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**FACTORS THAT AFFECT PRO-ENVIRONMENTAL  
BEHAVIOR OF GREEK CYPRIOTS**

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## **Abstract**

The main objective of this paper is to find the factors that affect the pro-environmental behavior of Greek Cypriots by using the Eurobarometer Survey 88.1. Logit regressions are used to test 6 hypotheses created based on previous studies. Results indicate that education level and age increases the probability of behaving pro-environmentally. Also, residents of small towns and cities are likely to behave more pro-environmentally than rural residents. Higher income classes also have a likelihood to behave more for some pro-environmental behavior compared to lower middle income classes. For cities, respondents in Larnaca, Paphos and Famagusta show high probability on different types of pro-environmental behavior than respondents in Nicosia. On the other hand, respondents who are married or living with a partner behave more pro-environmentally than single respondents. Lastly, respondents who are not very satisfied with their lives and never using internet in a day tend to show different types of pro-environmental behavior.

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## **1.Introduction**

Over the last few decades, the exploitation of planet Earth and the degradation of the environment on the planet have gone up at an alarming rate and therefore the number of environmental problems has gone up as well. The solution to the environmental problems is based on individuals' attitudes and behaviors. An attitude is " a relatively enduring organization of beliefs, feelings, and behavioral tendencies towards socially significant objects, groups, events or symbols " (Hogg & Vaughan 2005, p. 150). Therefore, analyzing the effect of socially significant objects, groups etc. on persons' environmental beliefs, feelings or behavior is important in order to find a solution for the environmental problems. In other words, the change of people's actions towards the environment is not possible without the change of stereotype in their minds.

Cyprus is the third biggest island in the Mediterranean Sea and located between Turkey and Egypt. It has mediteranean climate which consists of dry-hot summers and warm-slightly rainy winters. However, the climate change is started to felt on the island. According to the report of The Cyprus Institute, an increase in extremely hot summer days and 10-15% reduction in rainfalls are expected between 2020 and 2050. Cypriots have to behave pro-environmentally otherwise Cyprus is going to be uninhabitable because of the extreme climatic conditions. The aim of this paper is to analyze the pro-environmental decision making of Cypriots or, to measure the effect of personal and social factors on pro-environmental decision making. There are several papers which studied this topic with different perspectives. However, there is no study done on Cyprus so that this research is going to be an addition to the literature.

Eurobarometer 88.1 (2017) by the European Commission is going to be used as a data source. The findings of the model indicate that increasing education level has a strong positive effect whereas age has a weak positive effect on the likelihood of different kinds of pro-environmental behavior. Also, an increase in income class increases the probability of behavior of different types of environmental behavior. Respondents who are married or living with a partner are likely to have a probability of behaving more pro-environmentally compared to single respondents. For residents, there is a strong probability that small town and urban citizens behave more pro-environmentally compared to rural citizens. In addition, citizens in touristic places such as Famagusta, Paphos and Larnaca are likely to show more pro-environmental behavior than citizens in Nicosia. In addition, there is a low probability that respondents who are not very satisfied with their lives and never using internet in a day tend to show different types of pro-environmental behavior compared to respondents who are satisfied with their lives and using internet everyday.

The rest of the paper is structured as follows ; the results of the previous studies on pro-environmental behavior and the hypotheses are presented in section 2. Then, the explanation of the data and variables is included in section 3. Descriptive statistics of the variables are also presented in this section. In section 4, the model used in the analysis and solutions to possible problems are explained followed by the presentation of results of the model and their interpretation. Lastly, section 5 presents a general overview of the study and policy recommendations.

## **2.Literature Review**

Pro-environmental purchasing behavior has been a popular topic in the last decade and many studies have been conducted by scholars. The studies on this topic have a wide range of approaches because there are many personal and social factors which affect people's behavior. Consequently, individual-level data that was collected by the Eurobarometer or other surveys from different years are used on the studies in order to analyze people's attitudes and behaviors regarding the environment. In this section of the paper, different studies about pro-environmental behavior and attitude are presented. Firstly, papers studying the effect of education on pro-environmental behavior (PER) are presented. Secondly, papers analyzing the effect of gender on pro-environmental behavior are mentioned, followed by, studies related to the effect of age. Fourthly, studies regarding how living in urban or rural areas affects PER are mentioned. In the final part of the section, papers examining the relationship between marital status, the presence of children in the household and PER are mentioned.

### **Education and PER**

Many papers found that education is positively correlated with PER. Meyer (2015) examined the effect of the twentieth century's educational reforms in Europe on environmental friendly behavior by using pooled data which consists of a two-wave Eurobarometer survey conducted in 2007 and 2011. Pro-environmental behaviors such as recycling waste, cutting down energy and water consumption, buying environmentally friendly products or environmental friendly traveling are used as the dependent variable. Two-stage least squares (2SLS) regression results showed that education has a large direct impact on PER : one additional year of education increases the number of pro-environmental behaviors by 8.3%. People who are more educated are more aware and more concerned about environmental problems. Similarly, Gifford &

Nilsson (2014) indicated that “making informed pro-environmental choices is difficult if one has incorrect or no knowledge” suggesting that the education type is also important, i.e, environmental attitudes also depend on which programs people are studying or have studied. For example, business and technology students are less concerned about the environment than students in other disciplines. In addition, Chankrajang & Muttarrak (2016) tried to answer the question, “Does schooling contribute to Pro-Environmental behaviors in Thailand?” According to their results, an increase in 1 year of schooling increases the probability of use of cloth bags by 5%, energy-saving light bulbs by 2.1% and energy efficient appliances by 7.7% in Thailand. Also, it decreases the probability of never using cloth bags by 6.7%, light-bulbs by 1.6% and energy-efficient appliances by 6.3%. Another study by Varoglu et al. (2017) investigated the environmental knowledge of 145 eighth grade students in North Cyprus and tries to find a correlation between environmental knowledge, attitudes, and behavior. Statistics showed that there is a significantly positive correlation between them but the correlation coefficient is not high. It can be said that environmental attitude has a stronger relationship with environmental knowledge than with environmental behavior. Therefore, Varoglu et al. (2017) claimed that improving the curriculum at secondary education will lead to higher environmental behavior and attitudes among students. On the other hand, Grenstad & Wollebaek in 1998, found that education did not lead to PER behavior in Norway. This result can be supported by Rhead’s (2015) research. Higher educated people with higher incomes cannot assimilate environmental information. Since the majority of the studies find a positive effect, I also expected to find a positive effect in Cyprus.

The first hypothesis is as follows :

*H1 : Education has a positive effect on pro-environmental behavior.*



## **Gender and PER**

Even though some studies found that there are no clear gender differences in environmental attitudes and behaviors, in their review paper, Gifford & Nilsson (2014) stated from recently emerged researches that women have stronger environmental attitudes, behavior and concern than men. It can be explained by personality effect on genders' behaviors. For instance, being agreeable, which is more conspicuous of women's personal traits, affects pro-environmental behavior in a positive way. Many patterns of personality were used to explain the gender differences in this issue. Moreover, Paço & Rodrigues (2016)'s findings supported this idea. Regression results showed that women exhibit a significantly higher environmental responsibility than men among Portuguese who are 18 years old or older in 2014. Similarly, findings of Casalo & Escario (2017) showed that Spanish women behave more pro-environmentally than Spanish men. On the other hand, Marie-Line & Maja (2008) conducted two survey studies in France and Great Britain in order to analyze the adherence and knowledge of pro-ecological norms. In the first study, gender differences in France cannot be observed. In contrast, in the other one, they found that although both of the genders are aware of the social desirability, women have a stronger normative adherence than men to pro-environmental ideas. Therefore, it should be noted from this study that gender differences are not always found in studies. Because most of the studies found a positive relationship between education and PER, it is also expected to find a positive relationship in Cyprus.

The second hypothesis is as follows :

*H2 : Women behave more pro-environmentally than men.*

## **Age and PER**

It is difficult to draw a general conclusion about the effect of age on pro-environmental behavior from the past studies because some papers found that old people care about the environment whereas other papers suggest the opposite. Gifford & Nilsson (2014) review different studies on the relationship between age and pro-environmental behavior. One study suggested that older people show more pro-environmental behavior than younger people. This is explained by the effect of historical events or “cohort effect” in the article. The Great Depression in the 1930s and Second World War in 1940s had a great impact on older people. Limited resources and the attitude of protection on those times have increased people’s concerns about the environment. In addition, according to a study by Casaló & Escario (2017), there exists a positive relationship between age and pro-environmental behavior. This results can be explained by trust on technology : Young people may think that technological developments will take care of environmental problems so that there is no need to be concerned about it. However, most studies found that younger people are more environmentally concerned than older people. The findings can be explained by the “true age effect” and the “era effect”. True age effect is the possibility that people become less concerned about the environment when they get older. The reason for that can be the change in attitudes when people are getting close to death. Mostly religious old people think that if they harm the environment, god will punish them after death. On the other hand, era effect arises from the change in social-political climate over the years. Changing situations may make people less concerned about the environment. Thus, they may behave less pro-environmentally. For example, people behave less pro-environmentally in economic recession or war times. Since there was a war in 1974, it is expected older Cypriots to behave more pro-environmentally than younger ones because of the cohort effect.

