Design manual for spaces dedicated to waste bins and containers in public spaces

Waste Flow Several Waste (organic waste, plastic waste and other family waste)

Impact on PESTEL categories Economic, Social, Technological, Environmental, Legal

Location of the good practice District of Altona, Hamburg

Stakeholders involved

Ministry of Environment and Energy Hamburg, Ministry of Urban Development and Housing Hamburg, Stadtreinigung Hamburg, architects, planners and engineers, public and private housing companies

Keywords supply chain, selective waste, protect health

Description

In general, there is a lack of public recycling container sites. Existing container sites often suffer from littering and some of them are not well accessible for elderly and persons with a handicap. The sites where private bins are located especially in larger housing estates are often not well designed as one consequence citizens often do not separate waste correctly. Both public and private containers sites often have a negative impact on open spaces. Therefore, a design manual for architects and planners is proposed to improve private and public container sites in cooperation with citizens.

Objective

The solution aims to improve design and accessibility of containers and bins which will lead to a better usage. Consequently, the correct separation and recycling rate will increase, while littering will decrease. Environmental aims are reducing the odor; improving the environmental quality by greening the containers sites with aromatic plants or bushes and recycled materials for constructing the containers. Economic aim is an improved and more efficient waste management, caused by a better recycling rate. Social aim is to make neighborhoods more livable by redesigning the waste sites.

For further information Link to D5.7 Eco-innovative solutions Hamburg

Typology	Proposed design	Des
Flexible/Modular —		Modular contained gether according Around them around violets, Illac, rose insert in order to the space and rea
		Public containers existing urban f This example show der a banch, dedic the construction transparent, pre der to allow the of matirial the
Permanent		More permanents Near existing par to install new con gic position beca waste on their w aromatic plants v coverodour and v to improve the 1
		New bins could garden, this wou rate of bio-waste make composta would be a smart around the public
		Each container, color linked to lect to be in the example has a glass pa show what the re. the paper

3.2 Examples for Altona Sample Areas



Figure 4.28 Examples of public bins in the Sample areas. From the top left to the bottom right (HCU - TUD students SoSe. 2018).

d be assembled t emand to be me lants, as lavande smin, should be ve the livability o pleasant odor

be integrated with re, like bench es stic container un papers collection irial should be plastic, in or see which kin

n could be adopted re is the possibilit rs. This is a strate r can leave thei he park, morove sert in order to the bins, but als

ert inside urba lp to improve the ation in order to in the other and on to use the space ners that is usua

hould have naterial it col recognizable