

# Record Linking of Admin data

- ◆ The task: develop coherent and integrated statistical systems
- ◆ Integration of base registers, other administrative data and statistical surveys
- ◆ Example: the job file and extended job file – linkage of a large number of sources
- ◆ Cases of inconsistency when 2 sources are linked at unit level

# Infrastructure for EDI

- ◆ Base registers and ID numbers for person (PIN), business (BIN) and dwelling (DIN)
- ◆ Use of ID numbers to achieve reliable linkage at unit level
- ◆ Use of a common portal for EDI

# Different reference periods

- ◆ a date
- ◆ a week
- ◆ a month
- ◆ a calendar year

# LINKING, editing and imputation for the job file

- ◆ Data sources: employee jobs, self-employed jobs, spells of unemployment and labour market measures
- ◆ Variables that define the unit of job:
  - ◆ [1] PIN, BIN, T1-T2

# Variables related to the 3 units of the job file

- ◆ Person: age, sex, residence, education
- ◆ Establishment: locality, industry, size group
- ◆ Job: occupation, hours, wage sum

# Data sources

- ◆ Social Security data on employee jobs
- ◆ Tax Agency data on annual wage sum
- ◆ Tax Agency data on mixed income of self-employed jobs
- ◆ Employment service data systems on spells of unemployment and periods in labour market measure

# The process of linking

- to identify the same job across sources
- to ensure consistency in dates of start and stop of jobs
- calculation and imputation of variables

# The extended job file

- ◆ Labour Force – labour income/benefit
- ◆ In current education – source of livelihood
- ◆ Household work – source of livelihood
- ◆ Other income sources: pensions

# The process of linking and definitions of variables

- ◆ Labour force
- ◆ Main activity
- ◆ Main source of livelihood

# Linkage of a set of longitudinal databases

- ◆ Three Base registers
- ◆ National Insurance data
- ◆ Education
- ◆ Income accounts
- ◆ Labour
- ◆ Annual census file
- ◆ Nursing and care (in 2-3 years)
- ◆ Possible health indicators

# Welfare accounts

- ◆ Frame for statistical accounts
- ◆ Frame for longitudinal databases
- ◆ Statistical files for research projects

# Measuring the quality of linked files

- ◆ Linking – errors – corrections
- ◆ Total Quality Management
- ◆ Linkage of administrative sources
- ◆ Linkage of administrative sources and statistical surveys

# Record linking for administrative purposes

- ◆ Electronic reporting
- ◆ Annual tax return
- ◆ Uniting Social Security – Employment Service and local Social Service