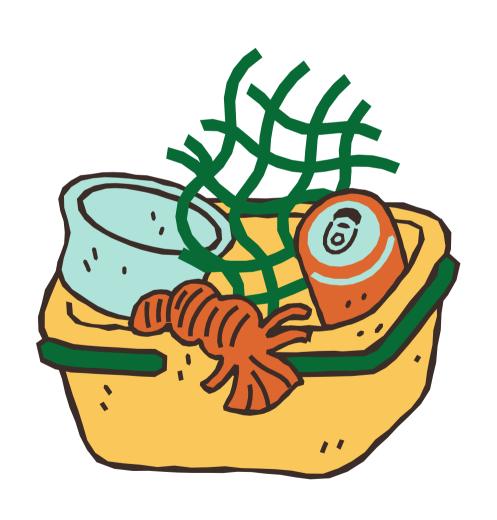
'Emplaced' waste: A content analysis of food waste household surveys



Dept. of Geography & Atmo. Science
PALOOZA!
April 14, 2024



Structure of presentation

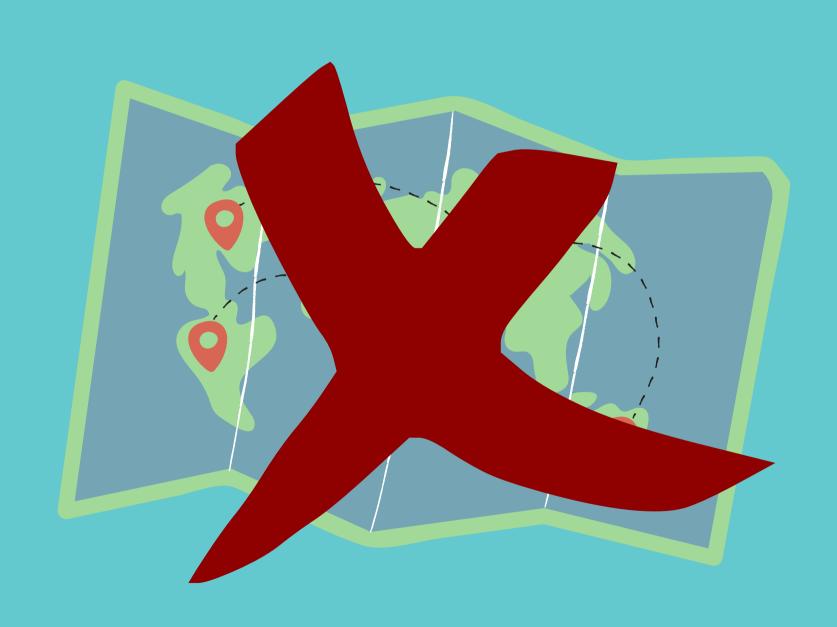


- Framework/background
- Questions, methods & findings
- Connections

Introduction: Geography?



Introduction: Geography?



study of the relationship between *people and place*

How does waste fit into geography?

