MICROPLASTIC POLLUTION PROBLEM

1950 – 2018: **358.5 Million tons** of plastics have been produced worldwide.

(Okunola A Alabi1, 2019)

The amount of plastic is **expected to double in the next 15 years,** by 2050 **more plastic than fish in the sea**.

(Sarah Kaplan, 2016)



Plastic pollution represents 85% of all marine litter.

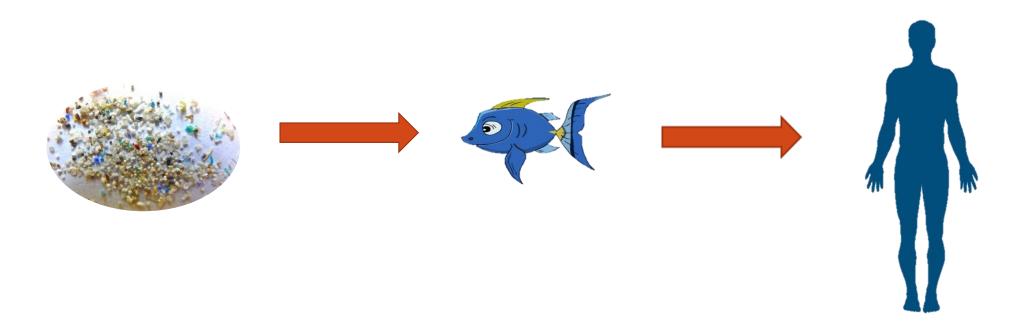
(Nairobi, 2021)



Microplastics (MPs) have generated special concerns



easy to transfer to marine ecosystems, across different trophic levels inside the **food web**.





(Markic et al., 2019)



Microplastic pollution has been detected in human blood for the first time, with scientists **finding the tiny particles in almost 80%** of the people tested.

(Heather A.Leslie et al, 2022)



Is a product built around a novel, lab-validated process to degrade MPs existing in aquatic bodies – ponds, lakes, and oceans.

ECOSPHERE IMPLEMENTATION PHASES

PHASE 3 Mega-scale



PHASE 2

Bridge from the micro substrate to a realworld macro scale application

(Nano-MM cell)





1.5 ml 1.5 ml DW DW

C2

MM(0.25g)+N

1.5 ml DW DW

C1

MP(5mg)

PHASE 1

Lab-scale

