

PLASTIC SEA BROUGHT TO YOU BY THE MALTA NATIONAL AQUARIUM



8TH JUNE 2017 WORLD OCEAN DAY "PLASTIC OCEAN" SCREENING ————

OVER 3 TRILLION PIECES OF PLASTIC

CURRENTLY LITTER THE OCEAN.

DO YOU WANT MORE PLASTIC THAN FISH IN THE SEA?





WHAT IS A MARINE DEBRIS?

Marine debris is:

"any persistent solid material that is manufactured or processed and directly or indirectly, intentionally or unintentionally, disposed of or abandoned into the marine environment"

(U.S. Environmental Protection Agency)



Marine debris are





The most buoyant types of debris are made of

PLASTIC





Another characteristic, degradability, affects how long debris will remain in the marine environment.



An object is **degradable** if natural forces cause it to be broken down into smaller pieces.



In nature, material are typically broken down through a process known as biodegradation.

Biodegradation occurs when microorganisms (such as *bacteria* and *fungi*) decompose a material, causing it to be broken down into compounds (such as nutrients) that can be reused in the environment.



Plastic, glass, synthetic rubber, synthetic fabric and metal are typically resistant to

biodegradation.

Debris that does not easily degrade remains in the environment for a long time and is therefore **PERSISTENT**.

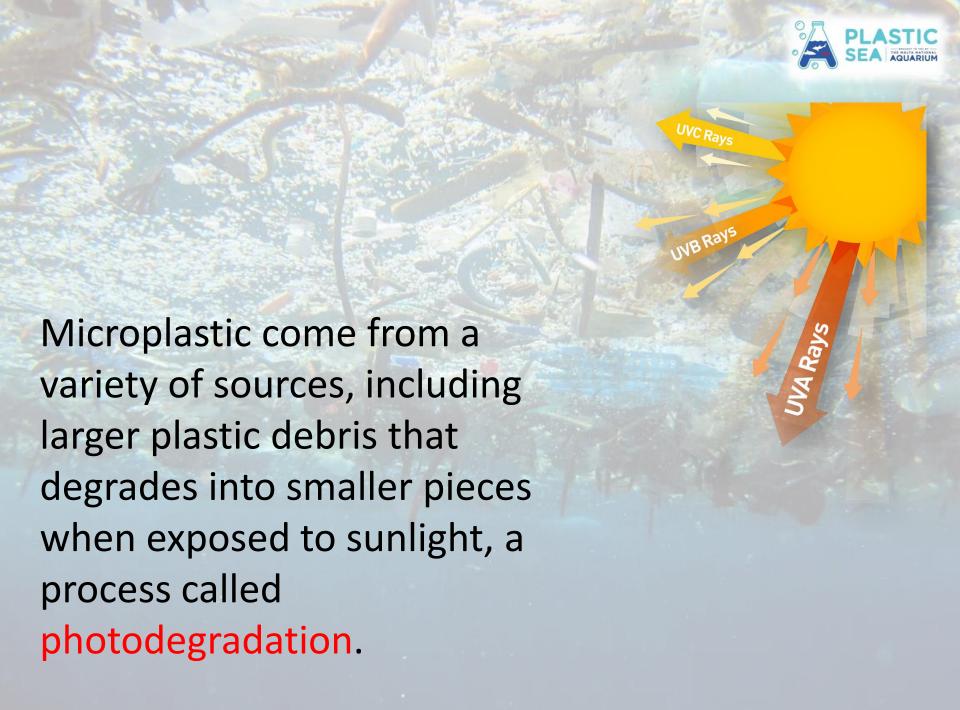




Plastic debris can come in all shapes and sizes but the pieces that are less than 5 mm in length are called "MICROPLASTIC"









In addiction, MICROBEADS, a type of microplastic are very tiny pieces of manufactured polyethylene plastic that are added as exfoliant to halt and beauty products, such as some cleaners and toothpastes.







Marine debris can have serious impacts on marine wildlife.

ENTANGLEMENT



- Wounds
- Infection
- Loss of libs

INGESTION



- Strangulation
 - Chocking
 - Suffocation



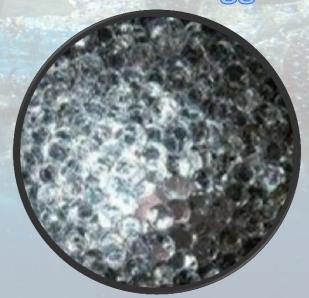
Ingestion sometimes happen accidentally, but generally animals ingest debris because it looks like food.

Resignables

Floating plastic baggie can look like a jellyfish

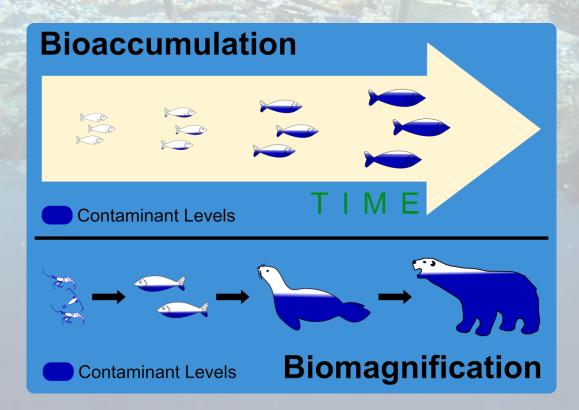


Resin pellets (microbeads) can resemble fish eggs





Marine animals ingest small pieces of debris that can accumulate in their bodies. When animals higher on the food chain eat those smaller animals, they also ingest the debris accumulated in their bodies.





More then **100.000** marine mammals die every year from entanglement or ingestion of marine debris.



Decline of the northern fur seal of Alaska



Endangered Hawaiian monk seal



Whales have been found entangled in derelict fishing nets and with marine debris in their stomach

Manatees entangles in crab pot lines



Thousands of seabirds are thought to die from entanglement of ingestion each year.



Entanglement in fishing line has been a particular problem for the **brown pelican**, which has been listed as an **endangered** species.

Fish and crustaceans are frequently caught in lost or discarded fishing nets and fishing line. This phenomenon is called **ghost**





Recycling is one way to reduce the amount of trash that must be disposed.

Recycling not only reduces the amount of solid waste going to landfills, but also prevents the emission of many greenhouse gases and water pollutants, saves energy...







Adopting pollutions prevention strategies that produce less waste in the first place is even a better solution than recycling alone.





EVERYONE CAN MAKE A DIFFERENCE!!







AND WE ARE STARTING TOO.... ARE YOU???

