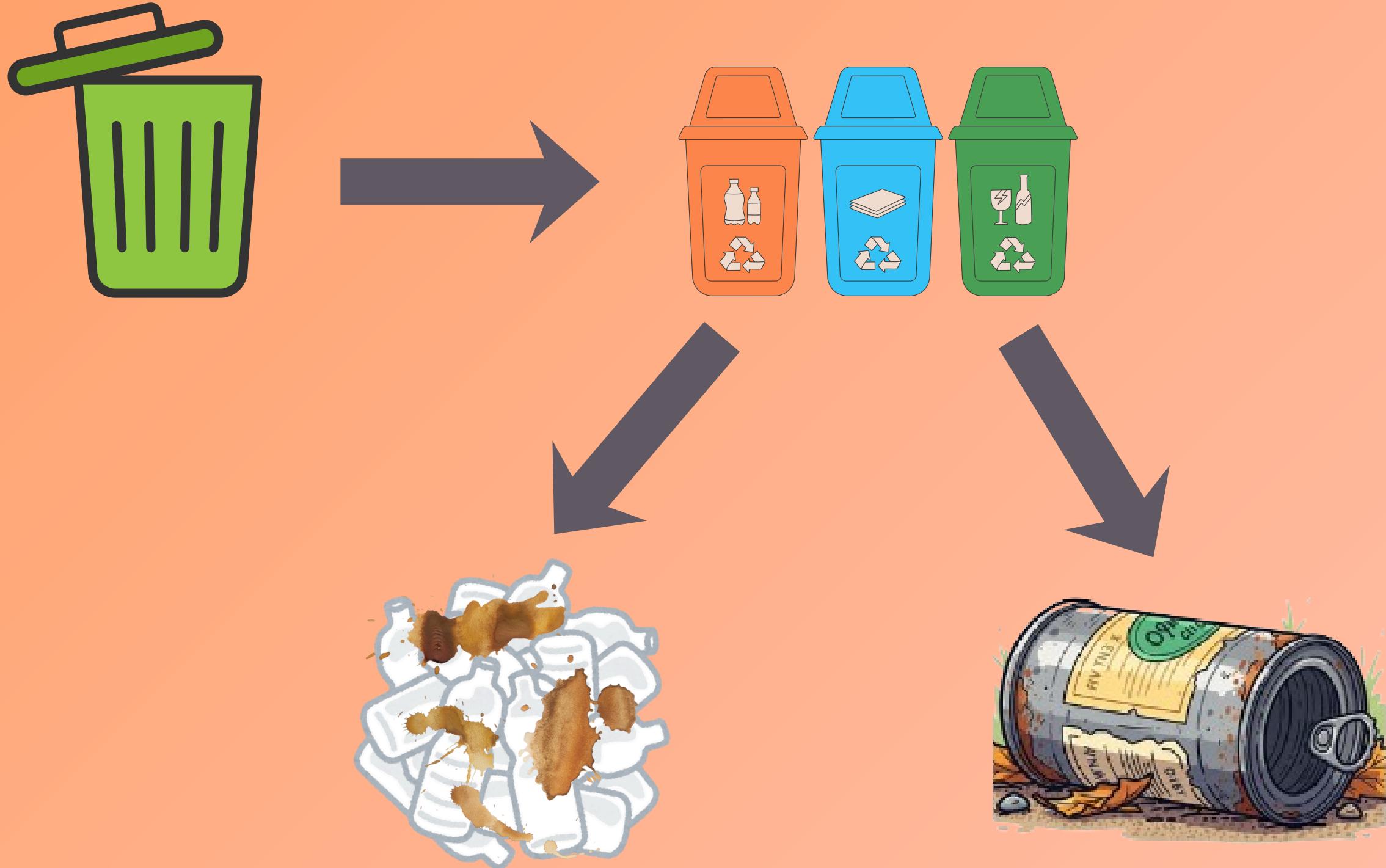




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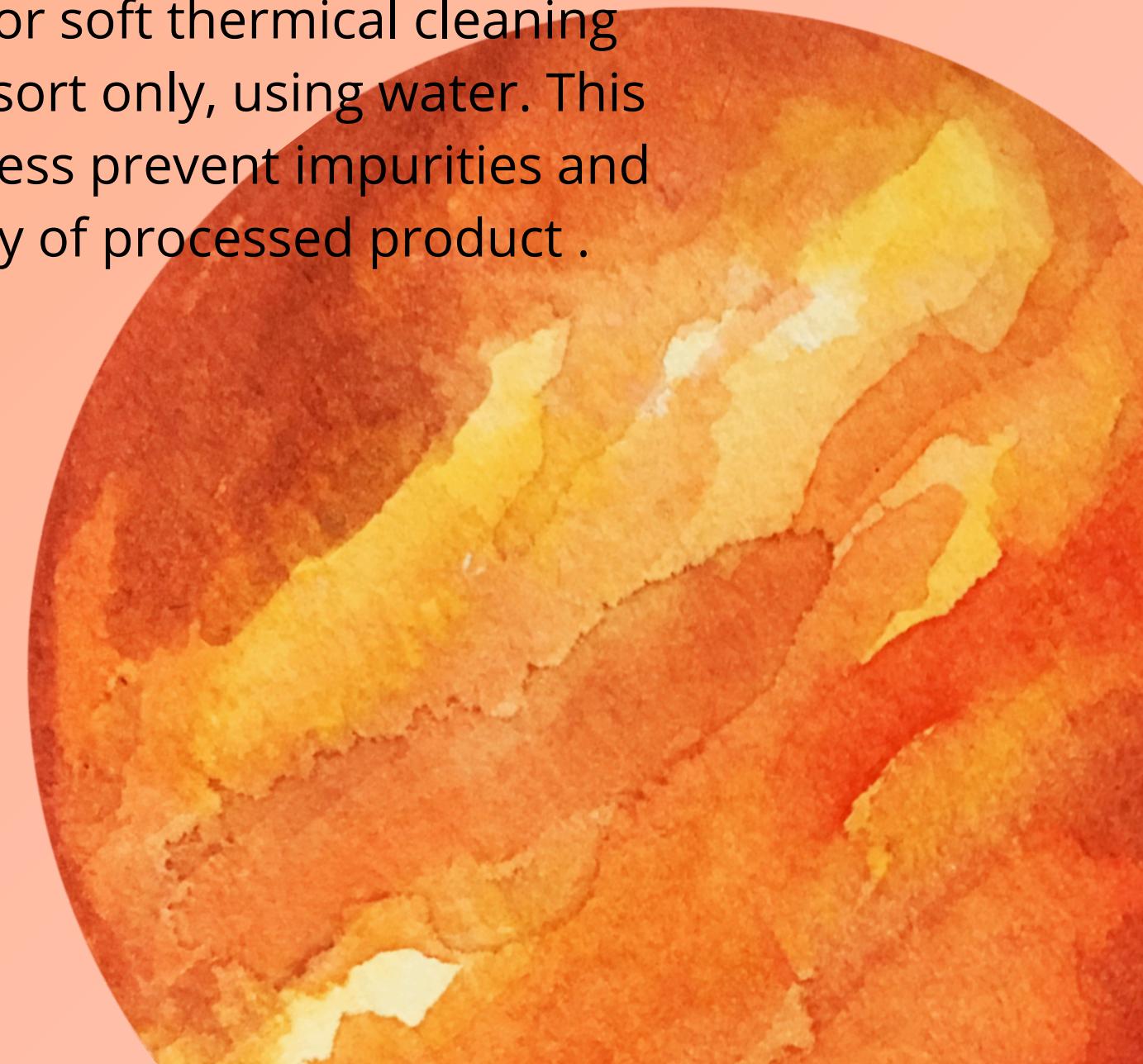
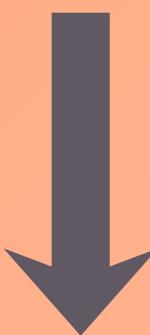
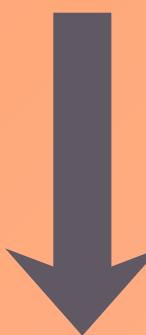


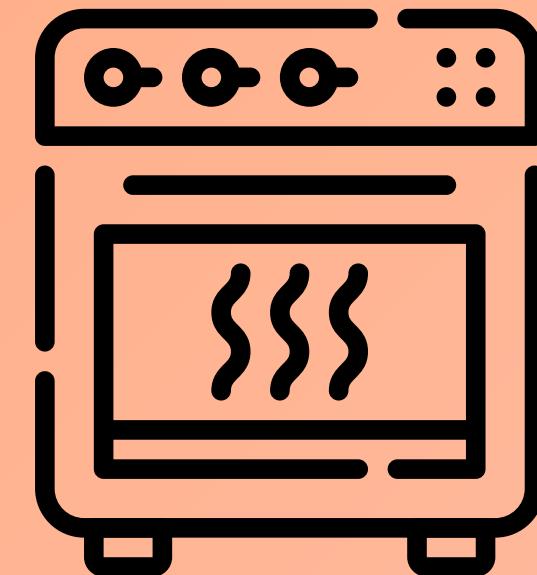
Step 1

Wastes are sorted and organized by the crew into categories which are polymers and metals. This method is called the Selective Sort.

Step 2

Wastes are cleaned by using mostly mechanical or soft thermal cleaning and in last resort only, using water. This cleaning process prevent impurities and poor quality of processed product .



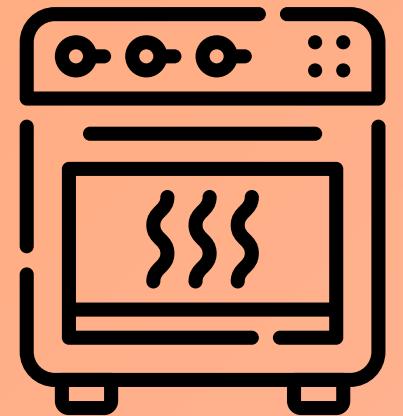


Gas levelling



Step 3

In module 1, the plastic is placed in an induction furnace (which has as energy source the gas released in module 3) modified, whose temperature can be changed depending on the melting point of the plastic. This operation leaves either a granulated residue or a plastic rope..



Utilisation of the emitted gases in
the module 1 as a source of energy

Step 4

In module 2, the metals are placed in the
induction furnace which is powered by the
gases collected at module 1.



Step 4

The products of the plastic processing have been transferred to a 3D printer which uses it to manufacture various tools such as utensils (forks, spoons,...), mechanical tools (screwdriver handle, keys,...).

Molten metal is used to make metal components (by moulding in moulds composed of MGS-1) such as: metal bars used in the construction of habitats and utensils.

The gas obtained is used as an energy source in module 1.