

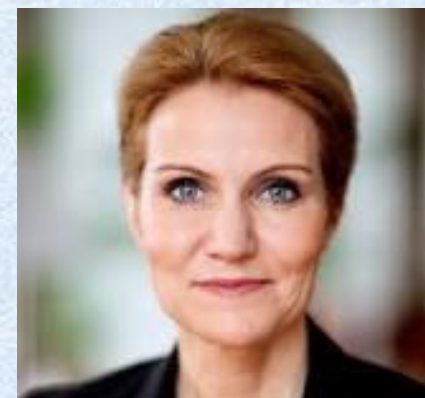
Presentation of Statistics Denmark

Preben Etwil



Queen and Prime Minister

- **Her Majesty Queen Margrethe 2**
 - Married to Henri de Laborde de Monpezat; two children
 - Prehistoric Archaeology at Girton College, Cambridge
Political Science at Aarhus University Denmark
- **Prime Minister of Denmark
HelleThorning-Schmidt**
 - Married to Stephen Kinnock; two children
 - Master of Political Science, Copenhagen, 1994
Master in European Studies, College of Europe, 1993



Facts about Denmark

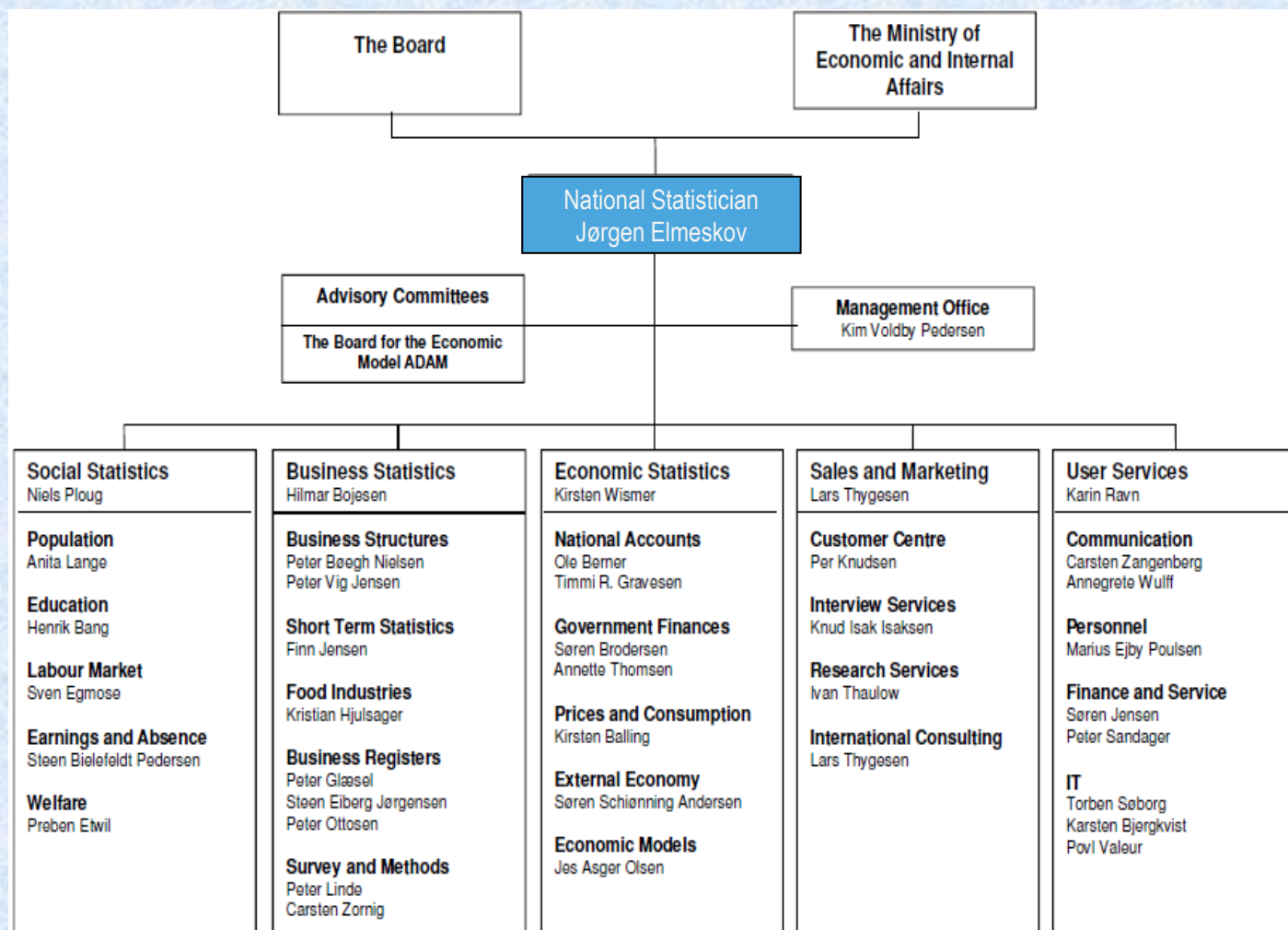


- Constitutional monarchy
- Area 43,000 km² (88,794)
- Population (mill., 2013) 5.6 (6.4)
- Life expectancy (2010-11)
 - Females 81.6 (73.8)
 - Males 77.3 (70.3)
- Total fertility rate (2011) 1.76 (3.5)
- Unemployment (2012) 6.2% (12.9)