The fourth hypothesis is as follows :

*H3 : Older people behave more pro-environmentally than young people.*

### **Region ( Urban-rural) and PER**

Despite the fact that some people think that people who live in rural areas behave more pro-environmentally than people live in urban cities, Chen et al. (2011) indicated that urbanized people are more likely to engage in pro-environmental behaviors in China, especially highly educated young people. Similarly, Gifford & Nilson (2014) mentioned a study that reported the urbanized German people's commitment to the environmental issues. They are more committed to the environmental issues than people who live in rural areas of Germany. Another study stated that although Norwegian farmers want to protect the environment, they put their interests ahead of nature's interest. On the other hand, Hinds & Sparks (2008) mentioned that British people with rural backgrounds show a more positive attitude towards the environment than people with urban backgrounds. As the Republic of Cyprus mostly consists of rural areas, most people have a direct relationships with nature. Therefore, it is expected that rural residents behave more pro-environmentally than urban residents.

The fourth hypothesis is as follows :

*H4 : Rural residents behave more pro-environmentally than urban residents.*

### **Marital Status, presence of children in the household and PER**

Chen et al. (2011) found that single respondents behave more pro-environmentally than married respondents in China. When it can be considered that single respondents are generally younger than married ones, the authors noted that the effect of marital status over age may be because of time constraints on pro-environmental behavior which is forced by family responsibilities. Furthermore, Garcia-Valinas et al. (2011) 's results showed that the "never married" status has

significantly positive effect on environmental engagement in both Western and Eastern Europe. On the other hand, Ergun & Rivas (2019) mentioned in Turkey that people with a child worry more about climate change. Beckmann (1993) 's findings supported this idea. Parents with larger families are likely to have children in school where environmental issues are discussed so that they feel pressure to meet their children's socially conscious behavior. Therefore, they behave more pro-environmentally. Besides, married females who are home-makers show more concern about climate change. However, despite the two opposite results mentioned above, Diamontopoulos et al. (2003) found no difference between married and single people in terms of environmental knowledge. Since most of the studies found that single people and people with children behave more pro-environmentally, I also expected to find the same results for the Cyprus case.

The sixth and seventh hypotheses are as follows :

*H5 : Single people behave more pro-environmentally than married people.*

*H6 : People with children behave more pro-environmentally than others.*

### **3. Data and Variables**

#### **3.1 Data**

The dataset used in this paper is the EUROBAROMETER 88.1 which was retrieved from GESIS Data Catalogue. It was collected through face-to-face or face-to-face computer-assisted personal interview by CYMAR at the request of the Directorate-General for Communication "Media monitoring and analysis" Unit between 23 September and 2 October 2017. It covers 28 countries and includes categories which are international institutions, relations and conditions, political issues, political attitudes and behavior, society and culture, natural environment and nature. The minimum age of the respondents is 15 years old. The number of

interviews is around 1000 for the most of the countries. However, it is 501 for the Republic Of Cyprus.

### 3.2 Dependent Variable

The dependent variable differs for each logit model. It is an index which is created by adding the respondents' multiple answers to the question : "Have you done any of the followings in the past six months ?". The answers takes value 1 if respondent did the action, and 0 otherwise it is 0. The selectional answers are : 1) "chosen a more environmentally-friendly way of travelling (walk, bicycle, public transport, electric car)" , 2) " avoided buying over-packaged products" , 3) " avoided single-use plastic goods other than plastic bags ( e.g. plastic cutlery, cups, plates, etc.) or bought reusable plastic goods , 4) " separated most of your waste for recycling" , 5) "cut down your water consumption" , 6) " cut down your energy consumption ( e.g. by turning down air conditioning or heating, not leaving appliances on stand-by, buying energy efficient appliances) , 7) " bought products marked with environmental label" , 8) " bought local products" , 9) " used your car less by avoiding unnecessary trips, working from home (teleworking), etc. ". In addition to the nine selectional answers above, "none" and " don't know" are also selectional. Respondents who chose "none" are included as zero in the index . One respondent who chose " don't know" was eliminated from the dataset.

Firstly, an index which consists of the addition of all answers is used as a dependent variable in ordered logit model. Secondly, an index named **eco\_travel** which contains answers of question 1 and 9 is used for logit model 1. Thirdly, an index named **eco\_purchase products** which includes answers of question 2, 3, 7 and 8 is used for logit model 2. Fourthly, an index

named **recycling** contains the answer of question 4 is used for logit model 3. Finally, an index named **w\_e\_consumption** includes answers of question 5 and 6 is used for logit model 4.

The distribution of the dependent variable is shown in **Table-1**.

**Table 1 : Distribution of the dependent variable**

Index	Frequency	Percentage
0	67	13.4
1	94	18.9
2	107	21.4
3	106	21.2
4	66	13.1
5	34	6.9
6	14	2.9
7	5	1.1
8	5	0.9
9	1	0.2
Total	500	100.00

### 3.2 Explanatory Variables

Sociodemographic variables such as age, education level, marital status, having children, income class, gender, district, type of community and other variables such as internet use and

life satisfaction are used as explanatory variables. All independent variables are qualitative variables except age which is a quantitative variable. Dummy variables are created for qualitative variables. In addition, respondents who chose “do not know” or “ refusal” in the questions were eliminated from the dataset.

Firstly, education is measured by the age which respondents stopped full-time education in the main dataset. Therefore, “Age of stopping full-time education – 6 “ is used in order to calculate the education years of respondents. Four dummy variables are created for the education. Respondents’ whose educational years are between 0 and 9 are counted as primary/secondary school. In addition, respondents whose educational years are between 9 and 13 are counted as high-school. Then, respondents whose educational years are above 13 are counted as university/master/phd.

Secondly, lower-middle, middle and upper-middle income classes are created in order to observe the environmental behavior of different income classes. While doing this, working class and lower-middle class are combined due to their low frequencies. Also, upper-middle class and high class are combined due to the same reason.

Thirdly, marital status and having children or not are included to the data by asking the current situation of respondents. The possible answers to the question consist of 4 categories which are married, single but living with a partner, single and widow/divorced. Therefore, married and single but living with a partner are combined and three dummy variables are created for the marital status. Also, there are answers including having children or not in these categories. Combining the answers, I noted a dummy variable that shows if the respondent has a child or not.

Fourthly, the district where the respondent lives is included. The districts are Nicosia, Larnaka, Famagusta, Limassol and Paphos.

Fifthly, urban, rural and small town dummy variables are created to see if rural residents behave more pro-environmentally than urban residents. Sixthly, gender variable men is created in order to find which of the genders are behaving pro-environmentally. Seventhly, the age variable is used to check the relationship between the age of the respondents and his/her pro-environmental behavior. Apart from socio-demographic variables, life satisfaction and internet usage are used even though any paper regarding the relationship between PER and them was not found. Life satisfaction of respondents is measured as ; satisfied, not very satisfied, and not at all satisfied. Lastly, internet use of the respondents is measured as ; using everyday, using often and using never. The description of the explanatory variables is shown in **Table-2a**.

**Table 2a : Descriptions of explanatory variables**

<b>Age</b>	Age of the respondents
<b>Men</b>	Takes value 1 if the respondent is coded as 1
<b>Lowermiddle income class</b>	Takes value 1 if the respondent answered as working class or lower-middle class of the society when asked : “ do you see yourself and your household belonging to ...? ”
<b>Middle income class</b>	Takes value 1 if the respondent answered as middle-class of the society when asked : “ do you see yourself and your household belonging to ...? ”
<b>Uppermiddle income class</b>	Takes value 1 if the respondent answered as upper-middle or high class of the society when asked : “ do you see yourself and your household belonging to ...? ”
<b>Primary_secondary school</b>	Takes value 1 if the respondent studied less than 9 years
<b>High school</b>	Takes value 1 if the respondent studied between 9 and 13 years



<b>University_master_phd</b>	Takes value 1 if the respondent studied more than 13 years
<b>Household_with_child</b>	Takes value 1 if the respondent answered as single or multiple household with children
<b>Household_without_child</b>	Takes value 1 if the respondent answered as single or multiple household without children
<b>Single</b>	Takes value 1 if the respondent is single
<b>Married_partner</b>	Takes value 1 if the respondent is married or is single but living with a partner
<b>Divorced</b>	Takes value 1 if the respondent is divorced or widow
<b>Nicosia</b>	Takes value 1 if the district is coded as 1
<b>Limassol</b>	Takes value 1 if the district is coded as 2
<b>Larnaca</b>	Takes value 1 if the district is coded as 3
<b>Paphos</b>	Takes value 1 if the district is coded as 4
<b>Famagusta</b>	Takes value 1 if the district is coded as 5
<b>Rural</b>	Takes value 1 if the type of community is coded as 1
<b>Small_town</b>	Takes value 1 if the type of community is coded as 2
<b>Urban</b>	Takes value 1 if the type of community is coded as 3
<b>Internet_usage_everyday</b>	Take value 1 if the respondent is using internet everyday
<b>Internet_usage_often</b>	Takes value 1 if the respondent is using internet often
<b>Int_usage_never</b>	Takes value 1 if the respondent is not using internet
<b>Life_very_satisfied</b>	Takes value 1 if the respondent is very satisfied with his/her life
<b>Life_not_very_satisfied</b>	Takes value 1 if the respondent is not very satisfied with his/her life
<b>Life_not_all_satisfied</b>	Takes value 1 if the respondent is not all satisfied with his/her life

