

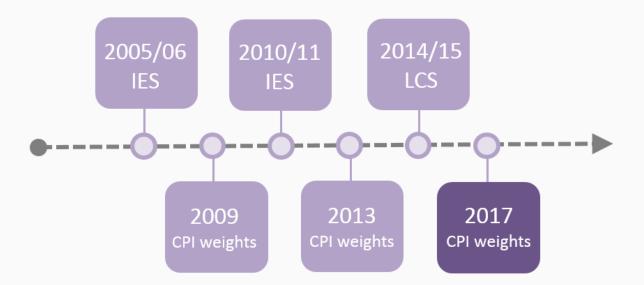


- Each product in CPI has a weight to reflect relative importance
- Weights reflect total spending patterns of households
- International practice: Reweight at least every 5 years for relevance to changing consumption or production trends
- Last CPI reweighting: January 2013





Weights and basket based on household expenditure survey (Income and Expenditure or Living Conditions)







#### Adjustments needed to expenditure data:



## Frequent purchases and by different household members

Food; personal care; restaurants etc



#### 'Sin' purchases

Alcoholic beverages & tobacco; gambling



#### Methodology

Net weight (insurance, gambling) Owner occupied housing



#### Response

Low response rate especially in affluent areas



#### Data sources for adjustments



#### **Stats SA sources**

National Accounts – household expenditure account Retail sector Large sample survey – product level covering formal sector Monthly Retail sales survey – per type of retailer



#### **External sources**

Retailer sales data – detailed summaries per product type

Excise tax data – from SARS

Industry bodies – turnover and quantity data

Regulatory agencies - SARB, FSB, CMS



#### **Price Updating**

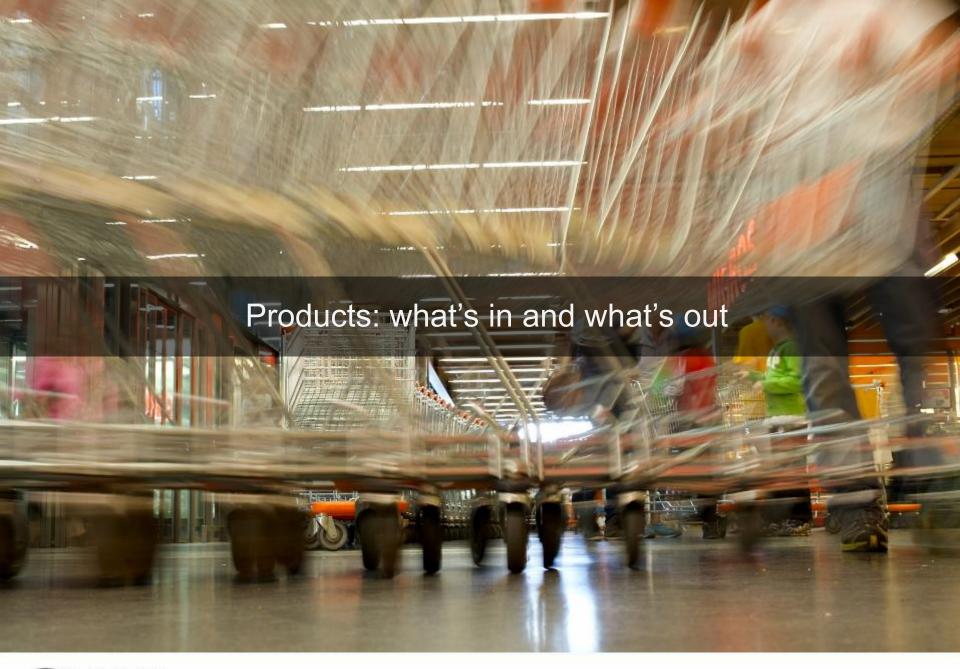
Use inflation rates from May 2015 to December 2016



#### Method to calculate weights and determine basket

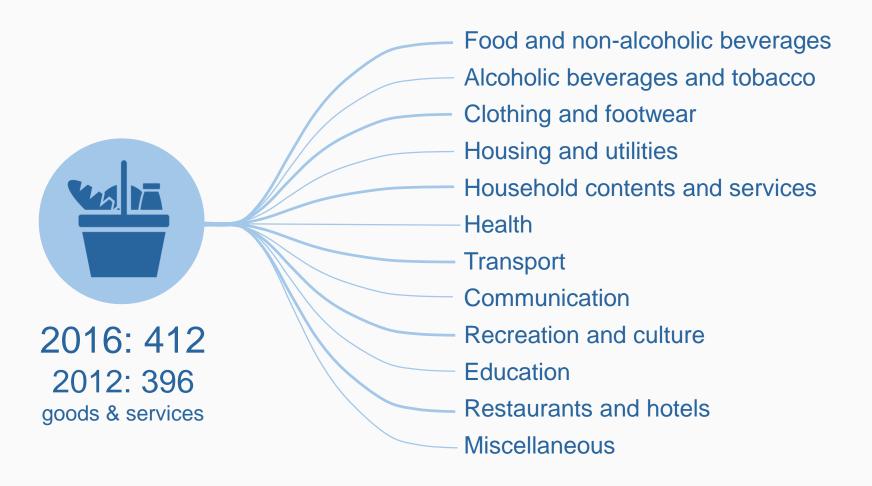
- Calculate expenditure value for each product
- Select cumulative 80% value in each product category
- Minimum 0,01% of total expenditure
- Value for non-selected redistributed to those selected
- Final expenditure values are price updated
- All values then converted to percentage







#### COICOP categories









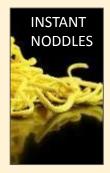
#### What's new?

# FOOD











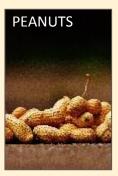












#### What's new?

## **HOUSEHOLD**











What's new?

