



**Water and  
Environment Support**  
in the ENI Southern Neighbourhood region

# FINDINGS & LESSONS LEARNED

# Water and Environment Support

in the ENI Southern Neighbourhood region

## Activity: N-E-DZ-1

Workshop on the WES marine litter activity in Algeria

**Transforming litter related observations to fit-for-purpose data: challenges, uncertainties, conclusions & lessons learned**

**Thomas Vlachogianni | PhD. Environmental Chemist & Ecotoxicologist**

Senior MIO-ECSDE Policy & Programme Officer

Senior WES Marine Litter Expert

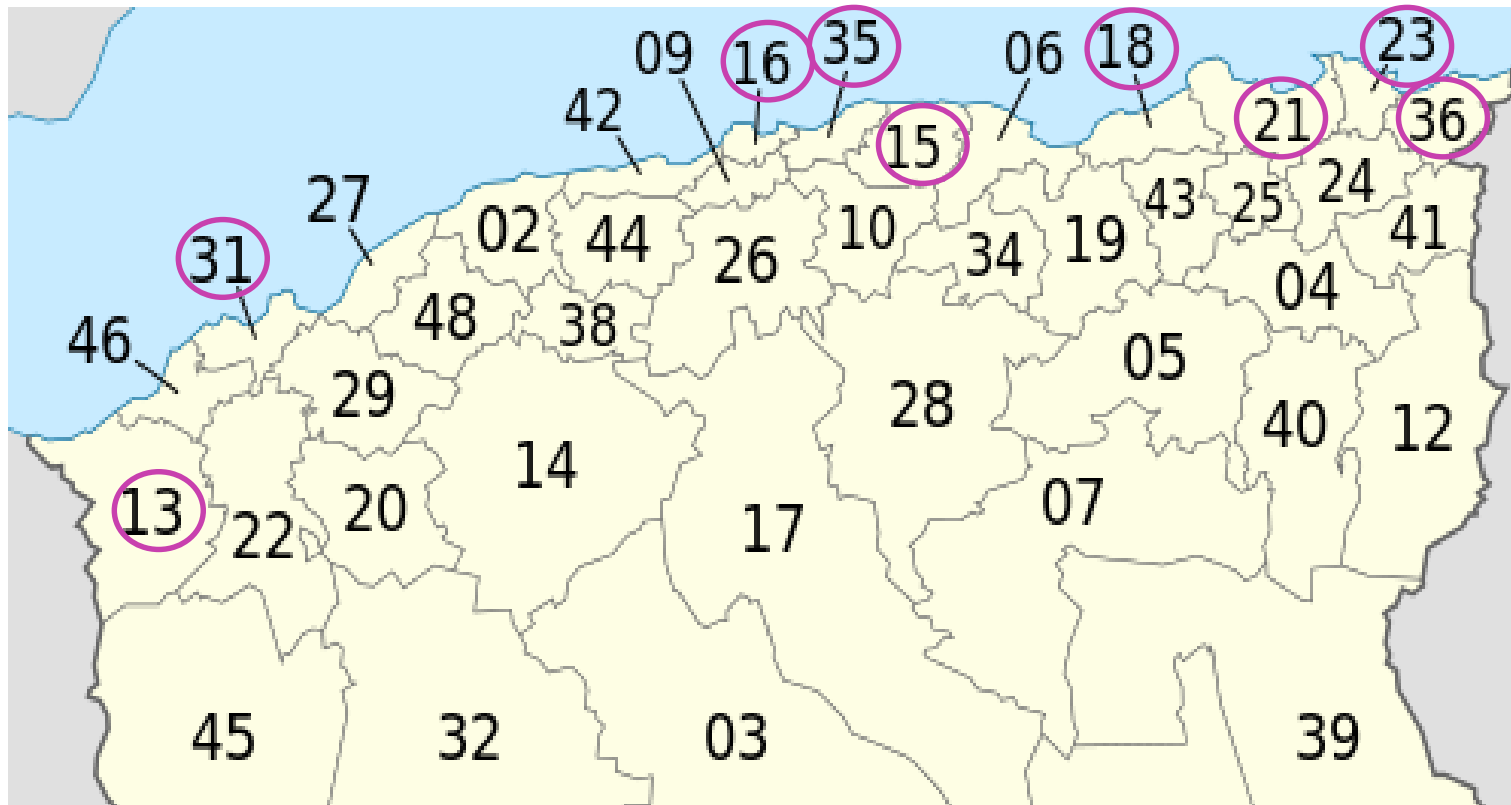
Member of the MSFD Technical Group on Marine Litter