**Table 2b : Descriptive statistics of variables**

	<b>N</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Mean</b>	<b>Std. Deviation</b>
<b>index_dependent</b>	500	0	9	2,46	1,744
<b>age</b>	500	15	90	45,01	18,762
<b>men</b>	500	0	1	,48	,500
<b>women</b>	500	0	1	,52	,500
<b>Lowermiddle income class</b>	488	0	1	,42	,494
<b>Middle income class</b>	488	0	1	,54	,499
<b>Uppermiddle income class</b>	488	0	1	,04	,200
<b>primary_secondary school</b>	449	0	1	,20	,397
<b>High school</b>	449	0	1	,45	,498
<b>university_master_phd</b>	449	0	1	,31	,465
<b>Household_with_child</b>	500	0	1	,35	,478
<b>Household_without_child</b>	500	0	1	,54	,499
<b>Nicosia</b>	500	0	1	,39	,489
<b>Limassol</b>	500	0	1	,32	,466
<b>Larnaca</b>	500	0	1	,13	,336
<b>Paphos</b>	500	0	1	,12	,319
<b>Famagusta</b>	500	0	1	,04	,206
<b>single</b>	500	0	1	,14	,345
<b>married_partner</b>	500	0	1	,75	,434
<b>divorced</b>	500	0	1	,11	,318
<b>rural</b>	500	0	1	,37	,484
<b>small_town</b>	500	0	1	,30	,457
<b>urban</b>	500	0	1	,33	,471
<b>Internet_usage_everyday</b>	500	0	1	,67	,472
<b>Internet_usage_often</b>	500	0	1	,10	,295
<b>Internet_usage_never</b>	500	0	1	,15	,362

<b>life_very_satisfied</b>	500	0	1	,90	,305
<b>life_not_very_satisfied</b>	500	0	1	,09	,279
<b>life_not_all_satisfied</b>	500	0	1	,02	,123
<b>Valid N (listwise)</b>	441				

#### 4. Results

1 ordered and 4 different logit models are used for the estimation. All variables used in the regression are adjusted by using the weight from Eurobarometer 88.1 to correct the sample.

Results of 4 different logit models are presented in **Table-3**. Robust logit regression is used in order to deal with heteroskedasticity. Also, there is no multicollinearity between the explanatory variables because none of the VIF values is above 5 (see appendix 1b).

Reference categories are : **women, lowermiddle-income class, primary\_secondary school, household\_with\_child, Nicosia, single, rural, internet\_usage everyday and life\_very\_satisfied**

Before the interpretation of 4 logit models, extreme results of the ordered logit model will be interpreted. Based on results of ordered logit model ( **Appendix 1a**), it can be said that age decreases the probability of behaving pro-environmentally by *0.01 %* for the respondents who do not behave pro-environmentally in general ( index number 0 and 1 ). On the other hand, age increases the probability of behaving pro-environmentally for the higher groups ( index number 4 and 5) by *0.05-0.07 %*. Therefore, it has a ineffectual effect. In addition, the highest probability that upper-middle and high income classes behave more pro-environmentally than lower-middle income class is *0.048* . In a same way, the probability that upper-middle and high

income classes behave less pro-environmentally than lower-middle income class is  $0.074$ . For education, the probability of pro-environmental behavior of university-master-phd graduates more than primary-secondary school graduates is  $0.084$  at most. Inversly, the probability of the opposite situation can be at most  $0.013$ . Furthermore, highest probabilities that respondents are Larnaca, Paphos and Famagusta behave more pro-environmentally than respondents in Nicosia are  $0.069$ ,  $0.047$  and  $0.0117$ . Inversly, probabilities that respondents in Larnaca, Paphos and Famagusta behave less pro-environmentally than respondents in Nicosia are increased by  $10.6\%$ ,  $7.2\%$  and  $2.4\%$ . On the other hand, the likelihood of respondents who are married or living with a partner behaving more pro-environmentally than single respondents is increased by  $5\%$  at most. Also, the likelihood of opposite situation can be increased by  $7.8\%$  at most. Meanwhile, the probability of the environmental behavior of small town and urban residents more than rural residents can be increased by  $6.11\%$  at most. However, the probability of the environmental behavior of small town and urban residents less than rural residents can be increased by  $9.4\%$  at most. Lastly, the probability that respondents who are not very satisfied with their lives behave more pro-environmentally than respondents who are very satisfied with their lives is  $0.038$ .

**Table 3 : Regression results of logit models**

Dependent variable	<b>Model 1</b> <b>eco_travel</b>		<b>Model 2</b> <b>eco_purchase products</b>		<b>Model 3</b> <b>recycling</b>		<b>Model 4</b> <b>w_e_consumption</b>	
Independent variable	p-value	Marginal Effect	p-value	Marginal Effect	p-value	Marginal Effect	p-value	Marginal Effect
age	<b>0.006</b>	<b>0.003</b>	0.557	-0.0009	<b>0.088</b>	<b>0.002</b>	0.327	0.001
men	0.530	-0.209	0.567	0.025	0.115	-0.065	0.694	-0.018
middle	<b>0.008</b>	<b>-0.100</b>	0.410	0.041	0.689	0.018	0.944	-0.003
uppermiddle	0.298	-0.068	<b>0.050</b>	<b>0.259</b>	0.396	0.106	0.951	0.07
high	<b>0.000</b>	<b>0.174</b>	<b>0.033</b>	<b>0.121</b>	<b>0.005</b>	<b>0.149</b>	0.599	0.032
uni_master_phd	<b>0.000</b>	<b>0.302</b>	<b>0.005</b>	<b>0.200</b>	<b>0.000</b>	<b>0.288</b>	0.660	0.033
hh_child	0.33	-0.351	0.740	-0.017	0.631	-0.0241	0.679	0.022
Limassol	0.838	0.008	0.397	-0.043	<b>0.032</b>	<b>0.112</b>	0.479	-0.04
Larnaca	<b>0.018</b>	<b>0.124</b>	<b>0.001</b>	<b>0.233</b>	0.123	0.102	0.402	0.062
Paphos	<b>0.036</b>	<b>0.143</b>	<b>0.001</b>	<b>0.332</b>	0.787	0.0211	0.153	-0.127
Famagusta	0.112	0.143	<b>0.003</b>	<b>0.357</b>	<b>0.001</b>	<b>0.341</b>	<b>0.001</b>	<b>0.512</b>
married_partner	<b>0.068</b>	<b>0.188</b>	<b>0.037</b>	<b>0.205</b>	0.683	0.043	0.253	0.126
divorced	0.195	0.150	<b>0.095</b>	<b>0.182</b>	0.946	-0.008	0.829	0.027
small_town	<b>0.026</b>	<b>0.099</b>	0.755	0.018	<b>0.000</b>	<b>0.293</b>	<b>0.021</b>	<b>0.138</b>
urban	<b>0.000</b>	<b>0.175</b>	0.993	0.0005	<b>0.000</b>	<b>0.192</b>	<b>0.066</b>	<b>0.112</b>
Int_often	0.804	0.013	0.305	0.079	0.573	-0.03	0.641	-0.036
Int_never	0.241	0.049	<b>0.058</b>	<b>0.102</b>	0.677	-0.02	0.753	-0.018
L_not_very_satisfied	0.688	0.023	<b>0.048</b>	<b>0.142</b>	0.755	-0.02	0.746	-0.025
L_not_all_satisfied	0.350	0.121	0.770	0.061	0.710	-0.07	0.974	-0.005

Firstly, based on the results of **Model 1** (environmentally way of travelling ), age increases the probability of using environmentally way of travelling by 0.3 %, holding else constant. Being a middle-income class decreased the probability of using environmentally way of travelling by 10% compared to being lower middle income class. Moreover, being a high school and

university-master-phd graduate increased the probability of environmentally travelling by 17.4 and 30.2 %, compared to being primary-secondary school graduate. In addition, living in Larnaca and Paphos increases the probability of choosing environmentally way of travelling by 12.4% and 14.3% respectively, compared to living in Nicosia. For marital status, being married or living with a partner increases the likelihood of choosing environmentally way of travelling by 18.8%. Also, living in a small town and urban increases the probability of choosing environmentally way of travelling by 9.9% and 17.5% respectively, compared to living in rural areas.

Secondly, based on the results of **Model 2** (showing environmental purchasing behavior), being an upper-middle income class increases the probability of showing environmental purchasing behavior by 25.9%, compared to being a lower-middle income class. For education, , being a high school and university-master-phd graduate increased the probability of showing environmental purchasing behavior by 12.1% and 20% respectively, compared to being primary-secondary school graduate. In addition to that, living in Larnaca, Paphos and Famagusta increases the likelihood of showing environmental purchasing behavior by 23.3%, 33.2% and 35.7%, compared to living in Nicosia. On the other hand, being a married or living with a partner and divorced increases the probability of showing environmental purchasing behavior by 20.5% and 18.2%, compared to being single. For internet usage, never using internet increases the probability of showing environmental purchasing behavior by 10.2% ,compared to using internet everyday. Being not very satisfied with life also increases the likelihood of showing environmental purchasing behavior by 14.2% compared to being fully satisfied with life.