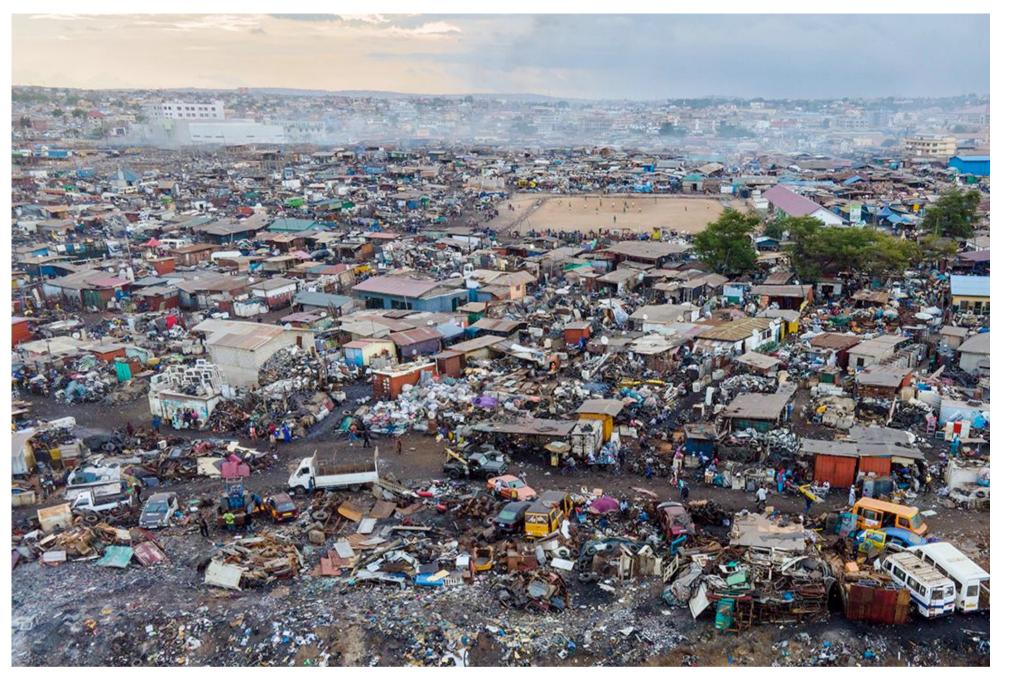


Waste is less a specific material than a condition.









