

Electronic Data Collection Experiences in Finnish PPI

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Content

What are the data used for?

From whom are data collected?

Collection of PPI price data in Statistics Finland

Data collection process in PPI

Data collection

Web questionnaire

Goals with the new PPI web collection system

How to reach the goals?

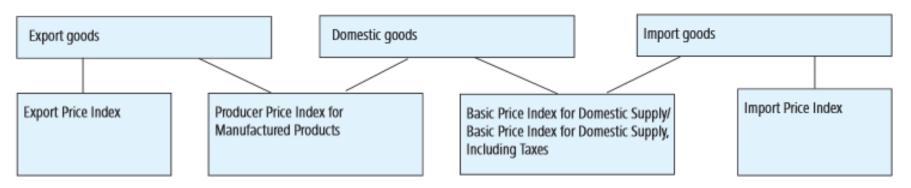
The web questionnaire, Xcola

Future actions



What are the data used for?

Inclusion of domestic, export and import goods in different indices





From whom are data collected?

- The data collection covers enterprises that have production, imports or exports in the main groups A to F of the CPA2008 product classification
- The Statistics Act (280/2004) obliges Statistics Finland to treat the collected data as confidential. In the published statistics the data are reported at a level from which the data on an individual enterprise cannot be identified



Collection of PPI price data in Statistics Finland 1/2

- The price data for the producer price indices (including export and import prices) are collected monthly from the enterprises, a few exceptions
 - Totally ~ 2500 prices are collected monthly from about 2000 data suppliers.
 - 82% of the prices are collected via Internet query
 - non-response 2-3%, 50-100 prices
- The collection is also performed by the PPI team



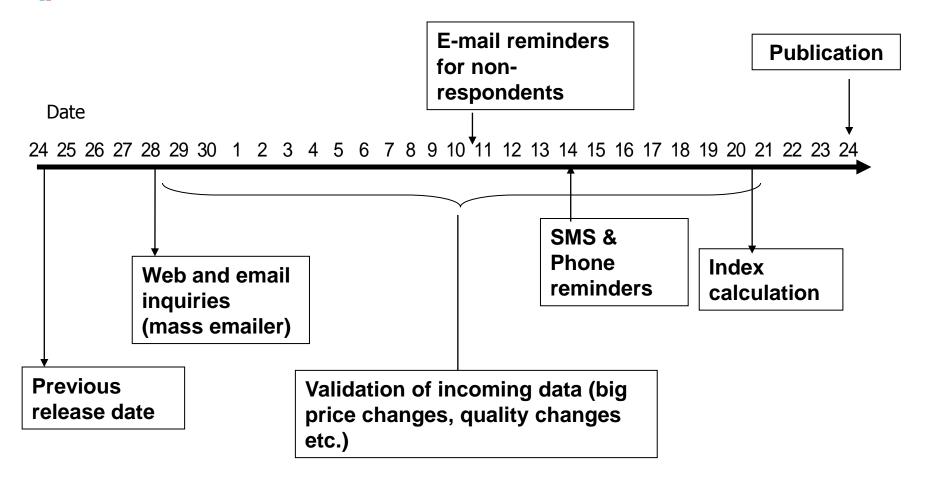
Collection of PPI price data in Statistics Finland 2/2

Number of data suppliers, CPA product categories and price data for producer price indices

Index	No. of data suppliers	No. of CPA product categories	No. of price data
Producer Price Index for			
Manufactured Products	960	600	2.700
Export Price Index	440	350	1.000
Import Price Index	910	600	2.400
Basic Price Index for			
Domestic Supply/Basic Price			
Index for Domestic Supply,			
Including Taxes	1.580	850	4.150



Data collection process in PPI





Data collection; important things to consider 1/2

- It is important that collecting prices and processing the data is done well in order to have a good quality of price information and to calculate reliable indices
- Changes in the price index must not result from changes in quality – the index should represent pure price changes only without quality change
- To be able to measure the development of prices and to quality adjust if necessary, the staff of the statistical office should know about the reasons of price changes



Data collection; important things to consider 2/2

Price change (versus quality change)

$$\Delta p = \Delta pp + \Delta pq$$

Where

- Δp = observed/reported price change between two periods
- Δpp = pure price change between two periods with comparable price-determining characteristics
- Δpq = quality change, price change caused by a quality change between two periods



Data collection; selecting a method 1/2

When deciding on the ways to collect data three main aspects have to be considered:

- Security. Because sales prices are often sensitive for reasons of competition, it is important to find a genuinely secure way to transmit data from the reporting unit to the statistical office
- <u>Cost</u>. Because prices are generally collected each and every month the collection should be not too cost-intensive, neither from the perspective of the statistical office nor the reporting unit
- Response burden for reporting units delivering price information over a long period of time: this should be kept as low as reasonably possible



Data collection; selecting a method 2/2

- Web questionnaire
- Excel sheet
- Postal questionnaire
- Phone collection
- Internet collection (stock prices, list prices?)
- Register/administrative data (i.e. customs)



Web questionnaire

- Online reports may contribute to a reduction of costs and perceived burden for the reporting unit as well as for the statistical office
 - When the reporting units provide their prices online, those may be transferred automatically for processing (without further data entry)
- One problem that has to be solved is to ensure the confidentiality of data that are sent via internet
- When using an online method the reporting units are normally reminded by e-mail when to submit the prices
- A significant advantage of using online questionnaires is the possibility to integrate price and quality checks in the questionnaire



Goals with the new PPI web collection system

- Good usability
- Collect more (and more relevant) information
- Information with better quality
- Efficiency
 - Reduce the time used in the whole data collecting process - answering the query, validating the price data etc.
 - Automate the validation process and the treatment of the observations



How to reach the goals?

- Gather more information
 - The most important new variable: the previous price of the substitute product
- Guide the user to give relevant information
 - Less validation phone calls or emails, the data collected has a higher quality than before
 - Less manual editing, the editing is based on an information with higher quality
- Automation of the validation process
 - Combine variables and make new derived variables from the raw data
 - Include the previous price of the substitute product into the index calculation process



The new web questionnaire, XCola



The home page



Suomeksi | På svenska | In English | Logout

Producer price indices

Home

Enterprise data

Price collection

Filling-in instructions

Statistics Finland - Producer Price Index - Front page

The price inquiry on producer price indices for manufactured products collects data on products and their prices from enterprises. The data inquired pertain to enterprises' import, export or domestic market prices. Five separately calculated indices that measure the price development of products from enterprises' viewpoint are produced monthly for the producer price indices. These indices are:

- Producer Price Index for Manufactured Products
- · Price Index
- · Import Price Index
- · Basic Price Index For Domestic Supply
- . Basic Price Index for Domestic Supply, Including Taxes (former Wholesale Price Index)

The data supply obligation of enterprises is based on the Finnish Statistics Act (280/2004, amended 361/2013) All the price data collected for the producer price indices from enterprises and the enterprises which supply the data are confidential. The data are released as confidential so the data of a single enterprise cannot be deduced on the basis of the results.

Further information on the monthly data collection and producer price indices is available from:

- Anni Huuskonen 029 551 2992
- Mervi Nyfors 029 551 3480
- Merja Pokela 029 551 3283
- Anna-Riikka Pitkänen 029 551 3466

Service email address

· thi.tilastokeskus@tilastokeskus.fi

Further information about the inquiry

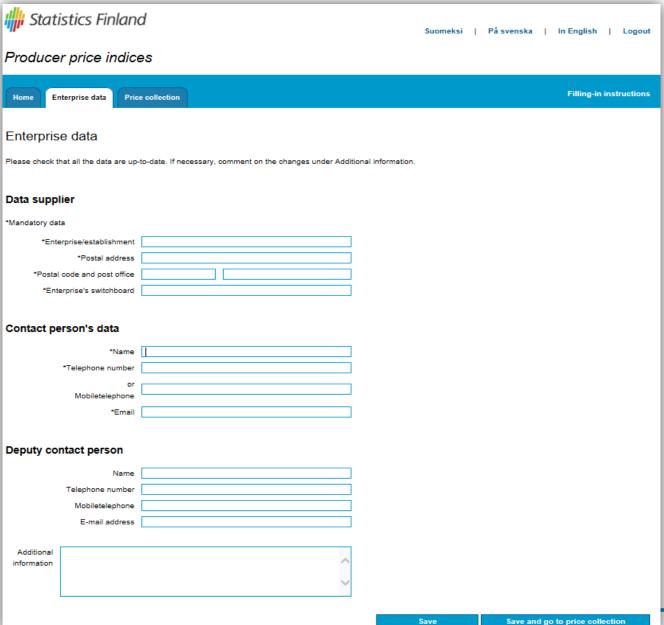
Home page of Producer price indices
Point figures for Producer price indices in the StatFin service
Regulation (EC) No 1158/2005 of the European Parliament and of the Council
Council Regulation (EC) No 1165/1998

