DETERMINANTS OF FOOD WASTE BEHAVIOUR IN GREEK HOUSEHOLDS

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The average annual quantity of food waste in developed countries is almost equal to the total food production in Sub-Saharan Africa

The global food security crisis, poses a serious threat to peace and security in the world





In 2018 an estimated
7.5 million children
will suffer from
severe acute
malnutrition

Food waste is a social problem, with a solution lying on social interventions



The consumption behaviour of households is as important as the technical or economic aspects in waste management research and decision making



Aim of the study:

- To analyse Greek consumers' food waste behaviour
- To investigate the most important determinants that influence the intention to reduce food waste

RESEARCH METHODOLOGY

 Sample survey with a structured questionnaire based mainly on the Theory of Planned Behaviour (TPB)

Setting Goal, theoretical framework and research hypothesis

Data collection.
Convenience sampling

 921 Greeks between the age of 18 and 75 completed the questionnaire in the period between April and July 2017 (response rate 92%)

- STATA 12
- Exploratory Factor Analysis-EFA
- Confirmatory Factor Analysis-CFA
- Structural Equation Models-SEM

Statistical analysis and conclusions

The questionnaire includes 67 questions concerning:

Attitudes towards food waste

 Perceived behavioural control on capability to deal with household foodrelated activities

TPB

Additional

variables

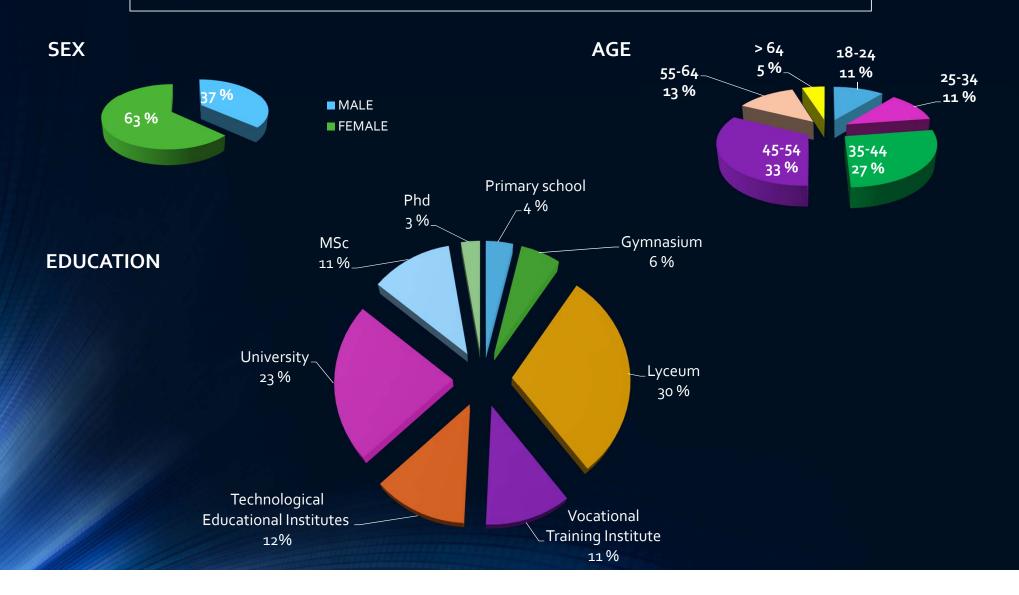
TPB

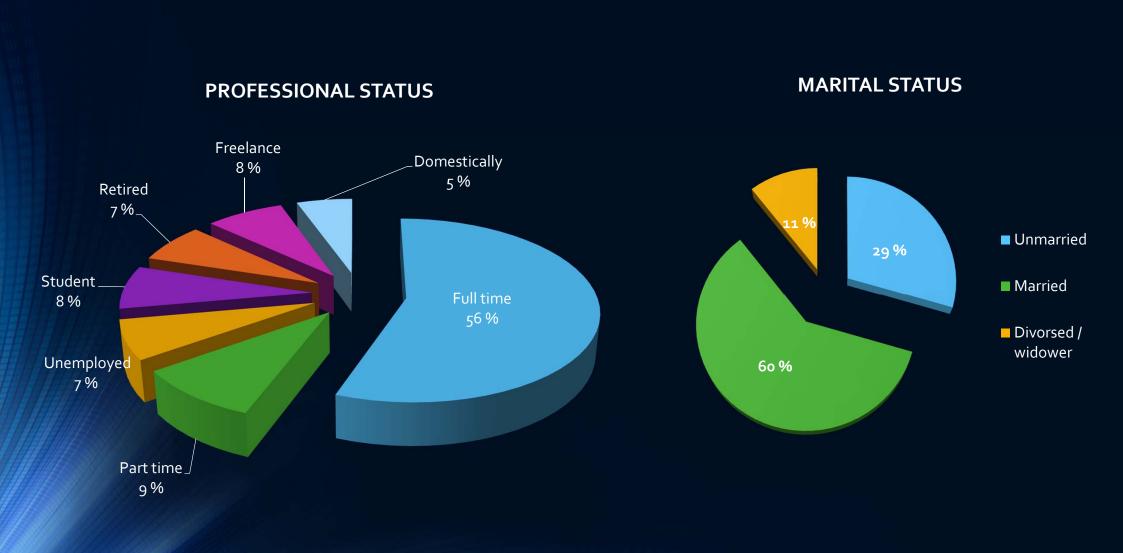
 Perceived expectations of other people, who are important, to food waste