Statistics Denmark, Copenhagen



Organisation



National Statistician



Jørgen Elmeskov

National Statistician
from October, 2013

Former Director and
Deputy Chief Economist
at the OECD

Master in Economics
From the University of Copenhagen

Born 1956

Staffing and budget



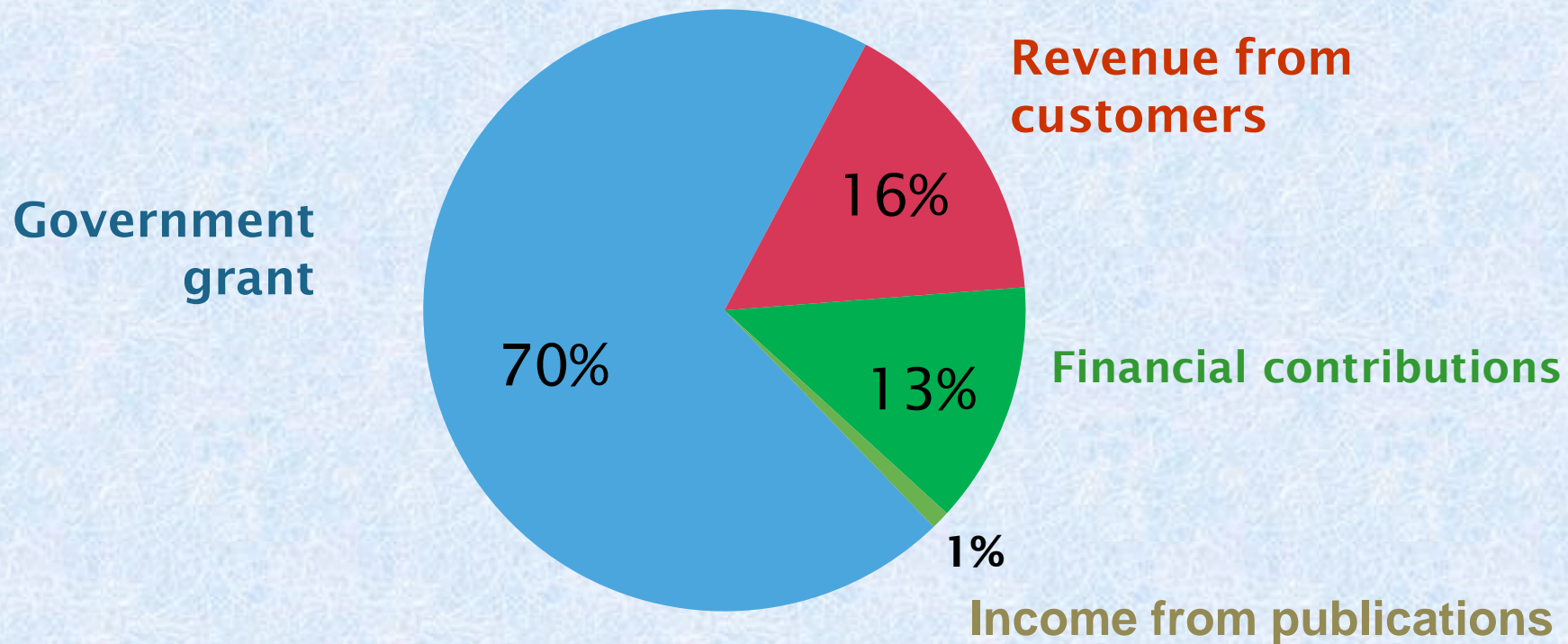
Employees:
562 man-years

Budget:
DKK 384 m.
Euro 51,5 m.

Of this own income:
DKK 114 m.
Euro 15,3 m.

All numbers of 2013

Key figures

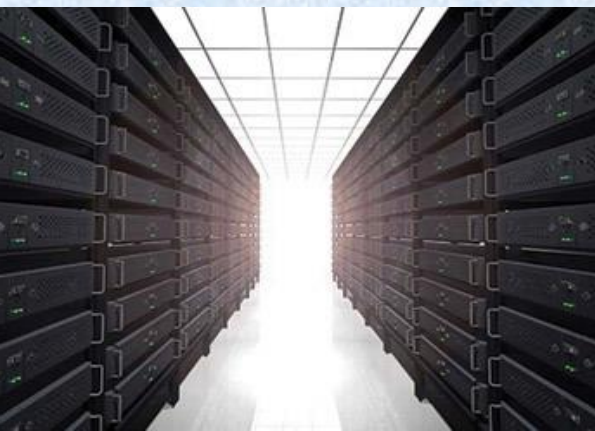


Data Acquisition



1. Registers
2. Surveys
- (3. Interviews)

Sources



Skema til forberedelse

Grundriss
Varens navn: Kylling i papirlæssaues
Udbytte: Antal couverts 6

Nr.
Dato: 19

Antal stk. Antal kg

Kolonne 1 Råvareart	Kolonne 2 Mængde	Kolonne 3 Råvare kg/stk./liter	Kolonne 4 Omgæknings- tal for tilbe- redelsesstadiet	Kolonne 5 Kolonnens 2 x 3 x 4 ish
		Kr. Gns		Kr. Gns
Kylling	2			
Salt	0,004	3	85	
Peber	0,008	59	00	
Smer	0,050	32	50	
Chalotteteg	0,015	14	50	
Hvidtæg	0,010	27	50	
Hvidtæg	0,250	0	75	
Crème fraîche	0,250	17	80	
Hvidtæg	0,012	6	50	
Tilbehør:				
Fluse				

Diverse, ind. kvantitet, papir, pr. m.m.