Research Article

"EMPLACED" WASTE: A CONTENT ANALYSIS OF FOOD WASTE HOUSEHOLD SURVEYS

Hazlett Henderson (D

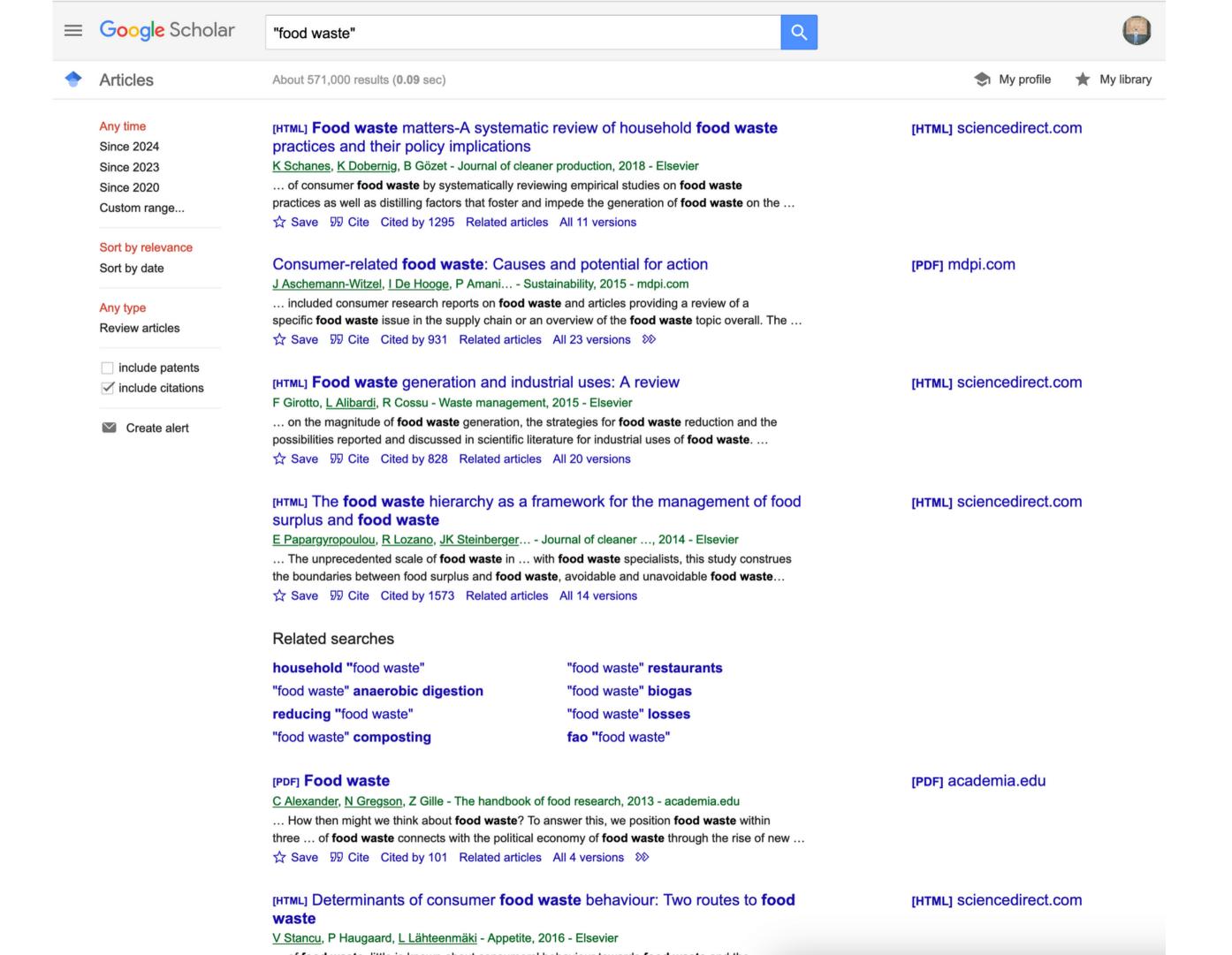
Published online: 09 Apr 2024

66 Cite this article https://doi.org/10.1080/00167428.2024.2329604





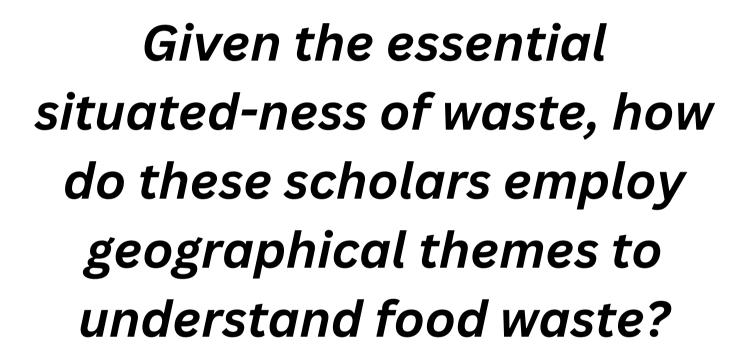
Read this article















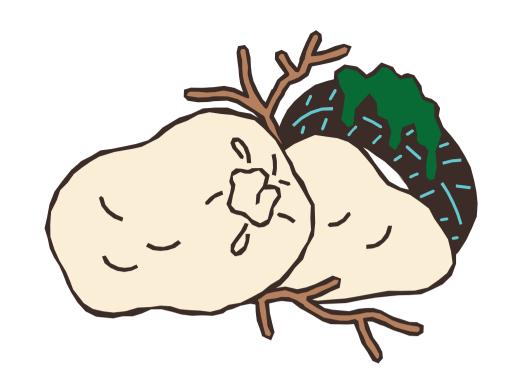






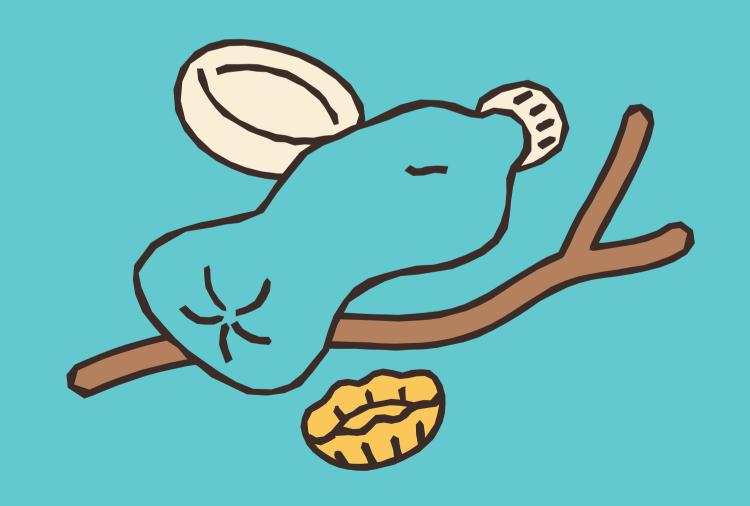
What I did

(1) Systematic literature review(2) Content analysis



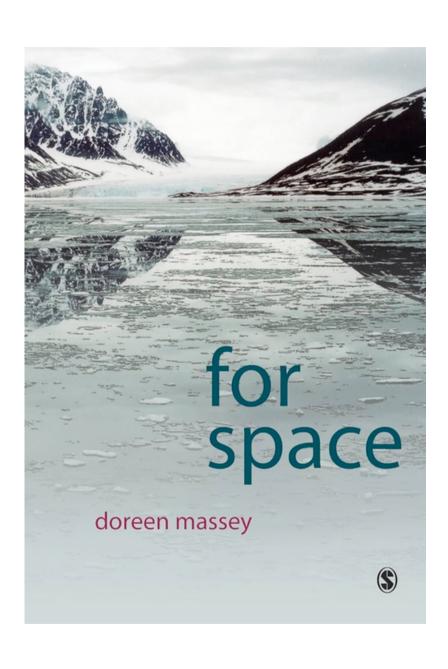
| | Relationality | | | | Heterogeneity | | |
|--|---|--|--|---|--|--|--|
| | Comparisons between places 1. In Printing Househous, on the other hand, the causes or waste were moding (20%), expiration (10%), entirete (14%), and | Scale and scope | Regional membership | Imperialism / hegemony | Qualities of place (nature, spatial distribution) | Cultural (practices; what do people do?) | Sites of production and dis |
| Bliska, B., Tomaszewska, M., & Kołożyn-Krajewska, D. (2020) Analysis of the behaviors of | 1. In resign modestions, or the other france, are cusives or waster were moding (zers), expiration (12%), who making foo much food (13%). 2. The percentage of responses confirming such behavior among Polish and British respondents was similar (22.2% and 22%, respectively (12) 3. According to the WRAP report [45], the most frequently wasted products in the UK were fruit and vegetables (32.5%), beverage (17%), followed by bread and calles (13%), dairy products and eggs (12%), and unesten food leftovers (12) and unesten food leftovers (12) and unesten food leftovers (12) responses to the standard of | | | | 1. On the other hand, the highest percentage of residents of cities with over 500,000 inhabitants declared that they missed the expiry date. Food wasted due to preparing too much of it was the most common among residents of cities of between 200,000 and 500,000 residents (4). 2. Residents of cities from 100,000 to 200,000 (28 %) and rural areas (26.3%) check the home stocks least frequently before shopping, white most often—the hisbalisation of mail towes (14.8%). On the other hand, residents of cities up to 50,000 residents (22.8%) most on buy in bulk. (9). | Arranging products in a refrigerator or cabinet according to expiry date, e.g., those with the nearest date | We have established a conscording to the expiry date a Based on our study, we can |
| Polish consumers in relation to lood waste. Sustainability. | 6. Most of the food thrown away in Finnish households were vegetables and potatoes and the leftowers of cooked food [44]. Similarly, in Thirken households, seven product groups (bread, cooked not, feeth full, cooked pasts, Fesh vegetables and waste was caused by preparing too much food [38], (12-3). "You of resident food [59], in about 45% of VEX households." | the universal globalization of food markets (1) | According to the FUSIONS report "Food waste data set for EU-28," the 28 EU countries generated ca. 87.6 million tonnes of food waste in 2012 (±13.7 million tonnes), of which households are responsible for approximately 53% (1) | Although the number of studies of food waste at the household stage has increased in recent years, e.g., in Europe as well as in the United States, to date, there have been no studies on this subject conducted on a representative sample in Poland. (2) | In contrast, residents of large cities were the least likely to observe storage conditions. (6) In addition, the place of residence had a significant impact on the frequency of throwing food away. Most products were thrown away less frequently by residents of cities with more than 500,000 inhabitants. | closest to the door is not commonly practiced in Polish households. (6) 2. Bread was the most frequently wasted product by the Polish respondents (6) 3. Small town residents were the least likely to serve meals collectively (8) | consumer behaviors in terms between 100,000 and 200,00 but most products were throw 500,000 in population. Accord or medium-sized towns or lan |
