















"Currently, there are 5.25 billion plastic particles scattered in the oceans, weighing about 268 thousand tons." (Jornal Economico, 2018)

"The first plastics, produced in the 1950s, are still with us, in degradation." (Viana do Castelo Environmental Monitoring and Interpretation Center, 2020)

"About 80% of marine waste originates or is made up of plastics." (Viana do Castelo Environmental Monitoring and Interpretation Center, 2020)

"Scientists showed for the first time in 2015 that, annually, about eight million tons of plastic materials end up in the sea, where they have been accumulating for decades." (Diário de Noticias, 2020)





Top 10 of marine litter found

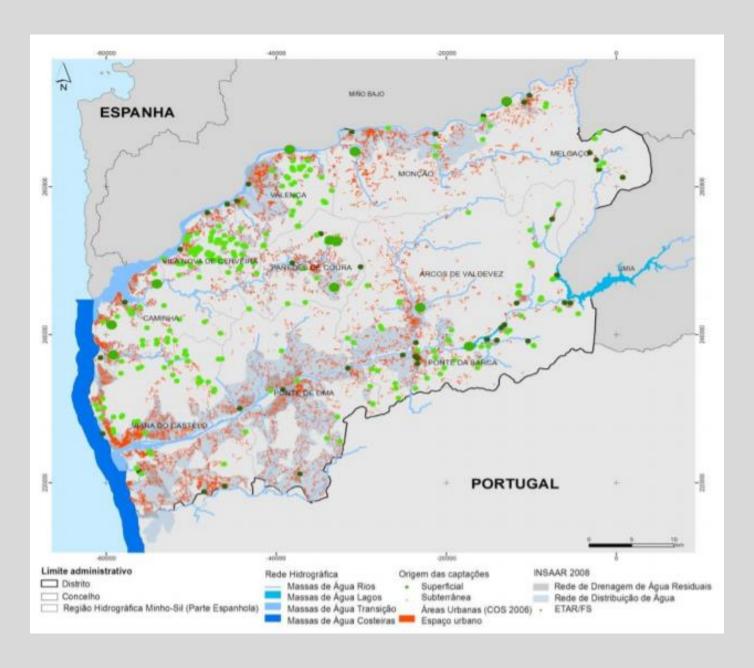
- 1. Microplastics
- 2. Cigarette butts
- 3. Cotton buds
- 4. Food packages (potato chips, cookies, chewing gums, etc.)
- 5. Bottle caps
- 6. Bottles of water
- 7. Fishing nets and ropes
- 8. Beverage packages (yogurts, juices, milk, etc.)
- 9. Plastic bags
- 10. Beverage cans



MORE THAN 5000 USERS













According to the data collected, on average they are consumed annually at the IPVC facilities:

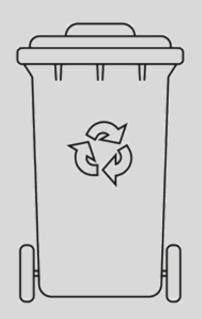


51 000 bottles of 500 ml

15 000 bottles of 1500 ml

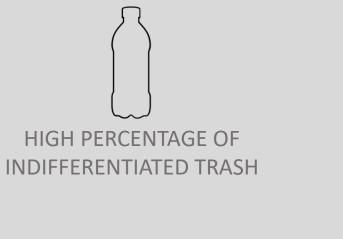


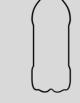
Equivalent to 1215 kg of plastic











ASSOCIATED CHEMICALS







ipvcesce

ipvcesa

ipvcess

ipvc ese

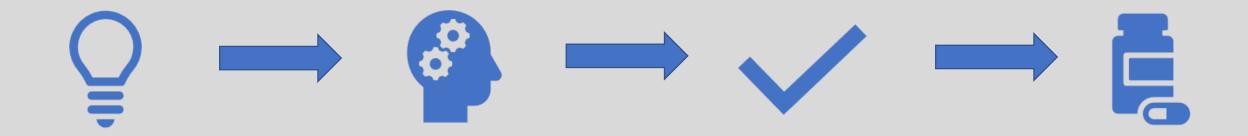
ipvc esdl



> 4600 students







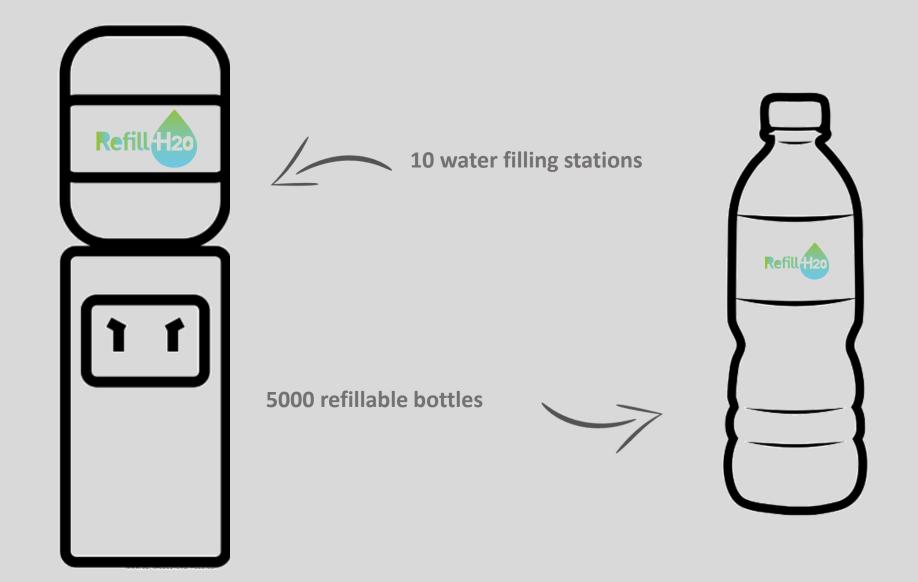
Functional requirements specification

Development and design

Experimental work

Dissemination and awareness









How much single-use plastic has been avoided?





10 secondary schools in Alto Minho region



10 elementary schools in Alto Minho region



Alto Minho beaches



Scientific papers, seminars and workshops regarding environment and sustainability

Dissemination and awareness