

# SPPI for Packaging activities (ISIC/NACE 8292)

Beata Cebula
Statistics Poland,
Trade and Services Department

39th Meeting of the Voorburg Group Copenhagen 22<sup>nd</sup>-26<sup>th</sup> September 2025

# Plan of presentation

- Description and characteristics of the industry
- Measurement of SPPI
- Evaluation of measurement

#### Packaging activities (ISIC/NACE 8292)

#### This class includes:

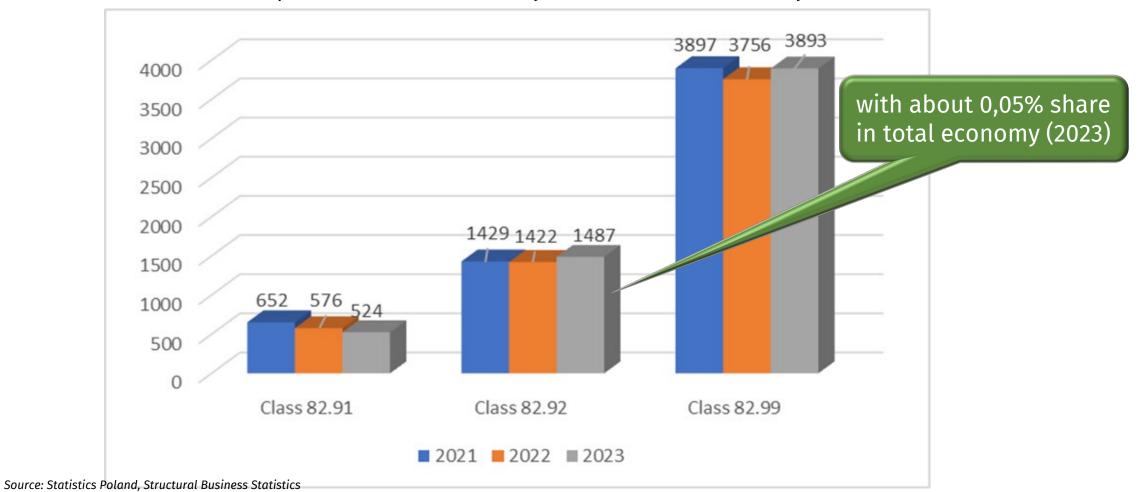
- packaging activities on a fee or contract basis, whether or not these involve an automated process:
  - bottling of liquids,
  - including beverages and food
  - packaging of solids (blister packaging, foil-covered etc.)
  - security packaging of pharmaceutical preparations
  - · labelling, stamping and imprinting
  - parcel-packing and gift-wrapping

#### This class excludes:

- manufacture of soft drinks and production of mineral water
- packaging activities incidental to transport

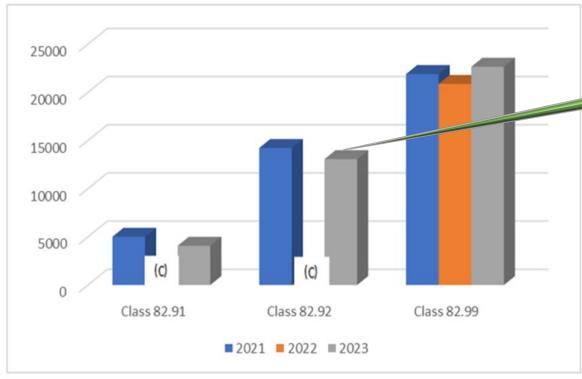


Number of enterprises with the core activity in NACE 82.9 in Poland in years 2021-2023





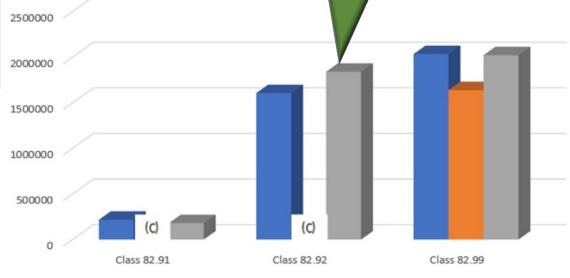
Number of persons employed in NACE 82.9 in Poland in years 2021-2023



with about 0,11% share in total economy (2023)

with about 0.09% share in total economy (2023)

Turnover in NACE 89.2 in Poland in years 2021-2023 (in thousand USD)