## **TRANSPORT**









#### What's new?











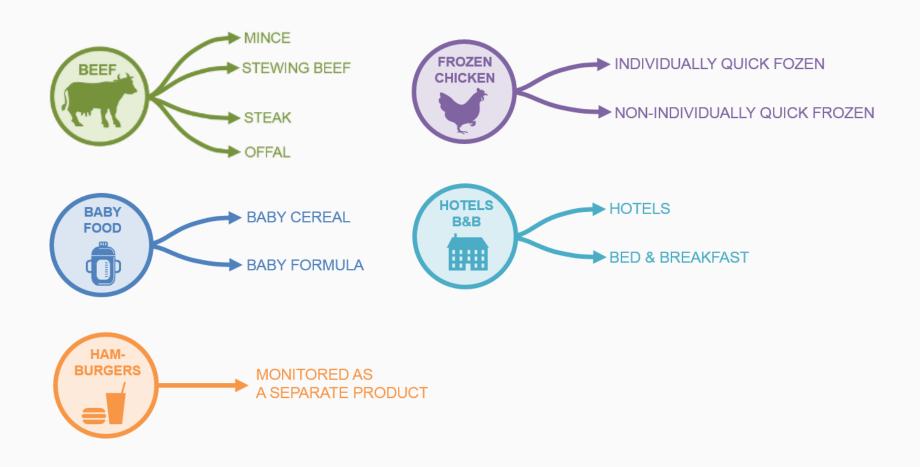


#### What's out?





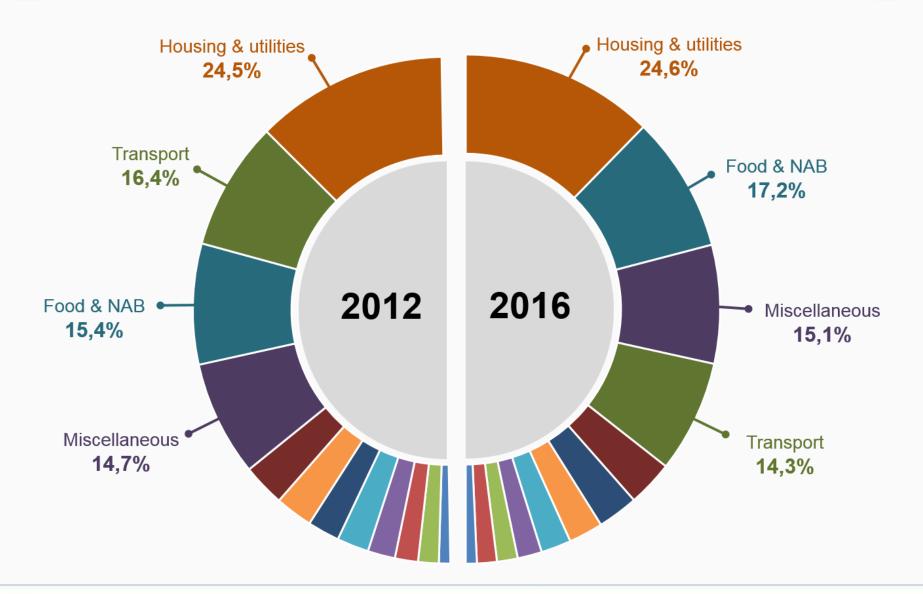
#### Changes to groupings



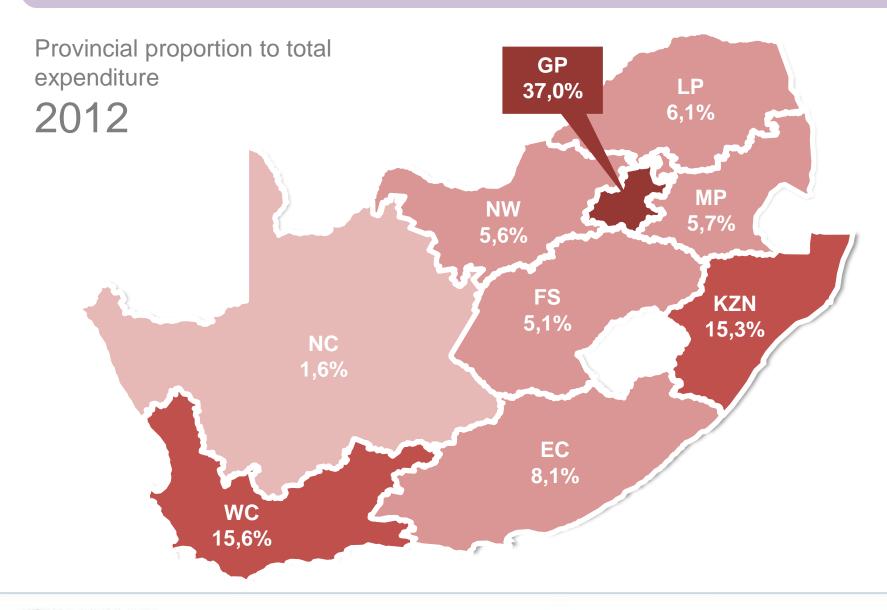




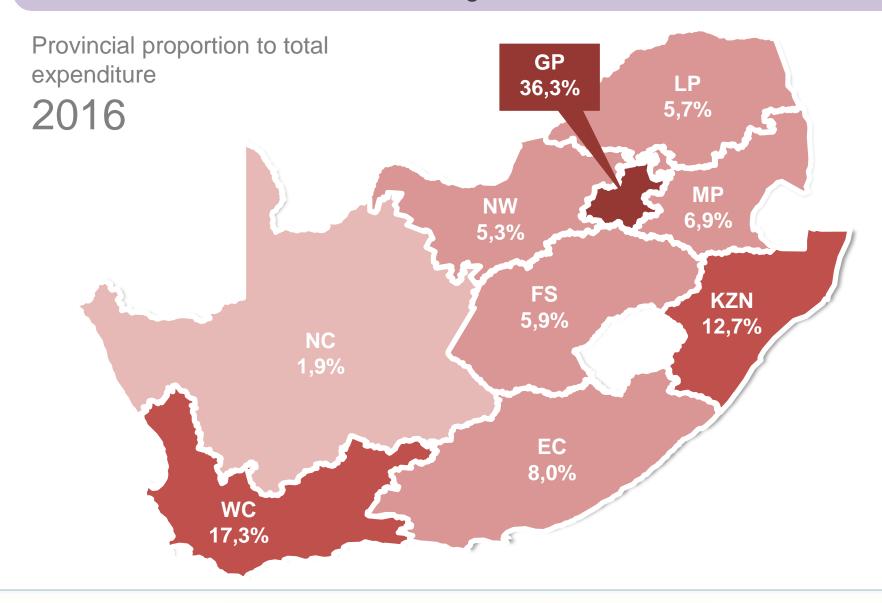




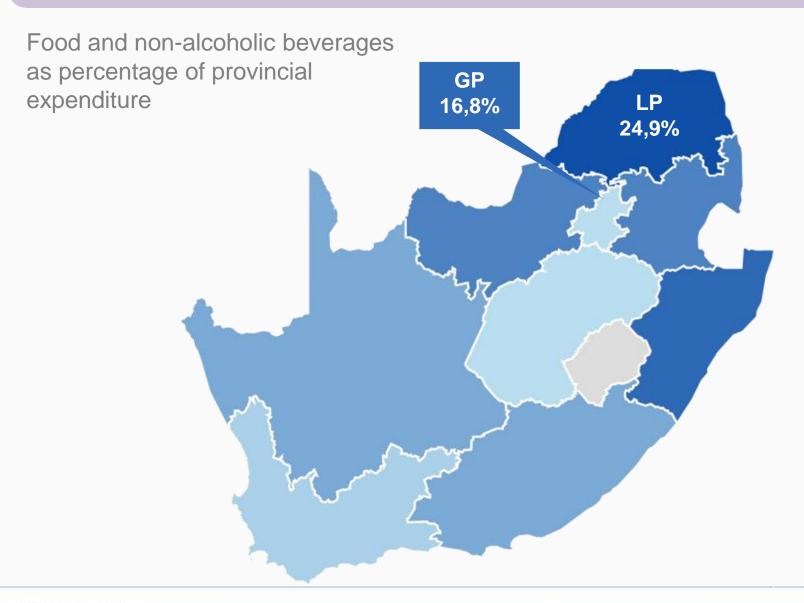




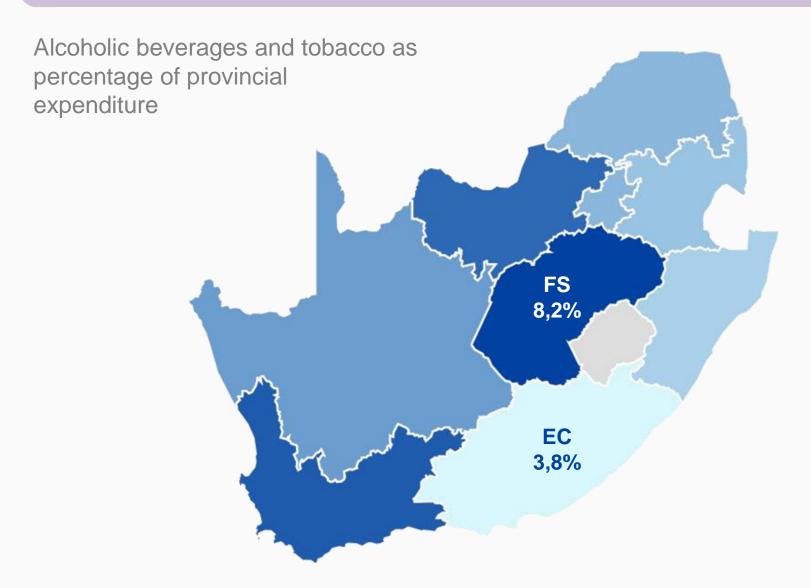




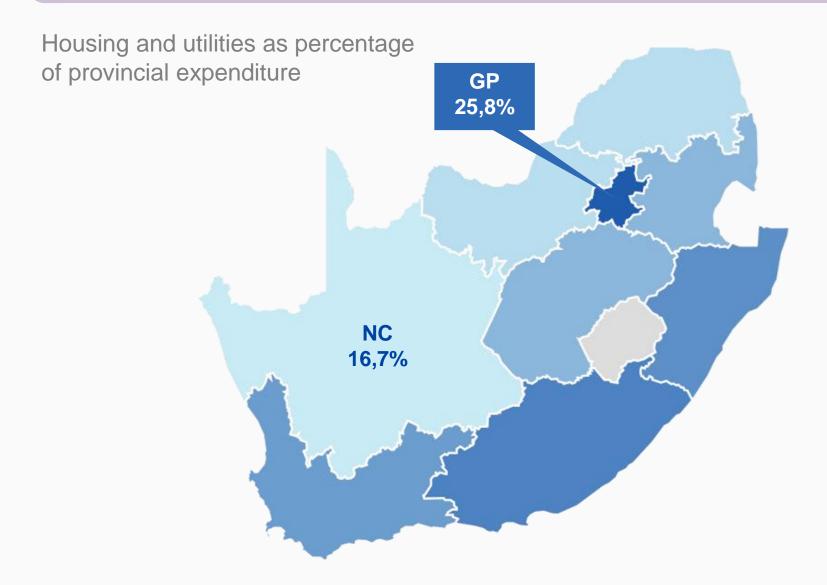




