```
library(readx1)
library(gaplot2)

Values <- read_excel ("data/ResiduosPerCapita.xlsx")

colnames(Values) <- c("Countries", "2004", "2018")

bata2014 <- Values[, "2004"]

bata2014 <- Values[, "2004"]

bata2014 <- values[, "2004"]

chipre2004 <- as.numeric(Data2004[11,])

chipre2018 <- as.numeric(Data2018[11,])

Polonia2018 <- as.numeric(Data2018[11,])

Polonia2018 <- as.numeric(Data2018[22,])

Luxemburgo2018 <- as.numeric(Data2018[26,])

Luxemburgo2018 <- as.numeric(Data2018[26,])

chipreValues <- chind(Chipre2004, Chipre2018)

PoloniaValues <- chind(Chipre2004, Chipre2018)

ShowValues <- chind(ChipreValues, PoloniaValues, Luxemburgo2018)

ShowValues <- chind(ChipreValues, PoloniaValues, LuxemburgoValues)

countries <- c(rep("Chipre", 2), rep("Polonia", 2), rep("Luxemburgo", 2))

year <- repic("2004", "2018"), 3)

Townames(ShowValues) <- c"(chipre", "Polonia", "Luxemburgo")

Total <- data.frame(Year = rep(c("2004", "2018"), each = 3),

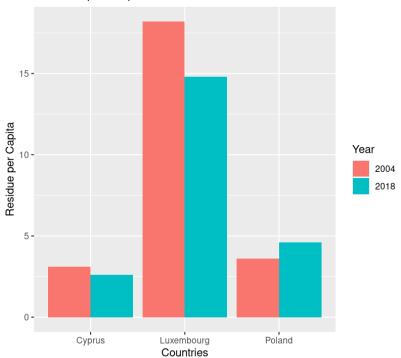
Country = rep(c("Cyprus", "Polonia", "Luxemburgo"), 2),

Residue = (Chipre2004, Polonia2004, Luxemburgo2004, Chipre2018, Polonia2018, Luxemburgo2018))

ggplot(Total, aes(x= Country, y = Residue, fill= Year) + geom_bar(stat="identity", position=position_dodge()) + 3

labs(title="Residue per Capita in 2004 and 2018", x="Countries", y = "Residue per Capita")
```

Residue per Capita in 2004 and 2018



Podemos ver que no Chipre e em Luxemburgo o resíduo per capita diminuiu entre 2004 e 2018. Enquanto que na Polónia esse valor aumentou.