



Household food waste measurement in Hungary

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Legal background



- United Nations SDG 12.3
- Directive 2008/98/EC
 - reduce the generation of food waste /.../ as a contribution to the United Nations Sustainable Development Goal to reduce by 50%
 - Member States shall monitor and assess the implementation of their food waste prevention measures by measuring the levels of food waste on the basis of the methodology established by the delegated act
- Commission Delegated Decision (EU) 2019/1597
 - Establishment of common methodology for measurement

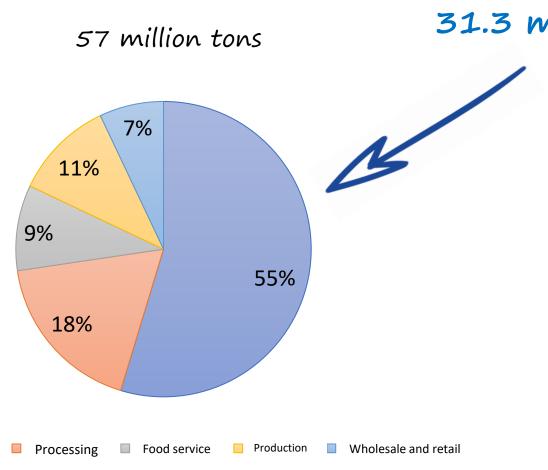
Hungarian reporting mechanism



- Ministry of Energy
- National Environmental Information System FBOs mandatory reporting
- National Food Chain Safety Office
 - Sharing household FW data
 - Household FW surveys: 2016; 2019; 2021; 2022; (2023)
 - SMP-FOOD-2022-FoodWaste-NCA-Hungary
 - > Supporting national reporting exercise
 - > Ensuring the continuation of household FW survey data series
 - > More details at the end of the presentation

EU first FW reporting (Eurostat, 2022)





Households

31.3 million tons

Households, EU average:
70 kg/capita/year



UNEP FW Index (2021) vs Eurostat (2022)





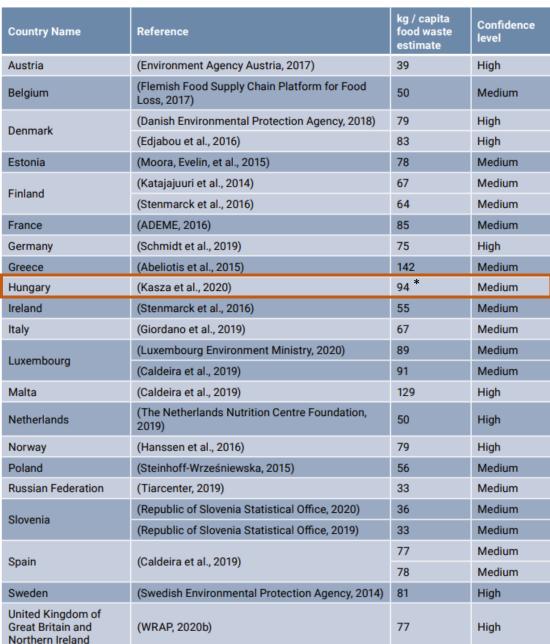
eurostat 🙄

Comparing Data from Hungary



* Adjustment factor for diaries: 1.43

UI	N			
environment programme				





Norway

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Household food waste per capita (2020) EU 70 **Portugal** 124 Italy 107 Malta 92 91 Luxembourg 87 Greece Lithuania 86 Austria 83 82 Latvia 79 Denmark 78 Germany Cyprus 71 Belgium 71 69 Czechia Hungary 66 65 Slovakia 61 France Estonia 61 Sweden 61 **Poland** 60 Netherlands 59 **Finland** 53 53 Croatia Ireland 48 36 Slovenia Spain 30 26 Bulgaria

78

Household FW survey - methodology





282 households (758 individuals)
Average size of households: 2.7 persons





Survey period:

3 November 2021 - 18 December 2021



Methodology: Physical measurement!