Thirdly, based on the results of **Model 3** ( recycling), age increases the probability of recycling by 0.2% at the 8.8% significance level, holding else constant. On the other hand, being a high school and university-master-phd graduate increases the likelihood of recycling by 14.9% and

28.8% respectively compared to being a primary-secondary school graduate. If we look at the districts of Cyprus, it can be seen that living in Limassol and Famagusta increases the probability of recycling by 11.2% and 34.1% severally compared to living in Nicosia. Also, being a resident in small towns and urban cities increases the likeliness of recycling by 29.3% and 19.2 % compared to being a resident in rural areas.

Lastly, based on the results of **Model 4** ( cutting down water and energy consumption), living in Famagusta increases the likelihood of cutting down water and energy consumption by 51.2% compared to living in Nicosia. In addition to that, being a resident in small towns increases the probability of cutting down water and energy consumption by 13.8% whereas being a resident in urban cities increases the likelihood by 11.2% , compared to being a resident in rural areas.

It is clearly seen that when education level increases the probability of behaving pro-environmentally in terms of travelling, purchasing and recycling increases. Thus, *Hypothesis 1* is supported due to evidence from **Model 1,2** and **3**. However, an evidence cannot be found to support or reject *Hypothesis 2* due to statistical insignificance of the coefficients in all models. In addition, *Hypothesis 3* is supported by the findings of **Model 1** and **3**. Therefore, age has a small effect on the likelihood of behaving pro-environmentally on travelling and recycling. *Hypothesis 4* is rejected due to findings of **Model 1,3** and **4**. It can be said that urban residents behave more pro-environmentally in terms of travelling, recycling and water-energy consumption than rural residents. *Hypothesis 5* is also rejected by the findings of **Model 1** and **2**. The probability that married people behave more pro-environmentally than single people in terms of pro-environmentally travelling and purchasing behavior is almost 10%. Lastly, there is no statistically significant evidence found to neither support nor reject the *Hypothesis 6*.

## 5. Conclusion

This study measures the pro-environmental behavior of the Greek Cypriots by using the Eurobarometer 88.1 which is collected in 2017. Logit regressions are used to measure the level of pro-environmental behavior of respondents.

Evidence from different logit models is found to support *Hypothesis 1* (Education has a positive effect on pro-environmental behavior). It was expected to find such a connection between education and pro-environmental behavior and the result is in line with Meyer(2015), Chankrajang & Mutarrak (2016) and Varoglu et al. (2017). On the other hand, no statistical evidence is found to neither support *Hypothesis 2* ( Women behave more pro-environmentally than men ) nor reject it. *Hypothesis 3* (Older people behave more pro-environmentally than young people ) is supported due to findings of Model 1 and 3 which includes age variable at 8.8 percent significance level. The result is in line with the cohort effect in the paper of Gifford & Nilson (2014). In addition, the evidence is against *Hypothesis 4* ( Rural residents behave more pro-environmentally than urban residents ). This result is in line with Chen et al. (2011) and Gifford & Nilson (2014). Moreover, *Hypothesis 5* (Single people behave more pro-environmentally than married people ) is not supported since the results show the opposite, i.e that Cypriots who are married or living with a partner behave more pro-environmentally than single ones. Thus, it can be said that this result clashes with most of the findings of the literature. Unfortunately, *Hypothesis 6* ( People with children behave more pro-environmentally than others ) is also not rejected or supported due to statistical insignificance of coefficients. In addition, other results of the models indicate that there is a high probability that respondents in Larnaca , Paphos and Famagusta behave more pro-environmentally than respondents in Nicosia. Also, there is a low probability on the facts that internet usage and life satisfaction level decreases the pro-environmental purchasing behavior.



Since the effects of environmental problems have been increasing in a strong way, there should be some policies done by the government to reduce the effect of these problems. Based on my findings, as a policy recommendation, the concept of “environmental issues” should occupy a more important place in the education system and people should be encouraged to complete at least high school. Also, I think there should be more environmental indicators and supervision around the Nicosia area because touristic cities like Larnaca are better at pro-environmental behavior. On the other hand, I think there should be more supervision in farming sector around the villages because the results of the model indicate that rural residents behave less pro-environmentally than other residents. This might be because of the harmful substances used by farmers which damage the ecological balance of the environment.

## REFERENCE LIST

- Autio, Minna & Heiskanen, Eva & Heinonen, Visa. (2009). Narratives of 'green' consumers - The antihero, the environmental hero and the anarchist. *Journal of Consumer Behaviour*. 8. 40 - 53. 10.1002/cb.272.
- Casaló, L. V., & Escario, J. J. (2018). Heterogeneity in the association between environmental attitudes and pro-environmental behavior: A multilevel regression approach. *Journal of Cleaner Production*, 175, 155–163. <https://doi.org/10.1016/j.jclepro.2017.11.237>
- Chankrajang, Thanyaporn & Muttarak, Raya. (2017). Green Returns to Education: Does Schooling Contribute to Pro-Environmental Behaviours? Evidence from Thailand. *Ecological Economics*. 131. 10.1016/j.ecolecon.2016.09.015.
- Chen, X., Peterson, M., Hull, V., Lu, C., Lee, G., Hong, D., & Liu, J. (2011). Effects of attitudinal and sociodemographic factors on pro-environmental behaviour in urban China. *Environmental Conservation*, 38(1), 45-52.
- Diamantopoulos, A., Schlegelmilch, B. B., Sinkovics, R. R., & Bohlen, G. M. (2003). Can socio-demographics still play a role in profiling green consumers? A review of the evidence and an empirical investigation. *Journal of Business research*, 56(6), 465-480.
- Ergun, SJ, Rivas, MF. The effect of social roles, religiosity, and values on climate change concern: An empirical analysis for Turkey. *Sustainable Development*. 2019; 1– 12.
- García-Valiñas, M. A., Macintyre, A., & Torgler, B. (2012). Volunteering, pro-environmental attitudes and norms. *The Journal of Socio-Economics*, 41(4), 455-467.

- Gifford, R., & Nilsson, A. (2014). Personal and social factors that influence pro-environmental concern and behavior: A review. *International Journal of Psychology*, 49(3), 141–157. <https://doi.org/10.1002/ijop.12034>
- Hinds, J., & Sparks, P. (2008). Engaging with the natural environment: The role of affective connection and identity. *Journal of environmental psychology*, 28(2), 109-120.
- Marie-Line, F., & Maja, B. (2008). Pro-environmental attitudes and behavior: Revealing perceived social desirability. *Revue Internationale de Psychologie Sociale*, 21(4), 25–53. Retrieved from [www.cairn.info/revue-internationale-de-psychologie-sociale-2008-4-page-25.htm](http://www.cairn.info/revue-internationale-de-psychologie-sociale-2008-4-page-25.htm)
- McLeod, S. A. (2018, May 21). Attitudes and behavior. Retrieved from <https://www.simplypsychology.org/attitudes.html>
- Meyer, Andrew, (2015), Does education increase pro-environmental behavior? Evidence from Europe, *Ecological Economics*, 116, issue C, p. 108-121,
- Paço, A. and Gouveia Rodrigues, R. (2016), Environmental activism and consumers' perceived responsibility. *International Journal of Consumer Studies*, 40: 466-474. doi:10.1111/ijcs.12272
- Rhead, R. (2015). Concern for the natural environment and its effect on pro-environmental behaviour amongst the British Public, 1–439.
- Varoglu, L., Temel, S., Yilmaz, A. (2018). Knowledge, Attitudes and Behaviours towards the Environmental Issues: Case of Northern Cyprus. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(3), 997-1004.