Go to enterprise data

Go to price collection

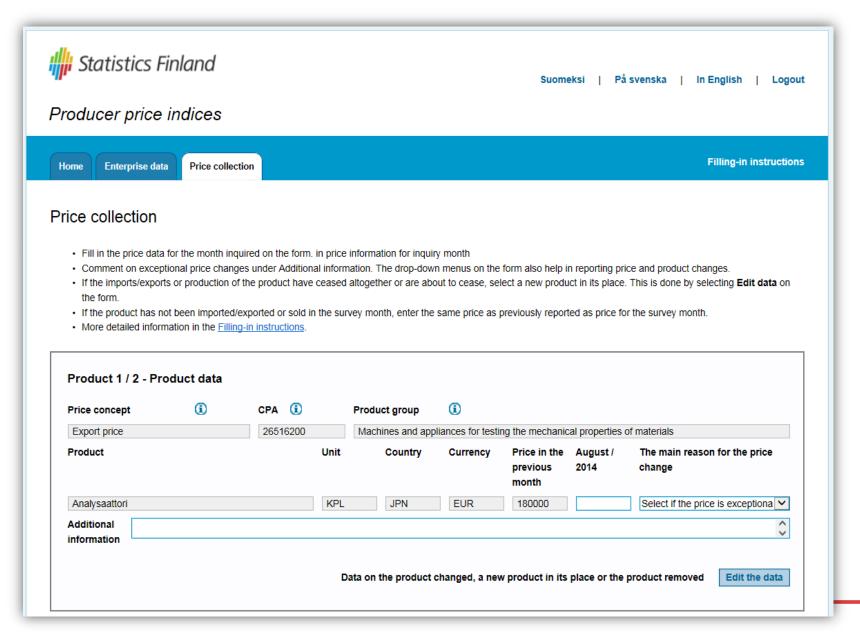


Enterprise's information



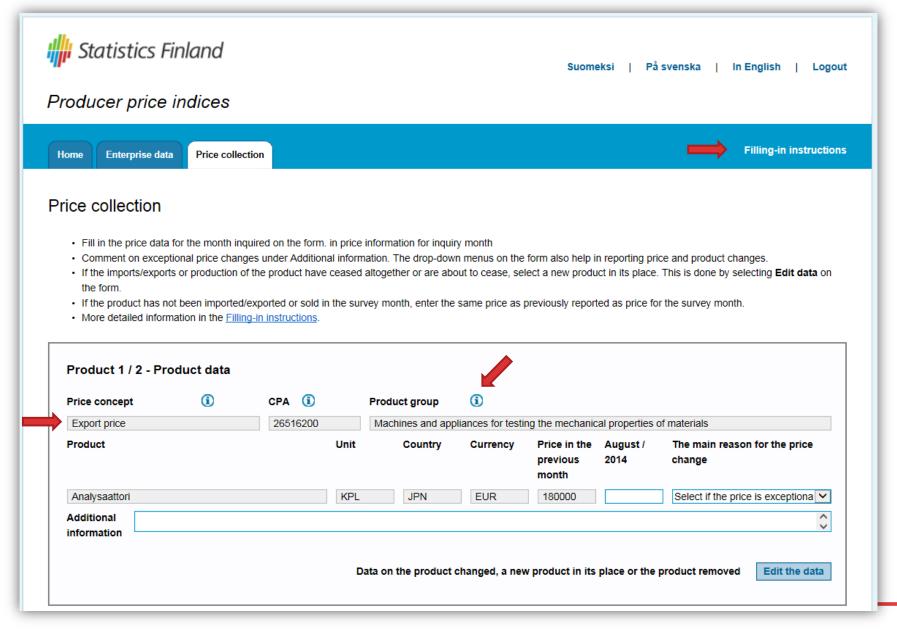


The price collection page 1/6



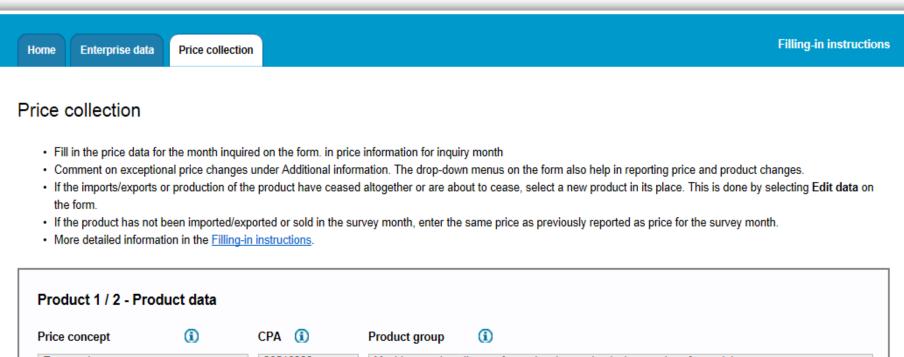


