

# SOURCES OF PLASTIC AND ITS LIFE CYCLE

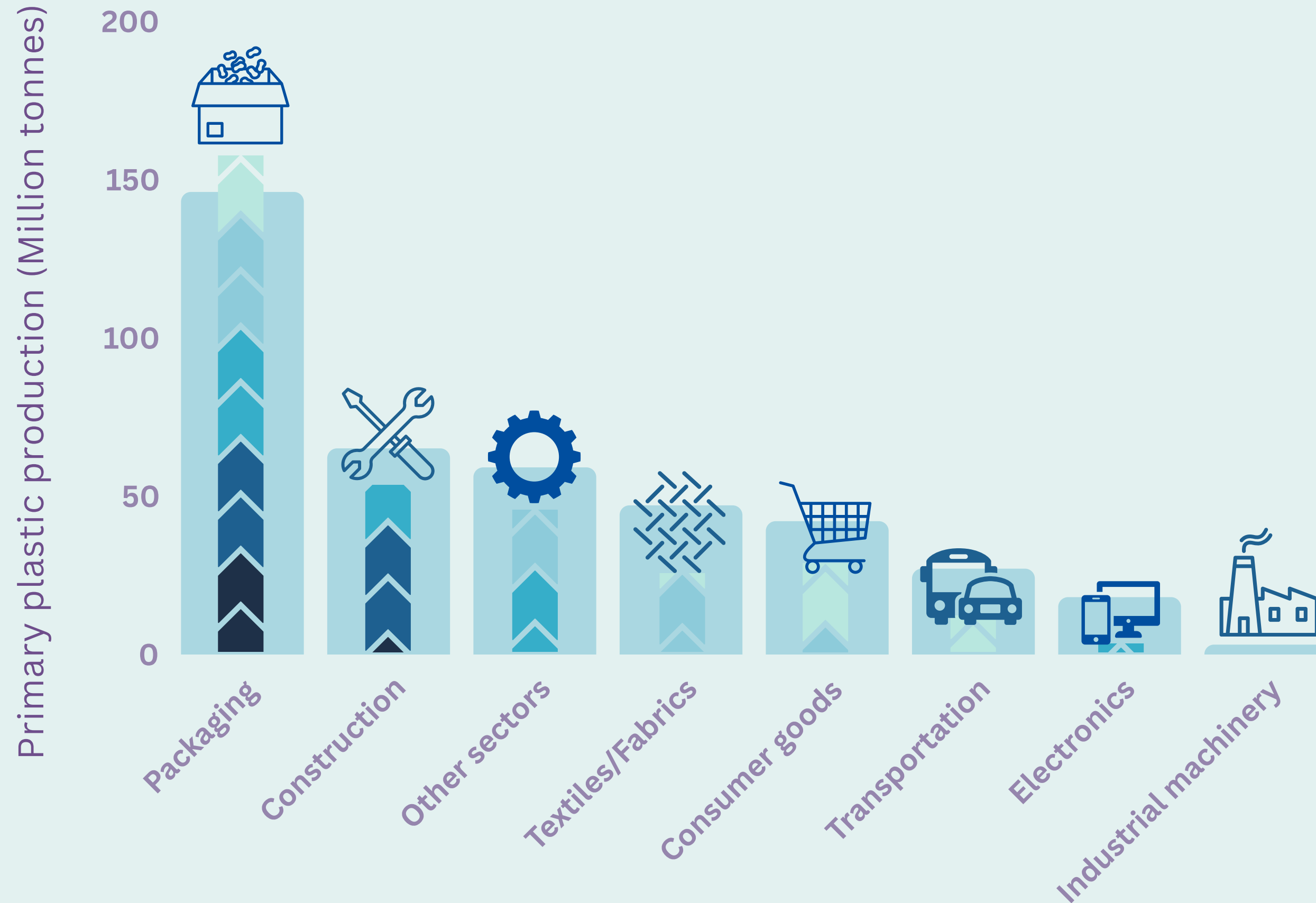
# DISCUSSION

HOW DO WE ALL USE  
PLASTIC?



