

Using administrative data for the Italian Cleaning SPPI

Cristina Cecconi, Federico Brogi, Giuseppina Sola - ISTAT

Introduction

Two of the main problems for NSIs: response burden in short term business surveys and direct data collection costs were totally avoided by integrating data from two administrative sources and an archive derived from a statistical process to obtain the variables used to identify output prices for cleaning services in Italy.

The Industry and the Market

Italian Statistical Business Register (ASIA) Year 2013

NACE REV. 2 - 81.2	Number of enterprises	% Turnover	Number of employees
81.21 General cleaning services of buildings	24.619	71,7	319.240
81.22 Other building and industrial cleaning services	678	17,9	45.160
81.29 Other cleaning services	3.494	10,4	36.111
81.2 Cleaning services	28.791	100,0	400.512

Market conditions in 2013 (latest data available)

- ✓ most of the enterprises are small in terms of turnover and employees;
- ✓ 89% of enterprises have < 15 employees, 0,3% have > 500 employees;
- ✓ market leader holds 6,7% of total turnover;
- ✓ only 5 enterprises hold at least 1% of total turnover;
- ✓ 193 enterprises (0,7%) have 50% of total turnover;
- ✓ In 2007-2013 total turnover remains between 11 and 12 millions €.

Characteristics of the service

From interviews to large enterprises:

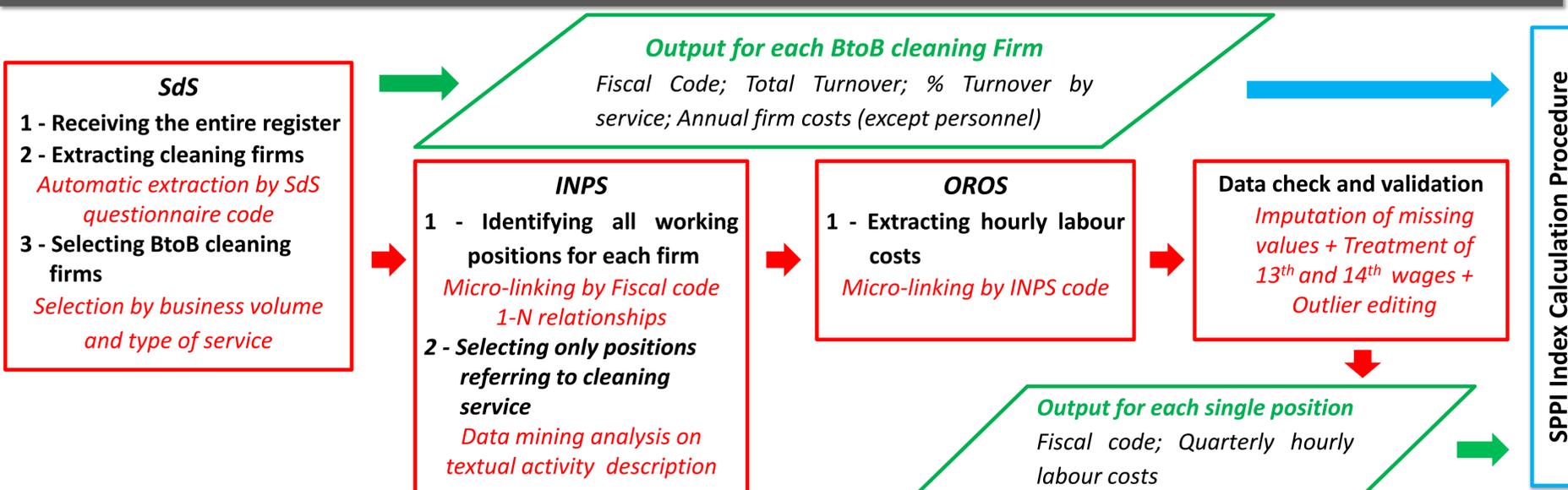
- ✓ outsourcing is commonplace;
- ✓ workers are directly employed by cleaning enterprises;
- ✓ long/medium-term contracts with price updating ;
- ✓ **the largest price determining factor is labour cost (85%);**
- ✓ **other price determining factors (15%)** are: frequency and type of cleaning, cleaning size in sq.m., materials, work clothes, equipment, type of client, profit margin.

Administrative sources used

	ADMINISTRATIVE SOURCES		
FEATURES	SECTOR STUDIES (SdS)	SOCIAL SECURITY WORKING POSITIONS (INPS)	OROS
DATA HOLDER	Italian Revenue Agency	INPS (National Social Security Agency)	ISTAT (National Institute of Statistics)
TARGET POPULATION	Small and medium size firms from different business sectors	Firms with different economic activities and at least one employee	All the firms and private institutions from sections B to F and G to N of Nace Rev. 2 that pay taxable pay for contributions
SCOPE	It estimates revenue levels for small and medium size firms using data given by taxpayers on the structural and economic characteristics of their activities. It provides a benchmark for programming tax audits, with the aim of reducing tax evasion. (n. 205 SdS in tax year 2013 gave information on 4 million enterprises)	It registers all ID-number that INPS assigns to each firm to track payments of social security contributions that guarantee security protections to employees (for example in case of sickness, maternity, unemployment)	It combines all the social contribution declarations from employers to INPS, for small and medium size firms, with data from ISTAT monthly Large Firms Survey. The aim is measuring trend and levels of gross wages, other labour costs and employment for firms with at least one employee
MAIN DATA CONTENT	Fiscal code ⁽¹⁾ ; Volume and type of business; Personnel costs; Equipment + cleaning material costs; Admin. costs	Fiscal code ⁽¹⁾ ; INPS code ⁽²⁾ ; Name; Legal form Economic activity description	Fiscal code ⁽¹⁾ ; INPS code ⁽²⁾ ; Hourly full time equivalent labour costs; Average gross wage; Total paid hours
FREQUENCY	Annual	Annual	Quarterly

(1) Business ID used by different administrative registers to identify the enterprise as legal unit. - (2) ID used by INPS to identify the enterprise according to its geographic location and economic activity.

Administrative sources linking and integration



Pricing method

COMPONENT PRICING METHOD

Quarterly Hourly Price is composed by Quarterly Hourly Labour cost (85%) plus other Different Costs and Profit Margin (15%)

A solution:

= Quarterly Hourly Labour Cost (OROS)

B solution:

= Quarterly Hourly Labour cost (OROS) + Annual firm costs (SdS)/4 updated with CPI

Results and Conclusions



... IN FUTURE

- B solution will be tested
- for longer series: seasonal time adjustment (rough data)?

- ✓ A solution was adopted
- ✓ 8.000 social security working positions from 7.000 firms
- ✓ 13th and 14th wages gave a seasonal time series (rough data) processed with data check and validation method (disseminated data)
- ✓ final result reflected expected trend (known from interviews to large firms)

NOTE: The authors thanks their colleague Fabio Spagnuolo for IT development of the calculation procedure of the Cleaning SPPI