



The implications of food waste generation on climate change: A case study from Greece

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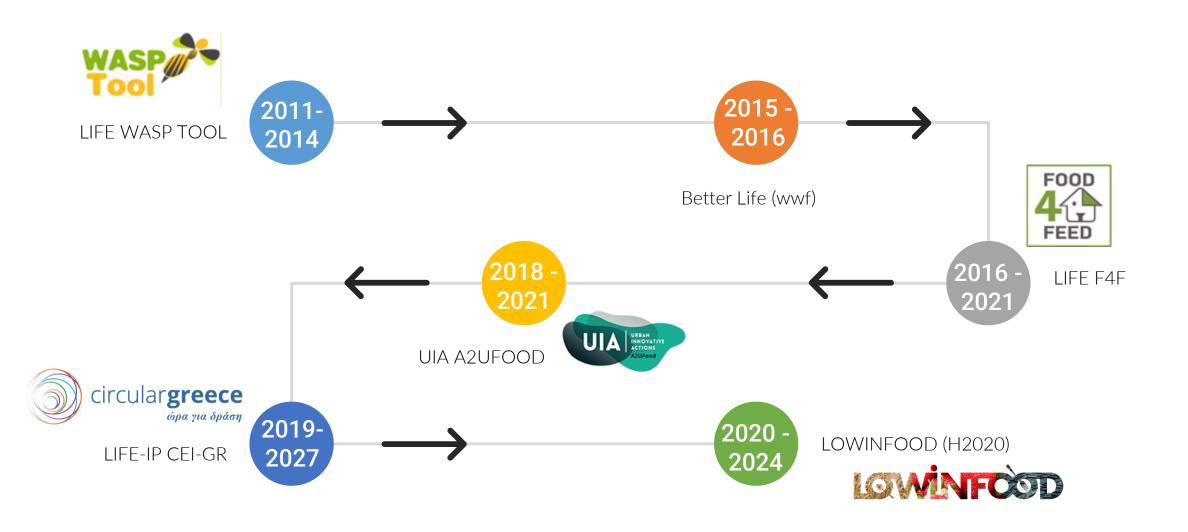
Research group: Sustainable Environmental Management & Technology (SEM&T)

Harokopio University is a dynamic Greek University, specialising on issues related to the quality of life, spanning the full spectrum of Sustainability, Resource Efficiency, Waste Management and Circular Economy. Its peer-reviewed journal publications and projects per academic staff ranks it among the three top academic institutes in Greece.