6. Kolonne i alt
7. Bruttoopgave incl. råvare og betjening
KANTON: _____

8. Bruttoopgave, afsluttet
9. EP pr. couverts/kg.

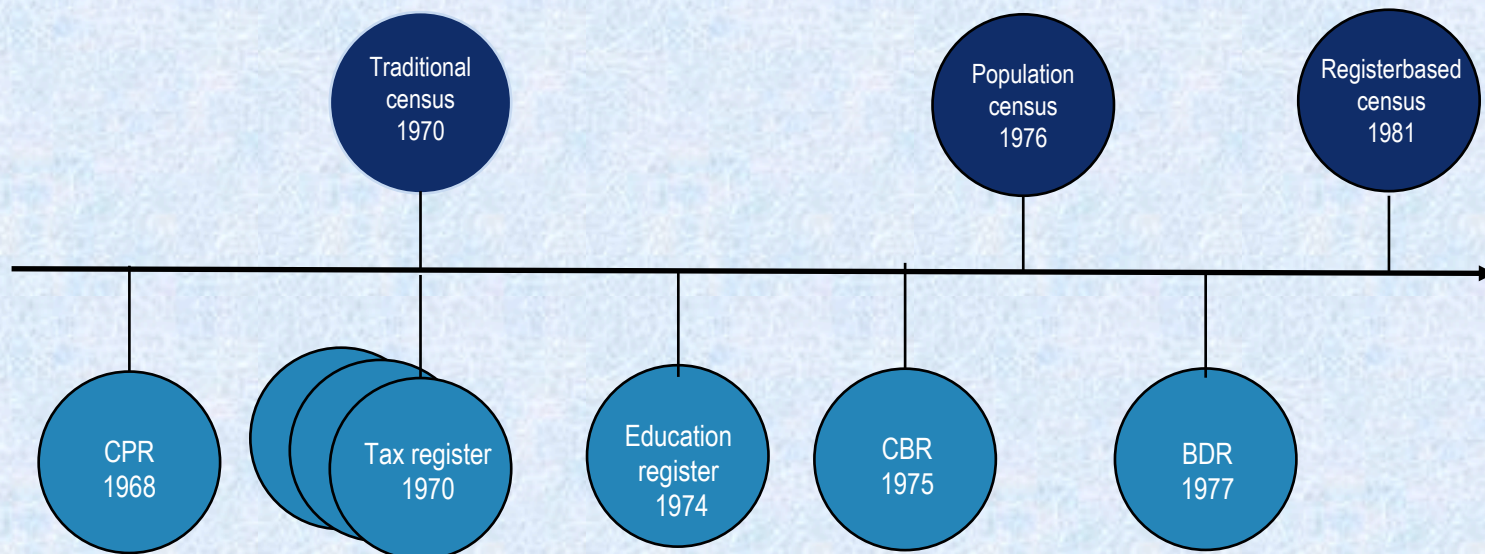
Udført af: _____



- Surveys and interviews 5-10 %
- Administrative registers 90-95 %

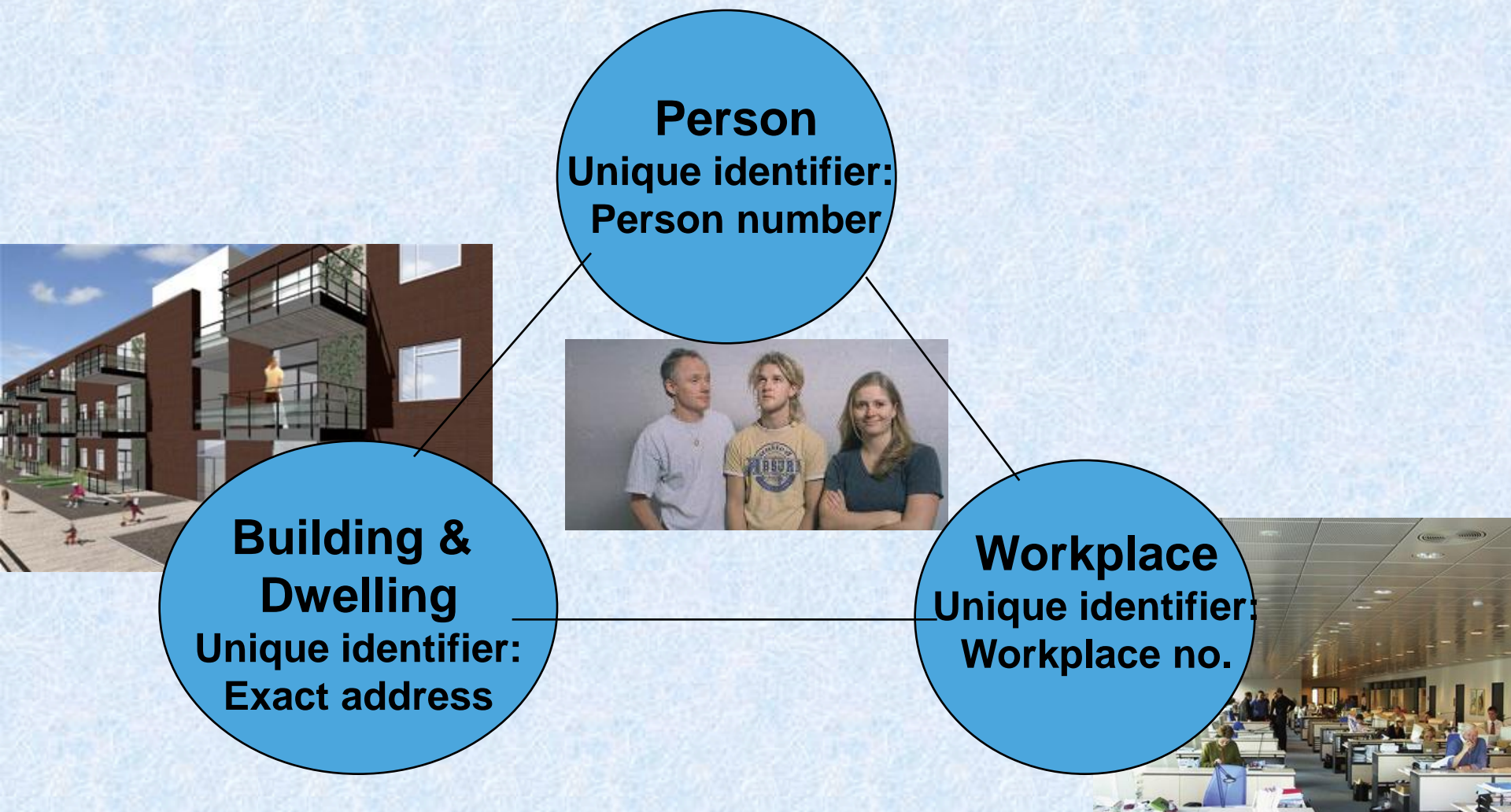
Very rough estimates!

Time axis for registers



It was possible to conduct **the worlds first totally registerbased Population and Housing Census in 1981** by combining data from all relevant administrative registers

The register model



Access to Information

- *Public* authorities must supply information
 - Act on Statistics Denmark, 1 July 1966
Latest amendment: June 2010
- *Private* businesses must supply information within the legal framework
 - Act on Statistics Denmark and EU legal acts
- *Individuals* have no obligations

Access to Information by Act on Statistics Denmark

Act on Statistics Denmark Consolidated act No 599 of June 22, 2000

Translation by Statistics Denmark¹

Section 1. An institution designated Statistics Denmark shall be established as the central authority for Danish statistics.

This institution

- 1) will collect, process and publish statistical information on social and economic conditions, possibly in collaboration with municipal authorities and other statistical bodies,
- 2) may undertake the collection, processing and publication of statistical information for municipal authorities, organisations and private enterprises, etc.,
- 3) will supervise or assist in the establishment and utilisation of central public registers which serve to perform administrative duties for the public sector, business and industry, and which can be used for statistical purposes,
- 4) may assist committees and commissions in statistical matters,
- 5) may prepare statistical analyses and forecasts,
- 6) will undertake tasks relating to international statistical cooperation.

Section 2. Statistics Denmark is an independent institution under the direction of a Board of Directors consisting of the National Statistician as chairman, and six other members with insight into social and economic conditions, including business, industrial and labour conditions. The six members will be appointed by the Minister for Economic Affairs for maximum individual terms of four years. The Board will establish its own rules of procedure.

Subsection 2. The National Statistician shall be appointed by the King. The recommendation of the Minister for Economic Affairs shall be submitted after consultation with the Board.

Section 3. The Board will decide the working programme for Statistics Denmark in accordance with the provisions in Section 1, subsection 1, and will establish rules for treatment of the co-ordination matters referred to in Section 1, subsection 3, and of matters concerning the co-ordination of public and non-public statistics.

Subsection 2. The Board will decide on the

The CPR-system

- The Central Personal Register was introduced 1968
- It assigns a unique ID to persons living in Denmark. The 6 first digits represent the date of birth.
- CPR-numbers: DDMMYY-XXXX
- The CPR-system is used in the public sector when relating to the authorities.



