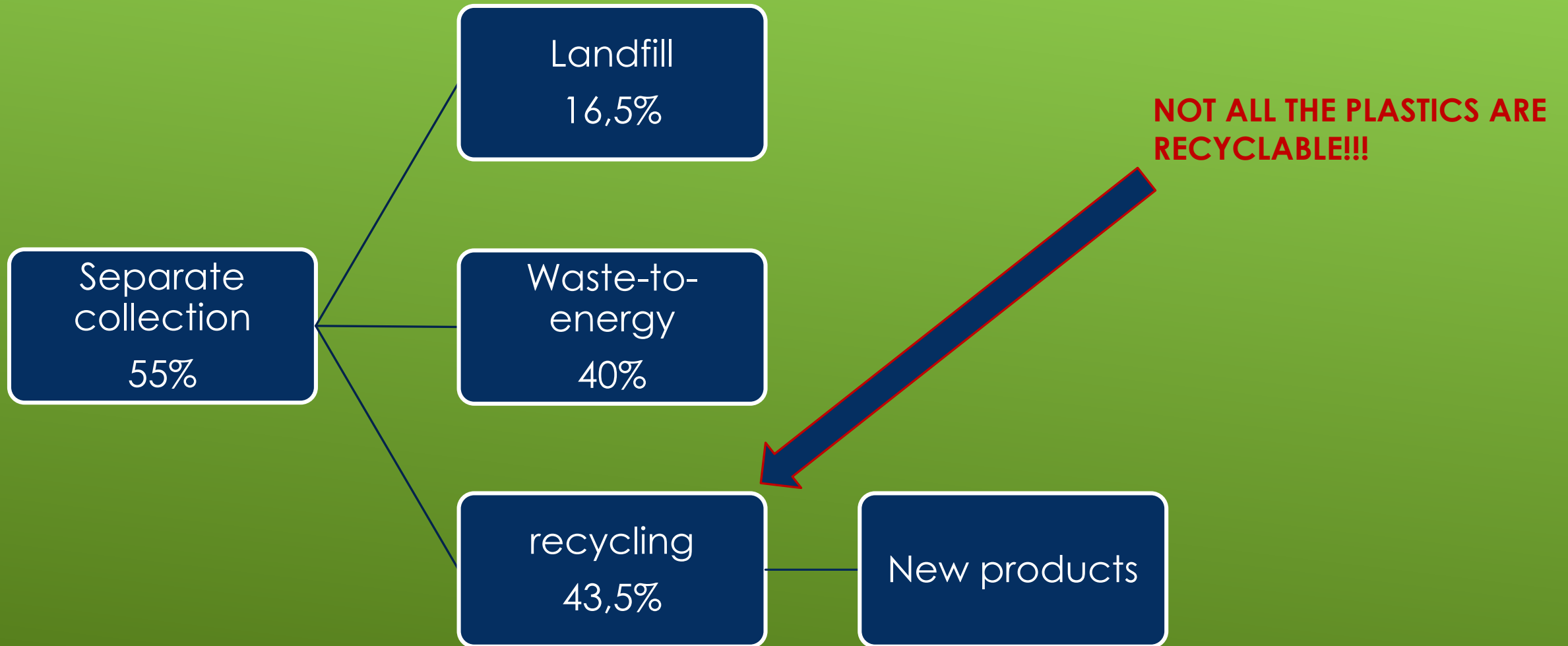


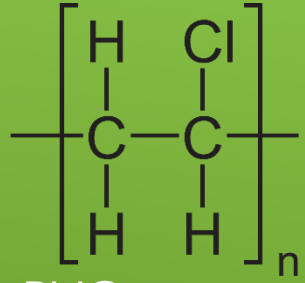
HOW TO EFFICIENTLY RECYCLE PLASTIC?