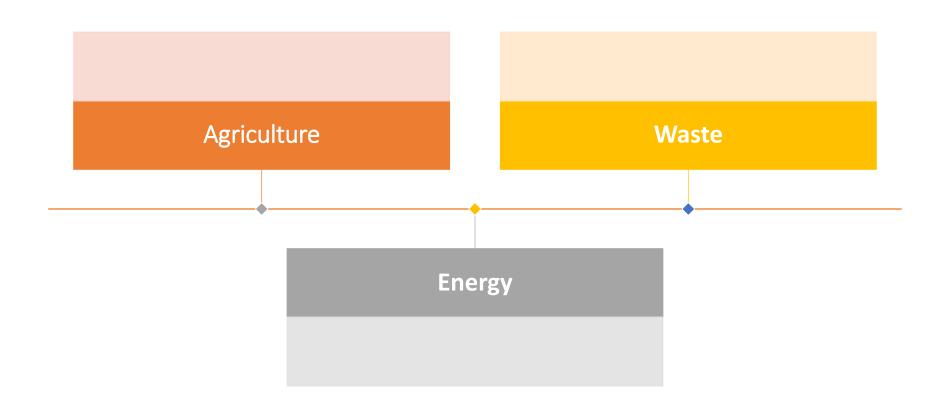
Projects timeline







Life Cycle GHG Implications of food



GHG emissions in avoidable food wasted upstream the households

GHG emissions in avoidable food wasted in the households

GHG emissions total food waste management

Total GHG emissions associated with food waste



Sources of data

Food waste generation diary

FAO food balance sheet for Greece 2009

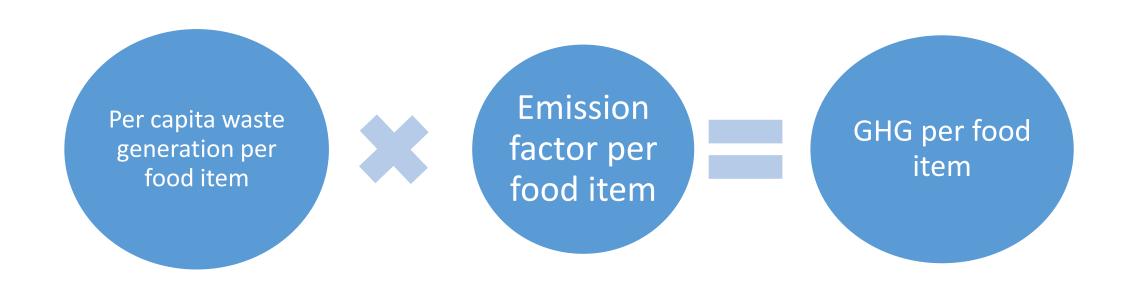
Food GHG databases

4

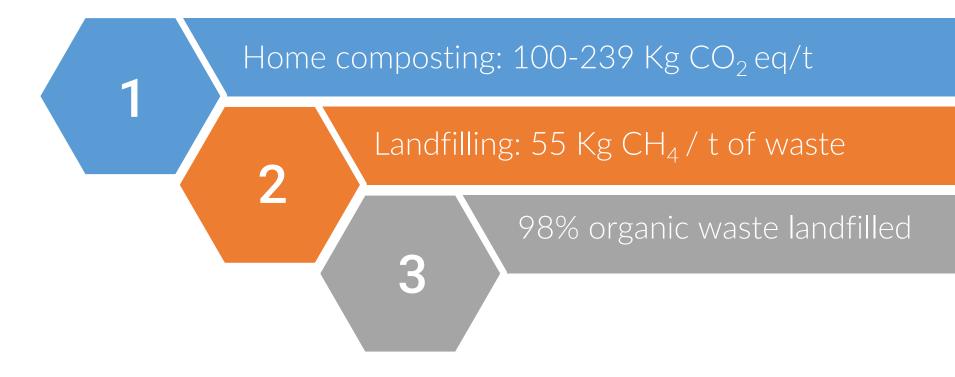
Peer-reviewed literature



Calculation procedure







Waste management factors



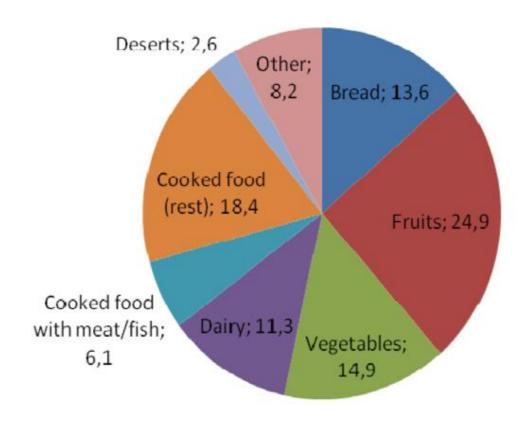


Food waste generation in Greece (Kg/Inh./y.)





