



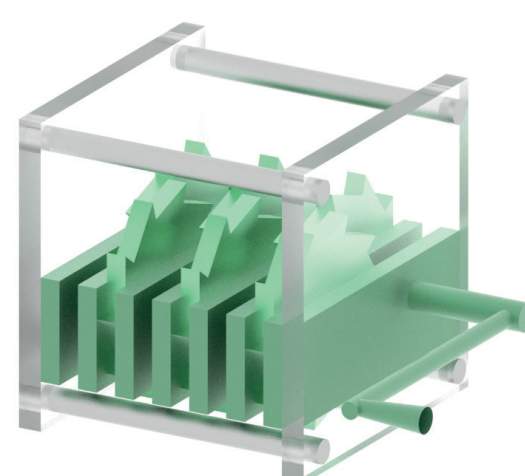
# FROM TRASH TO TREASURE

*transform your own plastic waste into new objects and learn hands-on in this upcycling workshop  
Join the Circular Economy!*



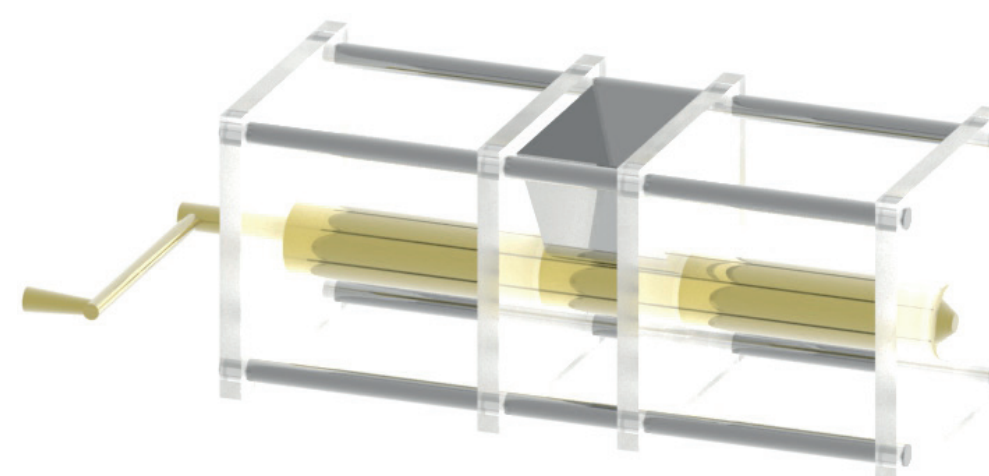
## STEP 1: WASH & DRY

Cut the top and the bottom of the water bottle, which are too hard to shred, and remove labels. Wash and dry the plastics to remove any impurities.



## STEP 2: SHREDDER

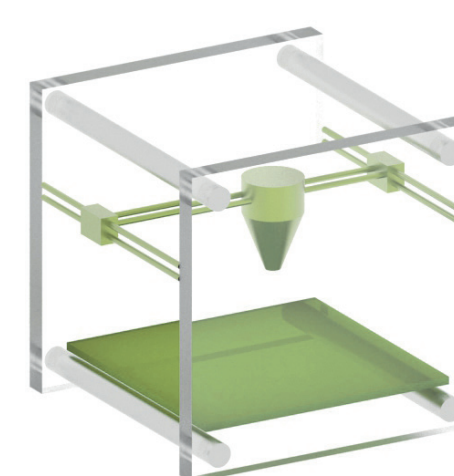
Insert the plastic materials in the shredder and turn the handle. Do not put too much plastic otherwise it will get clogged, and repeat the process at least two times. After shredding, sieve the result to filter out the small pieces. Careful: do not put your hands between the blades!



## STEP 3: EXTRUDER

The extruder will melt the plastic into a fine wire: filament! Wait patiently until it comes out of the nozzle (only type 6 polystyrene, do not mix with other types!).

Be careful: do not put too much pressure and do not touch the heating elements (hot)!



## STEP 4: 3D PRINTING

For this stage we're using filament from recycled plastics, produced by "REFIL".

The filament will serve as 'ink' for the 3D printer, which will transform it into a new object.

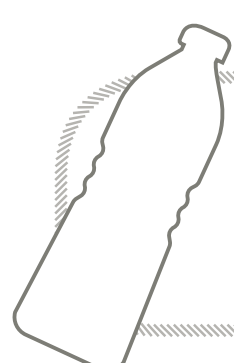
The filament produced in the previous step can also be used for handcrafts.

You're welcome to experiment!



## WHY WE NEED TO SEPARATE?

Different types of plastics have different melting temperatures, so they cannot be mixed during the process otherwise the machines will get clogged and we cannot produce good quality filament. At Being we're using types 1(PET) and 6 (PS). Follow instructions carefully, only under supervision, so everything flows smoothly. Welcome to the plastic revolution!



1

PET: Polyethylene terephthalate (e.g. water bottles)

6

PS: Polystyrene (e.g. food packaging, disposable cups and CD cases)