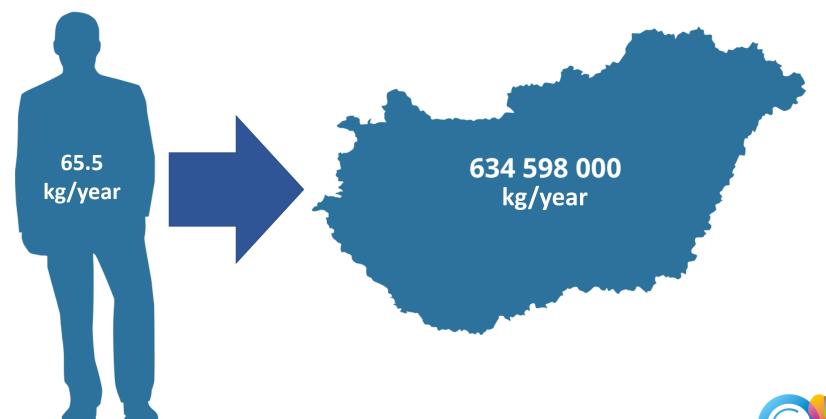
Food waste logbook for 1 week + input and output questionnaires
Data have been extrapolated for one-year consumption cycle

The methodology complies with

EU-FUSIONS recommendations and **Commission Delegated Decision (EU) 2019/1597**.

Results

Annual household food waste per capita is 65.5 kg. In total this is nearly 635 000 tons.





Composition of household FW



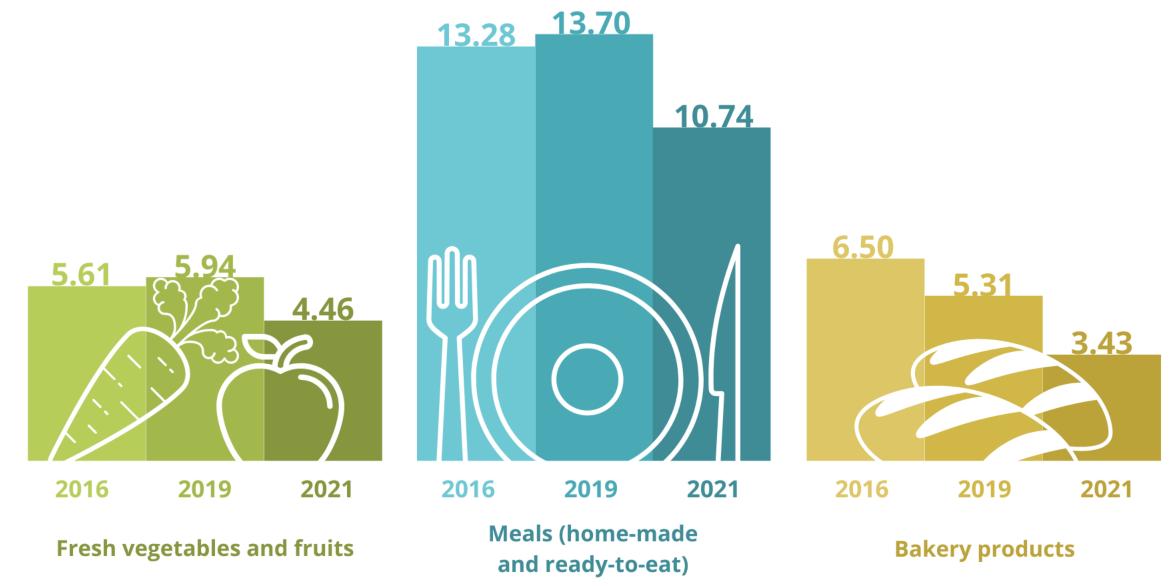
10% of food waste generated in the Hungarian households is liquid

kg food waste / capita / year

		Liquid	Solid	Total = liquid + solid
	Avoidable	5.39	19.80	25.19
2	Unavoidable	0.94	34.78	35.72
	Potentially avoidable	1.01	3.59	4.60
	Total	7.33	58.17	65.50