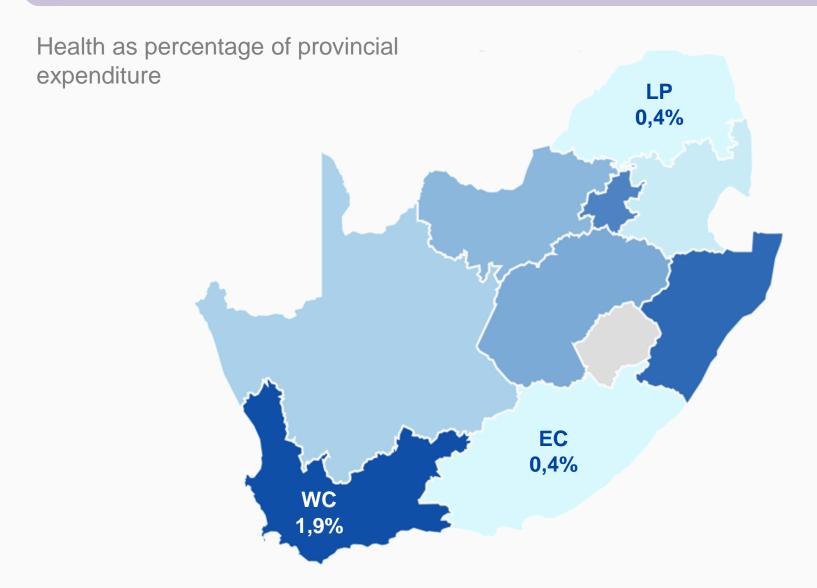




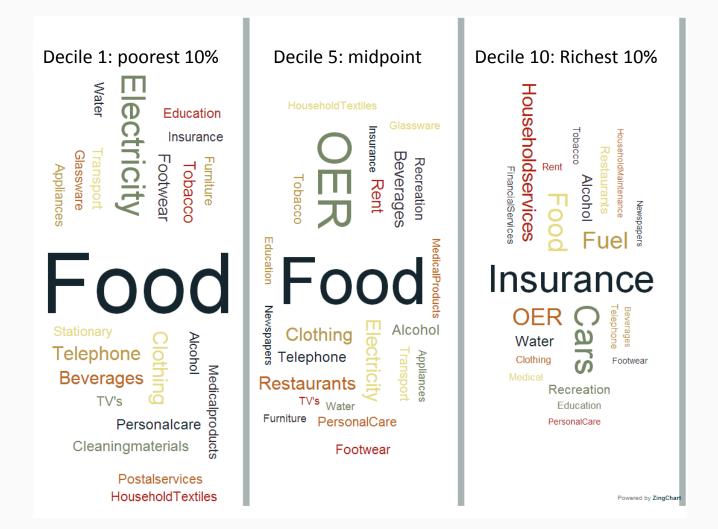






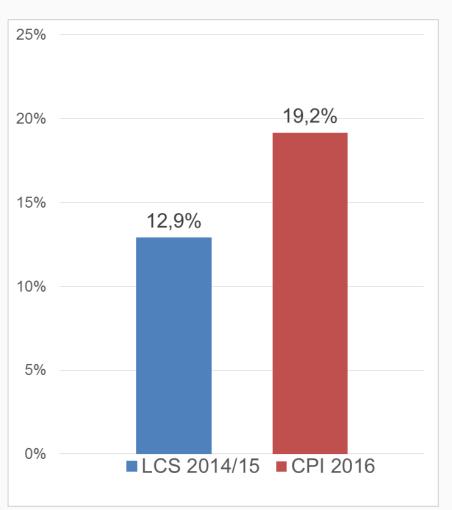








#### Food and non-alcoholic beverages – total country



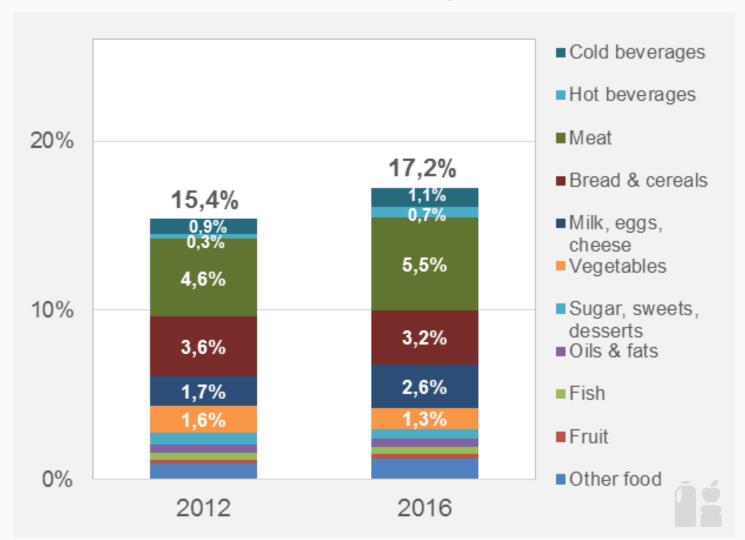
#### **Adjustments:**

- Whole category:
   Retail LSS and monthly retail sales; informal and micro from National Accounts.
- Second and third level (Food