## APPENDIX

### Appendix 1a-Results of the Ordered logit and 4 logit models (Stata Output)

```
Iteration 0: log pseudolikelihood = -914.97874
Iteration 1: log pseudolikelihood = -866.70229
Iteration 2: log pseudolikelihood = -865.93877
Iteration 3: log pseudolikelihood = -865.93787
Iteration 4: log pseudolikelihood = -865.93787
```

```
Ordered logistic regression      Number of obs      =      471
                                Wald chi2(19)             =      121.05
                                Prob > chi2                =      0.0000
Log pseudolikelihood = -865.93787  Pseudo R2           =      0.0536
```

index_dependent	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0105	.0062581	1.68	0.093	-.0017656	.0227655
men	-.1327885	.1771923	-0.75	0.454	-.480079	.214502
middle	.021467	.2108367	0.10	0.919	-.3917654	.4346994
uppermiddle	.7065665	.4090412	1.73	0.084	-.0951396	1.508273
high	.7064694	.2312101	3.06	0.002	.2533059	1.159633
uni_master_phd	1.242945	.2790307	4.45	0.000	.6960549	1.789835
hh_child	-.1090427	.2262382	-0.48	0.630	-.5524613	.334376
Limassol	.0315058	.208626	0.15	0.880	-.3773935	.4404052
Larnaca	1.017662	.2918216	3.49	0.000	.4457021	1.589622
Paphos	.691063	.3852851	1.79	0.073	-.0640819	1.446208
Famagusta	2.290325	.3254409	7.04	0.000	1.652472	2.928177
married_partner	.7434624	.3250439	2.29	0.022	.106388	1.380537
divorced	.3669752	.3757602	0.98	0.329	-.3695011	1.103452
small_town	.9493643	.2285266	4.15	0.000	.5014603	1.397268
urban	.8972497	.2252314	3.98	0.000	.4558042	1.338695
int_often	.1306036	.2821182	0.46	0.643	-.422338	.6835452
int_never	-.0290556	.229802	-0.13	0.899	-.4794591	.421348
l_not_very_satisfied	.5682681	.2937644	1.93	0.053	-.0074995	1.144036
l_not_all_satisfied	.1741234	.4655303	0.37	0.708	-.7382991	1.086546
/cut1	.667653	.4310921			-.177272	1.512578
/cut2	1.832655	.4298578			.9901492	2.675161
/cut3	2.830661	.4420562			1.964247	3.697075
/cut4	3.906889	.460514			3.004298	4.80948
/cut5	4.885788	.4683775			3.967785	5.803791
/cut6	5.793967	.4924765			4.828731	6.759203
/cut7	6.538269	.5065684			5.545414	7.531125
/cut8	7.330048	.5791641			6.194907	8.465188
/cut9	8.607098	.7860059			7.066555	10.14764

```
.
. *marginal effects.
.
. margins, dydx(*) predict(outcome(0))
```

```
Average marginal effects      Number of obs      =      471
Model VCE      : Robust
```

```
Expression      : Pr(index dependent==0), predict(outcome(0))
dy/dx w.r.t.    : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
                  Famagusta married_partner divorced small_town urban int_often int_never
                  l_not_very_satisfied l_not_all_satisfied
```



```

middle | -.0006624 .0064971 -0.10 0.919 -.0133964 .0120717
uppermiddle | -.0218013 .0124409 -1.75 0.080 -.0461851 .0025825
high | -.0217983 .0092023 -2.37 0.018 -.0398344 -.0037622
uni_master_phd | -.0383514 .0125911 -3.05 0.002 -.0630296 -.0136732
hh_child | .0033645 .007076 0.48 0.634 -.0105041 .0172332
Limassol | -.0009721 .0064097 -0.15 0.879 -.013535 .0115907
Larnaca | -.0314002 .0118424 -2.65 0.008 -.0546109 -.0081896
Paphos | -.0213229 .0130095 -1.64 0.101 -.0468211 .0041752
Famagusta | -.0706686 .0174009 -4.06 0.000 -.1047738 -.0365635
married_partner | -.0229397 .012093 -1.90 0.058 -.0466416 .0007621
divorced | -.0113231 .0123132 -0.92 0.358 -.0354565 .0128103
small_town | -.0292929 .0092091 -3.18 0.001 -.0473425 -.0112434
urban | -.0276849 .0097908 -2.83 0.005 -.0468744 -.0084954
int_often | -.0040298 .0087793 -0.46 0.646 -.0212369 .0131773
int_never | .0008965 .0071054 0.13 0.900 -.0130298 .0148229
l_not_very_satisfied | -.0175341 .0095347 -1.84 0.066 -.0362218 .0011536
l_not_all_satisfied | -.0053726 .0143297 -0.37 0.708 -.0334584 .0227131
-----

```

```
. margins, dydx(*) predict(outcome(3))
```

```

Average marginal effects      Number of obs      =      471
Model VCE      : Robust

```

```

Expression      : Pr(index_dependent==3), predict(outcome(3))
dy/dx w.r.t. : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

```

-----
|               Delta-method
|               dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
age | .0004381 .0002725   1.61  0.108   -.000096 .0009722
men | -.0055405 .0073599  -0.75  0.452   -.0199657 .0088846
middle | .0008957 .0088032   0.10  0.919   -.0163583 .0181497
uppermiddle | .0294812 .0186398   1.58  0.114   -.0070522 .0660146
high | .0294772 .0098516   2.99  0.003   .0101683 .048786
uni_master_phd | .0518614 .0134168   3.87  0.000   .0255649 .0781579
hh_child | -.0045498 .0093763  -0.49  0.628   -.022927 .0138275
Limassol | .0013146 .0087628   0.15  0.881   -.0158602 .0184893
Larnaca | .0424615 .0145516   2.92  0.004   .013941 .0709821
Paphos | .0288343 .0166132   1.74  0.083   -.0037269 .0613956
Famagusta | .0955629 .0221814   4.31  0.000   .0520882 .1390376
married_partner | .0310207 .0136951   2.27  0.024   .0041787 .0578627
divorced | .0153119 .0156312   0.98  0.327   -.0153246 .0459484
small_town | .0396118 .0111126   3.56  0.000   .0178316 .0613921
urban | .0374374 .0098407   3.80  0.000   .0181501 .0567247
int_often | .0054494 .0118613   0.46  0.646   -.0177983 .0286971
int_never | -.0012123 .0096076  -0.13  0.900   -.0200429 .0176182
l_not_very_satisfied | .0237108 .0128601   1.84  0.065   -.0014945 .048916
l_not_all_satisfied | .0072652 .0194336   0.37  0.709   -.0308238 .0453543
-----

```

```
. margins, dydx(*) predict(outcome(4))
```

```

Average marginal effects      Number of obs      =      471
Model VCE      : Robust

```

```

Expression      : Pr(index_dependent==4), predict(outcome(4))
dy/dx w.r.t. : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

```

-----
|               Delta-method
|               dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
age | .0007159 .0004287   1.67  0.095   -.0001243 .0015561
men | -.0090537 .0122105  -0.74  0.458   -.0329858 .0148785
middle | .0014636 .0143821   0.10  0.919   -.0267247 .029652
uppermiddle | .0481745 .0283152   1.70  0.089   -.0073223 .1036712
high | .0481678 .0159404   3.02  0.003   .0169253 .0794104
uni_master_phd | .0847453 .0192438   4.40  0.000   .0470281 .1224625
hh_child | -.0074346 .0153649  -0.48  0.628   -.0375494 .0226801
-----

```

```

Limassol | .0021481 .01423 0.15 0.880 -.0257422 .0300384
Larnaca | .0693853 .0212356 3.27 0.001 .0277642 .1110063
Paphos | .0471174 .0266957 1.76 0.078 -.0052053 .0994401
Famagusta | .1561568 .026806 5.83 0.000 .1036179 .2086956
married_partner | .0506901 .0222845 2.27 0.023 .0070131 .094367
divorced | .0250208 .025684 0.97 0.330 -.0253189 .0753604
small_town | .0647287 .0169111 3.83 0.000 .0315836 .0978738
urban | .0611754 .0165004 3.71 0.000 .0288352 .0935157
int_often | .0089047 .0193102 0.46 0.645 -.0289427 .0467521
int_never | -.001981 .0156695 -0.13 0.899 -.0326926 .0287305
l_not_very_satisfied | .0387451 .0199649 1.94 0.052 -.0003854 .0778757
l_not_all_satisfied | .0118719 .0317484 0.37 0.708 -.0503537 .0740976

```

```
. margins, dydx(*) predict(outcome(5))
```

```

Average marginal effects          Number of obs    =          471
Model VCE      : Robust

```

```

Expression   : Pr(index_dependent==5), predict(outcome(5))
dy/dx w.r.t. : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

		Delta-method				[95% Conf. Interval]	
	dy/dx	Std. Err.	z	P> z			
age	.0005374	.0003273	1.64	0.101	-.0001042	.001179	
men	-.0067965	.0091214	-0.75	0.456	-.0246742	.0110811	
middle	.0010988	.010771	0.10	0.919	-.020012	.0222095	
uppermiddle	.0361644	.0212915	1.70	0.089	-.0055662	.077895	
high	.0361594	.0130523	2.77	0.006	.0105773	.0617415	
uni_master_phd	.063618	.0176329	3.61	0.000	.0290581	.0981778	
hh_child	-.0055812	.0116427	-0.48	0.632	-.0284004	.0172381	
Limassol	.0016126	.0106817	0.15	0.880	-.0193232	.0225484	
Larnaca	.0520873	.016587	3.14	0.002	.0195774	.0845971	
Paphos	.0353709	.0210558	1.68	0.093	-.0058977	.0766394	
Famagusta	.1172263	.0230743	5.08	0.000	.0720015	.1624511	
married_partner	.0380528	.0178875	2.13	0.033	.0029939	.0731118	
divorced	.018783	.0195788	0.96	0.337	-.0195907	.0571566	
small_town	.0485916	.0137568	3.53	0.000	.0216288	.0755543	
urban	.0459242	.013445	3.42	0.001	.0195725	.0722758	
int_often	.0066847	.0145279	0.46	0.645	-.0217894	.0351588	
int_never	-.0014872	.0117377	-0.13	0.899	-.0244926	.0215182	
l_not_very_satisfied	.0290858	.0152429	1.91	0.056	-.0007898	.0589614	
l_not_all_satisfied	.0089122	.0237922	0.37	0.708	-.0377197	.0555441	

