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Urban and Public Design

Multipurpose Surface Friendly Carrier Sistem (MSFCS)

It is well known that some types of plastics are perfectly recyclable. But unfortunately, it is impossible to reject materials and plastics that are difficult to recycle. Even if they are relatively neutral and non-toxic in nature, they degrade and lead to the formation of microplastics, which are harmful to many ecosystems and humans.

This project will use some inert, but poorly recyclable materials such as polycarbonate, nylon, rubber and textolite as a filler for the compound from which the parts are made. On the outside, the parts are covered with a layer of polyurea that insulates the content from the environment. This solution will insulate a significant amount of plastic from getting into the ecosystems for years to come.

In terms of design, it is a very simple modular solution to create multi-purpose carrier systems. The design is inspired by the form of concrete breakwaters commonly found around the world. In a sense, as a kind of urban sculpture, it is reminiscent of the coastal flooding problem due to climate change.

An important feature is the ability to distribute a significant mass over a large support area, which allows you to place a payload without foundation and without damaging

the surface. In different versions it is both an element of the urban environment and a support for use in the natural landscape.

The modules have a very long service life and are repairable. Even after compound life time expiration, it will keep the plastic from penetrating into nature. It is hoped that over time, new technologies will allow efficient disposal of the modules. At the very least, we can delay the escalation of the problem until more efficient approaches to production and recycling emerge.

Source of plastic: Dismantled greenhouses, industrial waste, E - waste, household solid waste.

Type of plastic: polycarbonate PC, nylon PA , rubber

Other Materials Involved: Epoxy resins, polyurea coating

Dimensions: 40 - 120 cm, 20 - 700 kg

Already in production?: No

Produced by:

Video presentation of the project: <https://www.behance.net/gallery/135521433/MSFCS>

Did you participate in other contests with the same project?:

No

Website:

Link all'application:

<https://drive.google.com/open?id=1BRAAQhLmTYFhJ95q2iFEa-i8GTITCeC8>