

EMERGENCY MOVEABLE BATHROOM FOR SITUATIONS AFTER FLOODS.

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INTRODUCTION

With the floods that occur in several cities, the inhabitants are in situations of extreme vulnerability in temporary shelters, where daily activities, such as: bathing, changing clothes or brushing their teeth, are practically impossible to perform. To meet this demand, a bathroom was developed in a container adapted to be transported to the affected areas, with a division for people with special needs and two other areas with showers separated by gender, sanitary basins and external sinks.

The invention provides a hydraulic system which is fed by the waters of the flood or directly by the river, this water is treated by ultrafiltration performed by membranes, and the heating of the water is carried out by solar panels or by the use of an electric generator, that is, the invention applies alternative sources for the generation of water and energy, working autonomously from the urban network, which is damaged after a disaster. The filth water generated can be taken to the nearest sewage treatment center or collected by a truck.

To increase the number of people that can be benefit by the invention it is possible to use more modules since the creation is a modular proposal: with two, it serves 120 people, with three, 180 and so on. It is still possible to modify the internal space to adapt the attendance to the specific needs of each case and to maintain the utilization of the energy resources

APPLICATION AND TARGET MARKET

In order to help in flood-hit environments, the patent is aimed at public organizations and NGOs.



Credit: Lauro Rocha

Images - They present the assembly steps of the technology and its front perspective.

DEVELOPMENT STAGE



Area: Health and Care (Human and Animals) and Energy

0090/2017 USP School of Architecture and Urbanism

SUPPORT AND FUNDING: ALCOA Foundation.

Patent protected under the no.: BR102018004410-9

São Paulo Pole

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