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1.1 Introduction



Codesign `Public Participation' Design A Complex Interdisciplinary





Arup Designs Prototype Building Based on Circular Economy Principles

In a prototype developed for the 2016 London Design Festival, Arup Associates designed The Circular Building, one of the first buildings in the UK built to satisfy Circular Economy principles, in which "all components need to be implemented and utilized to their full potential and to the duration of their life cycle, while creating a comfortable and aesthetic environment for the user."

Ihrough the design process, extensive materials research and testing was required to ensure circularity. This information thus became a Materials Data Base and exhibition catalog, "collating for the first time information on the production, material substance, and next use of each asset," tracked via QR code,

The entire project was created in an eight-week design stage and build time of two weeks on a constrained site in central London.





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Biological Cycle

WHAT IS A WORMEN HOTEL?

A worm hotel is a cupboard on the street where local residents compost their vegetables, fruit and food scraps with the help of worms. This not only provides a valuable soil improver, it also makes the neighborhood more fun and pleasant.

lany people want to get started themselves for a better future and start a worm hotel. leighbors teach each other and the children the neighborhood how the cycle of organic aterials works and how nice it is to have more ontact with your environment. Twice a year at he harvest festival the home-made compost is istributed among the residents who participate nd all gable gardens and planters receive a ose of extra food. The neighborhood is becoming reener, cozier and healthier.

veryone wins at a worm hotel; the people in the eighborhood who become more fun, the municipality nat has to process less residual waste, the nimals and plants that receive better food and f course the worms that are spoiled all year round in a nice hotel!

nd then we are not even talking about the proud eroes of the social workplace who build the orm hotels, the supervisors of the neighborhood roups who earn a little money alongside their job by giving courses and helping with good composting.







is linked.







TOKEN tokens for shopping in the Pavi ototype, the habit and population of bats are the research direction, because the number of bats is very important to the ecology of Cardiff ycle between can learn to protect wild birds by making duck nests.

miniature plant environment. Plants are an important building to serve as a shelter for animals. Wood to be recycled and returns energy to the land. link in energy transfer.

structure conducive to plant growth to create a growable building structure to make a miniature recycling device to complete the energy cycle. Allows

C MOSTRE

This picture mainly introduces the role of circular economy in different This picture mainly introduces the real circular economy promoted in the prototypes in Grangetown project. It mainly refers to transactions between Grangetown project, and encourages residents to learn how to protect the

energy currencies. For example, plants receive energy from sunlight and soil and natural environment of Grangetown by giving residents tokens. pass energy money to animals and soil. Throughout the project, every prototype

This picture shows the design of the app for this project. Residents can learn the instructions to make prototypes and receive tokens.

App Introduction