| | with 71% of Australians believing that they almost never or at least occasionally buy products that they end up wasting (92) Households in UK spend 10 billion on food that gets wasted, while Jones (2006), saw that households in the U.S. spend \$45.3 billion and Hamilton et al. 2005 was \$5.3 billion and Hamilton et al. 2005 was \$5.3 billion for Australia, (92) | | | 1. Food waste has social impacts as well. Living in the era of universal food industry, the availability of resources in one part of the world can indirectly a cet the demand in another part (Selfan, 2011). Consequently, the lavish behaviour of the developed eat the food accessibility in the third world. Presently, we have close to a billion malinourished people in the world and they possibly can all acquire an adequate amount of food if industrialised nations could waste a lessee amount of food if an universal could be accessed to the contract of the | | | Ali (2009) saw that Malayi fills out of which only 7 are s lis. (93) |
| Chang, M., C. S. M., W. A., Karunaraithne, W. A. H. M., & Kim, M. (2022). Residents' perceptions of household food waste during the COVID-19 outbreak in Korea. Heliyon, 811), e11439. | annual food waste generated by an individual varies among countries, from as high as 338 kg in the Kingdom of Saudi Arabia in 2018 (1) Compared to the wareage annual flow waste generation of 95–115 kg per capita in North America and Europe, Koreans | The redistribution of food resources has become an increasingly pressing issue for the equilability survival of the world population, which has been increasing rapidly over the past few decades (1). | | | 1. Jeju Island is the smallest province in Korea, with a population of less than 700,000, yet it attracts 10 to 15 million bounts arroughly (41, 42). The 628 bons of daily solid waste emissions, including approximately 34% of food waste, is one of the most corrivor-ensist social issues on the island (2). 2. This study was completed by clarifying the differences in residents' perceptions of household food waste in Korea due to regional boundaries. (3) 3. Jeju Province is a self-governing province that accounts for approximately 1,30% of the nation's population with a unique isolated environment away from the manifand. (5) | Secul and neighboring districts, and the Ministry of Environment banned direct landfilling for food waste in 2005. The Secul, Krean's capital city, has faced a huge social issue to dispose of food waste since then (2) 3. It has been suggested that this may be due to Koreans' tradition of enjoying side dishes such as kinchli that are bysically disposed of after every meal when left over (2) 4. Evans [27] claims that surplus food results from material, cultural, and social conditions in the community where food is wasted, rather than from individual choices, attitudes, and behaviors (3) | |
| Pham. NB., Do, TN., Tran, VQ., Trinh, AD., Liu, C., & Mao, C. (2021). Food waste in Da. Nang City of Vietnam: Trends, challenges, and perspectives toward sustainable resource use. Sustainable resource use. Athmad. S. H., Mansor, F., | 1. Households in the United Kingdom discard about one third of the food they purchase, and 61% of this amount could have been consumed if the produce had been managed batter [11]. Similarly, two thirds of the food waste from households in Germany could have been partly or completely avoided (2). 2. the amount of per capita food waste (signized day) in developed countries such as Australia, Germany, Singapore, the UK, and the United States comes to 0.25, 0.34, 0.40, 0.37, and 6.22, respectively [13]. On the other hand, the per capita food waste in countries such as Malaysia, Christ, Thaland, and Vertnam amounts to only 0.18, 0.14, 0.14, and 0.02, respectively 3.3, looking at developed countries, based on the latest official data by the Tokyo Metropolitan Government, the average food waste per capital and 0.39 kg in 2012. Based on a report by the Natural Resources Defense Council, an average of 0.23 kg per person per day was amound 0.39 kg in 2012. Based on a report by the Natural Resources Defense Council, an average of 0.23 kg per person per day was wasted at home in the three US cities of Deriver, Naturalise, and New York, WRAP person the exemps food vasiate per capital per day so 0.24 kg in the UK a 2015, in addition, food waste generation per capital kg in the US. Although the data are not directly comparable because of the different definitions of food waste and the scope of estimation, it is clear that food waste generation in Da Nang City is even higher than the average in many developed cities and countries (5) | On a global scale, it is estimated that about a third of the food produced for human consumption, or 1.3 billion tons, is lost at different stages of the food supply chain annually (1) | | Most studies on food waste are currently examining food waste in the context of developed economies. The per capita food waste in developed economies, such as in Europe and North America, is particularly