

## **The implementation of sustainability principles and solid waste management through public art field**

**Prof. Ahmed Shehata Abo Al-Magd**

Professor, Department of Decoration, Faculty of Applied Arts, Helwan University,  
A.s.abouelmaged@gmail.com

**Mai Mohamed Hussien Mostafa**

Teaching Assistant, Faculty of Applied Arts, Helwan University, Mai-Mohamed@buc.edu.eg

**Dr. Akmal Hamed Abdul Rahman**

Assistant Professor, Department of Decoration, Faculty of Applied Arts, Helwan University,  
Director of Graphic and Media Program, Galala University, Akmal.a.rahman@gu.edu.eg

### **Abstract:**

The research represents an overview of the forms of environmental pollution that we are currently experiencing and the leftovers of many forms of waste, which has become a major burden on the components of the environment due to the difficulty of disposal, and its growth, into various urban societies as a result of the high limit of human consumption and life requirements which led to explore modern methods to safely get rid of them through exploitation of solid environmental waste resulting from human life activities and industrial waste to decrease the side effects on the surrounding environment and human health, , through spreading concept of environmental culture as a part of visual and aesthetic values that represented in art forms.

Many artists and designers seek to find solutions that helps to reduce the quantity of this waste by following types of recycling and reusing method (within the basic principles of sustainable waste management) in the form of various types of visual arts that are implemented in public places by extracting different materials from Solid waste that found in certain environment, then categorizing and separating it according to the material , color , way of installation for each material to make a contemporary public art forms in the urban areas where people movement circulation and interaction with them on social, cultural, intellectual and psychological levels in residential areas and cities, promoting the process of visual culture/education by vision and perceiving artworks, spreading environmental awareness by introducing the principles of recycling and encouraging finding ways to exploit solid waste that the individual dispenses technically and functionally, which will lead to a change policies of dealing with waste, reducing its percentage and preserving The environment.

### **Keywords :**

eco public art , Recycling, Solid waste, environmental culture

### **References:**

1. Bridgens, B. Powell, M. Farmer, G. Walsh, C. Reed, E. Royapoor, M. Gosling, P. Hall, J. Heidrich, O. (published 2018) - Creative upcycling: Reconnecting people, materials and place through making - Journal of Cleaner Production
2. Gouda, E., (2011), "The Social, economic and environmental aspects of development of sustainability", National Defense journal
3. "Management of Solid Waste and Its Role in Supporting the National Economy ", (published 2017) - Institute of National Planning - Planning and Development Issues Series (No. 276)
4. Salem, R., (2010) "the impact of environmental conditions on the aesthetics of architectural facades " Faculty of applied arts, PhD thesis
5. Hosni, I., "sustainability of waste management ", research study on the global trend to localize sustainability
6. Ababsi, S., Sayed, T., (2017)" The reality of environmental pollution in urban areas - MA's thesis, Social Sciences department, Faculty of Social Sciences and Humanities, University of Martyr Hama Lakhdar
7. Hamid, S, (2005) "Aesthetic Preference, A Study in the Psychology of Artistic Taste", Cultural Books Series, The World of Knowledge, Kuwait
8. Hussien, M., (2014), " Documentary through murals and environmental design " PhD thesis, Department of Decoration, Faculty of Applied arts, Helwan university.
9. Englefield, J., (2021), Breakwater in Jamestown is both a public playground and a sculpture  
<https://www.dezeen.com/2021/02/25/breakwater-jamestown-playground-concrete-usa/>
10. Cusack, A., (2018) dolos, pl. dolosse, <https://www.andrewcusack.com/2018/dolosse/>
11. Brannan, C., (2021) What in the world is eco-theatre?, <https://www.thekaleidoscapes.org/field-notes/what-in-the-world-is-eco-theatre>
12. 27th Festival of Ecological Theatre for Children and Youth Assitej,  
<https://www.assitej-international.org/en/2021/09/27th-festival-of-ecological-theatre-for-children-and/>
13. Merton, A., (2016) "What is Eco Art? Being More Purposeful in Your Expression " ,  
<https://www.plushbeds.com/blogs/green-sleep/what-is-eco-art>

14. Art and Nature: The Emergence of Ecological Art(2021) , <https://blog.artsper.com/en/a-closer-look/art-and-nature-the-emergence-of-ecological-art/>
15. Upcyclist (2018) "Art installations", <https://www.upcyclist.co.uk/2018/07/art-installations-repurposed/>
16. Hellowell, A., "The top 5 most sustainable public art projects, <https://mtart.agency/the-top-5-most-sustainable-public-art-projects>
17. Bbc, (2021) "Environmental murals unveiled ahead of COP26 ", <https://www.bbc.com/news/uk-england-leicestershire-59076202>
18. The 10 R's of Sustainable Living(2021) , <http://www.sustainabletelfordandwrekin.com/get-involved/did-you-know/10-rs-of-sustainable-living>
19. Mairs, J., (2014) "Höweler + Yoon Architecture installation, " <https://www.dezeen.com/2014/09/25/howeler-yoon-architecture-swing-time-playground-boston-glow-in-the-dark/>
20. Saybe, (2020) "Beyond Walls PROJECT, <https://en.saype-artiste.com/istanbul-2020>
21. historic public Sculpture, <https://artfultours.ie/product/historical-public-sculpture-tuesdays-11-00-13-30/>
22. Artist Transforms a Rundown House in Arkansas Into a Rainbow Art Installation, <https://www.travelandleisure.com/culture-design/rainbow-embassy-art-house-arkansas-okuda-san-miguel-justkids>
23. Upcycled Scaffolding Planks Form Functional Ribbons of Steel and Wood in London's Broadgate Neighborhood, <https://www.thisiscolossal.com/2019/09/please-be-seated/>
24. Eco Sculpture by the Sea, <https://webecoist.momtastic.com/2015/07/27/eco-sculpture-by-the-sea-pavilion-made-of-70000-bottle-caps/>
25. Eco Friendly Graffiti, <https://graffiti-artist.net/murals/eco-friendly-graffiti/>

### ***Paper History:***

**Paper received 7<sup>th</sup> April 2021, Accepted 5<sup>th</sup> June 2022, Published 1<sup>st</sup> of July 2022**