```
. margins, dydx(*) predict(outcome(6))
```

```

Average marginal effects          Number of obs    =          471
Model VCE      : Robust

```

```

Expression   : Pr(index_dependent==6), predict(outcome(6))
dy/dx w.r.t. : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

		Delta-method				[95% Conf. Interval]	
	dy/dx	Std. Err.	z	P> z			
age	.0002747	.0001736	1.58	0.114	-.0000656	.000615	
men	-.0034738	.0047626	-0.73	0.466	-.0128084	.0058608	
middle	.0005616	.0055088	0.10	0.919	-.0102355	.0113587	
uppermiddle	.0184842	.0111611	1.66	0.098	-.0033912	.0403596	
high	.0184817	.0075679	2.44	0.015	.0036488	.0333146	
uni_master_phd	.0325162	.0107646	3.02	0.003	.011418	.0536145	
hh_child	-.0028526	.0059923	-0.48	0.634	-.0145973	.0088921	
Limassol	.0008242	.0054351	0.15	0.879	-.0098283	.0114768	
Larnaca	.0266227	.0098317	2.71	0.007	.0073529	.0458925	
Paphos	.0180786	.0107001	1.69	0.091	-.0028932	.0390505	
Famagusta	.0599164	.0156508	3.83	0.000	.0292413	.0905914	
married_partner	.0194494	.0101688	1.91	0.056	-.000481	.0393798	

```

divorced | .0096003 .0102321 0.94 0.348 -.0104543 .0296549
small_town | .024836 .0085606 2.90 0.004 .0080575 .0416145
urban | .0234726 .0084166 2.79 0.005 .0069764 .0399689
int_often | .0034167 .0073887 0.46 0.644 -.0110649 .0178983
int_never | -.0007601 .0060271 -0.13 0.900 -.012573 .0110527
l_not_very_satisfied | .0148663 .0081542 1.82 0.068 -.0011157 .0308482
l_not_all_satisfied | .0045552 .0122222 0.37 0.709 -.0193999 .0285103
-----

```

```
. margins, dydx(*) predict(outcome(7))
```

```

Average marginal effects      Number of obs      =      471
Model VCE      : Robust

```

```

Expression      : Pr(index_dependent==7), predict(outcome(7))
dy/dx w.r.t.    : age men middle uppermiddle high uni master phd hh child Limassol
Larnaca Paphos
Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

```

-----
|              |              Delta-method
|              |              dy/dx      Std. Err.      z      P>|z|      [95% Conf. Interval]
-----+-----
age | .0001629 .0001149      1.42      0.156      -.0000622 .0003881
men | -.0020607 .0027916     -0.74      0.460     -.0075322 .0034107
middle | .0003331 .0032824      0.10      0.919     -.0061002 .0067665
uppermiddle | .0109651 .0069748      1.57      0.116     -.0027052 .0246354
high | .0109636 .0056543      1.94      0.053     -.0001187 .0220459
uni_master_phd | .0192891 .0080683      2.39      0.017      .0034754 .0351027
hh_child | -.0016922 .0035935     -0.47      0.638     -.0087354 .0053509
Limassol | .0004889 .0032162      0.15      0.879     -.0058147 .0067926
Larnaca | .0157929 .0066776      2.37      0.018      .0027051 .0288808
Paphos | .0107245 .0065899      1.63      0.104     -.0021915 .0236405
Famagusta | .0355432 .0127321      2.79      0.005      .0105888 .0604976
married_partner | .0115377 .0065369      1.77      0.078     -.0012745 .0243498
divorced | .005695 .006226      0.91      0.360     -.0065077 .0178978
small_town | .014733 .0063564      2.32      0.020      .0022748 .0271913
urban | .0139243 .0061273      2.27      0.023     -.0019149 .0259336
int_often | .0020268 .0043798      0.46      0.644     -.0065574 .0106111
int_never | -.0004509 .0035556     -0.13      0.899     -.0074197 .0065179
l_not_very_satisfied | .0088189 .0057896      1.52      0.128     -.0025285 .0201663
l_not_all_satisfied | .0027022 .0073164      0.37      0.712     -.0116377 .017042
-----

```

```
. margins, dydx(*) predict(outcome(8))
```

```

Average marginal effects      Number of obs      =      471
Model VCE      : Robust

```

```

Expression      : Pr(index_dependent==8), predict(outcome(8))
dy/dx w.r.t.    : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

```

-----
|              |              Delta-method
|              |              dy/dx      Std. Err.      z      P>|z|      [95% Conf. Interval]
-----+-----
age | .0001087 .0000784      1.39      0.166     -.000045 .0002623
men | -.0013745 .0019412     -0.71      0.479     -.0051792 .0024302
middle | .0002222 .0021865      0.10      0.919     -.0040632 .0045076
uppermiddle | .0073138 .0053987      1.35      0.175     -.0032674 .017895
high | .0073128 .0040379      1.81      0.070     -.0006014 .0152269
uni master_phd | .0128659 .0063498      2.03      0.043      .0004206 .0253113
hh_child | -.0011287 .0024276     -0.46      0.642     -.0058867 .0036293
Limassol | .0003261 .0021502      0.15      0.879     -.0038882 .0045404
Larnaca | .010534 .0055834      1.89      0.059     -.0004093 .0214773
Paphos | .0071533 .0049518      1.44      0.149     -.002552 .0168586
Famagusta | .0237075 .0106816      2.22      0.026      .002772 .0446431
married_partner | .0076957 .0049306      1.56      0.119     -.001968 .0173594
divorced | .0037986 .0043661      0.87      0.384     -.0047588 .0123561
small_town | .009827 .0047607      2.06      0.039      .0004962 .0191579
urban | .0092876 .0047739      1.95      0.052     -.0000691 .0186443
int_often | .0013519 .0029337      0.46      0.645     -.0043981 .0071019
int_never | -.0003008 .0023943     -0.13      0.900     -.0049935 .004392
-----

```



```

l_not_very_satisfied | .0058822 .0040839 1.44 0.150 -.002122 .0138865
l_not_all_satisfied | .0018024 .0048818 0.37 0.712 -.0077658 .0113705
-----

```

```

. margins, dydx(*) predict(outcome(9))

```

```

Average marginal effects          Number of obs   =          471
Model VCE      : Robust

```

```

Expression      : Pr(index dependent==9), predict(outcome(9))
dy/dx w.r.t.    : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
                  Famagusta married_partner divorced small_town urban int_often int_never
                  l_not_very_satisfied l_not_all_satisfied

```

```

-----
|               |               Delta-method
|               |               dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
| age |      .0000447   .0000449      1.00   0.319    - .0000432   .0001327
| men |     -.0005657   .0008523     -0.66   0.507    - .0022363   .0011048
| middle | .0000915   .0009052      0.10   0.920    - .0016826   .0018656
| uppermiddle | .0030102   .0027005      1.11   0.265    - .0022826   .0083031
| high | .0030098   .0024098      1.25   0.212    - .0017133   .0077733
| uni_master_phd | .0052954   .0039931      1.33   0.185    - .0025309   .0131217
| hh_child | -.0004646   .0010072     -0.46   0.645    - .0024386   .0015095
| Limassol | .0001342   .0009018      0.15   0.882    - .0016334   .0019018
| Larnaca | .0043356   .0032885      1.32   0.187    - .0021097   .0107809
| Paphos | .0029442   .0026336      1.12   0.264    - .0022176   .008106
| Famagusta | .0097576   .0073251      1.33   0.183    - .0045994   .0241147
| married_partner | .0031674   .0025767      1.23   0.219    - .0018829   .0082177
| divorced | .0015635   .0018848      0.83   0.407    - .0021306   .0052575
| small_town | .0040446   .0029242      1.38   0.167    - .0016867   .009776
| urban | .0038226   .0028368      1.35   0.178    - .0017373   .0093826
| int_often | .0005564   .0012422      0.45   0.654    - .0018783   .0029911
| int_never | -.0001238   .0009912     -0.12   0.901    - .0020665   .0018189
| l_not_very_satisfied | .002421   .0021012      1.15   0.249    - .0016973   .0065394
| l_not_all_satisfied | .0007418   .002047      0.36   0.717    - .0032701   .0047538
-----

```

```

.
.
.
. * logits.
.
. logit eco_travel age men middle uppermiddle high uni_master_phd hh_child Limassol ///
> Larnaca Paphos Famagusta married_partner divorced small_town urban int_often
int_never l_not_very_sati
> sfied ///
> l_not_all_satisfied, robust

```

```

Iteration 0:  log pseudolikelihood = -203.12672
Iteration 1:  log pseudolikelihood = -176.9439
Iteration 2:  log pseudolikelihood = -173.49427
Iteration 3:  log pseudolikelihood = -173.43625
Iteration 4:  log pseudolikelihood = -173.43598
Iteration 5:  log pseudolikelihood = -173.43598

```

```

Logistic regression          Number of obs   =          471
                             Wald chi2(19)   =          56.13
                             Prob > chi2     =          0.0000
Log pseudolikelihood = -173.43598          Pseudo R2    =          0.1462