high compared with other regions (2) | 1. Like most developing countries in Asia, Vietnam still relies on open dumping as the main waste disposal method for waste management (2) 2. Da Nang City is a port city located in central Vietnam. Da Nang is the fifth most populous city in the country, with a population of 100x 700 as 10 501 and an ear of 1254.6 Arra (25) bits Nang is subdivided into eight districts six urban districts (cam Le, Hai Chau, Thainh Khe, Lien Chieu, Nagven Chieu, Ngu Hanh Son, and Son Trai) and two purul districts (he had Varia and Hossa (Sa). It is further subdivided into one commune-level town, 14 communes, and 45 wards (3) | 1. Utilizing food waste for livestock feed is considered one major way to manage food waste in Vetram. In the Chi Minh Chy, a smuch as 70% of the total food waste is used for levestock redding (2) 2. Similarly, the population of 140 Chi Minh Chy, was about eight times larger than that of Da Nang, but the food waste generation rate per regish is seen of yabout 48% higher from 1 but of Da Nang. This can be attributed to differences in lifestyles, sold waste management flood waste demand and disposal), people's attributed, and local people's knowledge in Da Nang compared to other clies. (5) 3. These results are indicative of Vetramese culture and traditions, with people usually esting funch and demer at home. (but to five times a week. Conversely; more than hard of the responders reported that they residently prefer locok lunch and dimen at home. (but to five times a week. Conversely; more than hard of the responders reported that they residently greater locok lunch and dimen at home after the relating out. This trend is similar to Hanou, indicating that most people lend to eat at home more often in both urban and rural areas (7) 4. This result indicates the traditional practice of Vetramese people, whereby locals prefer to go to tradition fresh markets to by ingredients for preparing food, may suggest the potential burden of food waste persentage of food waste from households in Da Nang is used to feed gligs. This figure is comparable to other Asian countries, where there is a high demand or aimside feed, free startles, Japan and South Korea encourage reusing food waste from households in Da Nang is used to feed gligs. This figure is comparable to other Asian countries, where there is a high demand or aimside with murbanes to feed animals, with 33% and 81% of total food waste being used to severe was the market to be purified and utilized for animal feed. The use of food waste to feed pigs is typical in Da Nang is used to feed pigs is typical in Da Nang is used to the murbane. | |
| hacce, N. J. A., Kamanuddin, I. B. Ali, R. (2021), lousehold food waste: cyploring the modern horowaway culture in Rsub, hahang, Malaysia. hahang, Malaysia. Social Sciences, fills, 1508-1524. mps lifec cop'10.6007/JJARBS W11-27110392. | 7.1% of Australians have confidence that they rarely or at least irregularly purchase products that they end up wasting. (1510) | becoming a major problem around the world due to the growing world population (1509) Participant 13 (Female: 35 years) explained that her bad habit of wasting food reminded her of hungry children in India and Africa as well as other poor families facing food shortages all around the countries. | | | 1. In Malaysia, food waste is disposed on landfill because its knowingly inexpensive and easy to apply. Furthermore, once landfill size has resched the maximum capacity of usage, it is becoming a serious problem is order to identify a suitable location for the new landfill. (1511) 2. The BDI predicts that the spatial dispersion of food patches determines territory size, whereas patch richness dictates group size. Thus, where there is an abundant food source at a feed location, wildlife may congregate and focus their daily activities around this food source and have larger group sizes(1514) | As stated by Pariceau et al (2015) a suitable involvement to reduce household food waste need placebased and geographically sensitive smallyses that take not consideration the specificities of local food and waste management system, also the culture forms concerning food. (1510) | |