Member of the UNEP/MAP CORMON Group

WP Leader of Plastic Busters MPAs & Plastic Busters CAP

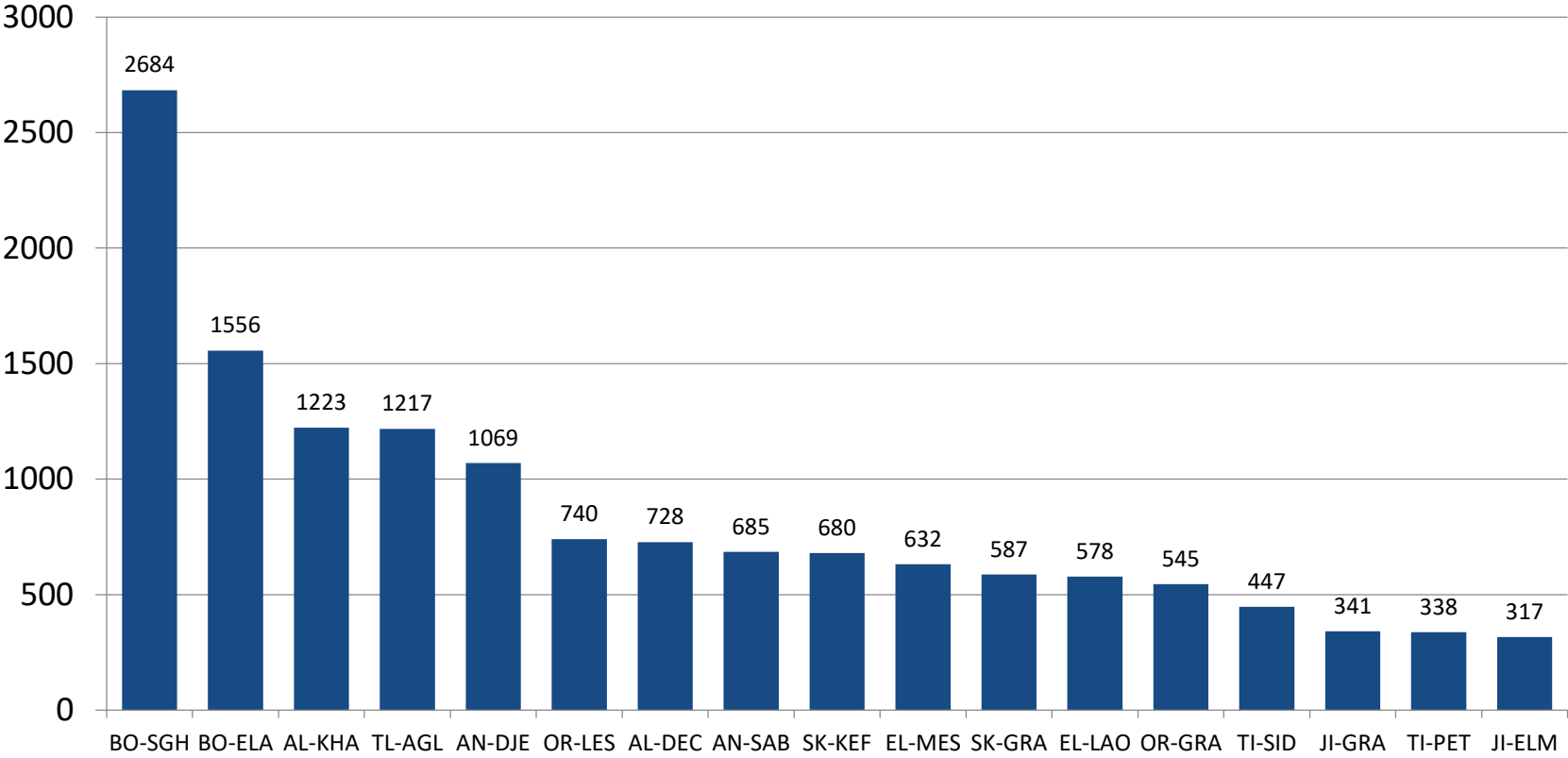


# THE SWIM-H2020 SM BEACH MACROLITTER SURVEY SITES



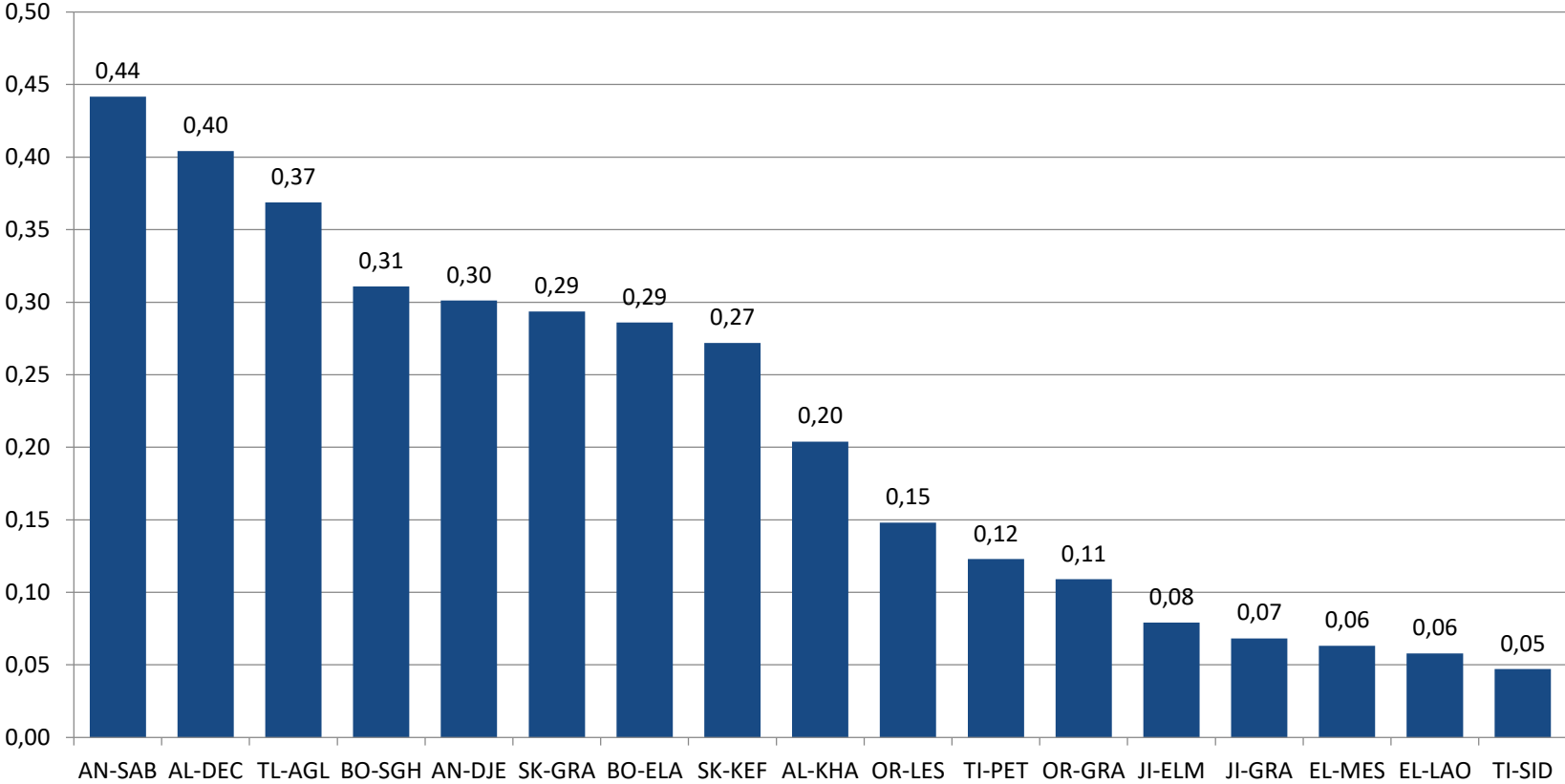
Four sets of surveys were performed in each site; in April 2018 (spring surveys), from mid-June to mid-July 2018 (summer surveys), from mid-September to mid-October 2018 (autumn surveys) and from mid-November to mid-December 2018 (winter surveys). **A