```

```

-----
|               |               Robust
|               |               Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
| eco_travel |
| age |      .0306179   .0112164      2.73   0.006    .0086341   .0526016
| men |     -.1847439   .2944053     -0.63   0.530    - .7617677   .3922799
| middle | -.8850398   .3447912     -2.57   0.010    -1.560818   -.2092615
| uppermiddle | -.6037522   .5812996     -1.04   0.299    -1.743078   .5355741
| high |      1.54398   .4557254      3.39   0.001    .6507746   2.437185
| uni_master_phd | 2.669719   .5289239      5.05   0.000    1.633047   3.70639
| hh_child | -.3100259   .3204925     -0.97   0.333    - .9381796   .3181278
| Limassol | .0748101   .3655483      0.20   0.838    - .6416515   .7912717
| Larnaca | 1.101015   .4660969      2.36   0.018    .1874816   2.014548
| Paphos | 1.270008   .6100494      2.08   0.037    .074333   2.465683
-----

```

```

Famagusta | 1.267147 .7974186 1.59 0.112 -.2957643 2.830059
married_partner | 1.664449 .9059219 1.84 0.066 -.1111254 3.440023
divorced | 1.327636 1.015487 1.31 0.191 -.6626825 3.317955
small_town | .8812206 .3936503 2.24 0.025 .1096801 1.652761
urban | 1.549275 .3862423 4.01 0.000 .7922535 2.306296
int_often | .1180858 .4756577 0.25 0.804 -.8141861 1.050358
int_never | .4377568 .3777432 1.16 0.247 -.3026064 1.17812
l_not_very_satisfied | .2075111 .516378 0.40 0.688 -.8045712 1.219593
l_not_all_satisfied | 1.075808 1.153351 0.93 0.351 -1.184718 3.336334
cons | -7.36122 1.073721 -6.86 0.000 -9.465674 -5.256765
-----

```

```

.
. margins, dydx(*)

```

```

Average marginal effects          Number of obs    =          471
Model VCE      : Robust

```

```

Expression      : Pr(eco_travel), predict()
dy/dx w.r.t.   : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied

```

```

-----
|               Delta-method
|               dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
age |      .0034694   .0012523     2.77   0.006     .0010149     .005924
men |     -.0209341   .0333189    -0.63   0.530    -.0862379     .0443697
middle |    -.1002875   .0380308    -2.64   0.008    -.1748264    -.0257486
uppermiddle |   -.0684136   .0657682    -1.04   0.298    -.197317     .0604898
high |     .1749547   .0498115     3.51   0.000     .077326     .2725833
uni_master_phd |   .3025167   .0551497     5.49   0.000     .1944253     .4106081
hh_child |   -.0351303   .0361365    -0.97   0.331    -.1059565     .0356959
Limassol |     .008477   .0414385     0.20   0.838    -.0727409     .0896949
Larnaca |     .1247605   .0526433     2.37   0.018     .0215815     .2279395
Paphos |     .1439098   .0686846     2.10   0.036     .0092904     .2785291
Famagusta |   .1435856   .0903864     1.59   0.112    -.0335684     .3207397
married_partner |   .1886055   .1033724     1.82   0.068    -.0140006     .3912116
divorced |   .1504399   .1160176     1.30   0.195    -.0769505     .3778302
small_town |   .0998547   .0448177     2.23   0.026     .0120136     .1876958
urban |   .1755546   .0431425     4.07   0.000     .0909969     .2601123
int_often |   .0133808   .0538128     0.25   0.804    -.0920903     .1188518
int_never |   .049604   .0423344     1.17   0.241    -.0333698     .1325778
l_not_very_satisfied |   .0235139   .0586476     0.40   0.688    -.0914332     .138461
l_not_all_satisfied |   .1219042   .1305275     0.93   0.350    -.133925     .3777334
-----

```

```

.
.
.
. logit eco_purchase_products age men middle uppermiddle high uni_master_phd
hh_child Limassol ///
> Larnaca Paphos Famagusta married_partner divorced small_town urban int_often
int_never l_not_very_sati
> sfied ///
> l_not_all_satisfied, robust

```

```

Iteration 0:  log pseudolikelihood = -315.11859
Iteration 1:  log pseudolikelihood = -279.22906
Iteration 2:  log pseudolikelihood = -278.64374
Iteration 3:  log pseudolikelihood = -278.64137
Iteration 4:  log pseudolikelihood = -278.64137

```

```

Logistic regression          Number of obs    =          471
Wald chi2(19)                =          64.02
Prob > chi2                  =          0.0000
Log pseudolikelihood = -278.64137  Pseudo R2      =          0.1158

```

```

-----
|               Robust
|               Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
eco_purchase_products |
age |     -.0046671   .0079517    -0.59   0.557    -.0202521     .010918
men |     .1249416   .218708     0.57   0.568    -.3037183     .5536014
middle |     .2035038   .2476728     0.82   0.411    -.2819261     .6889336

```

uppermiddle		1.275695	.656276	1.94	0.052	-.0105822	2.561973
high		.5941043	.2841293	2.09	0.037	.0372211	1.150987
uni_master_phd		.9856155	.3614588	2.73	0.006	.2771693	1.694062
hh_child		-.0848417	.2557072	-0.33	0.740	-.5860185	.4163352
Limassol		-.2158336	.2558513	-0.84	0.399	-.7172929	.2856257
Larnaca		1.146757	.3501987	3.27	0.001	.4603807	1.833134
Paphos		1.632711	.5305739	3.08	0.002	.5928051	2.672616
Famagusta		1.757386	.6099375	2.88	0.004	.5619301	2.952841
married_partner		1.010722	.4916717	2.06	0.040	.0470633	1.974381
divorced		.8947595	.5415436	1.65	0.098	-.1666465	1.956165
small_town		.089879	.28822	0.31	0.755	-.4750219	.6547798
urban		.0024801	.2851793	0.01	0.993	-.5564611	.5614212
int_often		.3894073	.3813801	1.02	0.307	-.358084	1.136899
int_never		.5041012	.2682798	1.88	0.060	-.0217175	1.02992
l_not_very_satisfied		.69939	.3571781	1.96	0.050	-.0006663	1.399446
l_not_all_satisfied		.3016816	1.034105	0.29	0.770	-1.725128	2.328491
_cons		-1.492769	.6454352	-2.31	0.021	-2.757798	-.2277388

```
.
. margins, dydx(*)
```

```
Average marginal effects          Number of obs    =          471
Model VCE      : Robust
```

```
Expression      : Pr(eco_purchase_products), predict()
dy/dx w.r.t.    : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos  Famagusta married_partner divorced small_town urban int_often int_never
l_not_very_satisfied l_not_all_satisfied
```

		Delta-method				[95% Conf. Interval]	
		dy/dx	Std. Err.	z	P> z		
age		-.0009506	.0016203	-0.59	0.557	-.0041263	.0022251
men		.025449	.0444563	0.57	0.567	-.0616837	.1125816
middle		.0414511	.0503565	0.82	0.410	-.0572459	.1401481
uppermiddle		.2598425	.1325003	1.96	0.050	.0001467	.5195383
high		.1210113	.0567867	2.13	0.033	.0097114	.2323113
uni_master_phd		.200757	.070889	2.83	0.005	.0618172	.3396969
hh_child		-.0172811	.0520716	-0.33	0.740	-.1193397	.0847774
Limassol		-.0439625	.0519586	-0.85	0.397	-.1457995	.0578745
Larnaca		.2335796	.069207	3.38	0.001	.0979364	.3692227
Paphos		.3325619	.1037243	3.21	0.001	.129266	.5358578
Famagusta		.3579566	.1207533	2.96	0.003	.1212845	.5946287
married_partner		.2058709	.0984935	2.09	0.037	.0128271	.3989147
divorced		.1822509	.1091659	1.67	0.095	-.0317103	.396212
small_town		.0183072	.0587501	0.31	0.755	-.096841	.1334553
urban		.0005052	.0580879	0.01	0.993	-.1133451	.1143554
int_often		.0793172	.0773612	1.03	0.305	-.0723079	.2309423
int_never		.1026789	.054189	1.89	0.058	-.0035297	.2088874
l_not_very_satisfied		.1424566	.0720803	1.98	0.048	.0011818	.2837315
l_not_all_satisfied		.0614486	.2104356	0.29	0.770	-.3509976	.4738948

```
.
.
.
.
. logit recycling age men middle uppermiddle high uni_master_phd hh_child Limassol ///
> Larnaca Paphos Famagusta married_partner divorced small_town urban int_often
int_never l_not_very_sati
> sfied ///
> l_not_all_satisfied, robust
```

```
Iteration 0:  log pseudolikelihood = -305.04012
Iteration 1:  log pseudolikelihood = -264.4327
Iteration 2:  log pseudolikelihood = -263.54383
Iteration 3:  log pseudolikelihood = -263.54097
Iteration 4:  log pseudolikelihood = -263.54097
```

```
Logistic regression          Number of obs    =          471
Wald chi2(19)                =          63.33
Prob > chi2                  =          0.0000
Pseudo R2                    =          0.1360
```

```
Log pseudolikelihood = -263.54097
```