| Kritikou, T., Panagiotakos, D., Abeliotis, K., & Lasaridi, K. (2021) Investigating the determinants of Greek households food waste prevention behaviour. Sustainability, 13, 11451. | 1. Stefan et al. [25] applied the IPB to investigate household FW generation in Romania and found that ATT was the only classic IPB construct associated with the intention not to waste food On the other hand, in a relevant study in inten [19], FW generation behaviour was highly influenced by intention (3) 2. A study of household FW generation behaviours in the UK In an extensive mail survey in Suitzarsard on the determinants of the set-reported amount of FW in households Spanish and italian youths Demmak UK The results of these studies indicate the validity of an extended TPB model in investigating the main determinants of the set-freezed setPW generation behaviour in different countries and/or different population segments, to inform policymakers and formulate effective HFW resource chargings (4) 3. A recent study in Creatia size did not find a significant correlation of gender with FW behaviour ((60), 0n the other hand, in a UK study, Ban found that women even more willing to reduce their flood waste (61). In contrast, many studies in other countries indicated that women throw away more food than men (9) | Food waste prevention is globally an ungent policy priority (abstract) | In the EU alone, it is estimated that 129 Mt of food waste was generated in 2019, amounting to about 20% of the food produced (2) | In Greece, there is a scarcity of studies investigating FW generation, prevention, and related behaviours at the household or individual level (2) | | Behaviour correlation with "Shopping Routines" was not statistically significant (p = 0.255), leading to the rejection of both H3 and H10. This is also in contrast to other studies (22—25) but may be the outcome of purchasing power and the deep and long financial crisis sepretenced in the country, it is worth mentioning that the COIP of Greece has still not reached its pre-2009 levels, (9) 1. As a consumption pattern, Turking hoppids threat consumption is above the world average; however, | |
| Alyaz, Ö. C., & Demirbas, N. 2020). Determining the food waste behaviour of consumers in Northwest Turkey: A rosssectional analysis. New | 1. The amount of food wasted by consumers is estimated to be bewteen 95 and 115kg per capita in Europe and North America, while only 6 to 11kg per capita in a North and Assault Africa and in 50kth and 50kth-East Asia According to the Waste waste per capita in a year (130) Waste per capita in a year (130) 2. Siefan et al. (2013) outlined the role of food-re- | | | | 1. Turkey is one of the countries that struggles with food iosses and the problem of waste. Turkey is a developing economy in the European Zone and an important producer of agricultural products in the world. (132) 2. Northwest Turkey is an important part of the country with a well educated opopulation and a high level and variety of agricultural production (TSL 2018a, 2018b, 2018b, 2) canadate province is located in the region. It let in the land massed of Asia and Europe topopher is the Canadate Bookons. Many kinds of Mediterranear products (clives, Fesh fruits and vegetables) are produced in the province and consumers in the city have access to fresh apricultural products at the time. (TRO, 2019; TRIMEA, 2019). More than half a million people | bread is the most wasted product at a levied of \$% of consumption (132) 2. Products of this kind have high value in Turkey compared to other products in the model, so they cannot be easily bought and are unitilely to be wasted (133) 3. Cultural differences produced different results. Planning multines were found to be important for Food wasted hardward even to Represend results in the consumers in Netherland Turker (138). | |
| fedit : Mediterranean Journal f Economics, Agriculture and revironment, 19(3). | by TPB, with investigations of food waste behav- | One-third of all the food produced (approximately 1.3 billion tonnes) for human consumption gets lost or wasted every year at different stages in the food supply chain Ironically, 795 million people suffer from mainutrition worldwide (129) | As a Mediterranean country, Turkey has a high potential to produce many kinds of fresh agricultural products. Data on agricultural production shows that food losses occur mainly at farm level (132) | | access to fresh agricultural products all the time. (TRCG, 2019; TRMFA, 2019). More than half a million people (540,662) live in Çanakkale province (TSI, 2018a), which is one-third of the population of Northwest Turkey. (132) | 5. The results showed that, even if many similarities were found, there are also important distinctions between different cultures. So culture remains an important factor in the food waste pattern (139) | |

