

The Winners

Ro Plastic Prize 2022

June 9th - Czech Republic, Italy and France are the country winners of the three categories of the fourth edition of the international challenge RoGUILTLESSPLASTIC, the project founded and curated by Rossana Orlandi and her daughter Nicoletta Orlandi Brugnoli.

1st places

For URBAN AND PUBLIC DESIGN, wins

[Balance is Motion with the project Foamy](#)

In the Foamy project, we are envisioning a new and exciting life for waste foam material Polimix from the local Czech manufacturer Yate. We designed small collection of furniture intended for indoor use in public spaces (eg. libraries, hospitals, ...). We gained the inspiration from the material itself - its eye-catching surface in combination with its physical properties make it a great option for seating. As there are certain limitations regarding its technology of recycling (it can be currently produced only in limited formats and sizes) we decided to work with segments of foam which are held together by metal frame. Bases and side panel are made out of recycled plastic boards manufactured by local group Plastic Guys. Our designs are modular and each part can be replaced when signs of wear occur. This would not only prolong the life span of the furniture and enable easy repair but also reduce the necessary storage space and enable an easier transportation.

For INNOVATIVE AND TECH PROJECTS, wins ex aequo

[Luigi Mandelli with the project M19 \(Machine Nineteen\)](#)

The idea came out in the booming phase of Covid 19, where face masks were the most sought after item in the world, as there was a huge shortage. A "task force" of the most prominent Italian institutions, was studying ways to produce masks and (even better, if possible) to try and re-use them. Studying the gold standards of the

time, I realized my firm had the know-how and the abilities to try and build a machine that could be Covid and bacteria killer, and re-generate disposable masks. This would have an unprecedented benefit in environmental impact.

[Davide Crippa with the project FORESTA LIQUIDA](#)

The Foresta Liquida© project was born from the experimentation of the Green Propulsion Laboratory - Veritas of Venice to reclaim the air of the cities, transformed into a product of design by the researchers of the IUAV University of Venice.

The project aims to address and challenge the problem of CO₂ concentration in the atmosphere that has currently exceeded the threshold of 415 ppm (parts per million), with a growth rate of 2.5 ppm per year.

Exploiting the ability of photosynthetic microorganisms to capture CO₂, the project imagines a product (BRM basic element) to be installed in indoor and outdoor spaces of the city that is able to biofix carbon dioxide through the physical and chemical process of photosynthesis: in practice, the conversion of CO₂ into organic compounds through light energy and release of molecular oxygen.

For EDUCATIONAL SOCIAL MEDIA, wins

[RPSD with the project Recycled Plastic Skateboard Decks](#)

Tackling plastic waste, democratizing access to skateboarding & proving to people what products made from recycled plastic can really do through production of skateboard decks.

We achieve this by publishing research about plastic recycling, which we publish online, open source, for free. Our most notable achievement is designing and building our own mould that allows skateboards to be produced at a low cost and with a small amount of infrastructure, e.g. in a domestic or small commercial context using basic tooling.

We publish multi media content (Instruction Videos, CAD files, BOMs, Diagrams) about how to replicate all of our work online, for free, to make it as easy as possible for people to copy our process. Our main publication platform for our content is YouTube, where we publish "How-To" videos detailing our research.

The thing that often stands out about products made from recycled plastic is the beauty of their appearance but what's often overlooked is their strength & durability. Skateboard decks were chosen because they demonstrate this. When people see someone riding a deck, a thin slither of recycled plastic, they are

communicated the idea that it's strong & durable. It also gives people a tangible reward for recycling, with greater incentive than alternatives.

Aside from environmental benefits (Traditionally decks are made from Canadian Maple & the biggest contributor to their deforestation) there is the social incentive. Skateboarding remains out of reach to many due to their economic situation. Making decks from waste dramatically reduces cost & hence increases accessibility. Skating provides a fun, social hobby, which is healthy to participate in on many levels & prevents people slipping in to anti-social patterns such as crime & addiction that comes hand in hand with poor economic situation.

The production of the decks uses open source technology (shredder & extruder). The machines are being replicated & used by 1000s of people all over the world so there is already an expansive network of recyclers & machinists familiar with the process involved.

Ro Plastic Prize awards the winner of each category with a **prize of 10.000 Euros** to be used for the **development, production and commercialization** of the submitted project.

2nd & 3rd places

For URBAN AND PUBLIC DESIGN

2nd place | [Roberto Giacomucci with the project ecopakly](#)

3rd place | [Nada Elkharashi with the project Eggo: \[a perforated public canopy wall\]](#)

For INNOVATIVE AND TECH PROJECTS

2nd place | [Massimo Perusi with the project Gravity - The Moving Wall](#)

3rd place | [Patricia Urquiola with the project Nuez Lounge BIO](#)

For EDUCATIONAL SOCIAL MEDIA

2nd place | [Marcello Gaio Bondioli with the project The Garbage Collection](#)

3rd place | [Tobia Zambotti & Aleksi Saastamoinen with the project COAT-19](#)

Mentions

For URBAN AND PUBLIC DESIGN

[Gabriele Giusto with the project Hug](#)

[oya berrak behar with the project UP](#)

[Jacob Hixson with the project Plant Wall](#)

[Mohamed Hassan with the project Recycled Plastic Outdoor Seating](#)

[Paolo Nicolai with the project HERMES IN ATARASSIA DIVORATO](#)

For INNOVATIVE AND TECH PROJECTS

[Francesca Daloiso with the project Uliètu](#)

[Alessandro Battaini with the project S O L U S / Soluzione sostenibile](#)

[Alessia Hyka with the project TRESSA](#)

[SANY with the project How Hot](#)

For EDUCATIONAL SOCIAL MEDIA

[Anna Malench with the project FAST LIFE](#)

[Marlene Bruch with the project Greendesigns](#)

[Elisa Chiodo with the project Tik'it Up, Protect what you love](#)

Official IG [@guiltlessplastic](#)

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