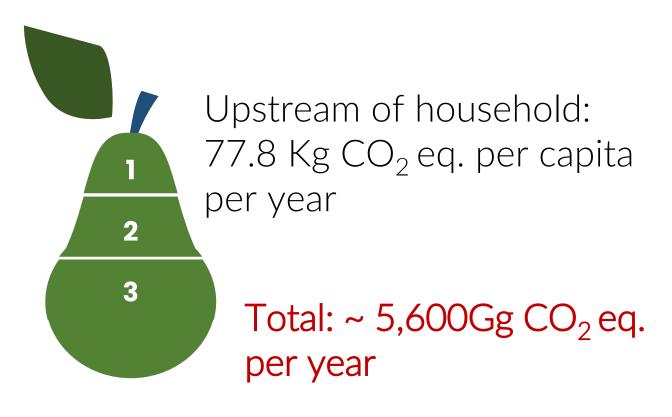
Distribution (%) of the avoidable fraction of food waste in Greece





Results

Avoidable in household: 38.2 Kg CO₂ eq. per capita per year







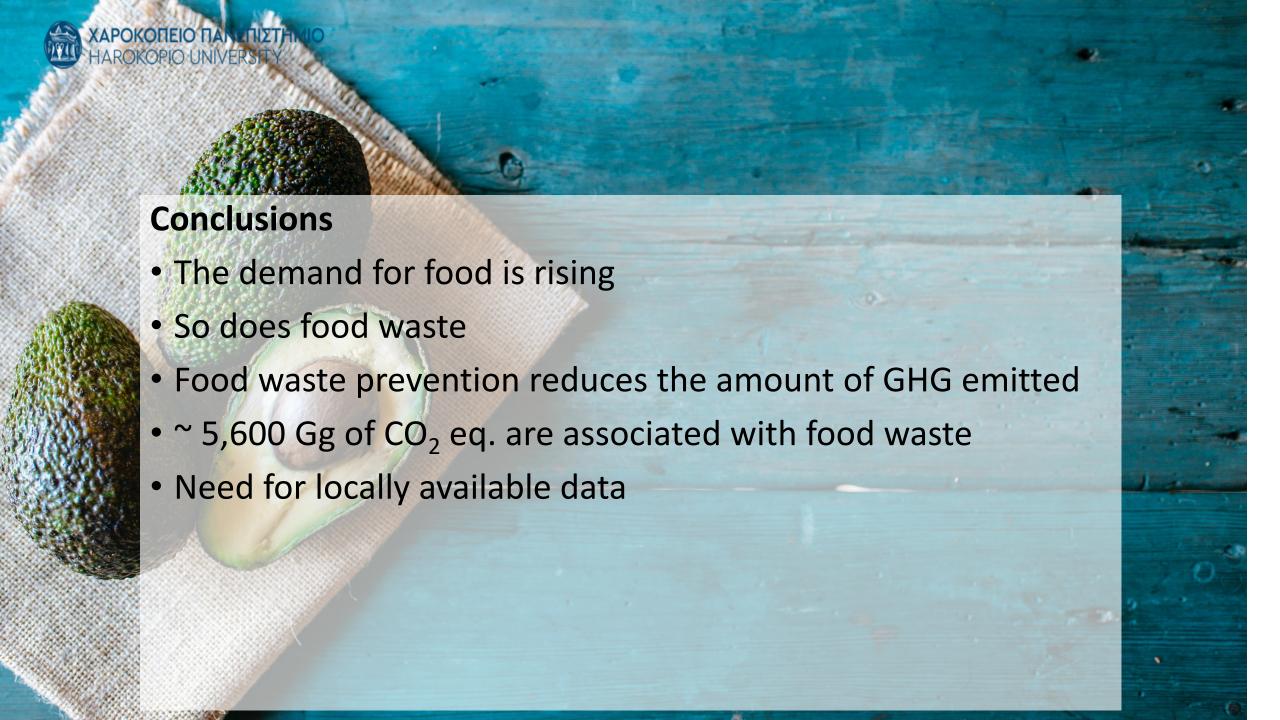
7.7%

GHG emissions in avoidable food wasted in the households

Total GHG emissions associated with food waste



GHG emissions total food waste management



Thanks for your attention!