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
recycling							
age		.0143775	.0084385	1.70	0.088	-.0021616	.0309166
men		-.3479791	.2234951	-1.56	0.119	-.7860214	.0900632
middle		.0974283	.2441104	0.40	0.690	-.3810192	.5758758
uppermiddle		.563921	.6645398	0.85	0.396	-.7385531	1.866395
high		.7916439	.2890519	2.74	0.006	.2251125	1.358175
uni_master_phd		1.527047	.3942535	3.87	0.000	.7543247	2.29977
hh_child		-.1278533	.2669439	-0.48	0.632	-.6510537	.3953471
Limassol		.5939566	.2834372	2.10	0.036	.0384299	1.149483
Larnaca		.5422526	.3547205	1.53	0.126	-.1529869	1.237492
Paphos		.111525	.4114866	0.27	0.786	-.6949738	.9180239
Famagusta		1.805687	.5464732	3.30	0.001	.7346192	2.876755
married_partner		.2308583	.5663253	0.41	0.684	-.8791189	1.340835
divorced		-.0429313	.6331496	-0.07	0.946	-1.283882	1.198019
small_town		1.553308	.3066974	5.06	0.000	.9521925	2.154424
urban		1.015352	.2838677	3.58	0.000	.458982	1.571723
int_often		-.2018627	.3593222	-0.56	0.574	-.9061212	.5023959
int_never		-.1181549	.2830728	-0.42	0.676	-.6729675	.4366577
l_not_very_satisfied		-.1247779	.4004238	-0.31	0.755	-.9095942	.6600383
l_not_all_satisfied		-.4180049	1.12462	-0.37	0.710	-2.62222	1.78621
_cons		-1.919471	.7090317	-2.71	0.007	-3.309148	-.5297943

```

.
. margins, dydx(*)

Average marginal effects      Number of obs      =      471
Model VCE      : Robust

Expression      : Pr(recycling), predict()
dy/dx w.r.t.   : age men middle uppermiddle high uni_master_phd hh_child Limassol
Larnaca Paphos
                  Famagusta married_partner divorced small_town urban int_often int_never
                  l_not_very_satisfied l_not_all_satisfied

```

		dy/dx	Delta-method Std. Err.	z	P> z	[95% Conf. Interval]	
age		.0027202	.0015945	1.71	0.088	-.000405	.0058454
men		-.0658369	.0418186	-1.57	0.115	-.1477999	.0161261
middle		.0184332	.046046	0.40	0.689	-.0718152	.1086816
uppermiddle		.1066927	.1255865	0.85	0.396	-.1394524	.3528377
high		.1497773	.053104	2.82	0.005	.0456953	.2538593
uni_master_phd		.2889141	.0705276	4.10	0.000	.1506827	.4271456
hh_child		-.0241896	.0504103	-0.48	0.631	-.122992	.0746129
Limassol		.1123753	.0522929	2.15	0.032	.009883	.2148676
Larnaca		.102593	.0664974	1.54	0.123	-.0277395	.2329256
Paphos		.0211003	.0779245	0.27	0.787	-.131629	.1738296
Famagusta		.3416321	.0987643	3.46	0.001	.1480578	.5352065
married_partner		.0436779	.1069342	0.41	0.683	-.1659093	.253265
divorced		-.0081225	.1198129	-0.07	0.946	-.2429515	.2267065
small_town		.2938827	.0521229	5.64	0.000	.1917237	.3960416
urban		.1921025	.0509772	3.77	0.000	.0921891	.2920159
int_often		-.038192	.0678366	-0.56	0.573	-.1711493	.0947653
int_never		-.0223546	.0536492	-0.42	0.677	-.1275052	.0827959
l_not_very_satisfied		-.0236077	.0757303	-0.31	0.755	-.1720365	.124821
l_not_all_satisfied		-.0790856	.2127513	-0.37	0.710	-.4960706	.3378993

```

.
.
.
. logit w_e_consumption age men middle uppermiddle high uni_master_phd hh_child
Limassol ///
> Larnaca Paphos Famagusta married_partner divorced small_town urban int_often
int_never l_not_very_sati
> sfied ///
> l not all satisfied, robust

Iteration 0:  log pseudolikelihood = -324.1234
Iteration 1:  log pseudolikelihood = -308.34665
Iteration 2:  log pseudolikelihood = -308.13649
Iteration 3:  log pseudolikelihood = -308.13516

```

Iteration 4: log pseudolikelihood = -308.13516

Logistic regression	Number of obs	=	471
	Wald chi2(19)	=	25.92
	Prob > chi2	=	0.1325
Log pseudolikelihood = -308.13516	Pseudo R2	=	0.0493

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
w e consumption							
age		.007198	.0073667	0.98	0.329	-.0072404	.0216363
men		-.0808434	.2054057	-0.39	0.694	-.4834312	.3217445
middle		-.01674	.2364893	-0.07	0.944	-.4802506	.4467706
uppermiddle		.0315949	.5113566	0.06	0.951	-.9706456	1.033835
high		.1397937	.2660133	0.53	0.599	-.3815828	.6611702
uni_master_phd		.144581	.3287007	0.44	0.660	-.4996606	.7888225
hh_child		.0976943	.2358671	0.41	0.679	-.3645968	.5599854
Limassol		-.1767186	.2500213	-0.71	0.480	-.6667513	.3133142
Larnaca		.2679823	.3209737	0.83	0.404	-.3611146	.8970792
Paphos		-.5496687	.3871435	-1.42	0.156	-1.308456	.2091186
Famagusta		2.209557	.6770342	3.26	0.001	.8825941	3.536519
married_partner		.5470514	.4814037	1.14	0.256	-.3964824	1.490585
divorced		.1166212	.5392069	0.22	0.829	-.9402048	1.173447
small_town		.5966879	.2633994	2.27	0.023	.0804345	1.112941
urban		.485546	.267016	1.82	0.069	-.0377958	1.008888
int_often		-.158726	.3404564	-0.47	0.641	-.8260083	.5085563
int_never		-.0815584	.2598482	-0.31	0.754	-.5908515	.4277348
l_not_very_satisfied		-.1120532	.3461151	-0.32	0.746	-.7904263	.56632
l_not_all_satisfied		-.0245832	.7446665	-0.03	0.974	-1.484103	1.434936
_cons		-1.04968	.598472	-1.75	0.079	-2.222664	.1233031

. margins, dydx(\*)

Average marginal effects	Number of obs	=	471
Model VCE : Robust			

Expression : Pr(w e consumption), predict()  
dy/dx w.r.t. : age men middle uppermiddle high uni\_master\_phd hh\_child Limassol  
Larnaca Paphos  
Famagusta married\_partner divorced small\_town urban int\_often int\_never  
l\_not\_very\_satisfied l\_not\_all\_satisfied

		dy/dx	Delta-method Std. Err.	z	P> z	[95% Conf. Interval]	
age		.0016683	.0017005	0.98	0.327	-.0016646	.0050011
men		-.018737	.0475581	-0.39	0.694	-.1119491	.0744752
middle		-.0038798	.0548156	-0.07	0.944	-.1113163	.1035567
uppermiddle		.0073227	.1185021	0.06	0.951	-.2249371	.2395825
high		.0323998	.0615671	0.53	0.599	-.0882696	.1530692
uni_master_phd		.0335094	.0760826	0.44	0.660	-.1156097	.1826285
hh_child		.0226425	.0546448	0.41	0.679	-.0844594	.1297444
Limassol		-.0409579	.0578194	-0.71	0.479	-.1542819	.0723662
Larnaca		.0621099	.0741356	0.84	0.402	-.0831931	.207413
Paphos		-.1273961	.0890441	-1.43	0.153	-.3019192	.0471271
Famagusta		.5121064	.1504229	3.40	0.001	.2172829	.8069299
married_partner		.1267895	.1109356	1.14	0.253	-.0906403	.3442192
divorced		.0270292	.1249404	0.22	0.829	-.2178494	.2719078
small_town		.1382937	.0598093	2.31	0.021	.0210696	.2555177
urban		.1125344	.0611048	1.84	0.066	-.0072288	.2322977
int_often		-.0367877	.0788512	-0.47	0.641	-.1913332	.1177578
int_never		-.0189027	.0601889	-0.31	0.753	-.1368708	.0990655
l_not_very_satisfied		-.0259704	.0801704	-0.32	0.746	-.1831016	.1311607
l_not_all_satisfied		-.0056976	.1725853	-0.03	0.974	-.3439585	.3325633

### Appendix 1b – VIF values of the variables

Variable	VIF	1/VIF
divorced	4.37	0.229021
married_pa~r	4.37	0.229044
uni_master~d	2.47	0.404200
high	1.92	0.521557
age	1.85	0.540992
urban	1.83	0.547861
Larnaca	1.53	0.652881
middle	1.51	0.661129
hh_child	1.48	0.674205
Paphos	1.44	0.693234
Limassol	1.44	0.694224
small_town	1.40	0.711787
int_never	1.34	0.746050
Famagusta	1.27	0.786013
uppermiddle	1.24	0.803880
men	1.12	0.889279
l_not_very~d	1.11	0.902132
int_often	1.09	0.917932
l_not_all_~d	1.09	0.918114
Mean VIF	1.78	