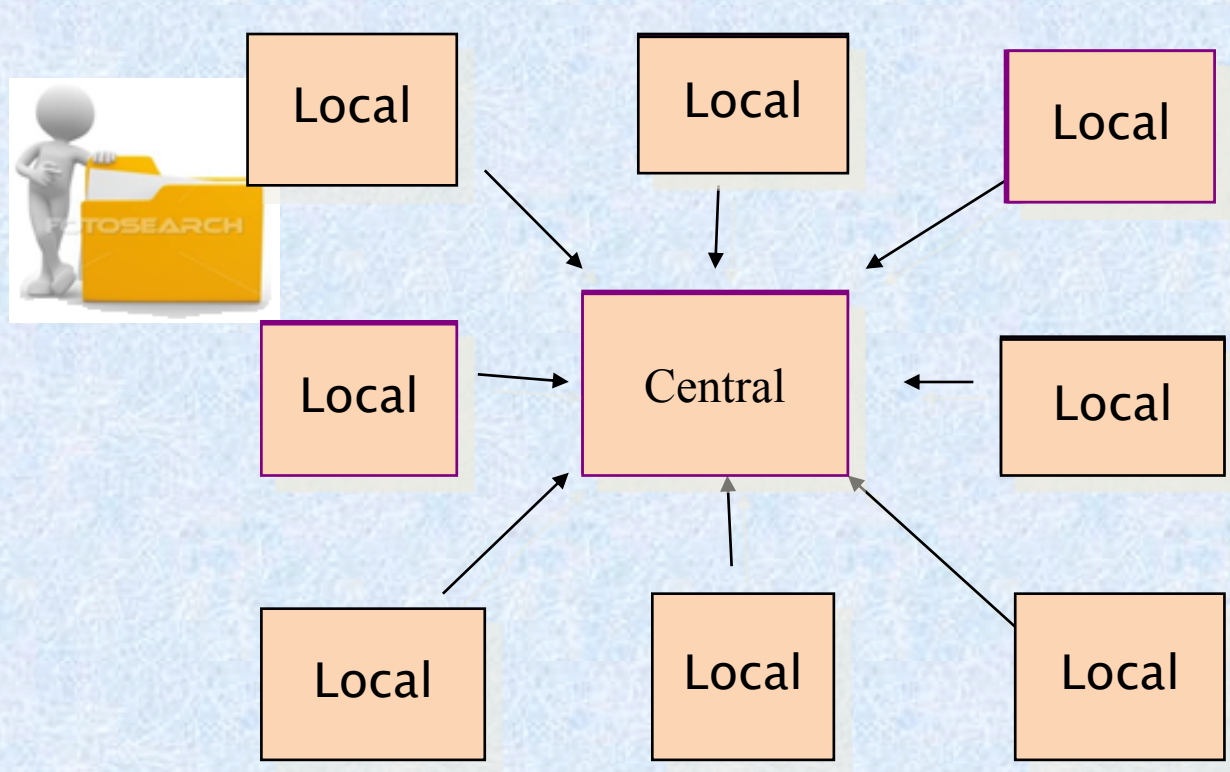
The Central Personal Register (CPR)

- Name
 - Age
 - Sex
- } from PIN-number
- Marital status
 - Citizenship
 - Place of birth
 - Address
 - Family (CPR of mother, father, spouse)



Source register: Central Population Register

98 local registers



CPR-numbers – Key-variable

- Makes it easy to produce gender statistics (indicators)
- CPR-numbers:
DDMMYY-XXXX
- If the last digit is
0, 2, 4, 6 or 8 : female
- If the last digit is
1, 3, 5, 7 or 9 : male



BDR Building and dwelling register

1977

- Dwelling information

- Type of dwelling
- Age
- Size – number of rooms, square meters
- Use of dwelling
- Usage by owner



