



The development of data collection on Wages, Earnings and Labour Cost in Iceland

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Historical overview

- Electronic data from payroll systems since 1986
 - Institute of Labour Market Research (1986–2004)
- Formal agreement between Statistics Iceland and Institute of Labour Market Research 1996 on a new wage survey
- Statistics Iceland responsible for the wage survey since 2005





The Survey

- The Icelandic Survey on Wages, Earnings and Labour Costs
- ▶ A sample survey of business units who operate in Icelandic labour market
 - Company, institutions or municipality
- Survey and data collection in its current form goes back to 1998





Electronic data collection

- Data are collected directly from the business units own wage software
 - Contracts have been made with software firms to develop and maintain an application for the survey
 - The application is a part of the wage software basic pack
 - Business units send a text file every month directly to Statistics Iceland from their payroll system





Extensive inclusion process for each business unit as it enters the survey

- Inclusion process is divided into:
 - Approval and cooperation
 - Ensuring the uniformity of the data
 - Quality check on trial data





- Approval and cooperation
 - A formal letter is sent to the business unit
 - ▶ The business unit is contacted via phone and approval by the CEO is obtained
 - Emphasis on cooperation not duty
 - A contact person is appointed within the business unit





- Ensuring the uniformity of the data
 - Statistics Iceland visits the business unit
 - Examines the wage structure
 - Assigns payroll items to wage items in the survey
 - Assists with classifications





- Quality check on trial data
 - A trial file is sent
 - Quality check
 - Feedback to the business unit





Regular data transmission

- After the inclusion process is completed monthly data transmissions begin
 - Data is submitted in a text file via email for all employees in the business unit
 - Business units and personal identifications numbers are encrypted
- A special software is used to perform a quality check
 - If there are some flags raised during the quality check the business unit or software firm is contacted





The structure of the data

Business units

- 1. Company ID number
- 2. Municipality
- 3. Economic activity

Employees

- 4. Employee's ID number
- 5. Month and year of birth
- 6. Sex
- 7. Union
- Pension fund
- 9. Education
- 10. Occupation
- 11. Length of service
- 12. Employment ratio
- 13. Pay period
- 14. Contractual working hours
- 15. Annual leave entitlement %
- 16. Annual leave arrangement
- 17. Aggreement
- 18. Wage group
- 19. Wage level

Wages and working hours

- 20. Basic wages and salaries
- 21. Normal hours
- 22. Additional allowances

- 23. Expense payments
- 24. Bonus payments
- 25. Picework and output work payments
- 26. Shift premium
- 27. Hours with shift premium
- 28. Overtime pay
- 29. Overtime hours
- 30. Sickness pay
- 31. Sickness hours
- 32. Lump sum payments
- 33. Committee or management allowance
- 34. Allowances for transport
- 35. Payments in kind
- 36. Other payments
- 37. Remuneration paid for leave

Labour Cost

- 38. Pension fund contribution
- 39. Social security tax
- 40. Sickness and rehabilitation fund payment
- 41. Vacation (union) housing fund fee
- 42. Science fund and continued education
- 43. Special pension fund contribution

Payment periods

- 44. First day of payment period
- 45. Final day of payment period





Aim of the data collection

- Minimal response burden
 - Use data that already exists in the business unit
 - Simple transmission
 - Minimal time and cost required
- High quality of the data
 - Direct transmission from the payroll system
 - Motivation to submit data
 - Cooperation not duty
- Standardize collection method
 - Standardized definitions of wage items and classifications
 - Harmonized datasets





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Developments

- Establishing good cooperation and relationship with data suppliers
- Emphasis on quality testing and managing the data
- Feedback minimized to reduce response burden





Results

- Detailed electronic data very sensitive to changes
- Data management too time-consuming
- Risk of errors
 - In manual corrections and imputations
 - Unnecessary individual estimation





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- Data management too time-consuming
- Risk of errors
 - In manual corrections and imputations
 - Unnecessary individual estimation
- Less data quality
- In the long run more response burden





New developments

- Constant feedback to the data suppliers and software firms
 - Focusing on providing positive feedback and support

- Establishing good collaboration
 - Building trust





Results

- Problems related to the data solved immediately to prevent accumulation of unsolved problems
- Manual corrections and imputation kept to a minimum
 - Individual estimation minimized
- Joint effort rather than obligation
 - Extra recording becomes part of data suppliers routine





Results

- Problems related to the data solved immediately to prevent accumulation of unsolved problems
- Manual corrections and imputation kept to a minimum
 - Individual estimation minimized
- Joint effort rather than obligation
 - Extra recording becomes part of data suppliers routine
- Significantly higher quality of the data
- In the long run less response burden
- Less overhead expense





In short

- Easy and efficient data collection
 - Electronic data collection

- High quality of the data
 - Constant feedback and support
 - Extensive quality check on the data
 - Good collaboration





Thank you