TALL SOM FORTELLER

Generic Questionnaire for SPPIs

EXPERIENCES USING A GENERIC QUESTIONNAIRE WITH DYNAMIC ELEMENTS IN SPPI

Statistisk sentralbyrå
Statistics Norway

Agenda

Objective

Motivation for a new questionnaire

Questionnaires: Recruitment, price collection, and resampling

Experiences

Further development

Statistisk sentralbyrå
Statistics Norway

Objective

- Create a questionnaire that:
  - Can be used on multiple industries
  - Easily changeable
  - That is relevant for each industry
    - Different price determining factors
    - Price methods
    - Unit of measurement

Statistisk sentralbyrå
Statistics Norway

Why did we create a new questionnaire

- Old solution, one questionnaire for each industry
  - Difficult to update
  - Time consuming
  - Outdated?
- A lot of similarities, but not harmonized
- To get data on same format to create a better production system
- We need a flexible and dynamic tool to meet new regulation

Statistisk sentralbyrå
Statistics Norway

Main features

- Questionnaire with dynamic elements
- Some text is static but adapted to handle dynamic elements
- Different price methods available
- Data on same format between industries

Part 1 - Recruitment: Identify service groups and weights

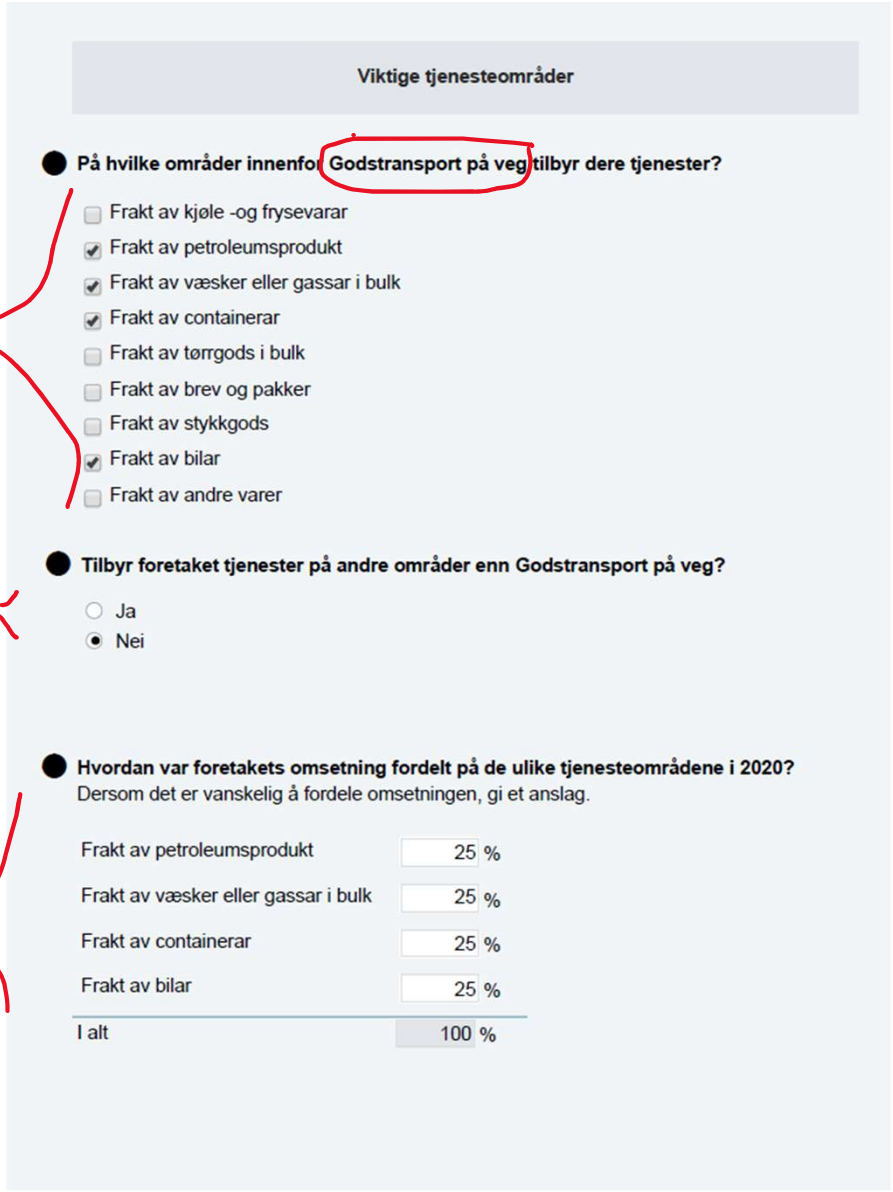
- Identify important service groups
- Identify secondary activity
- Collect elementary index weights – Share of turnover per service group