The price collection page 2/6



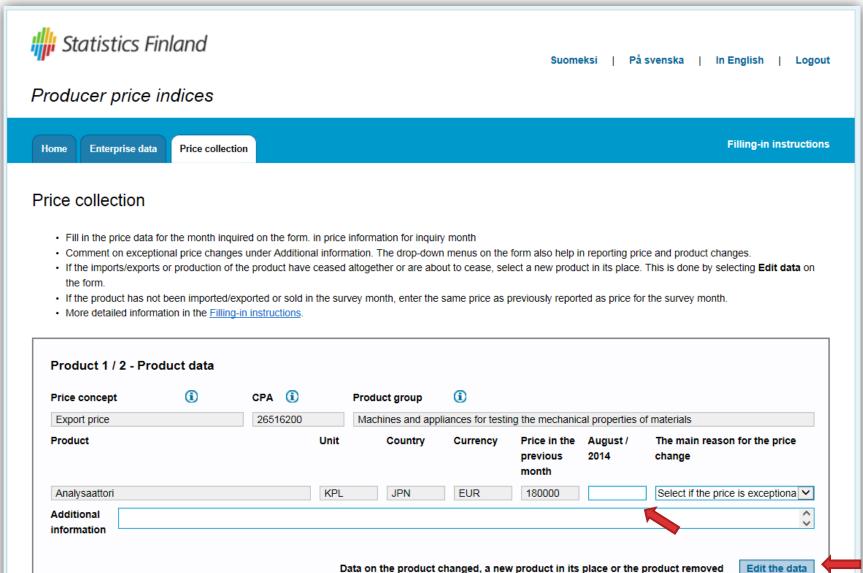


The price collection page 3/6



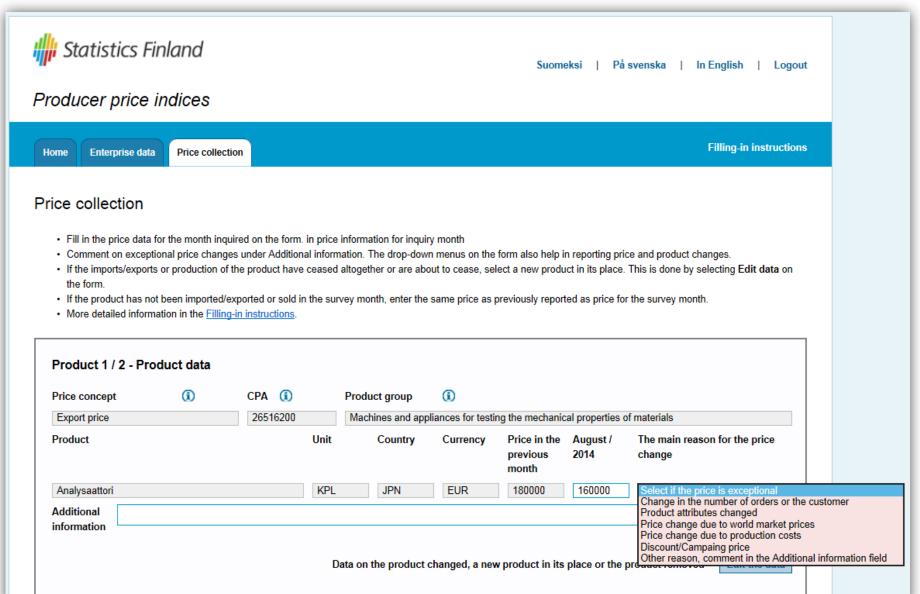


Statistics Finland The price collection page 4/6