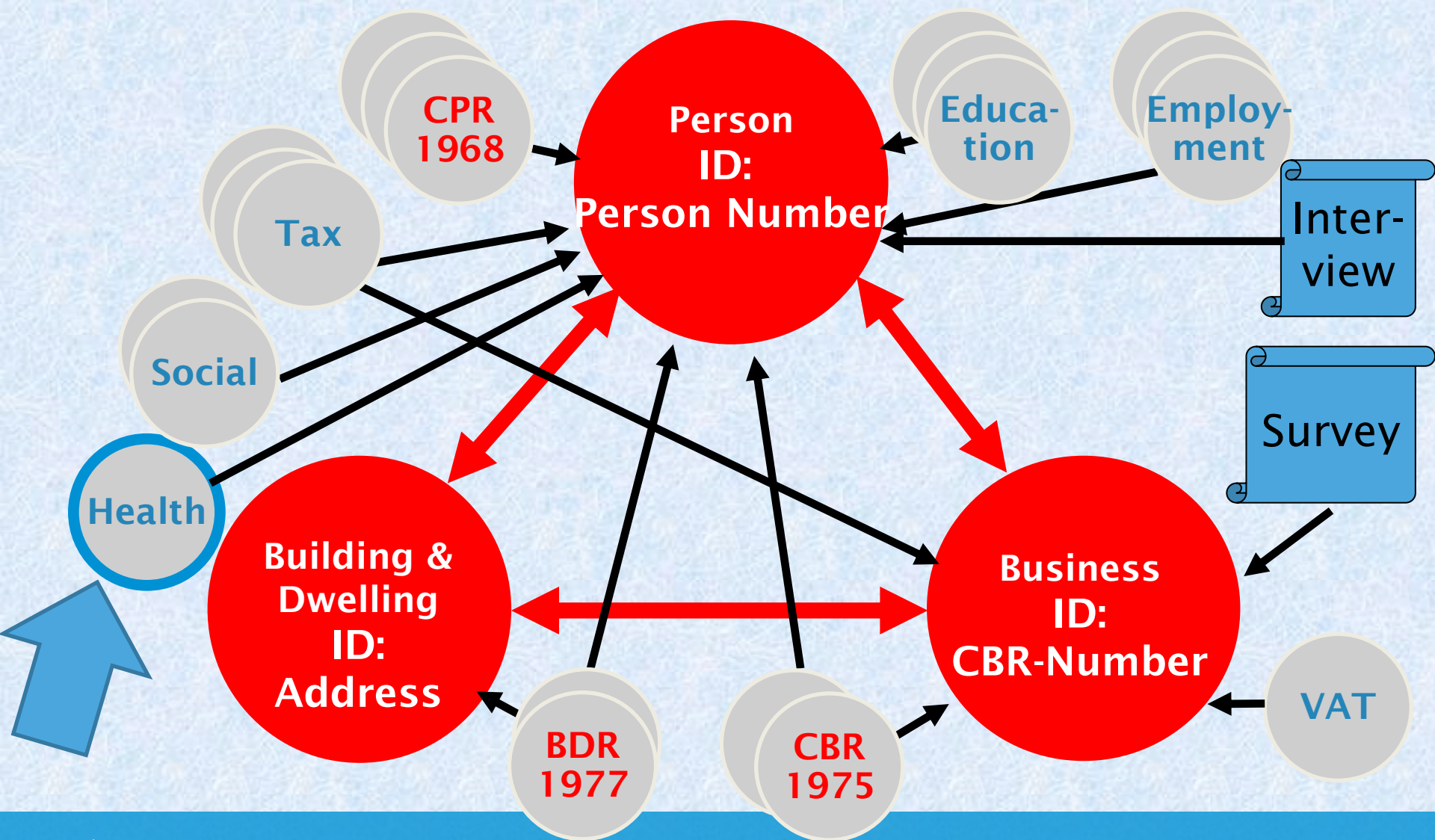
The CBR-system

The Central Business Register data is registered:

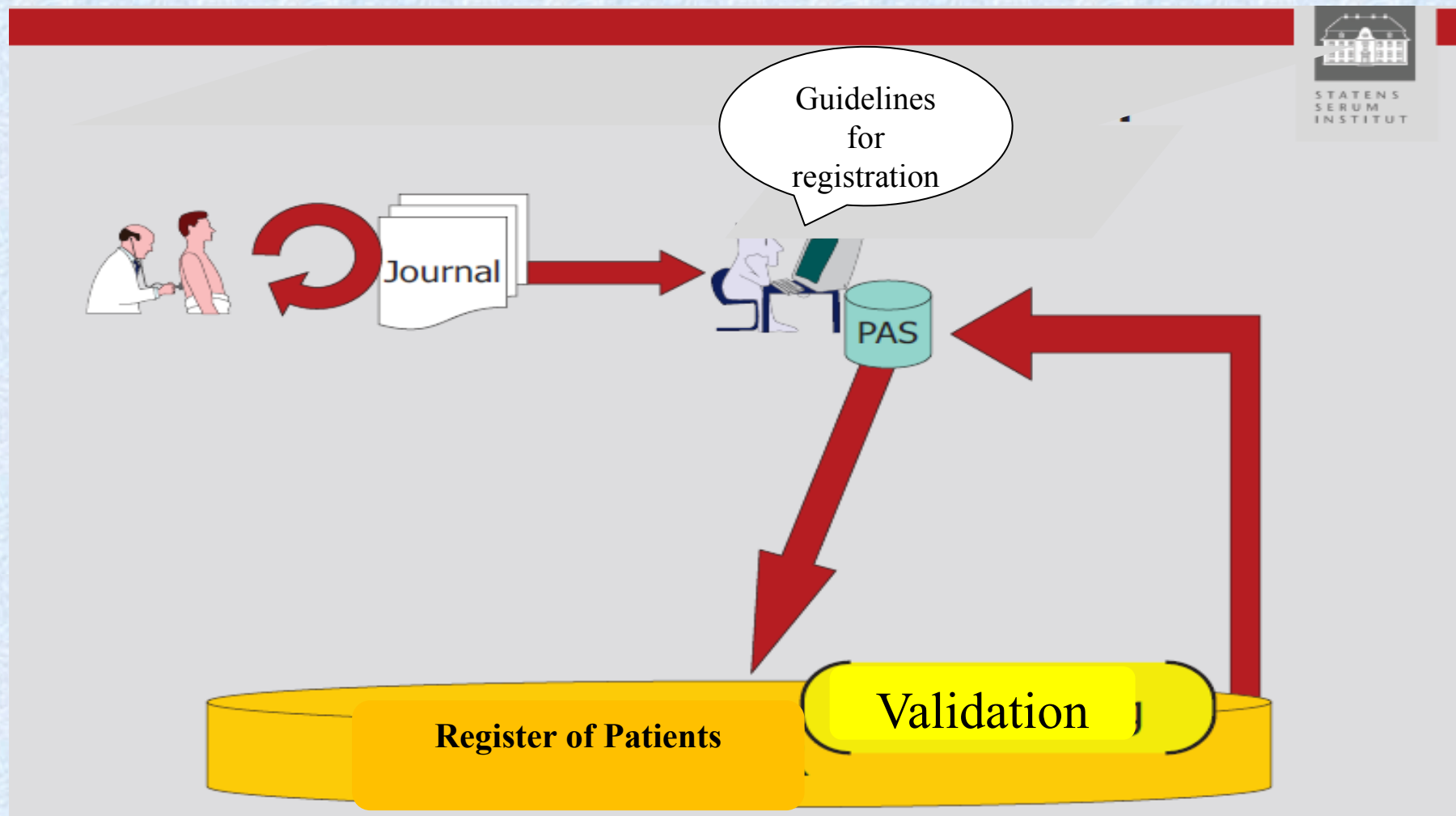
- Businesses with a turnover > 50.000 DKK
- Workplace address
- Number of employees
- Industry (DB07)