Statistisk sentralbyrå
Statistics Norway

Service groups based on CPA-classification

Secondary activity

Share of turnover



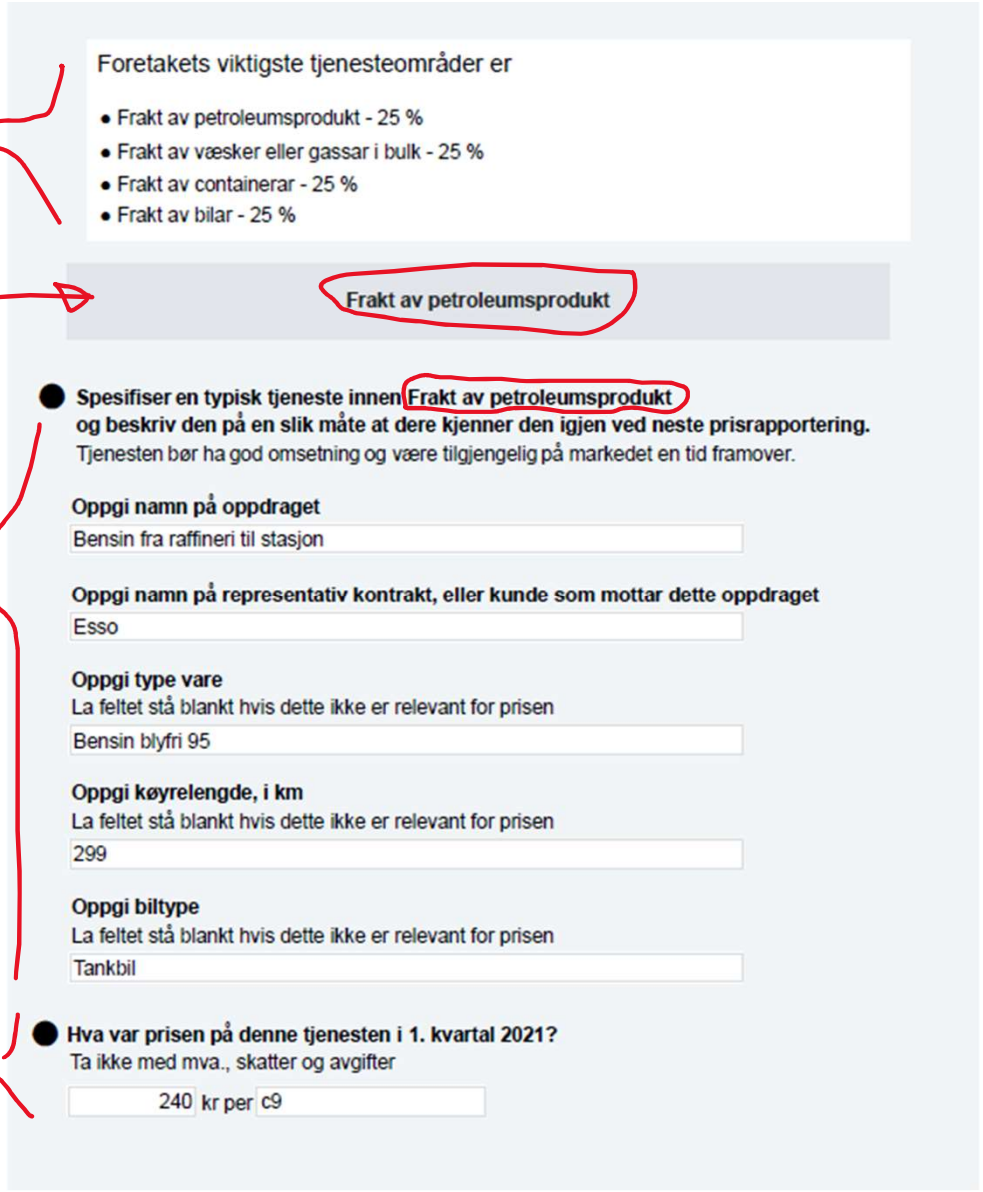
Statistisk sentralbyrå
Statistics Norway

Categories with significant turnover is included in next part

Specify service within each category

Specify service by price determining factors

Ask for price on specified service



Statistisk sentralbyrå
Statistics Norway

Different price method:
Unit price/Hourly rates.