total of 111 beach transects were surveyed, which extended over a distance of 11,900m and covered a surface area of 574,992 m<sup>2</sup>.**

# MARINE LITTER DENSITIES IN ITEMS/100m



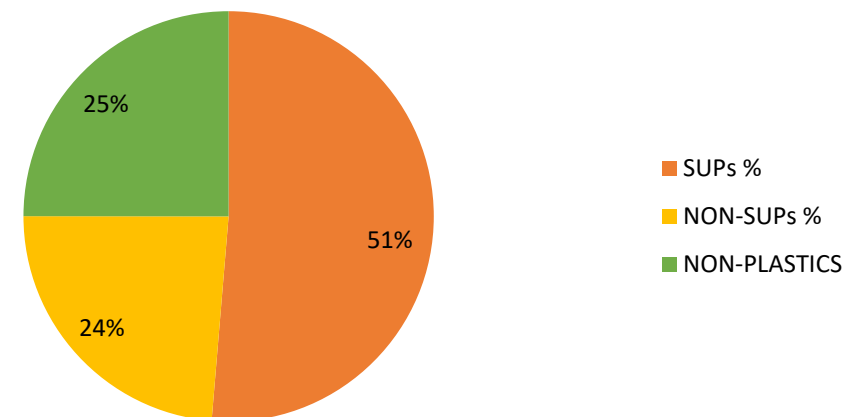
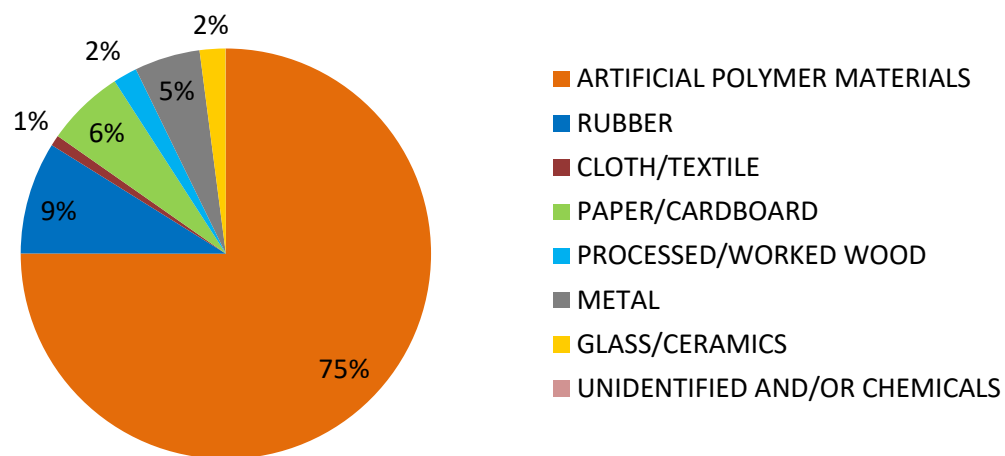
On the 17 sites surveyed, a total of 96,737 items were recorded, removed and classified. An average marine litter density of **872 items/100m** was calculated, ranging from 317 items/100m to 2,684 items/100m.