The Statistical Information System

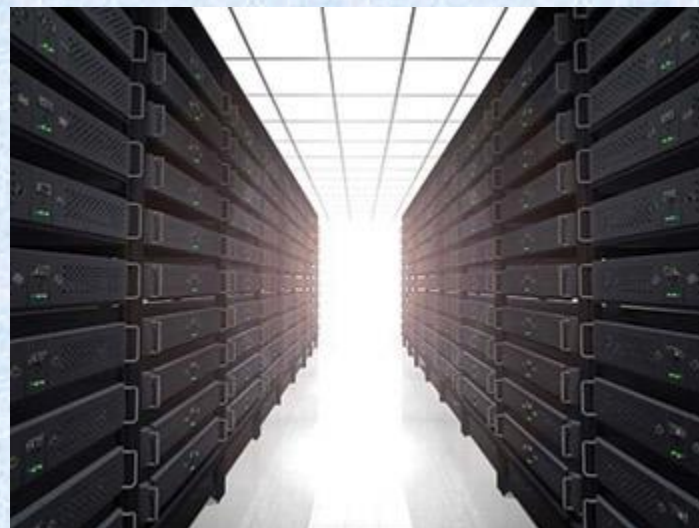


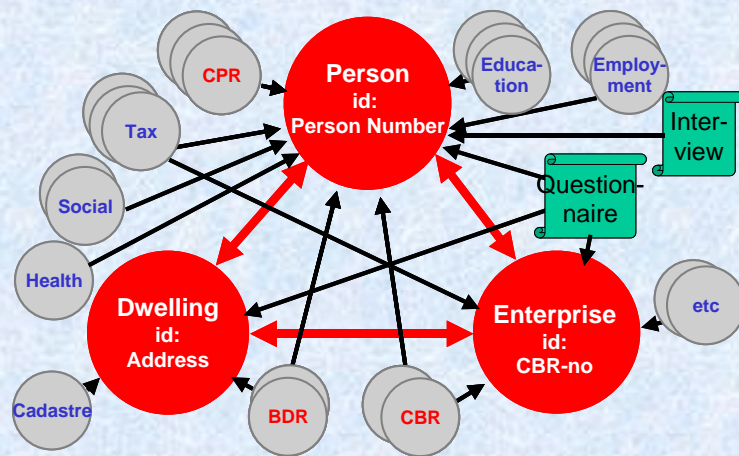
National Register of Patients (LPR) – an illustration



Why use administrative sources?

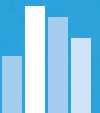
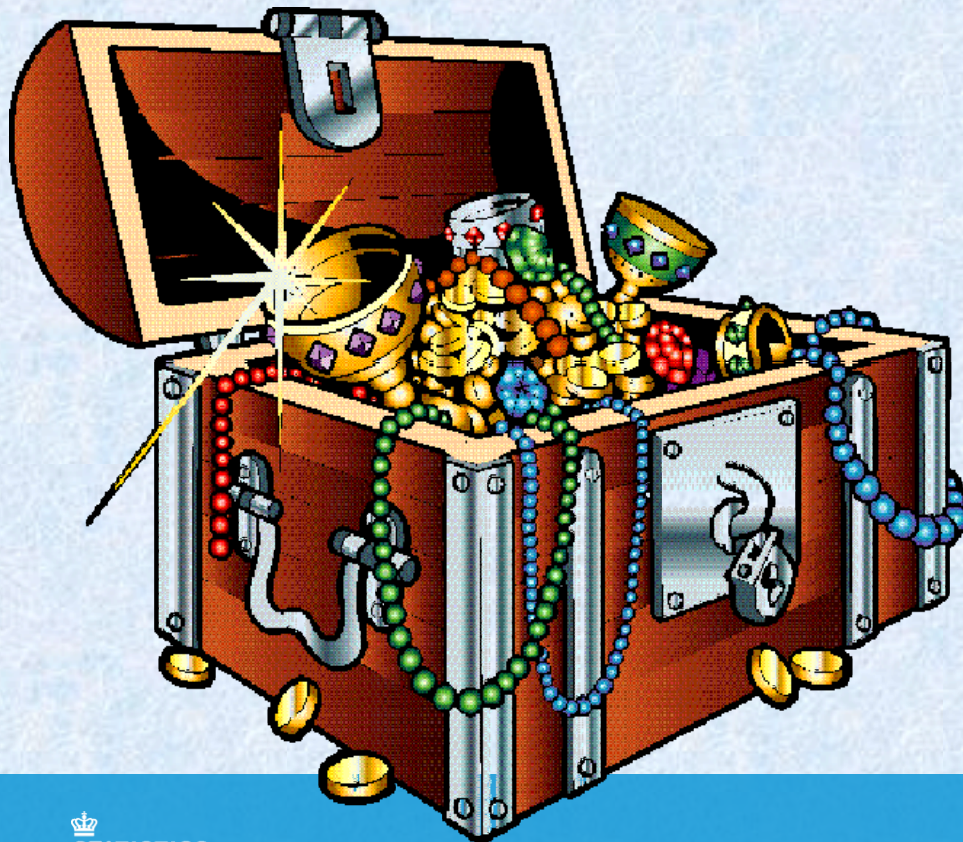
- It is cheap
 - provided the data is already there
- No response burden
- Total population coverage
- Without non-response
- Data quality may be outstanding



