Zdenko Zahorec

sbs22090@student.cct.ie

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Lecturers:

Marina Iantorno

David McQuaid

Dr. Muhammad Iqbal

Continous Assignement 2

Irish agricultural case study

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# Abstract

Irish Agriculture…

# Introduction

According to …

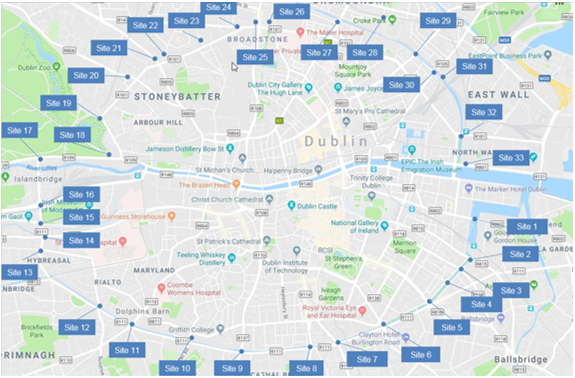


Figure 1 Cordons

Figure 1 (Dublin Cordon Points)

# Analysis

Organic food

# Conclusion

By using this dataset, we can build machine learning models to…

# References

1. Adèr, H.J. (2008). Advising on Research Methods: A Consultant’s Companion. [online] Google Books. Johannes van Kessel Publishing. Available at: https://books.google.ie/books?hl=en&lr=&id=LCnOj4ZFyjkC&oi=fnd&pg=PA333&dq=data+analysis+process+steps&ots=L2tblTW3jw&sig=fF-7Ya76YUUG4idfBW9yEbLKkLA&redir\_esc=y#v=onepage&q=data%20analysis%20process%20steps&f=false [Accessed 2 Apr. 2022].

# Appendices

Appendix 1. ***Mood’s Median Test***

Null Hypothesis H0: The medians of the populations all are equal

Alternative Hypothesis H1: The medians of the population are not all equal

Known values:

Overall Median =0.02829999999999977 (Jupyter notebook )  
Critical value of χ2 (0.05, 1) = 3.841

Observed values (Jupyter notebook)

|  |  |  |  |
| --- | --- | --- | --- |
| Observed | USA | IRL | Totals |
| > median | 151 | 148 | 299 |
| <= median | 148 | 151 | 299 |
| Totals | 299 | 299 | 598 |

Expected values = (Column total \* Row Total) / N

|  |  |  |  |
| --- | --- | --- | --- |
| Observed | USA | IRL | Totals |
| > median | 149.5 | 149.5 | 299 |
| <= median | 149.5 | 149.5 | 299 |
| Totals | 299 | 299 |  |

(Column total \* Row Total) / N

All Values = 299\*299/588=149.5

Critical value of χ2 (0.05, 1) = **3.841**  
Calculated **=0.194**

Since 0.194 is less than 3.841 , We accept the Null Hypothesis. We can conclude that the Medians are the same for the differences in monthly price changes for USA and IRL data.