SmartFood: Engaging citizens in food diversity in cities

D5.3 Design of methodology for GHG quantification

Funded by

Operated by

Working together for a green, competitive and inclusive Europe

Grant agreement No.	NOR/IdeaLab/SmartFood/0005/2020-00		
Acronym	SmartFood		
Full title	Engaging citizens in food diversity in cities		
Funding scheme	Norway Grants, The IdeaLab Call for Full Proposals, Cities for the future: services and solutions		
Start date	September 2021	Duration	34 Months
Project website	www.smartfood.city		
Project Promotor	Research and Innovation Centre Pro-Akademia		
Deliverable	D5.3 Design of methodology for GHG quantification		
Version	1		
Work package	WP5		
Date of Delivery	12/2022		
Nature	Prototype with report		
Dissemination level	PU – Public		
Lead partner	NILU		
Responsible author	Tuan Vu Cao, tvc@nilu.no		
Contributors	Røen, Håvard, hvr@nilu.no		
Keywords	GHG, emission factor, GHG quantification, climate footprint, kgCO2eq		

Executive Summary

This deliverable is the result of design of methodology for Greenhouse gas (GHG) quantification where the aim is to design the activity model for GHG impact quantification: i) to calculate the emissions from food transportation. We envisage a step-wise approach starting with an integrated traffic emission model from different food transportation modes.; ii) to calculate the emission form food waste in cooperating with the outcomes from WP2, WP3.We will investigate the factors that effect on food emissions: food volumes, emissions factors taken from land use change etc., to calculate the emission from energy use: Activities of energy use in food system (e.g. electricity use, centralized heat, food storage) will be modelled using direct data collection from ULLs and other sources.