   Bread and cereals):
- Fourth level (Bread, biscuits):
   LCS or Retail LSS
- Fifth level (Brown/white bread): LCS or Retailer sales data

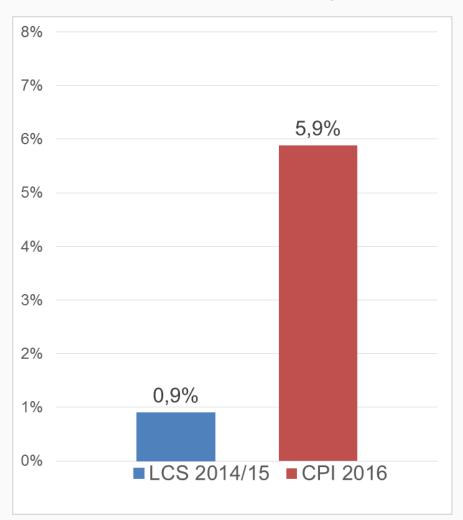


#### Food and non-alcoholic beverages - headline





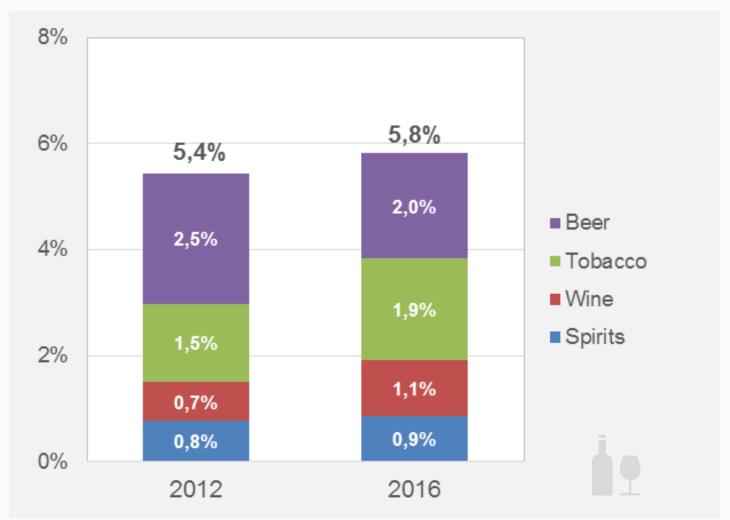
#### Alcoholic beverages and tobacco - total country





