### Polish frozen chicken imports into the UK

#### **Required libraries**

```
require("RPostgreSQL")
## Loading required package: RPostgreSQL
## Loading required package: DBI
library(ggplot2)
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
      filter, lag
##
## The following objects are masked from 'package:base':
##
      intersect, setdiff, setequal, union
##
library(tidyverse)
## — Attaching packages —
tidyverse 1.2.1 —
## √ tibble 1.4.2 √ purrr
                                 0.2.4
## √ tidyr 0.8.0
                     ✓ stringr 1.3.0
## √ readr 1.1.1 √ forcats 0.3.0
## — Conflicts —
tidyverse_conflicts() —
## X dplyr::filter() masks stats::filter()
## X dplyr::lag() masks stats::lag()
```

#### Get the HMRC auxiliary data.

```
source("get_HMRC_aux_data.R")
list1 <- get_HMRC_aux_data()
comcode <- data.frame(Reduce(rbind, list1[1]))
port <- data.frame(Reduce(rbind, list1[2]))
country <- data.frame(Reduce(rbind, list1[3]))</pre>
```

# Find frozen chicken comcodes - Thank you Alex for making life nice and easy for us!

```
cc_all_chicken <- comcode[grep('CHICKEN', toupper(comcode$description)),]</pre>
```

#### **Get HMRC import data from EU (arrivals df)**

```
source("get HMRC data.R")
HMRC_EU_import_food_data <- get_HMRC_data(arrivals)</pre>
## [1] "Medium cuppa?"
(col names
t(as.data.frame(colnames(HMRC_EU_import_food_data))))
                                       [,1]
                                                      [,2]
## colnames(HMRC EU import food data)
                                       "smk comcode" "smk record type"
                                       [,3]
                                                      [,4]
## colnames(HMRC EU import food data)
                                       "smk cod seq" "smk cod alpha"
##
                                       [,5]
                                                        [,6]
                                       "smk_trade_ind" "smk_coo_seq"
## colnames(HMRC_EU_import_food_data)
                                       [,7]
## colnames(HMRC EU import food data)
                                       "smk_coo_alpha"
                                       [8,]
## colnames(HMRC EU import food data)
                                       "smk_nature_of_transaction"
##
                                       [,9]
                                       "smk_mode_of_transport"
## colnames(HMRC_EU_import_food_data)
                                       [,10]
## colnames(HMRC EU import food data) "smk period reference"
                                                              [,12]
##
                                       [,11]
                                       "smk_suite_indicator" "smk sitc"
## colnames(HMRC_EU_import_food_data)
                                       [,13]
## colnames(HMRC EU import food data) "smk ip comcode"
                                       [,14]
##
## colnames(HMRC_EU_import_food_data) "smk_no_of_consignments"
                                       [,15]
                                                         [,16]
## colnames(HMRC_EU_import_food_data)
                                       "smk_stat_value" "smk_nett_mass"
##
                                       [,17]
## colnames(HMRC_EU_import_food_data) "smk_supp_unit"
```

#### Select Poland fresh chicken import info

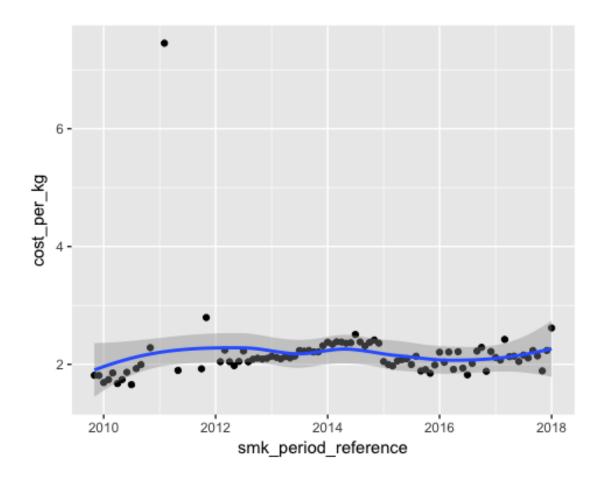
# Clean data: remove any Na values, 0 values and date values == "0000000"

#### **Convert period column to date format**

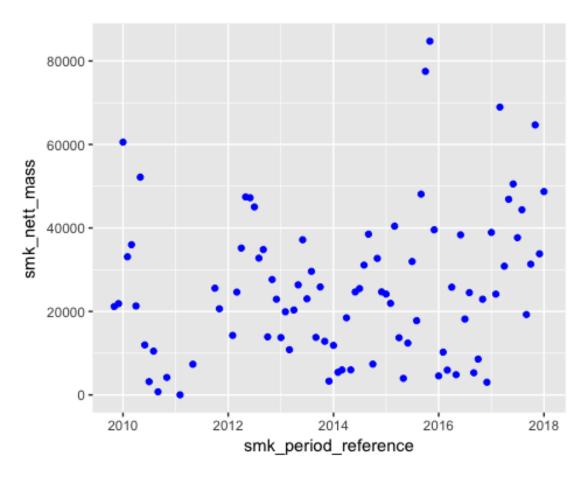
### Get the cos/kg (\$/kg)

### Aggregate data into periods of months

# What does the cost/kg of the Polish frozen chicken imported into the UK look like over time?

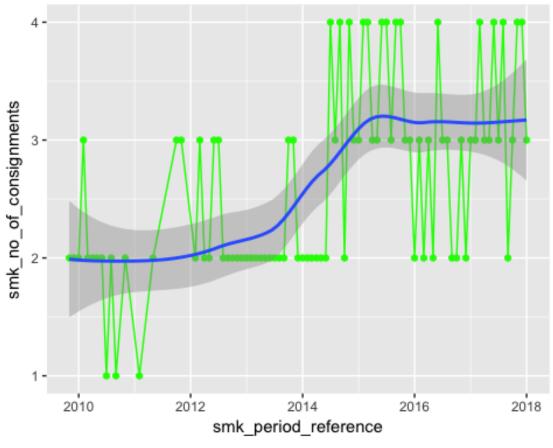


# What does the nett mass of Polish frozen chicken imported into the UK look like over time?



• Imports of frozen chicken seem to be spread with no obvious pattern

### Did the number of consignments also increase during the spikes?



\* Very

regular consignments between midway 2012 and midway 2013

## **Conclusions and questions**