PLASTIC USES

# INDUSTRY PLASTIC PRODUCTION



# BUT WHERE IS ALL THIS PLASTIC GOING?

**9%**  
IS RECYCLED

**12%**  
IS BURNT

**78%**  
GOES TO  
LANDFILL

**1%**  
GOES INTO THE  
OCEAN

# SOURCES OF OCEAN PLASTIC



**MISMANAGED  
PLASTIC WASTE  
(LITTER)**

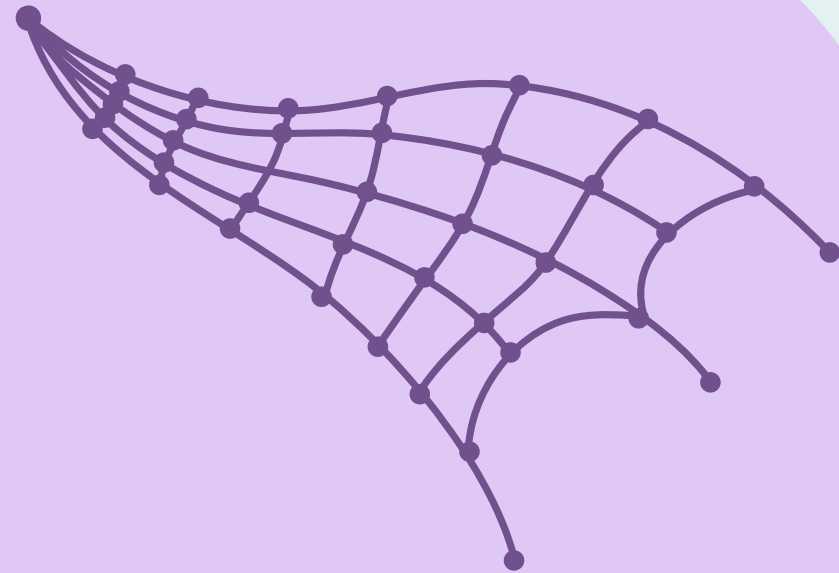


**SEA-BASED PLASTIC  
DEBRIS**



**MICROPLASTICS**

# EXAMPLES



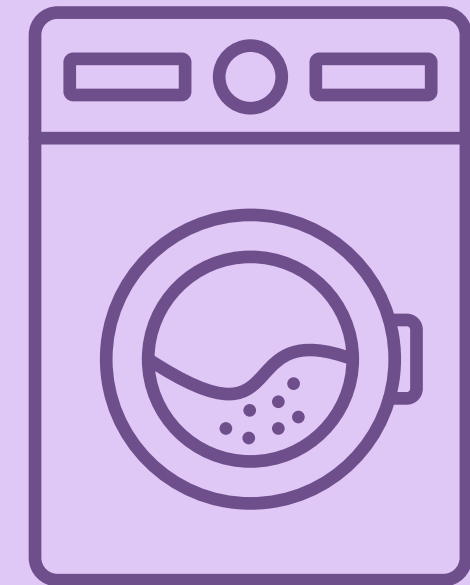
## FISHING NETS

ENOUGH LOST AT SEA  
EVERY YEAR TO  
CIRCLE EARTH MORE  
THAN 18 TIMES



## CLOTHING

NEARLY 70 BILLION  
ITEMS ARE MADE OF  
PLASTIC EACH YEAR



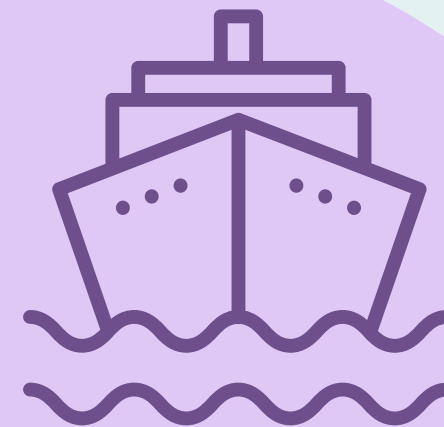
## FIBRES

ONE MILLION  
MICROPLASTICS PER  
LOAD OF WASHING

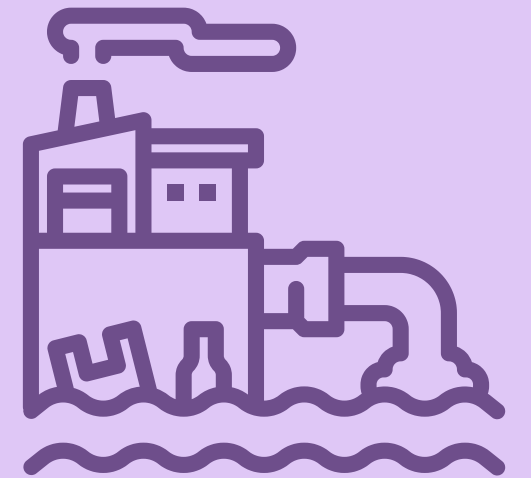
# PATHWAYS



WIND



DIRECT INPUT  
TO OCEANS



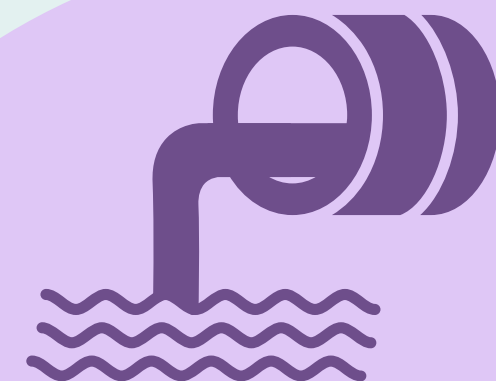
WASTEWATER



ATMOSPHERE



RIVERS



RUNOFF (E.G. URBAN,  
AG, INDUSTRY)



# DISCUSSION POINTS

## LOCAL SOURCES

HAS ANYONE EVER FOUND PLASTIC ON THE BEACH  
THAT THEY CAN RECOGNISE THE SOURCE OF?

WHERE IS MOST OF THE PLASTIC ON THE BEACHES  
AROUND ARNHEM LAND COMING FROM?