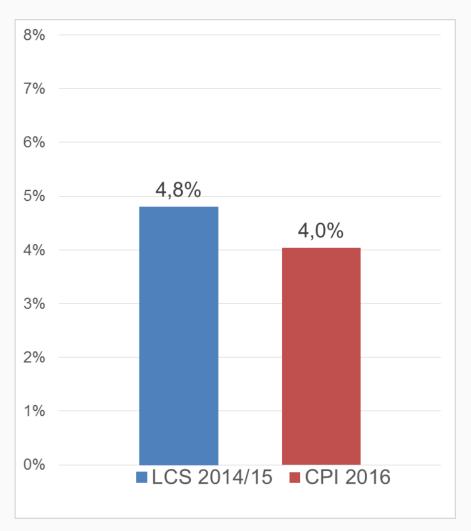


#### Alcoholic beverages and tobacco - headline





#### Clothing and footwear – total country

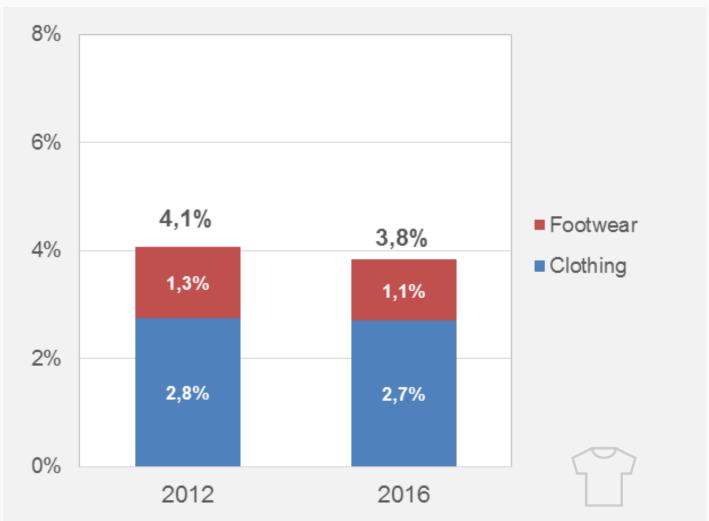


No adjustments made



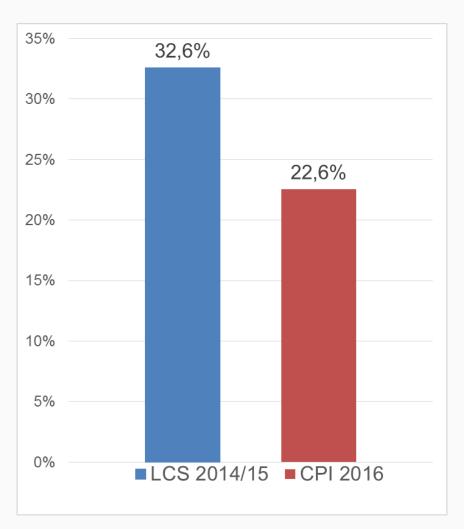


#### Clothing and footwear - headline





#### Housing and utilities – total country



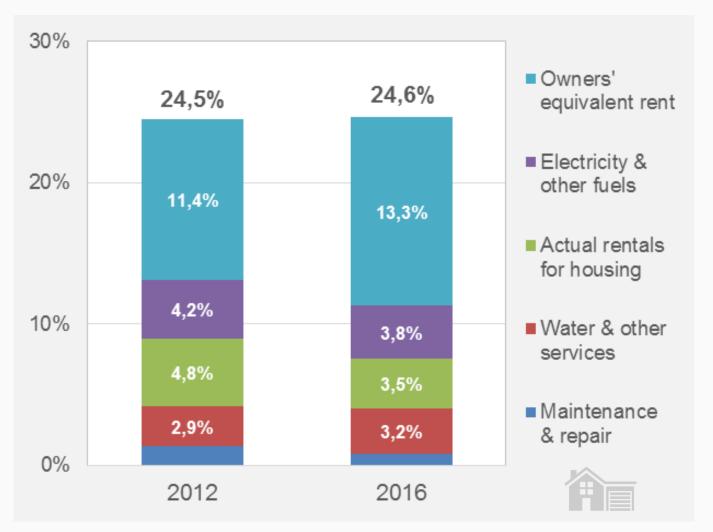
#### **Adjustment:**

Owner occupied housing – rent matching method



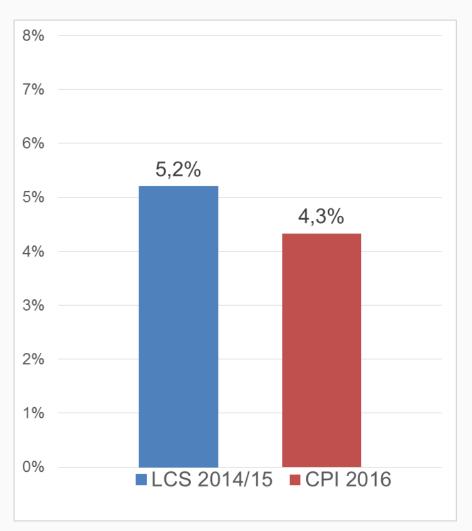


#### Housing and utilities - headline





Household furnishings, equipment & maintenance – total country

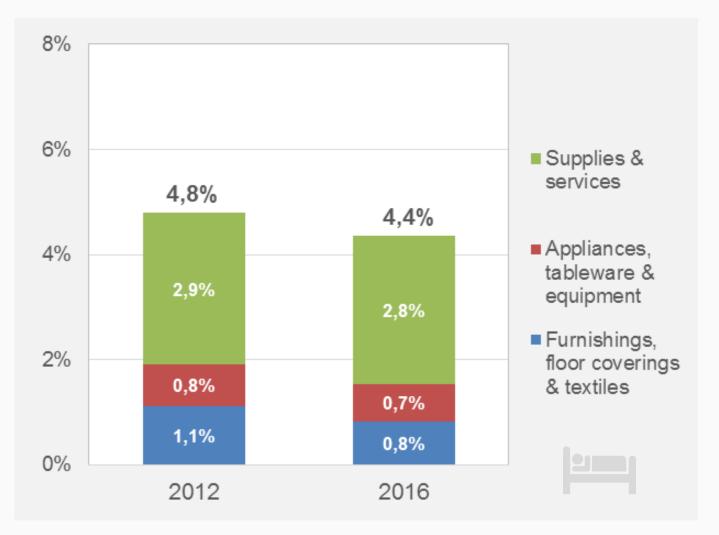


No adjustments made



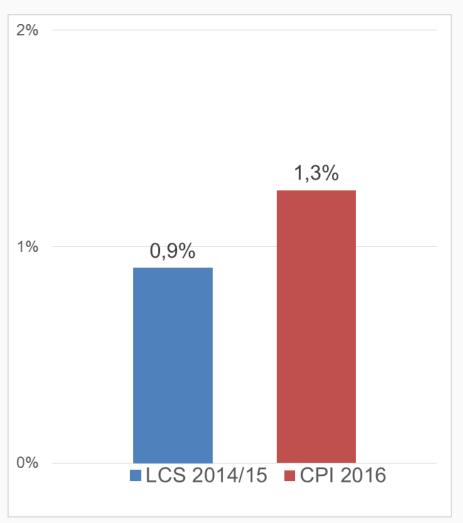


#### Household contents and services - headline





#### Health – total country



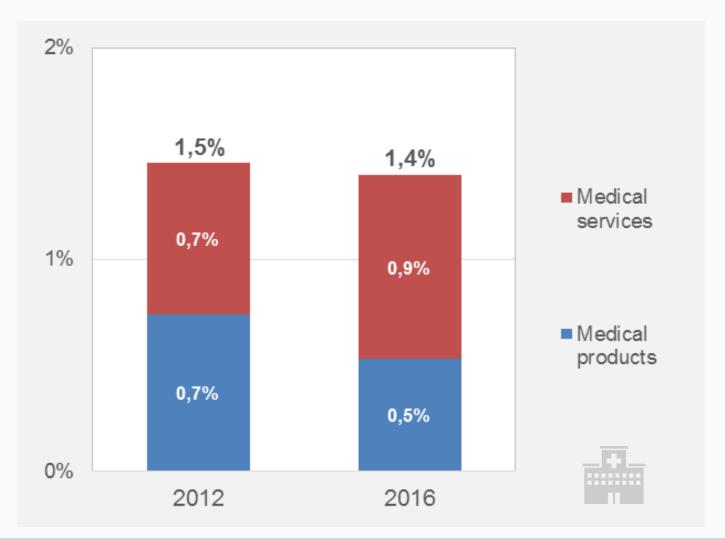
#### Adjustments:

Regulatory data on out of pocket expenses



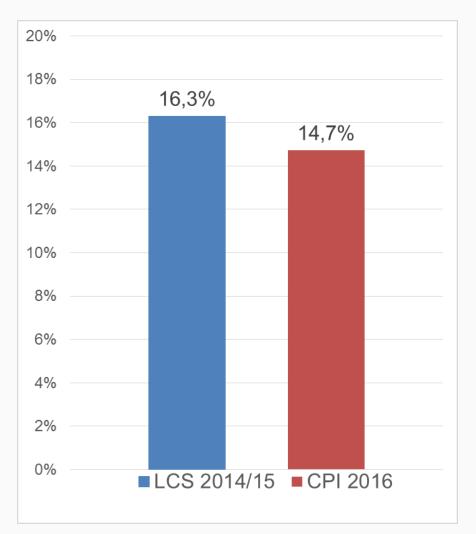


#### Health – headline





#### Transport – total country



#### Adjustments:

Used vehicles adjusted with net weight

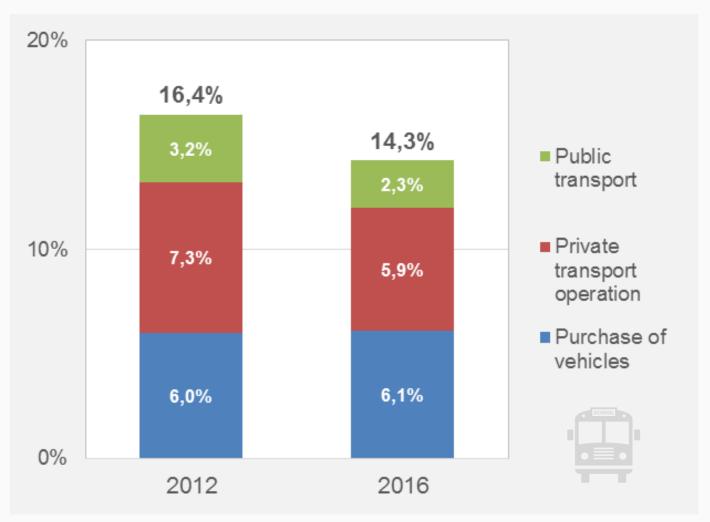
Upward adjustment for purchase of new vehicles using industry data