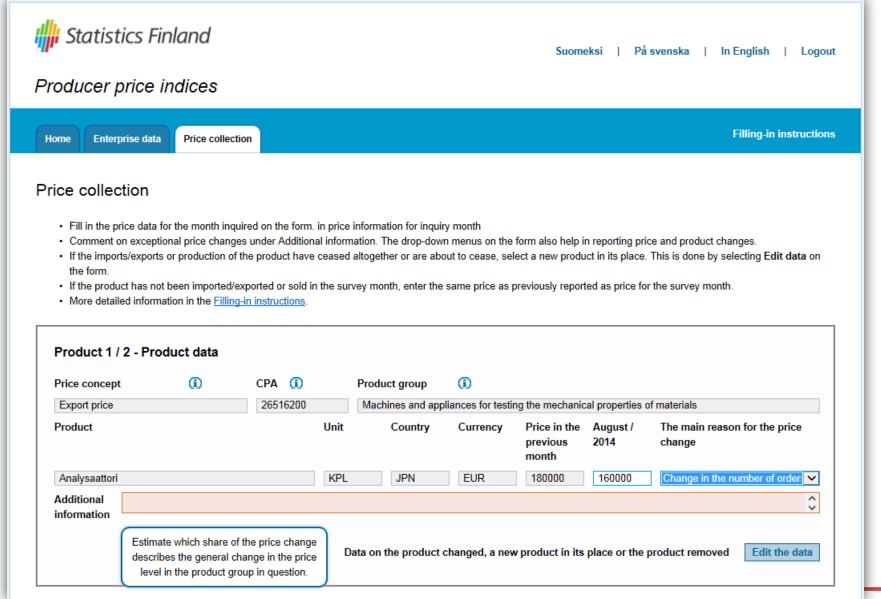


The price collection page 5/6



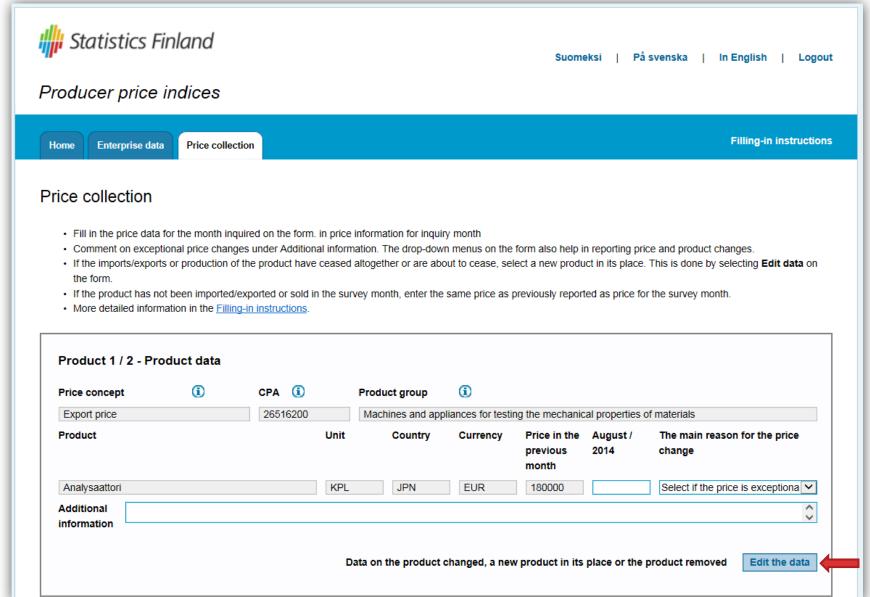


The price collection page 6/6



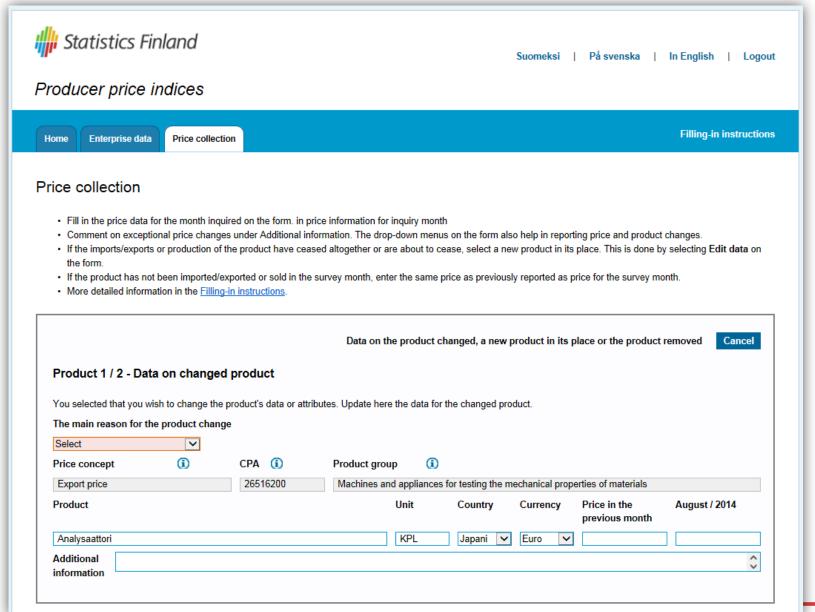


Statistics Finland The price collection page, Edit data 1/5