# PLASTIC IN NORTHEAST ARNHEM LAND

MARINE DEBRIS AND GHOST NET CLEAN UP OVERVIEW FOR 2022

DEBRIS WEIGHT  
**31,491 kg**

DEBRIS VOLUME  
**232 m<sup>3</sup>**

DISTANCE  
**87.5 km**

PEOPLE WHO  
HELPED  
**217**

GHOST NETS  
**9**

# SEA SHEPHERD & DHIMURRU ABORIGINAL CORPORATION



# **DJULPAN 2022 BEACH CLEAN**

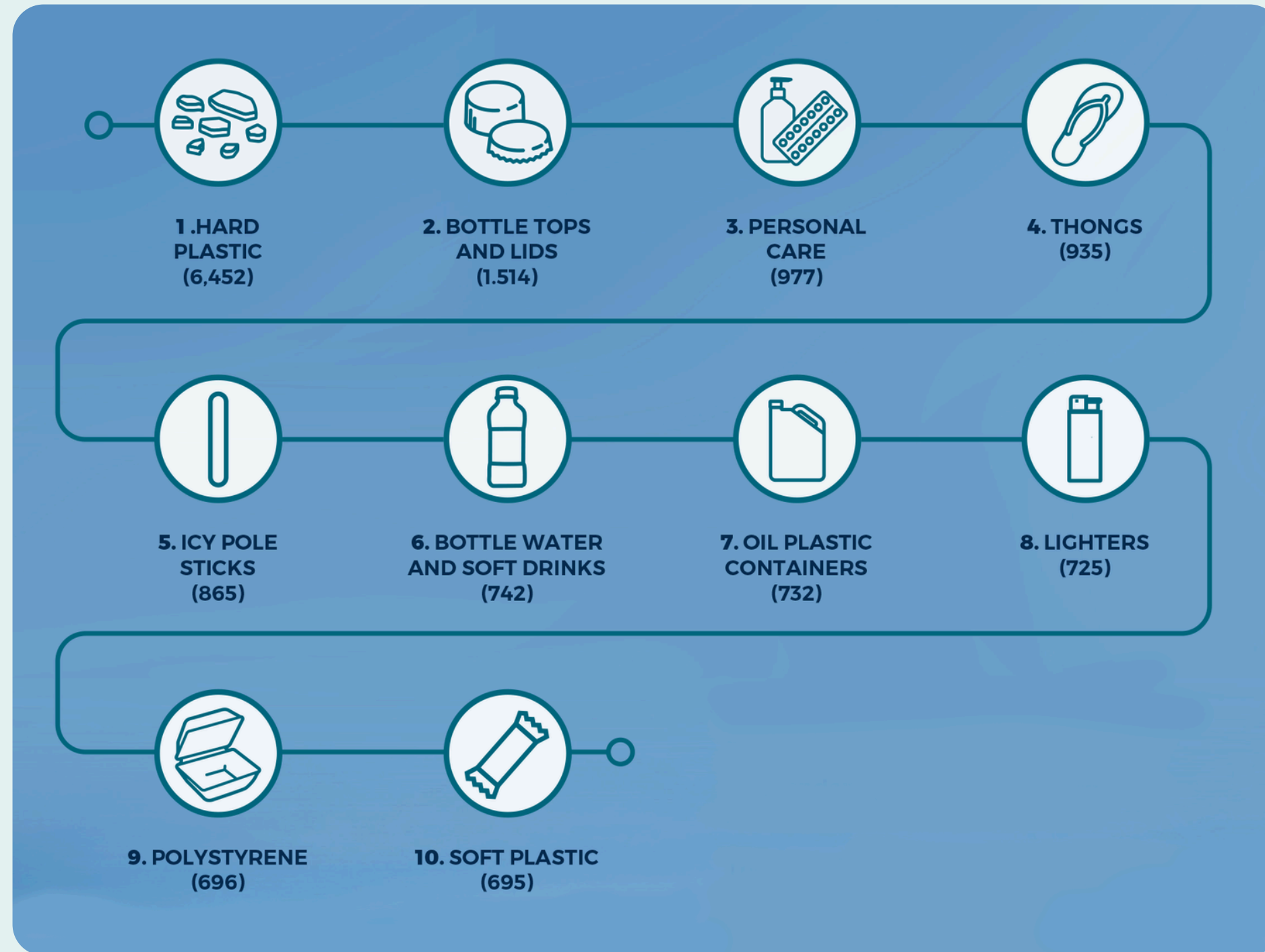
**SEA SHEPHERD AND DHIMURRU ABORIGINAL CORPORATION**

**DEBRIS REMOVED  
10.4 TONNES**

**FISHING NETS  
1.1 TONNES**

**CLEAN-UP BAGS  
1440**

# TOP 10 ITEMS COLLECTED



SOURCE: SEA SHEPHERD AUSTRALIA, DJULPAN IMPACT REPORT 2022

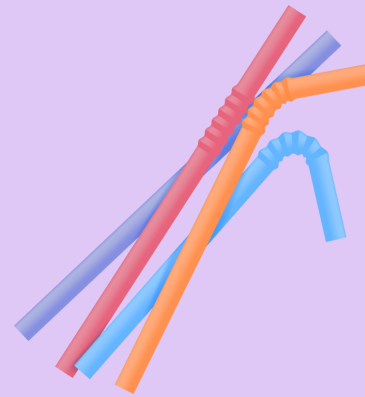