Fuel purchases adjusted upwards using National accounts



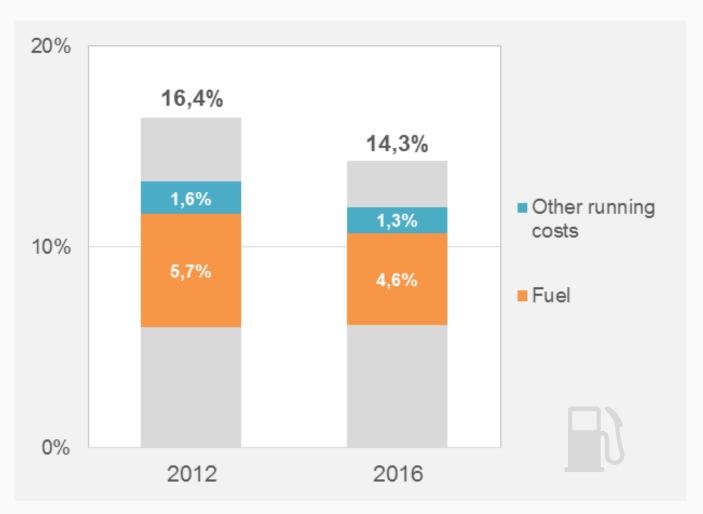


#### Transport - headline



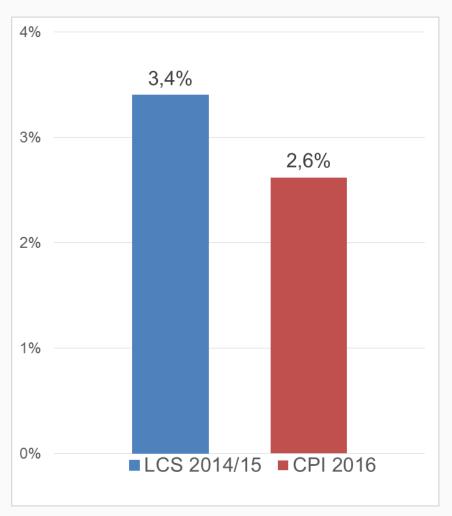


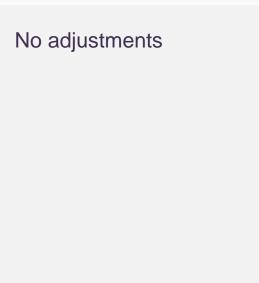
## Private transport operation - headline





#### Communication – total country

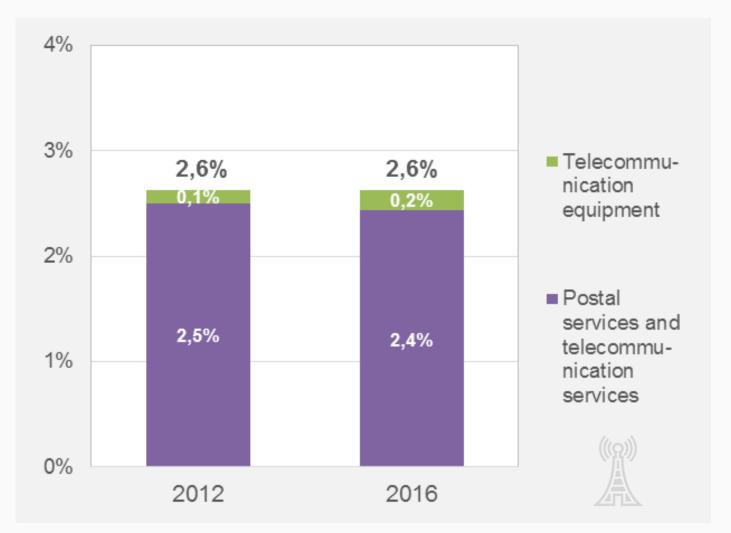






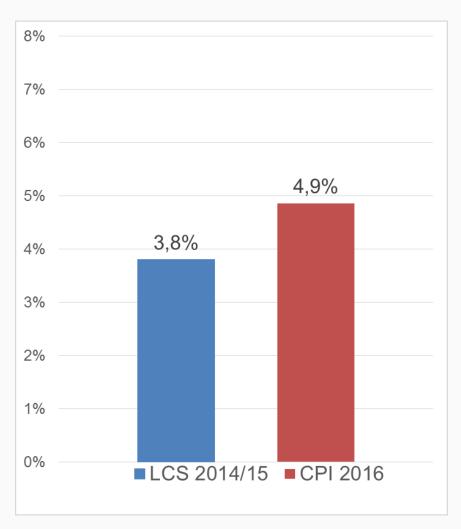


#### Communication - headline





#### Recreation and culture – total country



#### **Adjustments:**

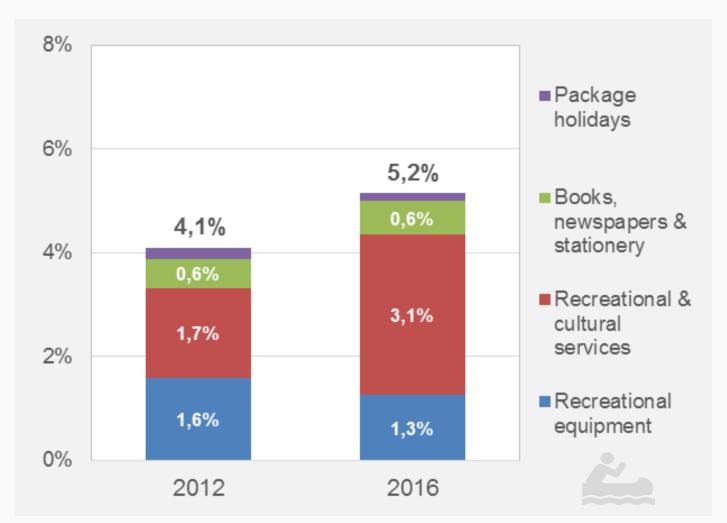
Net expenditure on gambling using regulatory data on revenue and winnings

Increased value for Pay TV subscription



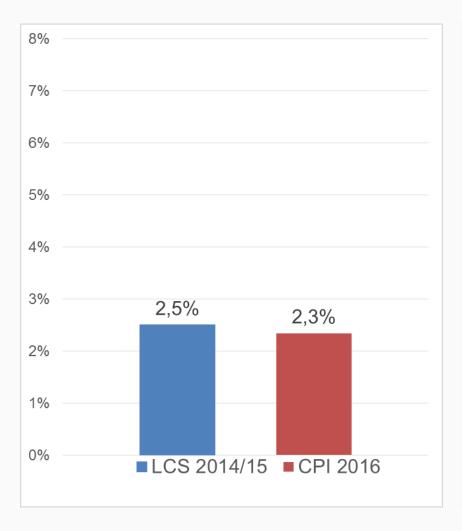


#### Recreation and culture - headline





#### Education – total country



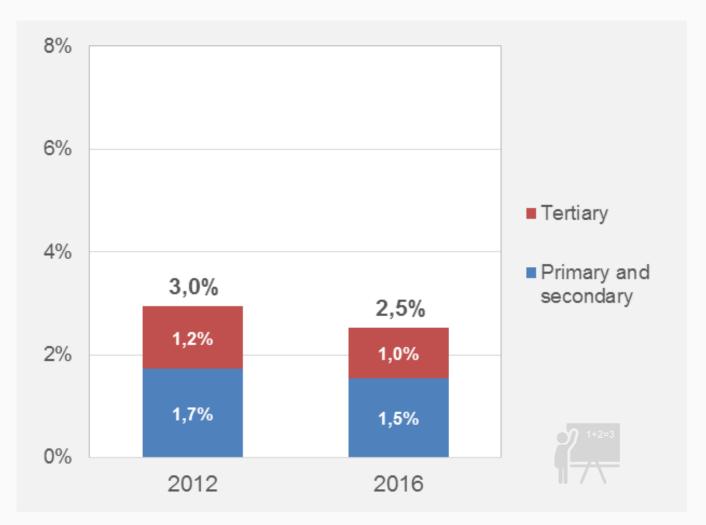
#### **Adjustments:**

Increased tertiary tuition fees using official data on fees paid and student numbers