# MARINE LITTER DENSITIES IN ITEMS/m<sup>2</sup>



The average litter density was calculated to be 0.21 items/m<sup>2</sup>.

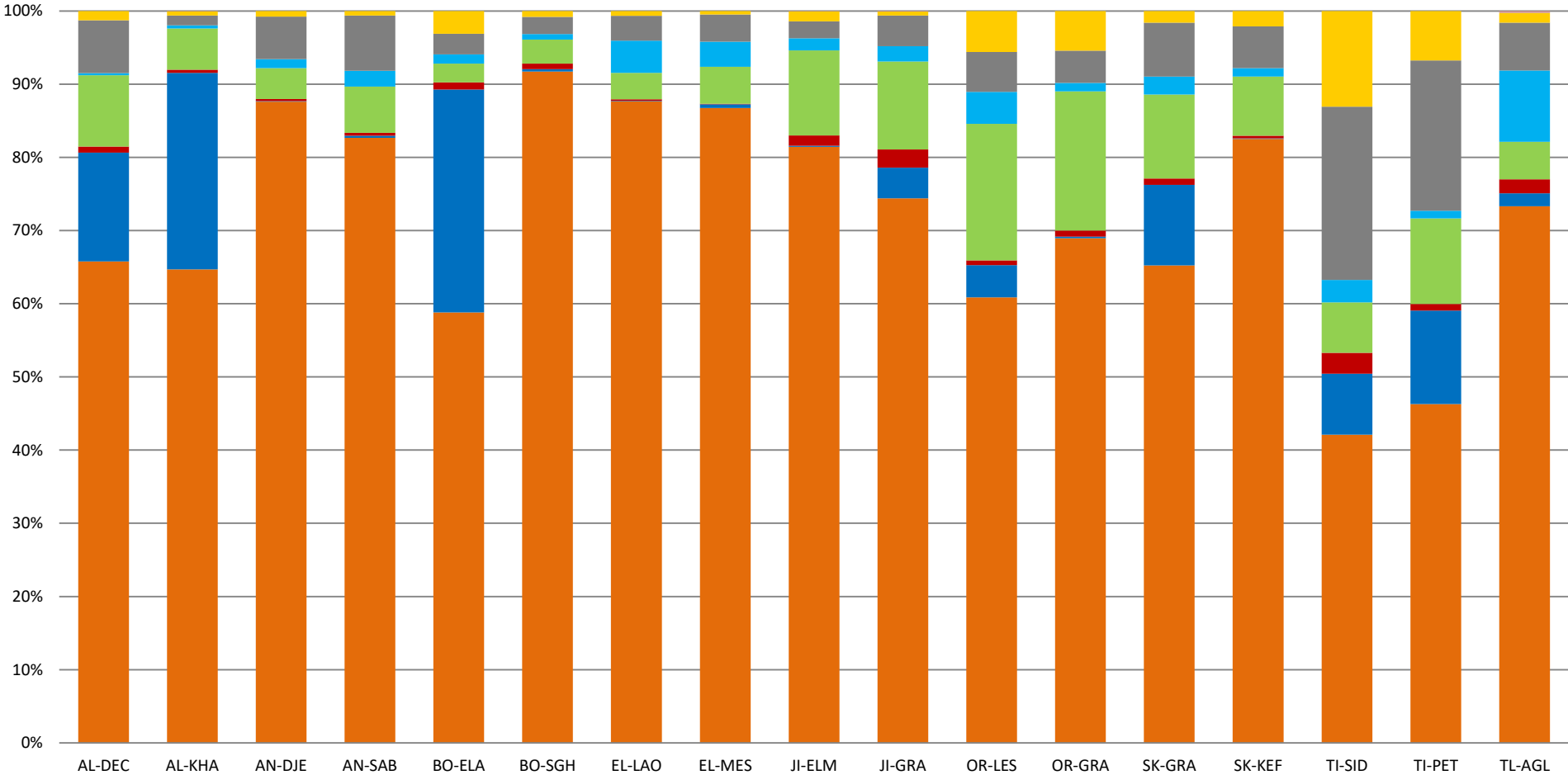
# PLASTIC POLLUTION ON THE ALGERIAN COASTLINE



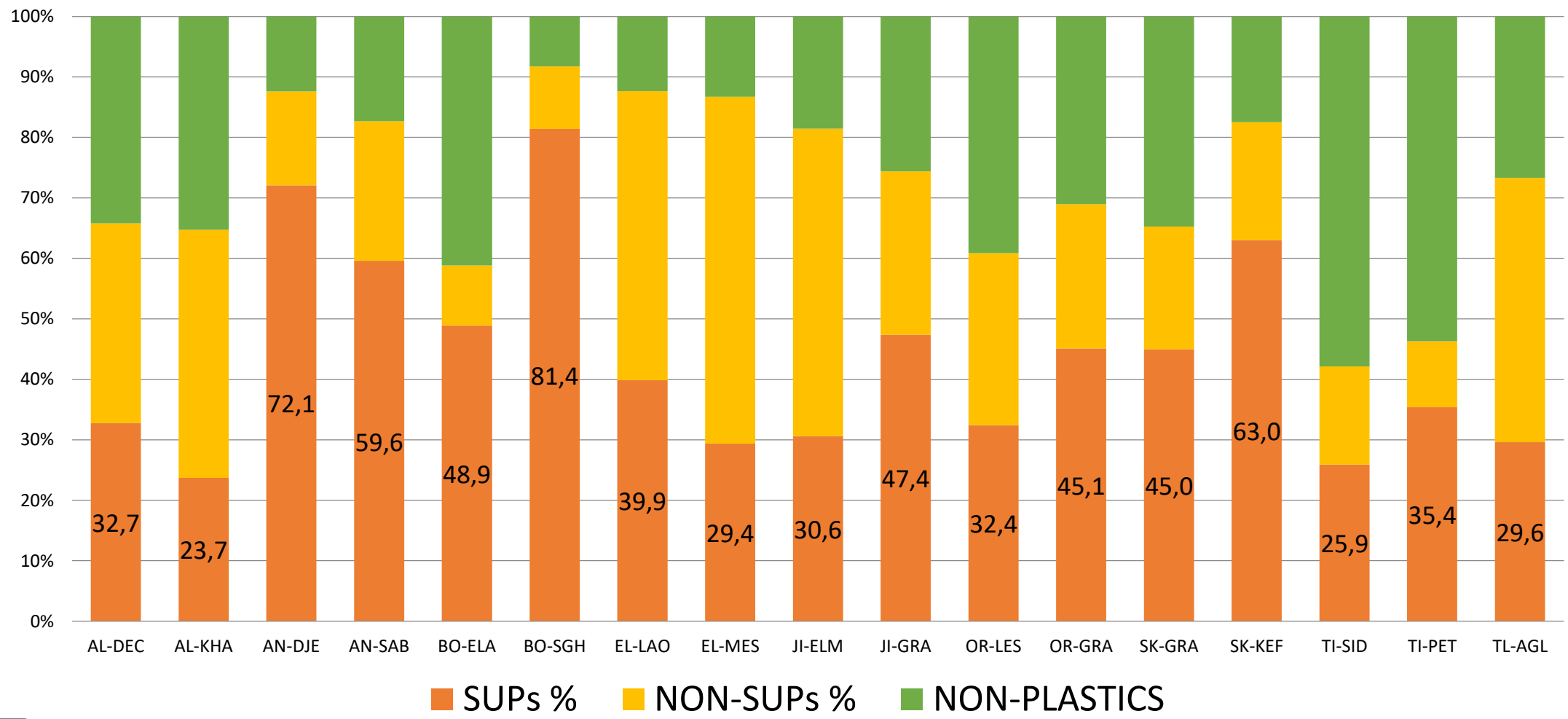
	Item code	Item name	Items count	%
1	G21	Plastic caps/lids from drinks	19426	20,1
2	G125	Balloons and balloon sticks	8304	8,6
3	G27	Cigarette butts and filters	7557	7,8
4	G8	Drink bottles >0.5l	7253	7,5
5	G23	Plastic caps/lids unidentified	5335	5,5
6	G3	Shopping bags, incl. pieces	5281	5,5
7	G7	Drink bottles <=0.5l	3496	3,6
8	G175	Cans (beverage)	3012	3,1
9	G4	Small plastic bags	2638	2,7
10	G79	Plastic pieces 2.5 cm > < 50cm	2545	2,6