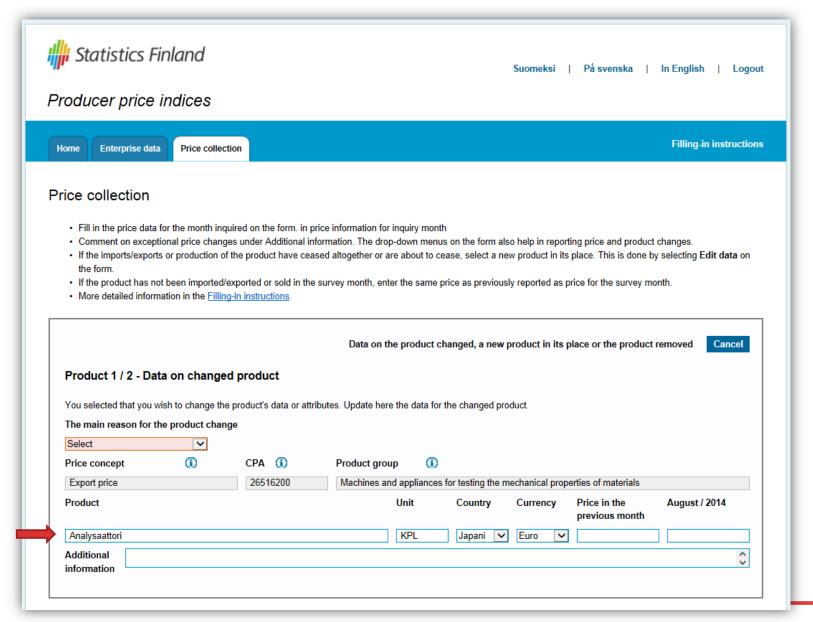


Statistics Finland The price collection page, Edit data 2/5



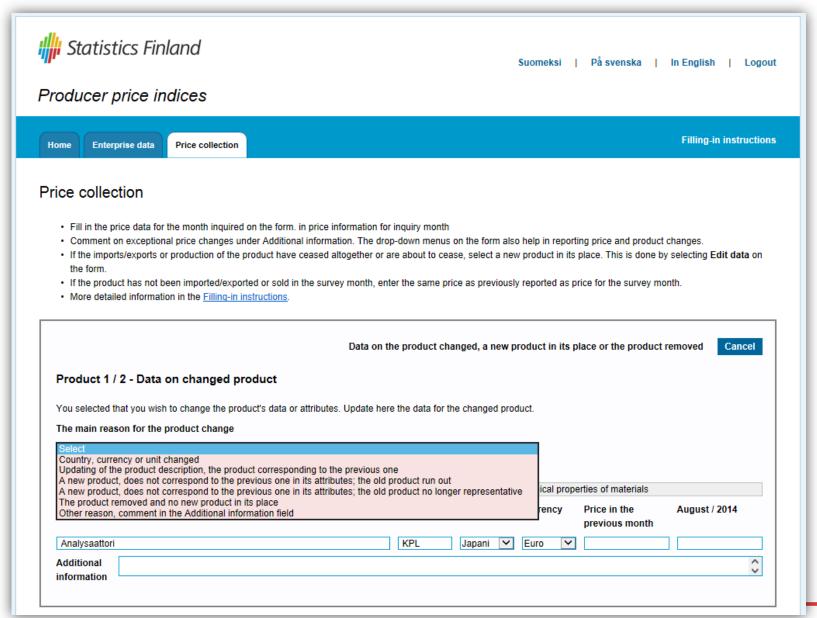


Statistics Finland The price collection page, Edit data 3/5