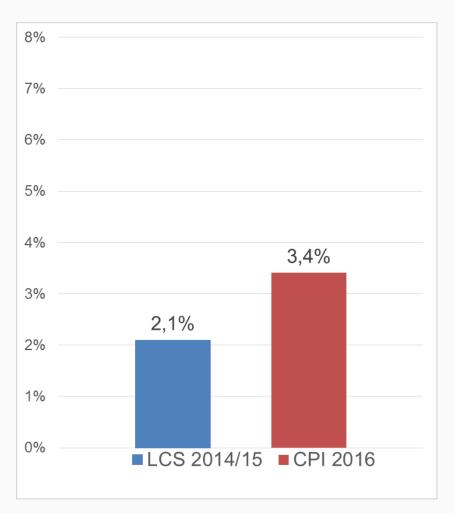


#### Education – headline





#### Restaurants and hotels – total country



#### **Adjustments:**

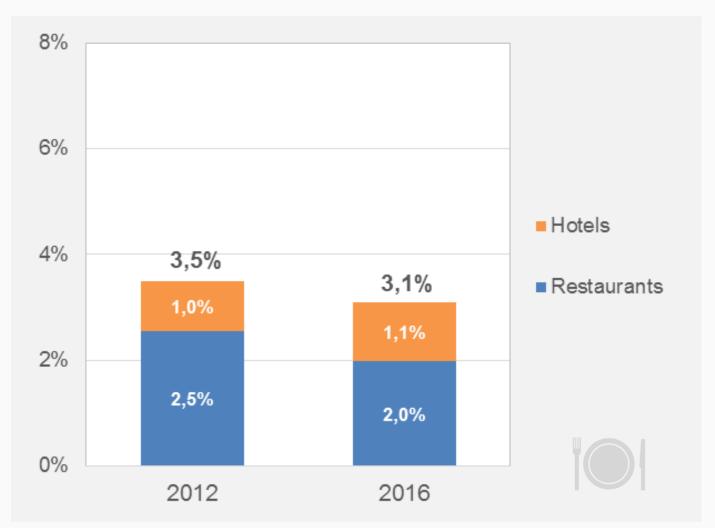
Restaurants using trade survey data

Alcoholic beverages using national accounts



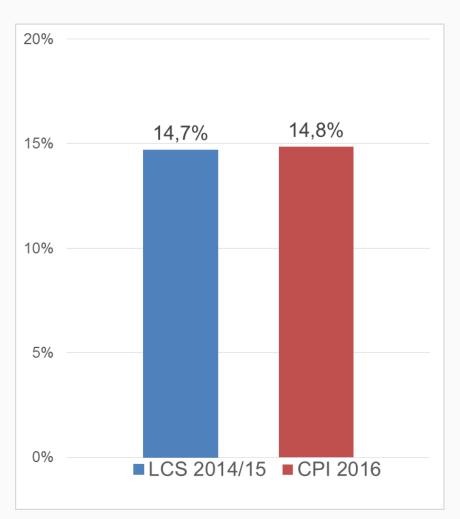


#### Restaurants and hotels – headline





#### Miscellaneous - total country



#### **Adjustments:**

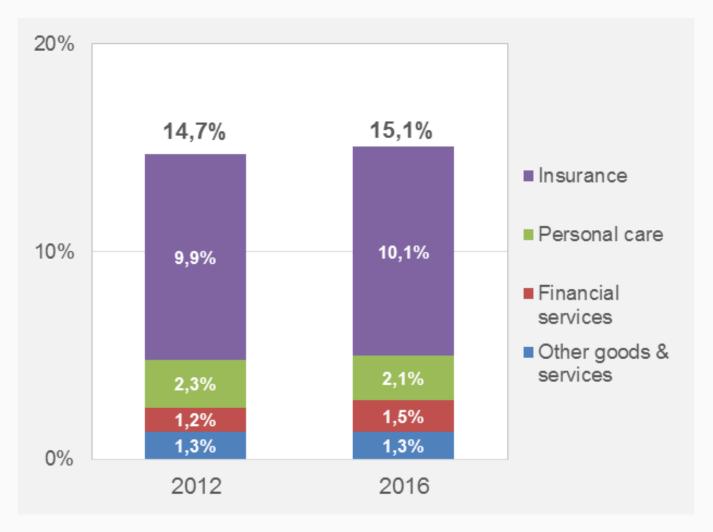
Insurance adjusted with net weight

Personal care increased by same % as food





#### Miscellaneous - headline





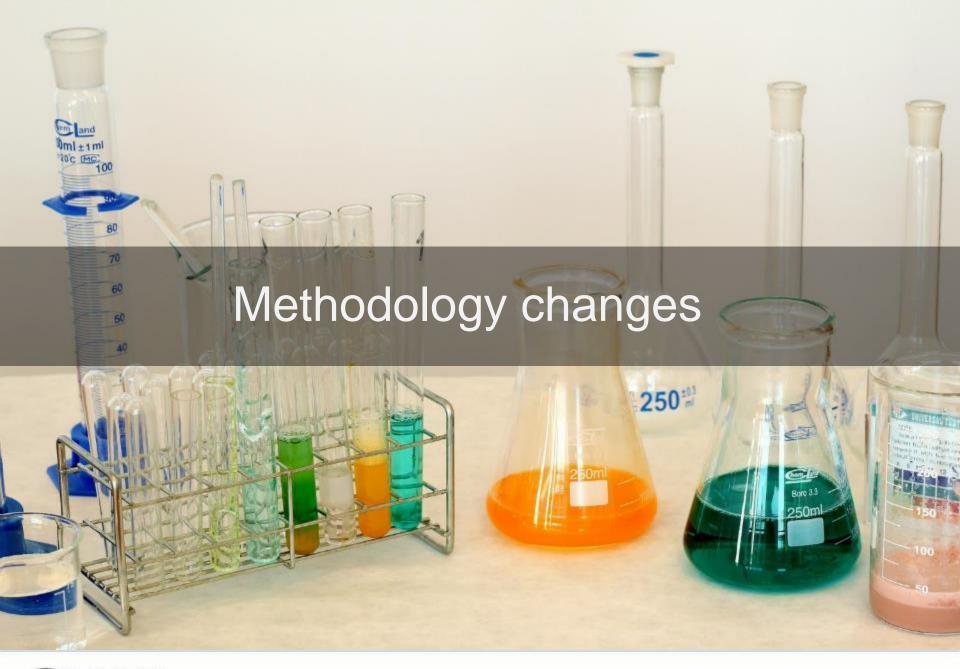




## Rebasing

- Base period where all indices = 100
- Rebasing eliminates influence of historical inflation trends
- Rebasing when reweighting avoids change in index because of weight change
- Month before implementation of new weights = base period
  - Current: December 2012 = 100
  - New: December 2016 = 100