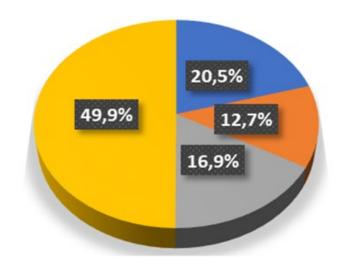
■ 2021 ■ 2022 ■ 2023

(C) - Confidential

Source: Statistics Poland, Structural Business Statistics

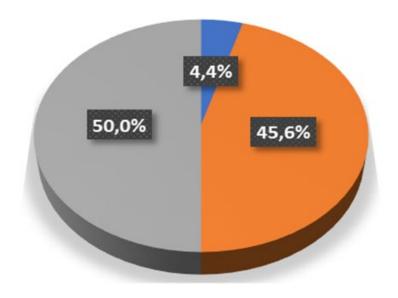


Structure of turnover in NACE 82 for enterprises in Poland in 2023 in %



- Group 82.1 Office administrative and support activities
- Group 82.2 Activities of call centres
- Group 82.3 Organisation of conventions and trade shows
- Group 82.9 Business support service activities n.e.c.

Structure of turnover in NACE 82.9 for enterprises in Poland in 2023 in %



- Class 82.91 Activities of collection agencies and credit bureaus
- Class 82.92 Packaging activities
- Class 82.99 Other business support service activities n.e.c

Source: Statistics Poland, Structural Business Statistics



# Population dominated by entities with the number of persons employed 9 and less in 2023

- NACE 82.91 Activities of collection agencies and credit bureaus (ISIC 8291)
   they constituted over 96.9% of total number of enterprises in the class.
- NACE 82.92 Packaging activities (ISIC 8292) they constituted over 86.3% of total number of enterprises in the class. Simultaneously, those entities generated about 30.6% of turnover and employed 18.0% of persons employed in that class.
- NACE 82.99 Other business support service activities n.e.c. (ISIC 8299) they constituted over 96.5% of total number of enterprises in the class.



#### **Characteristics of packaging activities market**

- Poland lower labour costs, high operational quality, convenient geographical location with good rail and intermodal logistics
- The packaging services industry is developing dynamically.
  - the development of e-commerce,
  - the outsourcing
- Increasing the automation of packaging processes can be observed.
- An increasing trend e.g. also observed in combining:
  - manual packaging
  - o and automation.
- Packaging is often also an element of comprehensive logistics services.
- Packaging services are of particular importance for industries such as food products, pharmaceuticals, cosmetics and household chemicals.
- The price of the packaging service depends on factors such as the type of products being packed, the scope of the service (e.g. whether it includes additional activities such as repackaging, labeling, printing), the type of packaging, the size of the order.
- Important factors shaping the development of the packaging market include:
  - legal regulations,
  - social attitudes.



- O SPPI is one of variables compiled according to European business statistics Regulation (variable producer prices 130 201)
- O Regulation (EU) 2019/2152 of the European Parliament and of the Council on European business statistics, repealing 10 legal acts in the field of business statistics (EBS-Regulation)
- o in years 2014 2015 Statistics Poland conducted pilot study
- SPPI calculated based on data collected within the statistical report C-06 Report on services producer prices via reporting website;
- SPPI compiled and disseminated at the industry level, however, data collected at the product level; Example:

the industry level:

**ISCI/NACE 82.92 Packaging activities** 

the product level

In **the Central Product Classification (CPC)**, the products of Packaging activities are classified under group 854; Packaging services class 8540 Packaging services and subclass 85400 Packaging services. While in **the Statistical Classification of Products by Activity (CPA2015)** the products of Packaging Activities services are classified as 82.92.10 Packaging services.



- o sample frame:
  - established separately for each of services industry covered by the SPPI;
  - ✓ comprises enterprises with the persons employed 10 and more running, with their primary or secondary activity, in given industry;
  - ✓ selected purposively basing on information included in the business register as well as data on turnover collected within the business statistics;
- for the reference year 2025 32 enterprises with their primary and secondary activity in ISIC/NACE 82.92 in a sample;

- 22 modules each dedicated to separate services industry
- o each module includes as many sections as pricing methods possible for given industry
- for ISIC/NACE 82 Office administrative, office support and other business support activities, module no 22 with 5 sections:
  - 1) representative services pricing method;
  - 2) long-term contract pricing method;
  - 3) unit value method;
  - 4) time based methods;
  - 5) percentage fee method.



- for ISIC/NACE 82.91 Activities of collection agencies and credit bureaus module no 22 with 3 sections
- 1) representative services pricing method;
- long-term contract pricing method
- 3) percentage fee method.
- for ISIC/NACE 82.92 Packaging activities module no 22 with 2 sections
- 1) representative services pricing method;
- 2) long-term contract pricing method.

for ISIC/NACE 82.99 Other business support service activities n.e.c. module no 22 with 2 sections

- 1) representative services pricing method;
- 2) long-term contract pricing method.