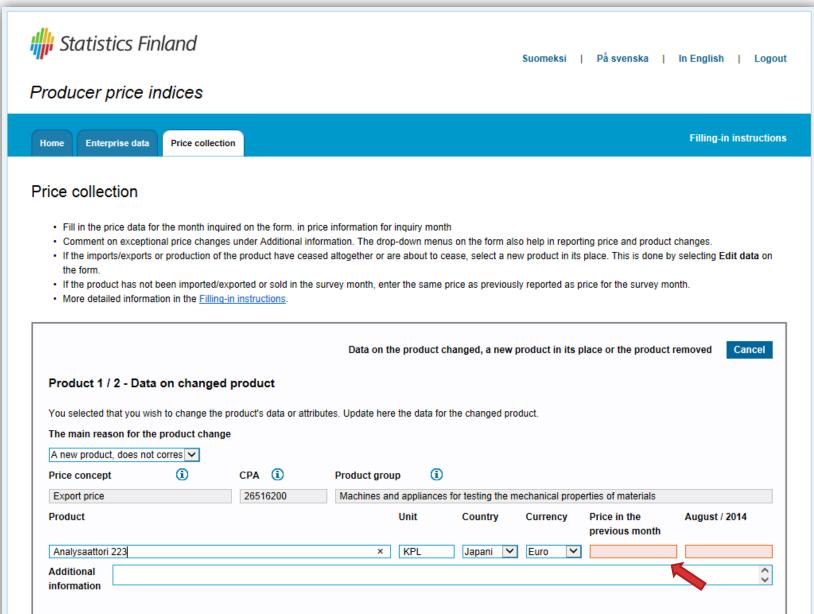


Statistics Finland The price collection page, Edit data 4/5



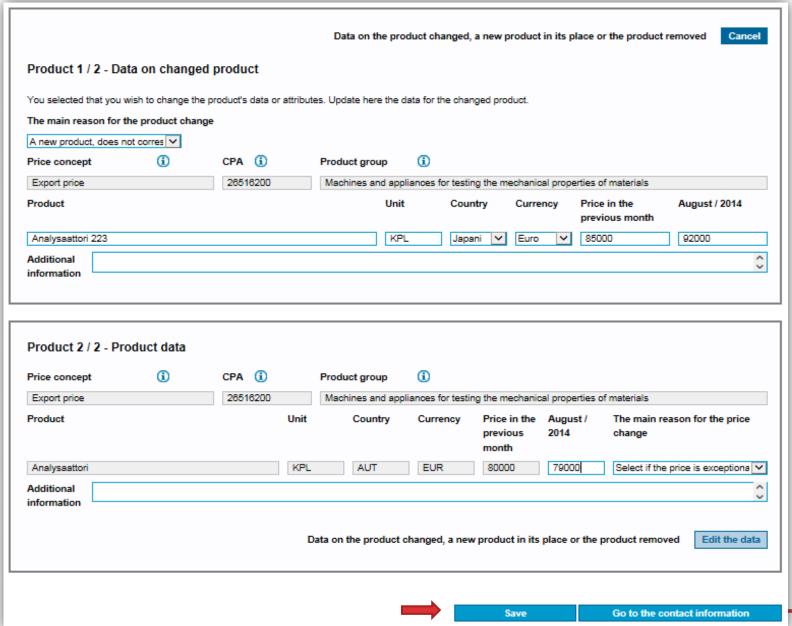


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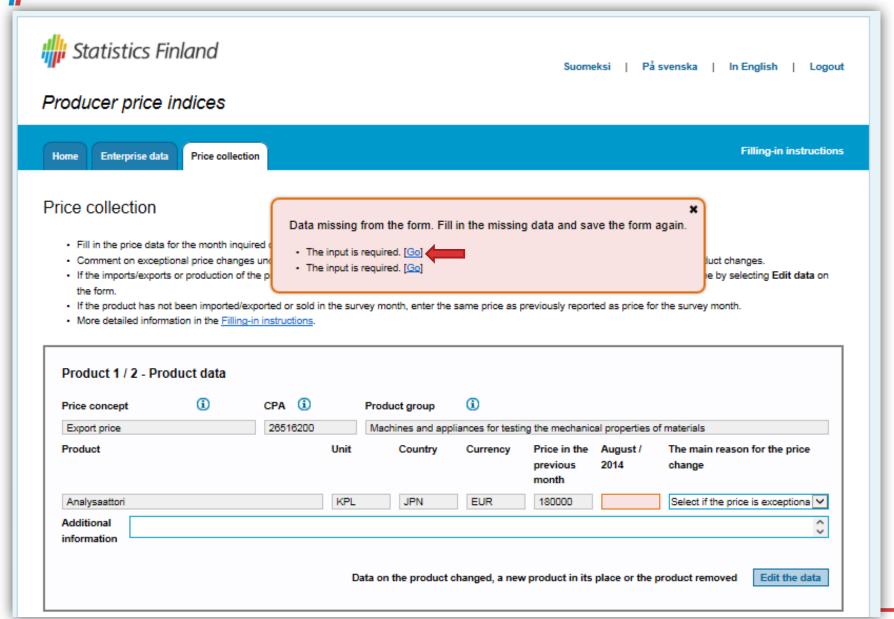