# PLASTIC POLLUTION ON THE ALGERIAN COASTLINE

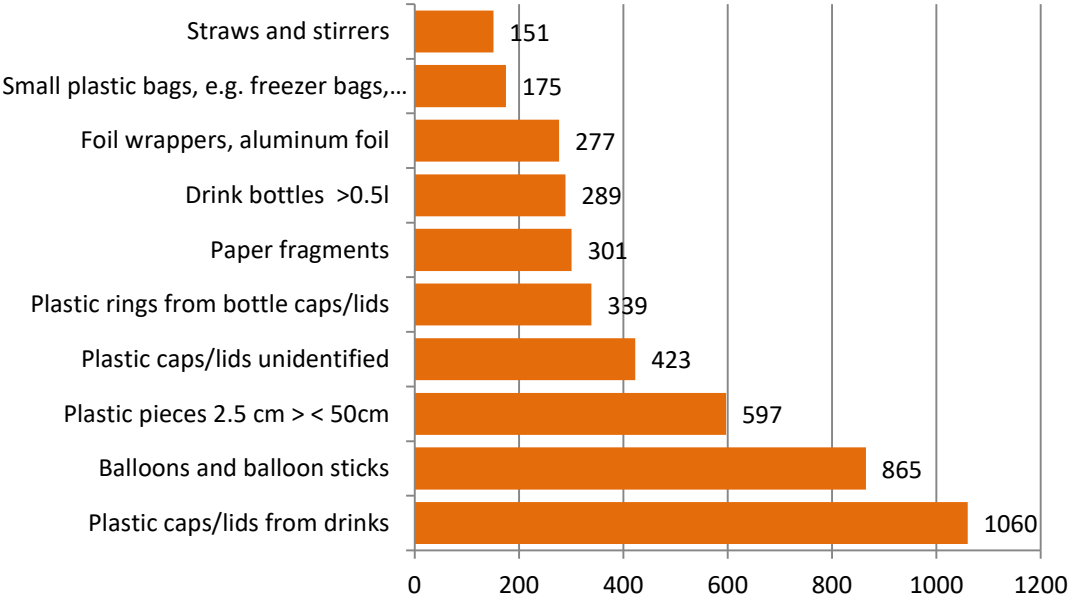


# SUPs ON THE ALGERIAN COASTLINE

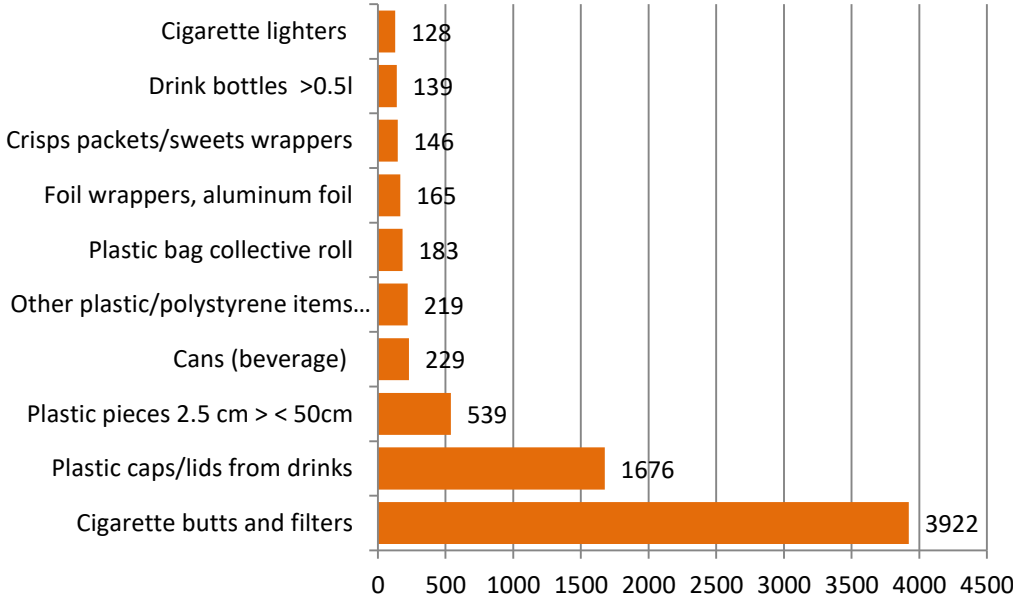




# ILLUSTRATIVE EXAMPLE OF THE DIFFERENCES BETWEEN SITES

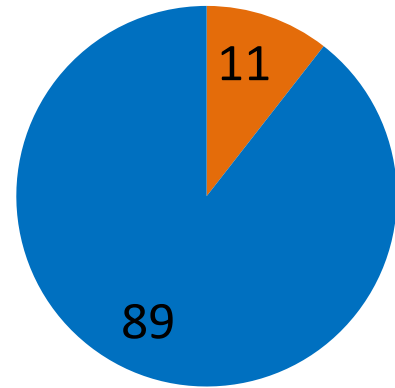


Top 10 items found on the beach of Deca (Algiers) calculated on an aggregated basis of total litter counts.