Comparisons between places Scale and scope Regional membership Imperialism/hegemony Qualities of place ('nature,' spatial distribution) Cultural practices Seasonal temporalities



Doreen Massey (1944-2016)



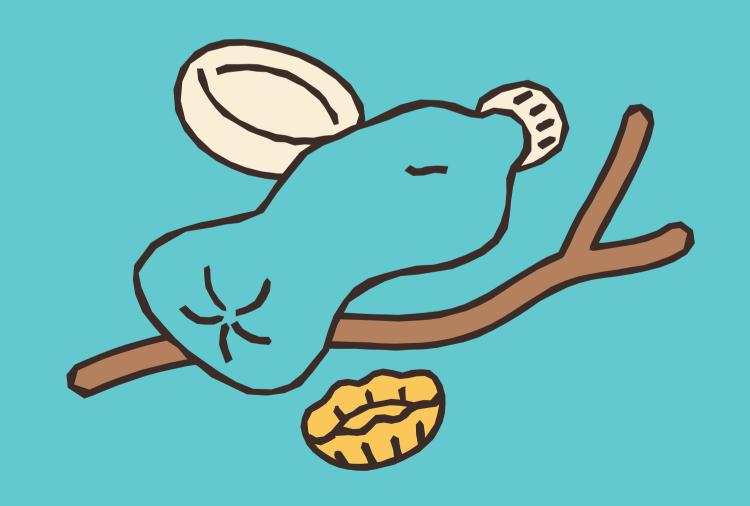


relationality

heterogeneity

ongoingness

Comparisons between places Scale and scope Regional membership Imperialism/hegemony Qualities of place ('nature,' spatial distribution) Cultural practices Seasonal temporalities

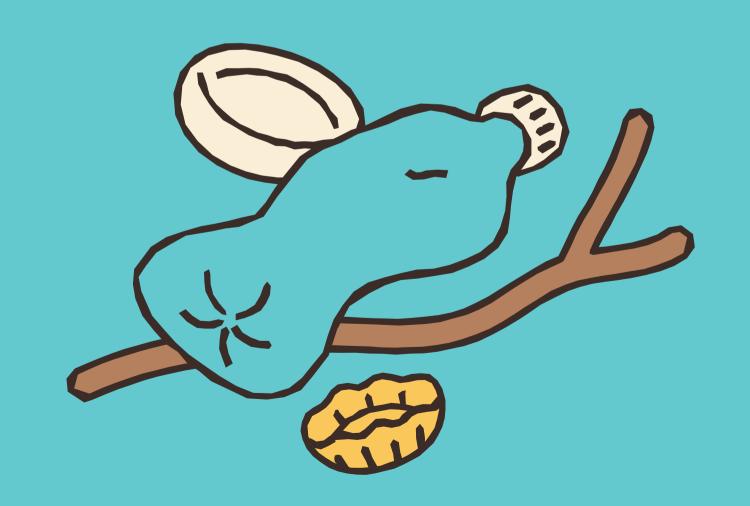


Comparisons between places
Scale and scope
Regional membership
Imperialism/hegemony