Statistics Finland The price collection page, Save data 1/4



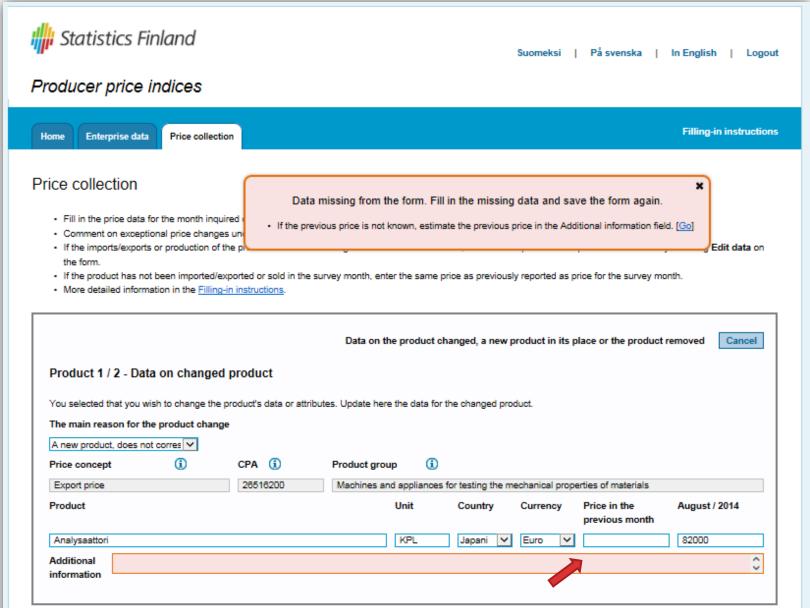


Statistics Finland The price collection page, Save data 2/4



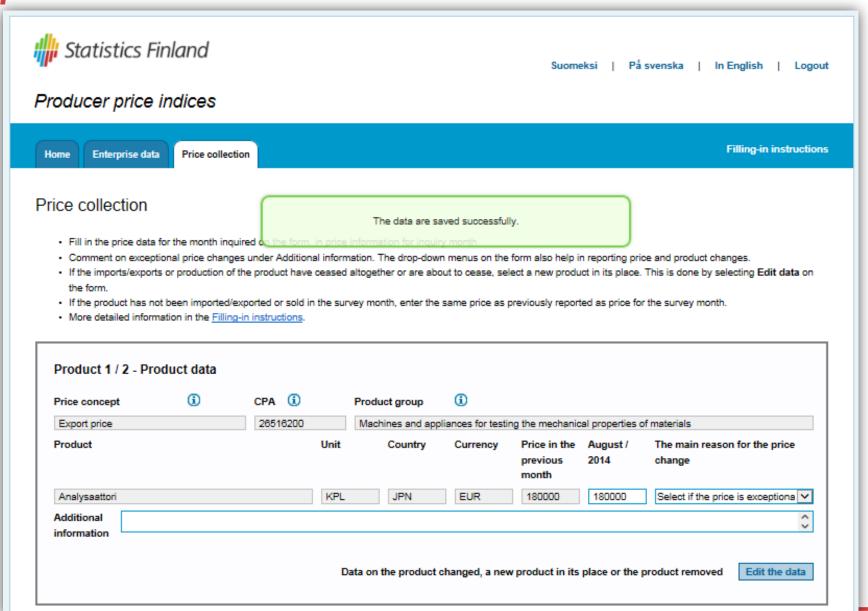


Statistics Finland The price collection page, Save data 3/4





Statistics Finland The price collection page, Save data 4/4





Future actions

- The new price collection system is now in use in PPI (including also Export and Import prices) and in Building cost index
- Next: Cost and Agricultural indices and SPPI



Thank you!

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