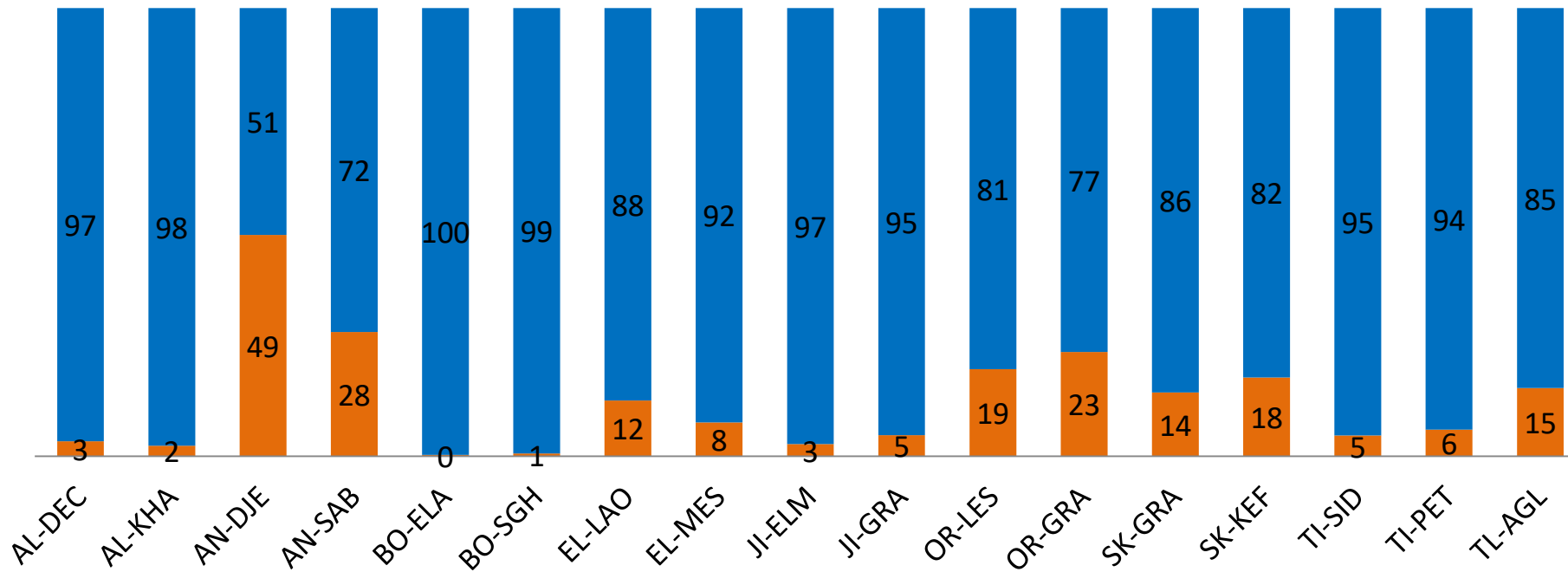


Top 10 items found on the beach of Djenez El Bey (Annaba) calculated on an aggregated basis of total litter counts.