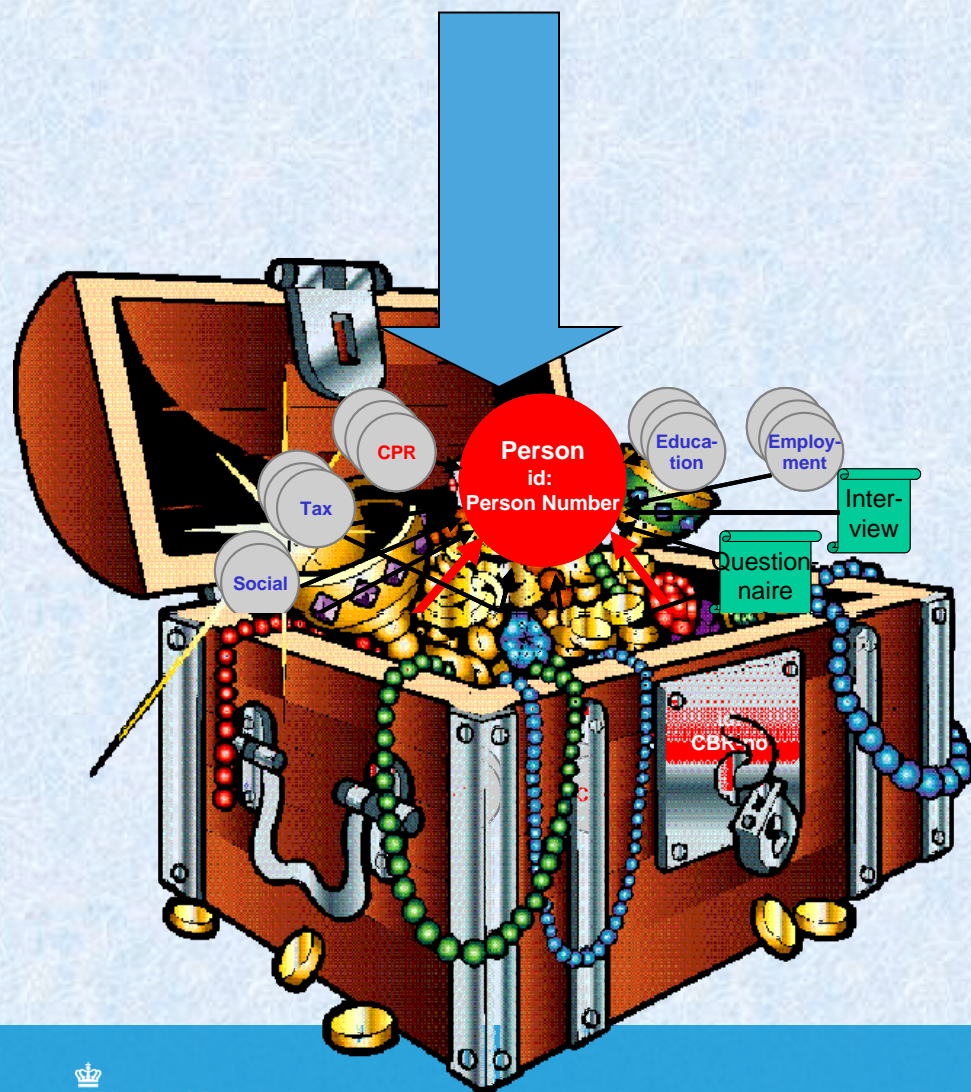


The Statistical System

- Coverage:
 - Entire population
- Linked with a multitude of social data from other registers



Sharing the wealth of information



- Chest filled with treasure of information to combine and use for analysis.
- Possible to make all kinds of gender statistics

Summary – Data Collection Method & the Statistical System

- 90-95% of the data comes from administrative registers
- Statistics Denmark is via legislation ensured access to data
- The data system is built-up around 3 key variables:
 - **CPR – Personal Identification Number - 1602702674 (date of birth, sex)**
 - **BDR - Address - 101 2435 012A 04 TV09 - identifies the single dwelling**
 - **CBR – Central Business Number + workplace number - Identifies the single workplace**