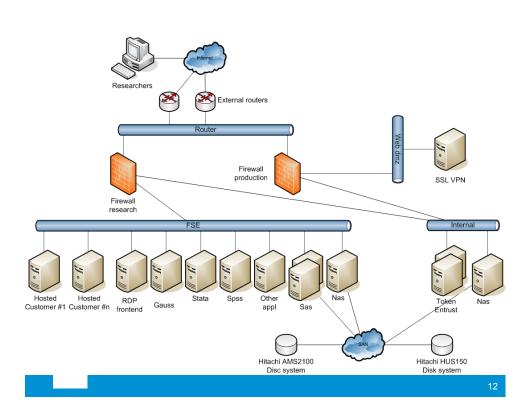


Online access to micro data

Balancing data protection and usefulness

- Only for researchers and analysts from authorized research and analysis environments
- Special servers separated from the statistical production
- The de-identified micro data (individuals and businesses) remain at Statistics Denmark
- · Outputs with statistical results are forwarded by e-mail
- Strict data security measures and severe sanctions if the rules are not complied with

11







Organization of Research Services

Data for research is handled by a specialized Research Service Unit at Statistics Denmark

- · 15 academics, 5 IT staff
- Manage the remote access arrangements and administrate authorizations, contracts etc.
- · Check outputs on a sample basis
- · Coordinate data from all divisions in Statistics Denmark
- · Deliver data to all research projects
- · Give advice to researchers new and old projects
- Do computer related work. Update research databases, develop new facilities

13

Research Databases

- · Special registers for research
- Reducing costs
- Special research topics:
 - Labour Market Research Data Base
 - Demographic Database
 - Social Research Database
 - In-patients Register (hospitals)
 - Medical Prescriptions Database
 - etc.





Why researchers use this facility

- Data coverage
- Quality
- Coherence
- Longitudinal
- Documentation
- Supplement with own data
- Supplement with survey data

15

Confidentiality

- All data is de-identified
- Only access to the data needed for the specific research purpose
- No micro data ever leaves SDK
- No public use data sets
- No scrambling or distortion of data
- No linking by researcher
- No complaints from research community

.0





Other micro data mechanisms

- The Law Model
- The ministerial arrangements ("Data Warehouses", in preparation)