# Methodology changes

# Games of chance

Used vehicles





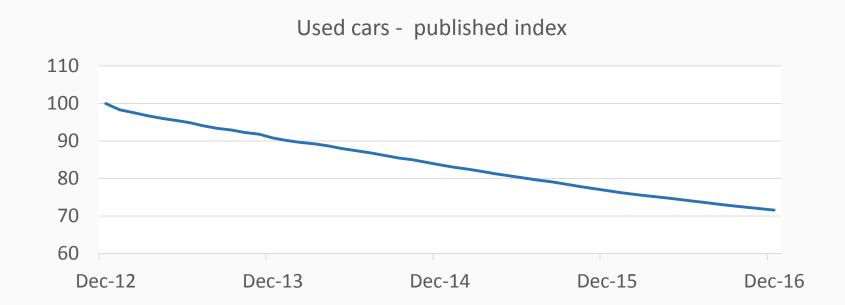
# Aim to identify alternative index calculation method to better reflect annual inflation experience

- Each used vehicle is unique
- Used standardised prices from dealer guide



# Current method: No linking

- Compares same age from December January
- Tracks price from month to month



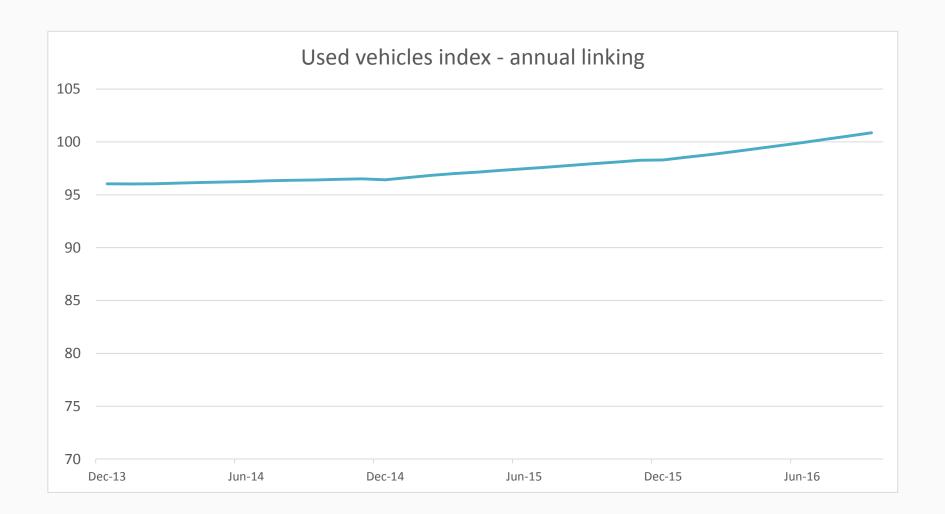


New method: Annual linking
Transforms annual change to monthly

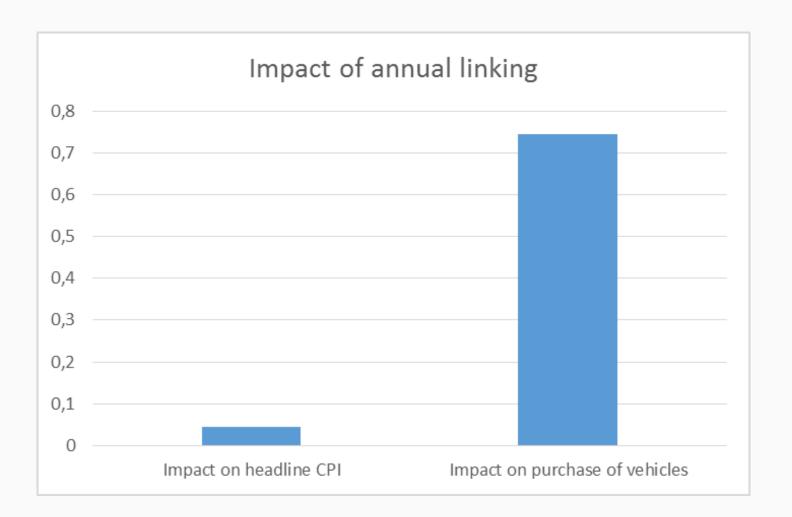
1/12

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## Changes to the publication

Expenditure survey designed for precision at provincial level

No city level CPI

CPI with COICOP detail will be published for:

- Urban areas headline CPI
- Total country
- Each province
- Rural areas (national)

30 Analytical indices including CPI for deciles

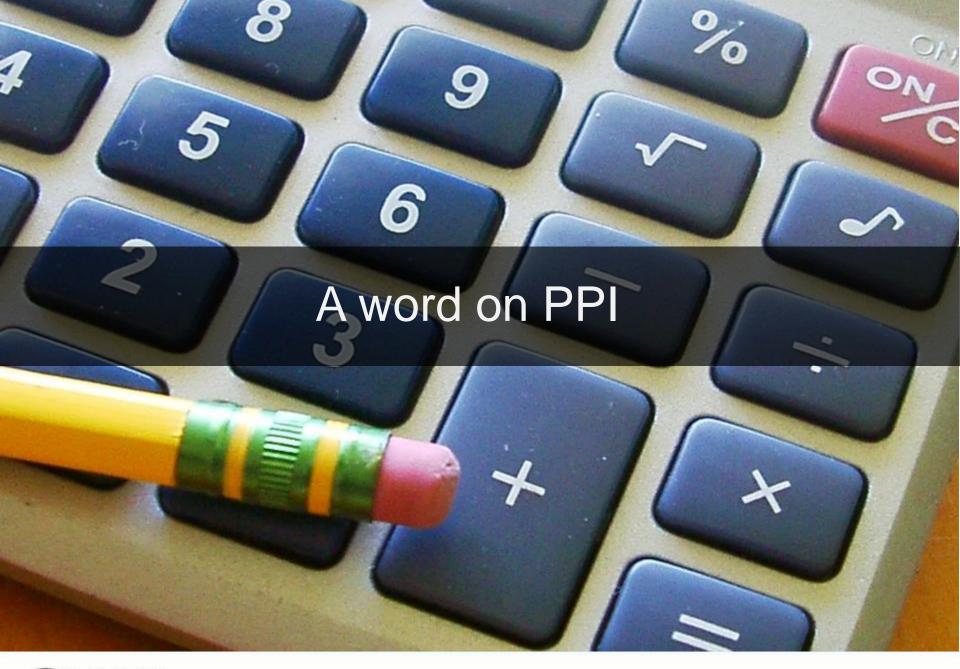


# Next reweighting

Next expenditure survey in 2018/19

Next reweighting implemented in January 2021







#### PPI



#### **Producer Price Index (PPI)**

PPI also to be reweighted and rebased from January 2017 release (in February)

- Manufacturing final and intermediate
  - National accounts and Manufacturing large sample survey
  - New products to only be implemented in 2018
- Electricity and water
- Mining and Quarrying
- Agriculture, forestry and fishing

updated with national accounts and administrative data each year