Qualities of place ('nature,' spatial distribution)

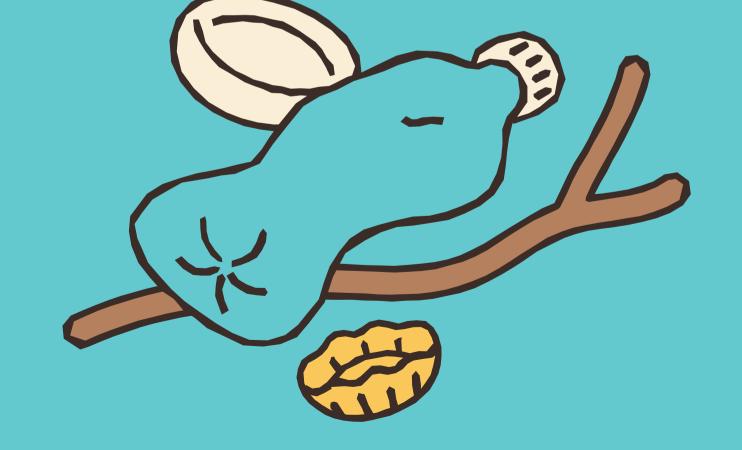
Cultural practices

Seasonal temporalities

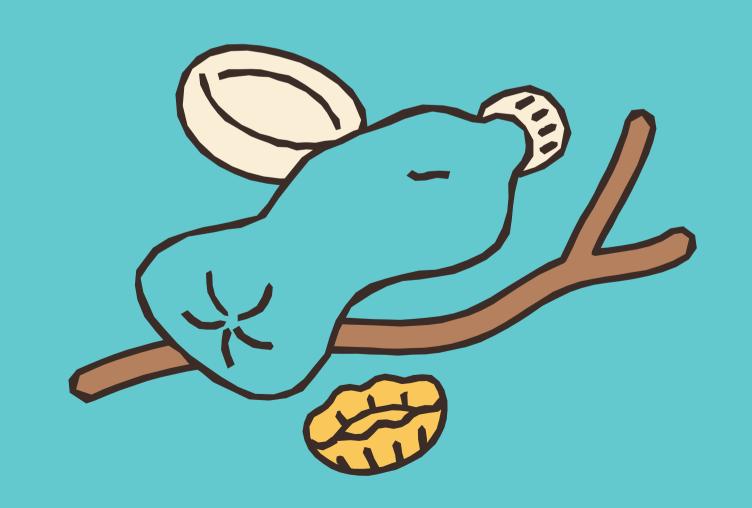


Comparisons between places Scale and scope Regional membership Imperialism/hegemony Qualities of place ('nature,' spatial distribution) **Cultural practices**

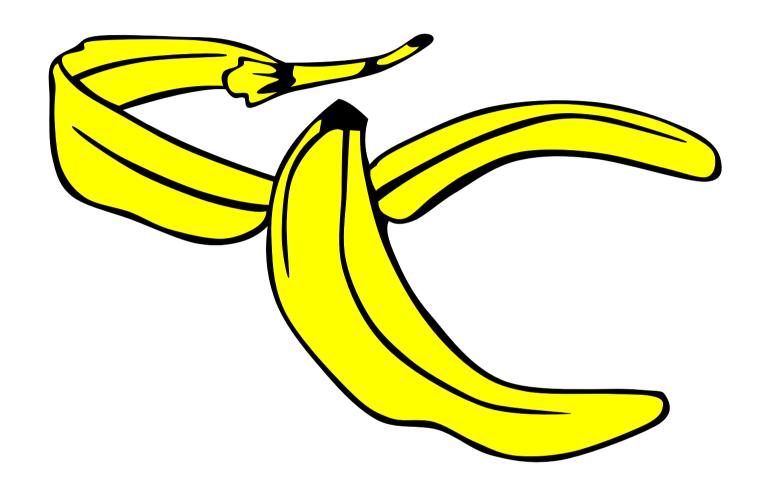
Seasonal temporalities



Comparisons between places Scale and scope Regional membership Imperialism/hegemony Qualities of place ('nature,' spatial distribution) Cultural practices Seasonal temporalities



Connections?



Thank you!