With or without price determining factors.

Ask for invoiced amount and hours used

Statistisk sentralbyrå
Statistics Norway

Part 2 – Reporting: Price collection and service resampling

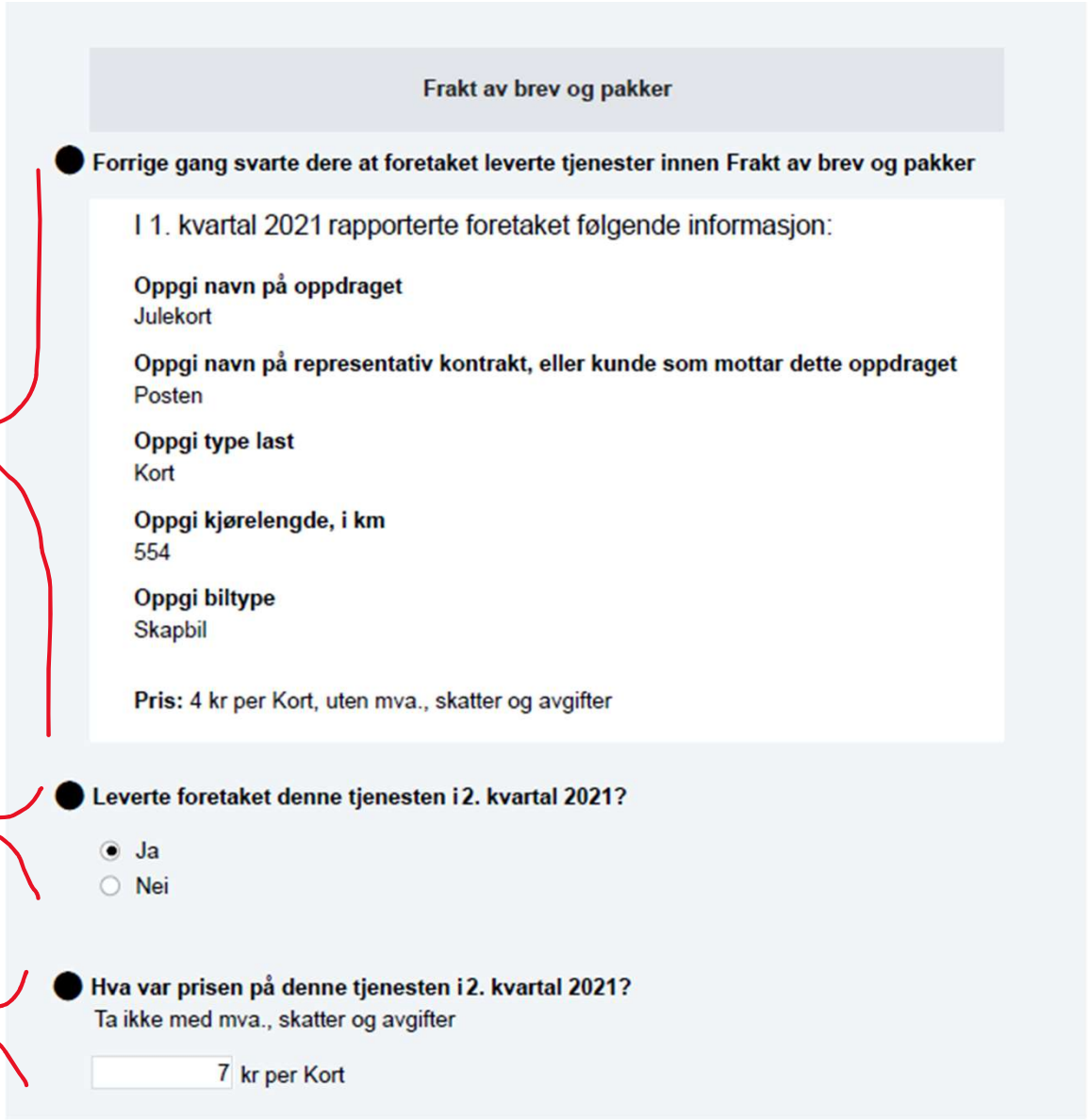
- Give information if the service have been sold in period t
- Report price on specified service
- If not sold:
  - Temporarily unavailable
  - Permanently unavailable - Replace service with new specification

Statistisk sentralbyrå
Statistics Norway

Report of specified service when recruited

Service sold in period?

