



Open Call 1

Innovate with Recycled Reinforced Polymers:
Open Call for Designers and Artists

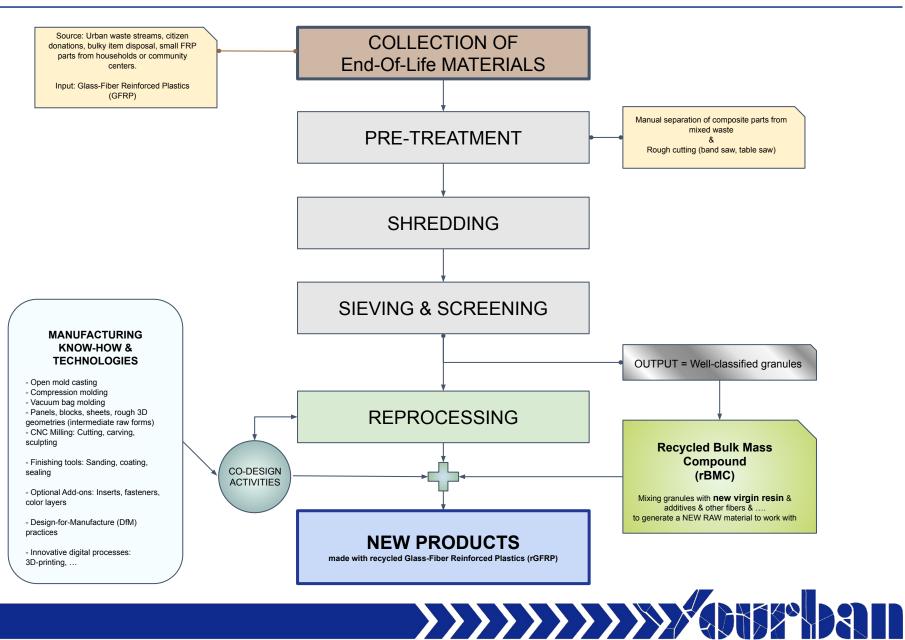
Annex A

Design Process & ProductsVisual examples and suggestions











End-Of-Life MATERIALS TO BE REUSED















Examples:

- Sailboats and motorboats
- Bathtubs and showers
- Water tanks
- Wind turbine blades
- Sports equipment (fishing rods, bows, skis)
- Protective helmets (motorcycle, bicycle, construction)
- Water park slides
- Outdoor furniture
- Components of medical equipment (operating tables, housings)
- Decorative statues and sculptures
- Rock wool panels

















Mixing together the grinded old material with new virgin resin, a new Bulk Mass Compound is created!

Research, experimentation and different trials are encouraged!

You can experiment with:

- different grinded granulate sizes
- using different virgin resin natures (polyester, vinyl ester, epoxy, phenolic,...)
- adding pigments
- mixing with fresh glass fiber / beads
- adding additives (antimicrobial, UV-resistant, Fire-retardant, ...)
- adding other filler materials (Elastomeric Particles for flexibility, Thermally Conductive Ceramic, Natural Fibers or Powders, Bio-based Mineral Fillers such as eggshell powder and seashell powder, ...)



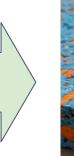


Intermediate Goods - sheets, blocks, simple shapes











These intermediate products can be used as material supply and semi-finished products for a second transformation stage.





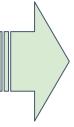
Finished Goods - Sheets additional processing













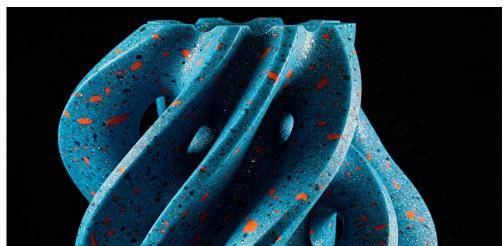




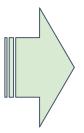
Finished Goods - Blocks additional processing















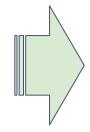


Finished Goods - Compression Moulding of rBMC











Example: a custom designed mould, manufactured with 3D-printing technologies and used to accommodate rBMC into it and give life to the digital design that was conceived from the beginning.



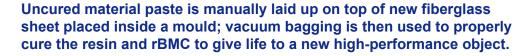


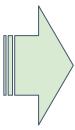
Finished Goods - Layup of rBMC & Vacuum Forming











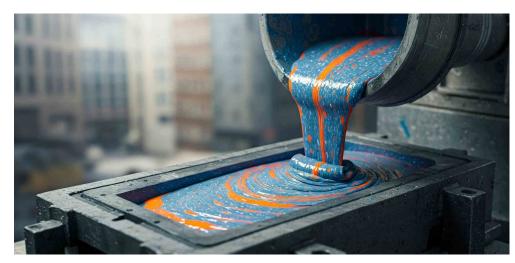




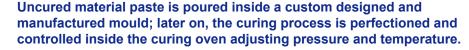


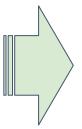
Finished Goods - Casting of rBMC















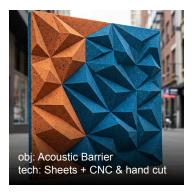


Objects Examples that can be manufactured with rGFRP





































Project Scope, Expectations, and Production "boundaries"

Projects submitted under the YouRban Open Calls are expected to present a comprehensive vision, integrating creative, technical, and sustainability aspects with the ambition to serve as exemplary, scalable models for local, circular, and sustainable production. Proposals should clearly demonstrate how the designer's or artist's conceptual vision is inherently aligned with the objectives of the YouRban initiative—namely, the promotion of regenerative design and the upcycling of reinforced polymers within urban contexts (namely: Milan) and/or urban/domestic scales (namely: Barcelona).

The outcomes developed during the 8-months residency period and 10-days Live Pilots events will serve as proof-of-concept demonstrators. These will reflect both the original ideas submitted at the application stage and their evolution throughout the 8-month co-creation and prototyping process.

Please note that the YouRban Consortium does **not require or expect full-scale or serial production as part of the residency**. Furthermore, the materials and resources provided through the project and by FabLabs / Urban Factories are intended solely to support pilot activities and artistic residencies prototyping/production activities. While participants will have access to recycled material and technical infrastructure, the scope of physical production will be determined in alignment with each project's specific characteristics and feasibility.

The production volume of **final outputs is to be considered as limited edition or prototype-level**, to be defined collaboratively with the assigned Urban Factory plus the whole YouRban partners consortium and based on available resources, technical constraints, and creative intent.