Intention to reduce food waste

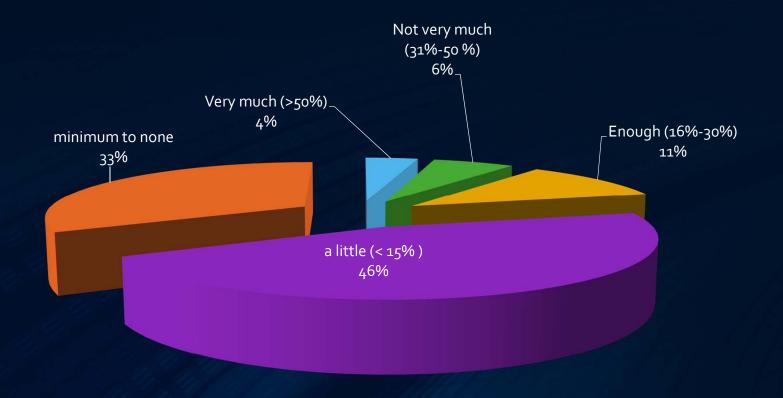
- Knowledge of the problem related to food waste
- Food-related routines and habits (planning, shopping, cooking)
- Moral norms
- General environmental awareness and routines
- Socio-demographic characteristics
- Self-reported amounts of Food Waste

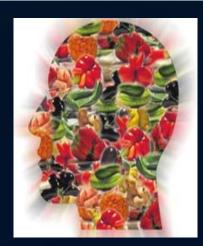
SOCIO-DEMOGRAPHIC CHARACTERISTICS OF THE SAMPLE





SELF-REPORTED AMOUNTS OF FOOD WASTE





RESULTS FROM EXPLORATORY FACTOR ANALYSIS-EFA

4 factors were extracted by EFA:



These factors interpret 44% of the variability of the dependent variable "Food Waste Prevention Intention" (R-squared = 0,44).

The most important factor in predicting "Food waste prevention intention" was "Attitude towards Food Waste" as it emerged from Linear Regression

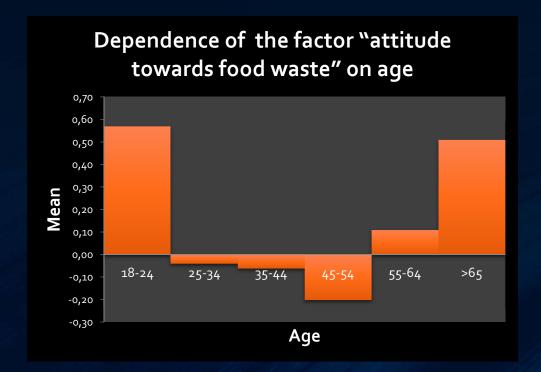
✓ Better attitude toward food waste

t-test analysis indicated that women have :

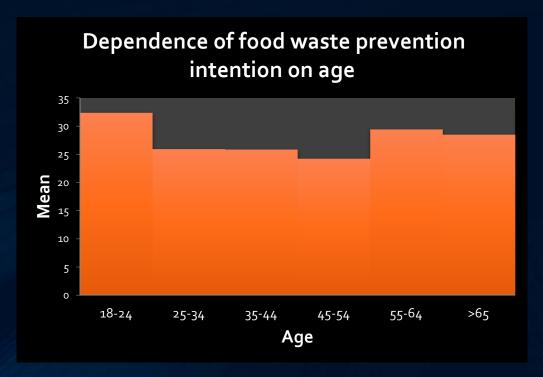
✓ Larger food waste prevention intension

- Food Waste Prevention Behaviour does not show statistically significant differentiation between men and women (p=0,8).
- This result contrasts with the results of other studies showing that women throw away more food than men (Gallo, 1980; Buzby and Guthrie, 2002; Koivupuro et al., 2012)

People aged 45-54 have the best attitude towards food waste

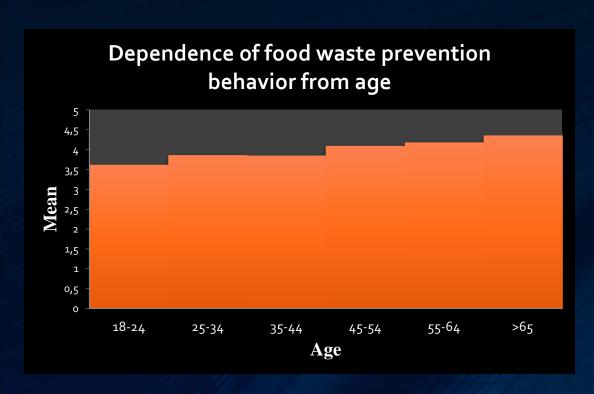


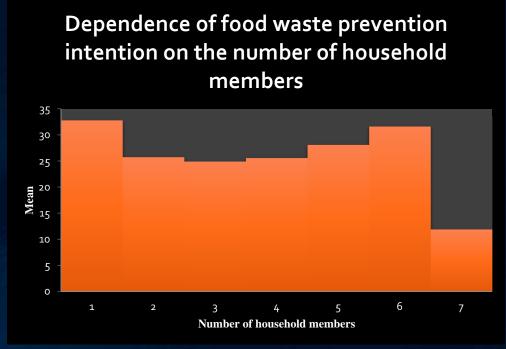
People aged 45-54 have the greatest food waste prevention intention



Self-reported Food Waste Prevention Behaviour improves with age increase

Food waste prevention intention increases as the number of household members increases, except for the extreme groups with low participation rates (0.1% the last and 12.8% the first)





CONCLUSIONS

- There was no statistically significant effect of the different levels of education on the food waste prevention intention and on the food waste prevention behavior
- There was no statistically significant effect of the professional status on the food waste prevention intention and on the food waste prevention behavior
- There was no statistically significant effect of the income on the food waste prevention intention and on the food waste prevention behavior
- There is no statistically significant correlation of "Food Waste Prevention Behaviour" with the number of household members.

Thank you

