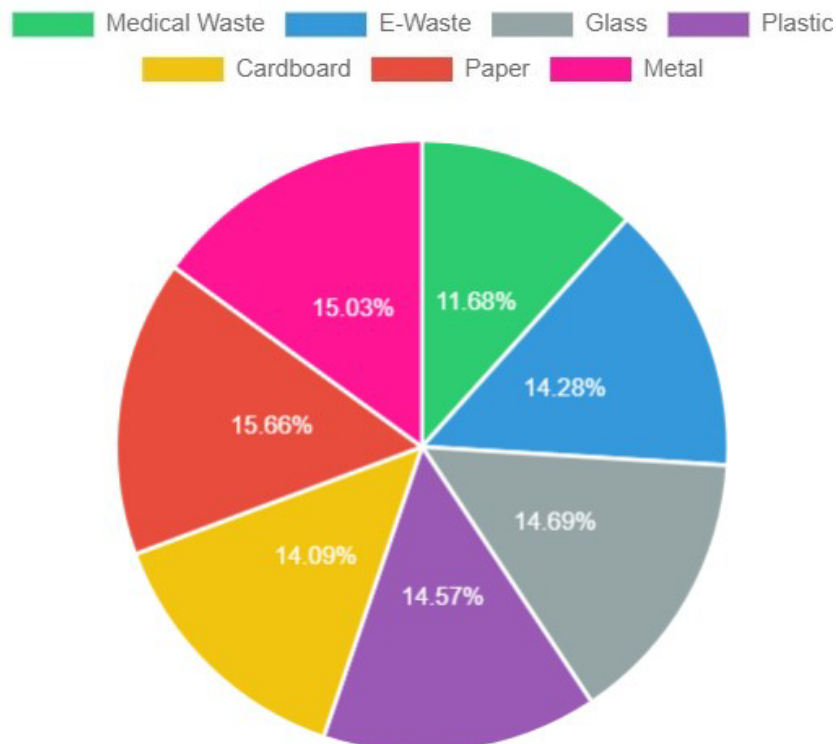


We have created a new dataset called [TrashBox](#) for trash object classification. The images in TrashBox were classified into 7 classes: medical waste, e-waste, glass, plastic, cardboard, paper, metal. Furthermore, these classes are divided into sub-classes to facilitate the distinction between various trash objects. The details of the sub-classes are given in the table below.

TrashBox was prepared by extracting images of trash objects by performing a comprehensive search on the web. For this purpose, [WFdownloader](#), a batch download software tool was used. This tool allowed us to download images in bulk from Google Images, Bing Images, among a variety of sources. The downloaded images were then manually cropped and sorted into their respective classes.



Trash Classes	Sub-classes	No. of images	Total images
E-waste	Electrical chips	615	2883
	Laptops & smartphones	774	
	Small appliances	926	
	Electric wires	568	
Medical waste	Syringes	507	2010
	Surgical gloves	496	
	Surgical masks	500	
	Medicines	507	
Metal	Beverage cans	1000	2586
	Construction scrap	539	
	Spray cans	500	
	Metal containers	505	
	Miscellaneous metal	42	
Plastic	Plastic bags	504	2669
	Plastic bottles	571	
	Plastic containers	580	
	Plastic cups	507	
	Cigarette butts	507	
Paper	Tetra pak	794	2695
	News paper	200	
	Paper cups	639	
	Other paper objects	1062	
Glass	Assorted glass objects	2528	2528
Cardboard	Assorted cardboard objects	2414	2414