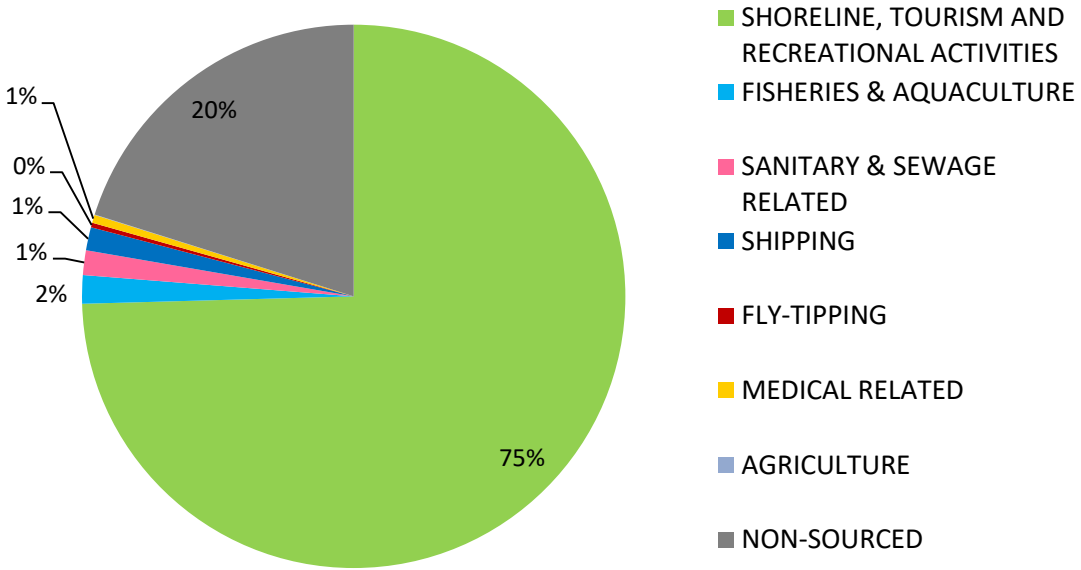
# SMOKING RELATED ITEMS



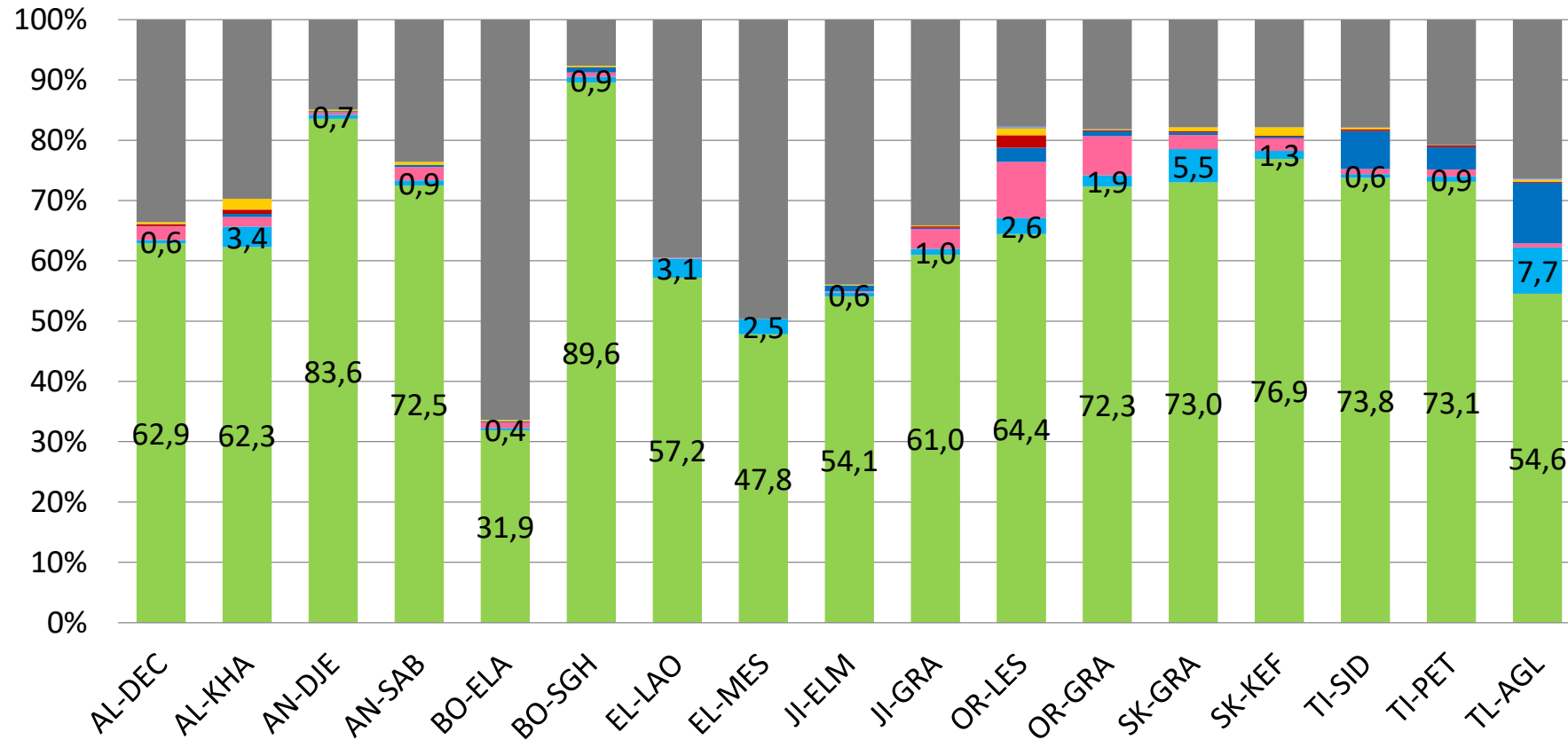
■ Smoking related items (%)  
■ Non-smoking related items (%)



# SOURCES OF MARINE LITTER



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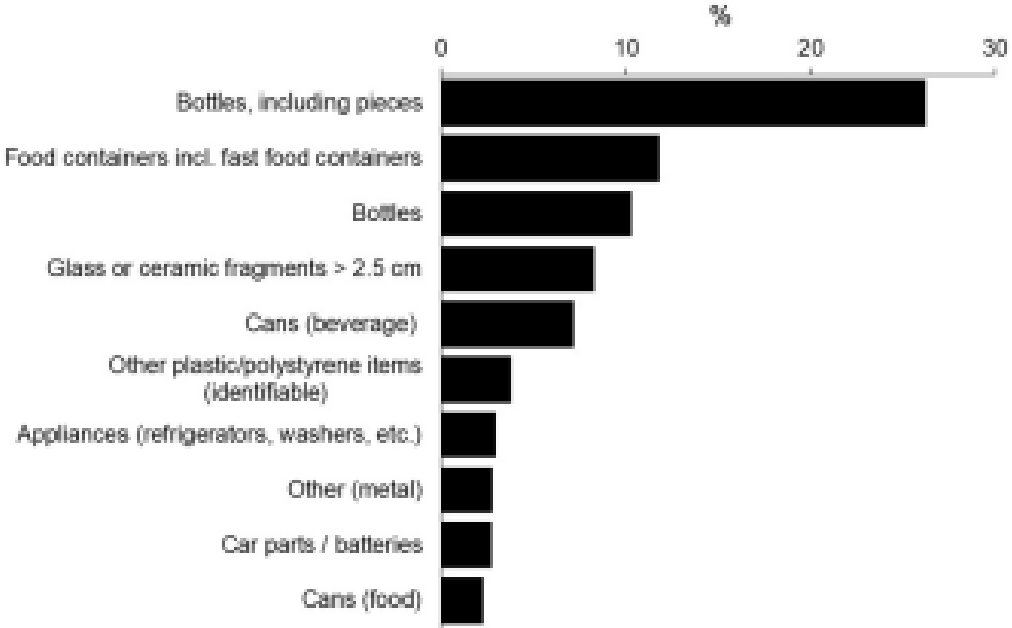


# EXAMPLE OF SEAFLOOR LITTER DATA



A harmonized and coordinated assessment of the abundance and composition of seafloor litter in the Adriatic-Ionian macroregion (Mediterranean Sea)

Tomaso Fortibuoni<sup>a,b,\*</sup>, Francesca Ronchi<sup>c,1</sup>, Vesna Mačić<sup>d</sup>, Milica Mandić<sup>d</sup>, Cristina Mazziotti<sup>e</sup>, Monika Peterlin<sup>f</sup>, Michael Prevenios<sup>g</sup>, Mosor Prvan<sup>h</sup>, Stelios Somarakis<sup>i</sup>, Pero Tutman<sup>j</sup>, Dubravka Bojanić Varezić<sup>j</sup>, Manca Kovac Virsek<sup>f</sup>, Thomais Vlachogianni<sup>k</sup>, Christina Zeri<sup>g</sup>



The average seafloor litter density found at regional level by visual surveys with scuba/snorkelling was  $2.78 \pm 3.35$  items/100 m<sup>2</sup>.





**Thank you for your attention!**

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