# LIFE CYCLE OF PLASTIC



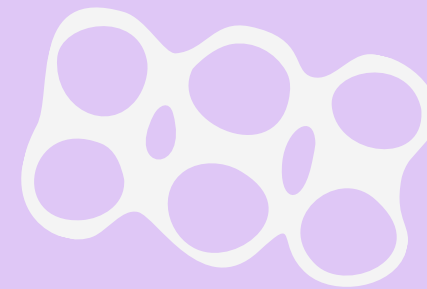
PLASTIC BAG  
20 YEARS



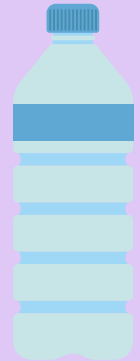
COFFEE CUP  
30 YEARS



PLASTIC STRAW  
200 YEARS



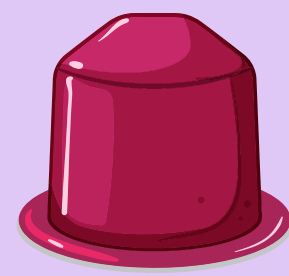
6-PACK RINGS  
400 YEARS



PLASTIC BOTTLE  
450 YEARS



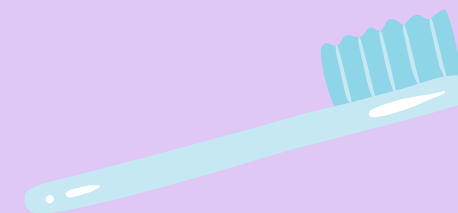
PLASTIC CUP  
450 YEARS



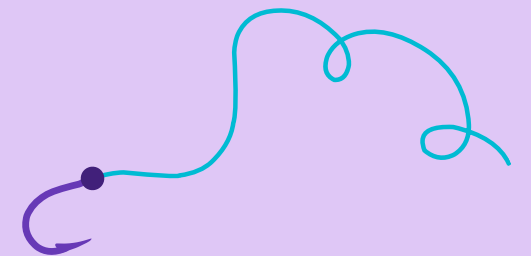
COFFEE POD  
500 YEARS



DISPOSABLE NAPPY  
500 YEARS



TOOTHBRUSH  
500 YEARS



FISHING LINE  
600 YEARS

# LIFE CYCLE OF PLASTIC



**PRACTICAL**

**LOCAL BEACH CLEAN EXCURSION**

**OR**

**CONTINUE SORTING BOTTLE LIDS  
AND USE THE RECYCLING MACHINES**