Francesco Sorti

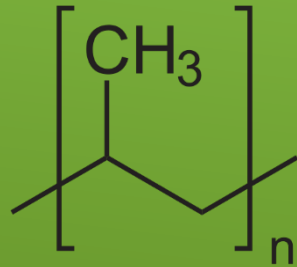
PLASTIC COLLECTION IN ITALY



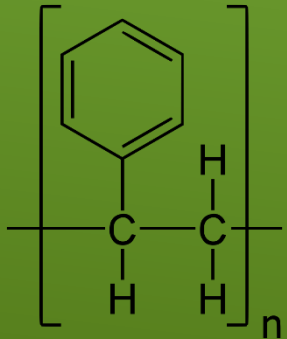
MAIN TYPES OF PLASTIC



PVC



PP

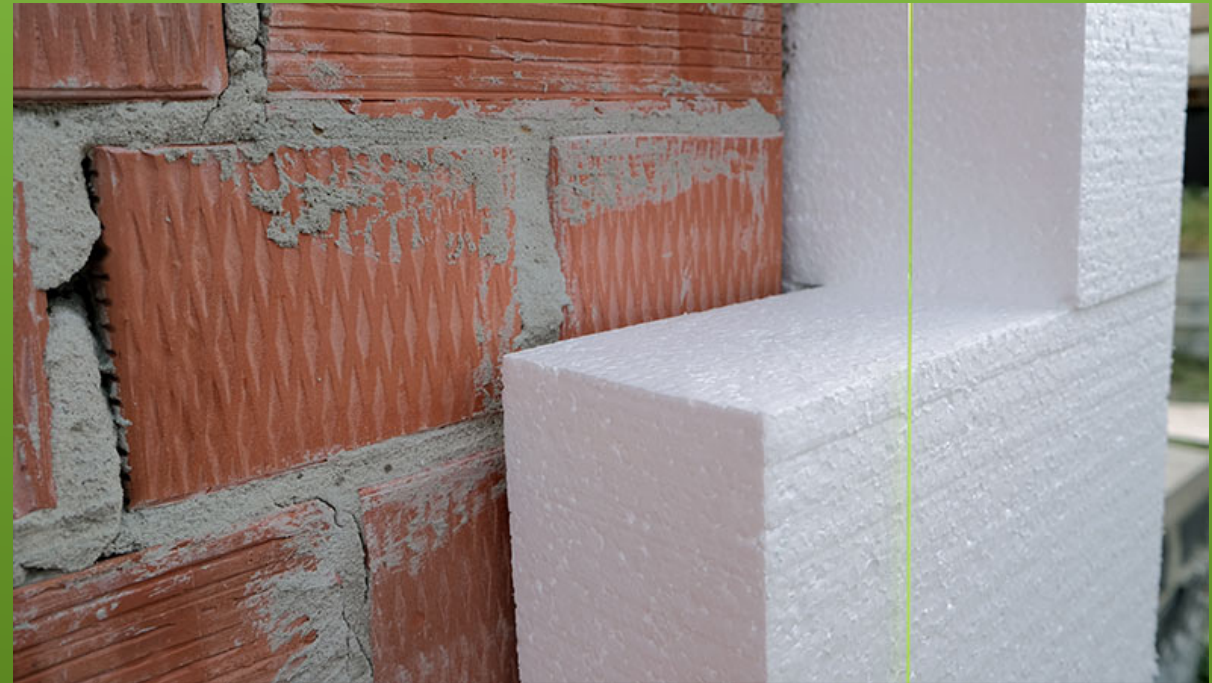


PS



symbol	name	IUPAC name	Recyclable?
01	PET	Polyethylene terephthalate	easily recyclable
02 04	HDPE LDPE	Polyethylene (high and low density)	recyclable
03	PVC	Polyvinyl chloride	hardly recyclable
05	PP	Polypropylene	hardly recyclable
06	PS	Polystyrene	hardly recyclable
07	other	polymethylmethacrylate polycarbonate polyamide melamine	non-recyclable

THERMAL INSULATION



THERMAL CONDUCTIVITY

$$k = \frac{Q \times d}{A (T_2 - T_1)}$$

AVERAGE PLASTIC	K (W/m*K)
PVC	0.160
POLYPROPYLENE	0,150-0,210
POLYSTYRENE	0,160

EXPANDED FORM	K (W/m*K)
PVC	0,030
POLYPROPYLENE	0,035
POLYSTYRENE	0,039

GLASS WOOL	0,040
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