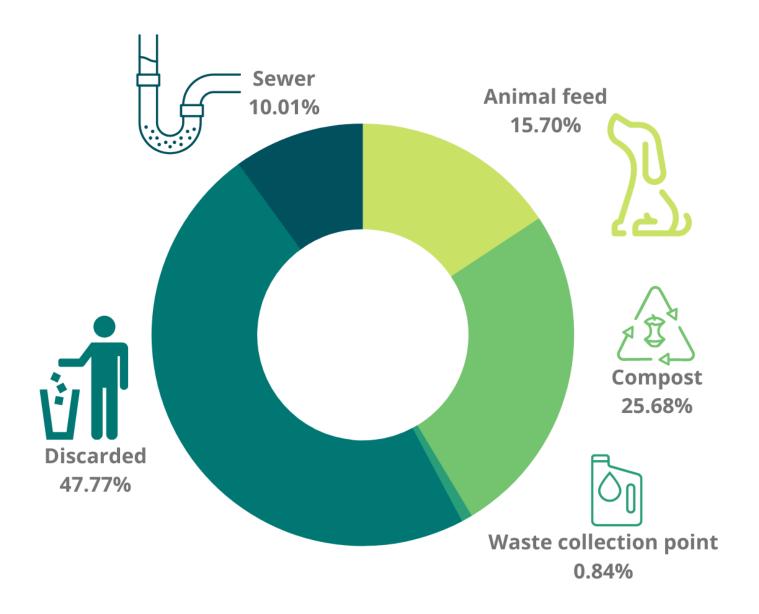
Most wasted foodstuffs





Treatment of FW within the household

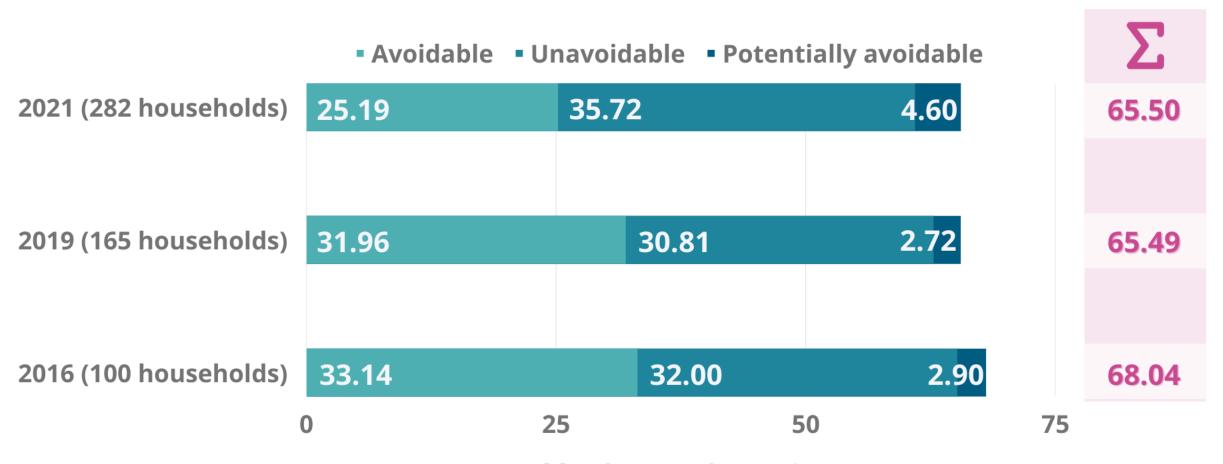




Household FW trends (2016-2021)



Real wastage (the avoidable fraction) has decreased by 24% since 2016



Amount of food waste (kg/capita/year)

Preliminary estimation by households



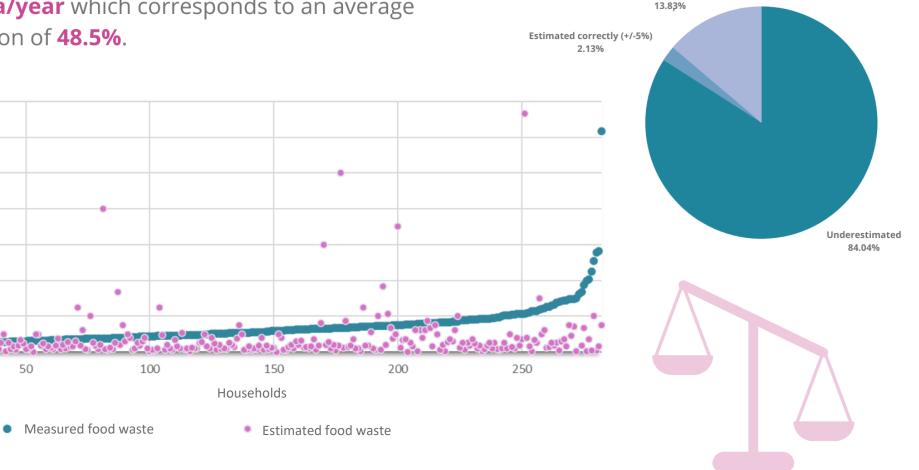
Amount of food waste estimated by households is 33.7 kg/capita/year which corresponds to an average underestimation of 48.5%.