The main findings identified for measuring the SPPI in *Packaging activities* are presented in the table below:

The CPA code of service	Main pricing methods	Type of main collected price	Factors determining the services price (features specified for particular kind of services (CPA) in questionnaire)
82.92.10	section no 1: direct use of prices of repeated services; section no 2: contract pricing method;	<ul> <li>transaction price</li> <li>average price from few comparable transactions</li> <li>price from the price list</li> </ul>	Kind of the service, applied service provision method, scope of the service/additional information related to the service



The main findings identified for measuring the SPPI in *Packaging activities* are presented in the table below:

The CPA code of service

Factors determining the services price (features specified for particular kind of services (CPA) in questionnaire)

kind of the service, applied service provision method, scope of the service/additional information related to the service

packing food products
packing pharmaceuticals
packing household cleaners
packing toilet preparations and hardware
packing metal products
packing packages and presents
packing coins and banknotes
labelling packages
imprinting packages
other (please specify)

(open question)
units provide such information as:
detailed kind of product packed
(e.g. type of sweets, type of
cosmetics), type and size of
packaging, cost included (e.g. labour
cost, packaging).

manual - 28 automated - 52



#### Packaging activities NACE 82.92

- number of representatives Q1 2025 80 services representatives
  - 60 items the direct use of prices of repeated services
  - 20 items the contract pricing method
- each enterprise with the number of persons employed between 10 and 49 obliged to report at least 1 representative, while enterprises with the number of persons employed 50+ at least 3;



#### The procedure for SPPI estimation:

- 1. The basic indices for each reported services representatives are calculated with the previous quarter as the base reference period.
- 2. For each enterprise the price indices are compiled as a geometrical average of price indices for representatives reported by given responding unit.
- 3. For the class ISIC/NACE level the SPPI is estimated with the Laspeyres price index formula, i.e. weighted average of price indices at enterprise level. As the weights unit data on turnover for given enterprise are used.
- 4. For higher level of ISIC/NACE level, in order to aggregate indices there is also Laspeyres price index formula used. For the group, division or section levels system of weights bases on turnover values for the base year from the structural business statistics is used.



- SPPI is presented with the base of previous reference period = 100, the base year = 100 and the same reference period of previous year = 100.
- O SPPI for **Packaging activities NACE 82.92** (ISIC 8292) calculated as a one stage of estimation procedure, however, not diseminated;
- SPPI for Office administrative, office support and other business support activities NACE 82 at the division level transmitted to Eurostat and published in the Knowledge Databases.
- O SPPI used as deflators in national account statistics and business statistics:
  - ✓ Data on SPPI are used for deflating various nominal values in current prices, for example macroeconomic variables, turnover, revenues from the sale of products, etc. They are widely used in the national accounts statistics and business statistics. Moreover, data on SPPI are used when analyses of inflation are conducted.
  - ✓ SPPI for NACE 82.9 (ISIS 829) is enough as a deflator for **index of services production (**ISP)
  - ✓ SPPI for NACE 82 is enough as a deflator for national account



## **Evaluation of measurement**

#### **Main conclusions**

- 1) Packaging services are an important part of the modern economy, often provided by specialized companies.
- 2) Packaging services are services provided to other businesses (BtoB service).
- Packaging service prices can be surveyed based on direct use of prices of repeated services and contract prices.
- 4) Factors such as the scope of the service, the type of products packaged and the type of packaging are crucial to keep the quality of the surveyed service constants.
- 5) Prices for packaging services are sometimes difficult to separate, as these services frequently constitute one element of a wider logistic process, which also includes other services as e.g. storage, and transportation.

## **Evaluation of measurement**

#### The challenges and issues identified for consideration:

- 1) Within class 8292, the scope of information is being considered for expansion, i.e. including in the description of the service the type of packaged product and the type of packaging.
- 2) Carefulness is recommended to select entities providing "pure" packaging services for the survey.
- 3) Certain problems may arise from entities that do not provide fully repeatable services (e.g. in cases of changes in the packaged product or packaging).
- 4) The population of enterprises with their primary activity classified in ISIC/NACE 82.92 is dominated by the units with the number of persons employed 9 and less. Their inclusion in the survey should be considered, but this would require a change in the SPPI survey methodology.





## Thank you for your time and attention

Statistics Poland, Trade and Services Department