Report price

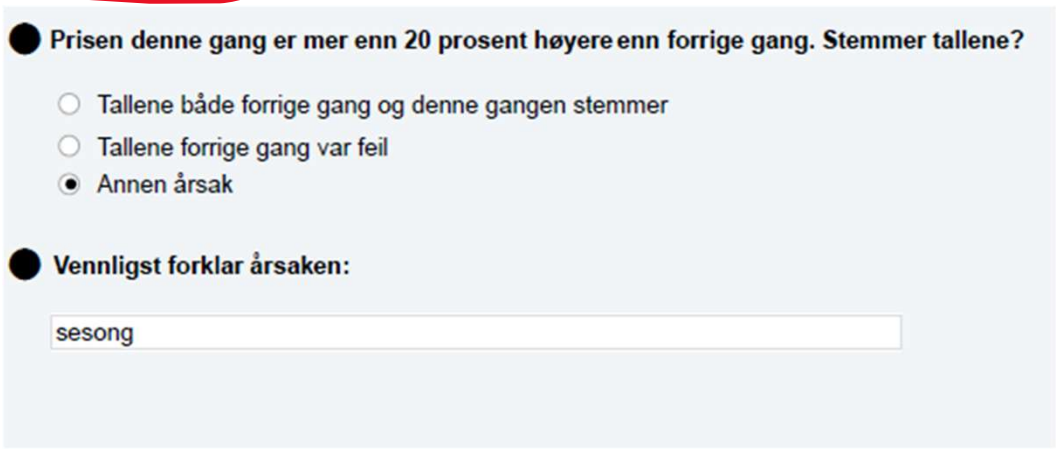


Statistisk sentralbyrå
Statistics Norway

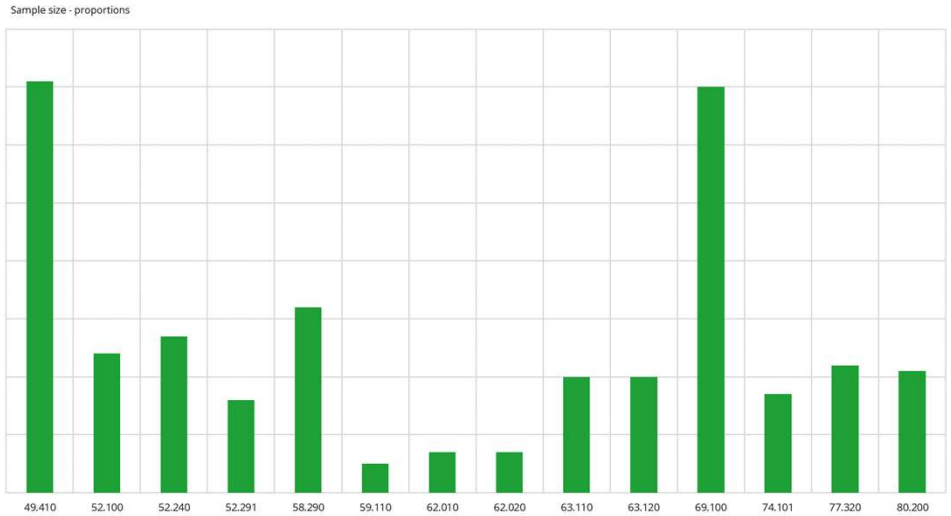
Controls

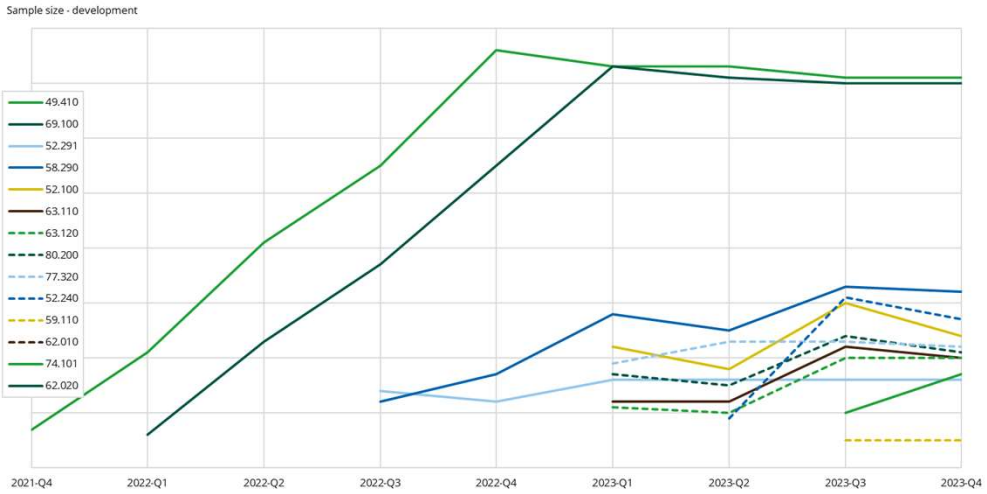
Temporarily/permanent unavailable

Price control - +/-20 % price change



Statistisk sentralbyrå
Statistics Norway





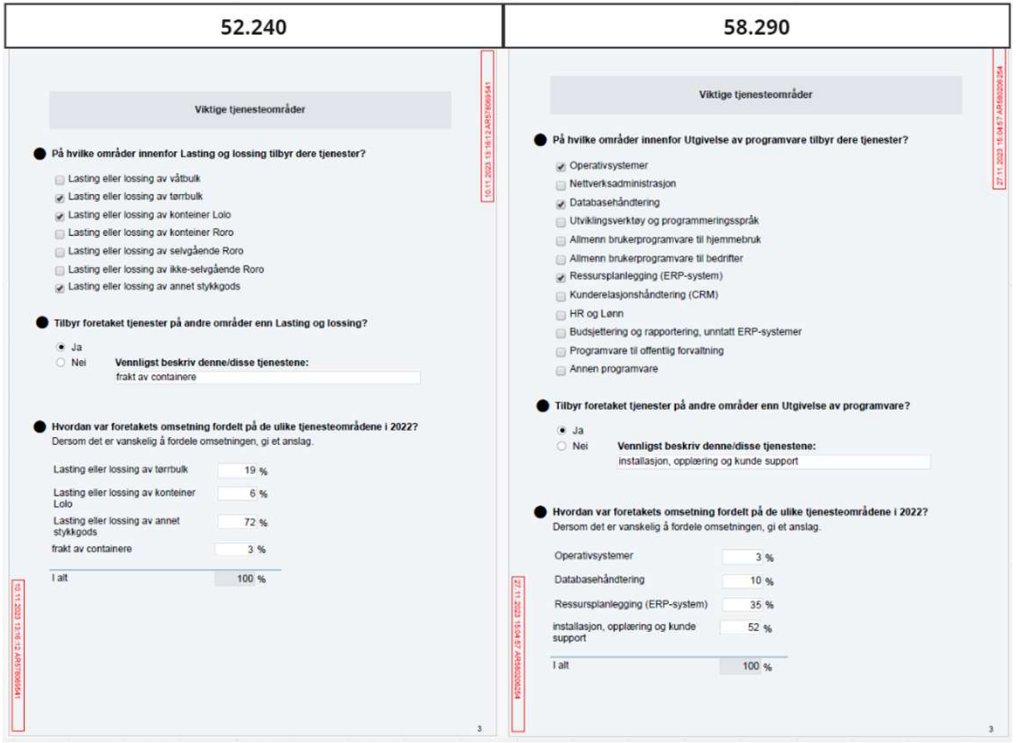
Overview

- 14 different industries
  - Ranging from transportation and storage to security and investigation services
- 1 questionnaire-solution
  - 14 different questionnaires
  - 3 different price methods
- Gradually increasing sample sizes
  - Longest series: 2 years
  - Shortest series 1 quarter

Statistisk sentralbyrå
Statistics Norway

Positive experiences 1

- Easily modifiable questionnaires for different industries
- Large degree of autonomy
  - Able to make and implement new questionnaires when demand rises
  - We do not require assistance from other departments in Statistics Norway



Statistisk sentralbyrå
Statistics Norway

Positive experiences 2

- Highly specified services - easy to compare services over time
  - 6 pricing factors (characteristics)
  - Several available pricing models
- Similar data structure
  - Structure of service catalog is similar for all industries
  - One common system for preparation and dispatch of questionnaires
  - Code for calculating indices is reusable for all industries

Statistisk sentralbyrå
Statistics Norway

Challenges

- Highly specified services
  - Difficult for the firms to rapport on the same service over time
- General formulations/Hard coded text
  - Some misinterpretations of our questions
- One (predetermined) price model for each service
  - Limiting to the firms and can lead to some supervising from SSB

Improvements

- Several services within each service category
  - Currently each firm can only rapport one price for each service category
  - Would enable a better solution for hourly rates
- Reporting of revenue in its own questionnaire
  - We have no good method for updating revenue-shares between service categories
  - Enables more frequent updates of elementary weights

TALL
SOM FORTELLER

Thank you!

Statistisk sentralbyrå
Statistics Norway