700

600

100

Food waste (kg/capita/year)

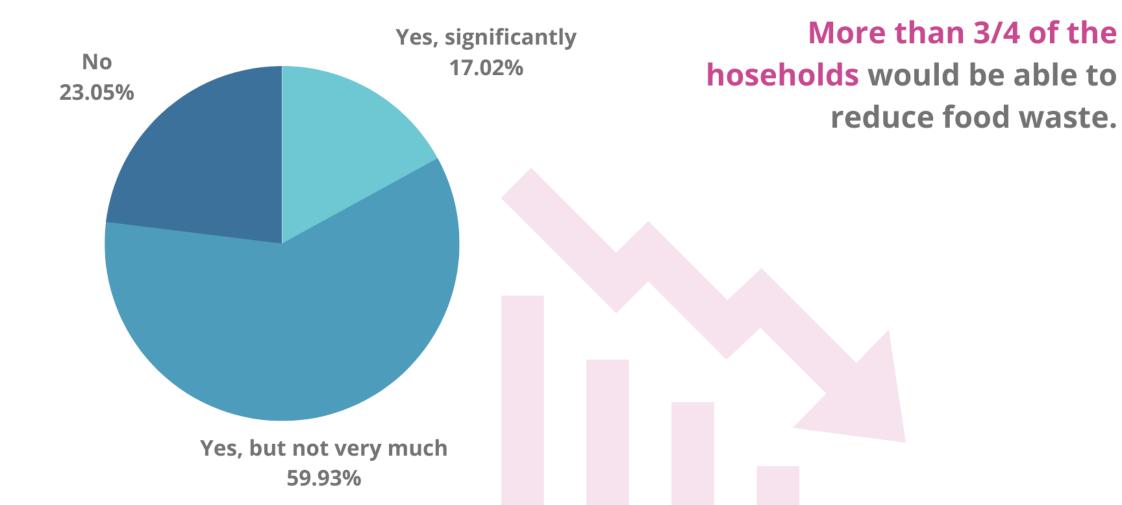


Overestimated

Consumer perspectives on FW reduction



Would your household be capable of cutting food waste levels?



Household FW survey 2022



- Sample size: 522 households
- Data processing in progress
- Expected release of the results:
 - July 2023 publication of preliminary results
 - End of 2023 scientific publication
 - Possible presentation of the results on EU FLW Platform meeting
- Assessment of the effect of inflation on food waste levels
 - Actual food waste trends
 - Specific questionnaire addressing the impact of the inflation on FW

SMP-FOOD-2022-FoodWaste-NCA-Hungary



- Cooperation with national authorities of Member States responsible for the measurement of food waste and the implementation of food waste prevention programs
- Granting authority: Health and Digital Executive Agency (HaDEA)
- Beneficiary: Food Chain Safety Centre Hungary
- Exploring alternative ways (possibly in-depth methods as set out in (EU) 2019/1597) for the measurement of food waste
- Stakeholder involvement
- National guide development on FW measurement in compliance with (EU) 2019/1597
- Targeted sectors:
 - Households (funding for regular HH survey in 2023)
 - Hospitality and food services
 - Retail
- Results will be published and presented in 2024 in EU FLW Platform meetings and FLW Prevention Hub



Lessons learnt



- Household FW has still the largest share in total FW
- Sound measurement methods are necessary to support MS reporting exercise
- Monitoring all FW material streams is important for comprehensive evaluation (e.g. animal feed and sewage, even if legally not regarded as waste)
- Dedicated EU funding schemes are highly beneficial for policymakers, researchers and citizens to foster national programmes
- Horizontal EU initiatives, such as ECFWF and Citizens' Panel on Food Waste are extremely valuable
- National programme has been successful actual wastage decreased by 24% since 2016 in Hungarian households
- Education (especially in young age) should be a key element in national programmes
- Consumers underestimate their food waste levels
- Consumers are capable of reducing FW in the household only to a limited extent
- EU common reduction targets should be rationally defined, in accordance with research findings and evidence from practitioners (i.e. avoidable vs total FW)

Thank you very much for your attention









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