



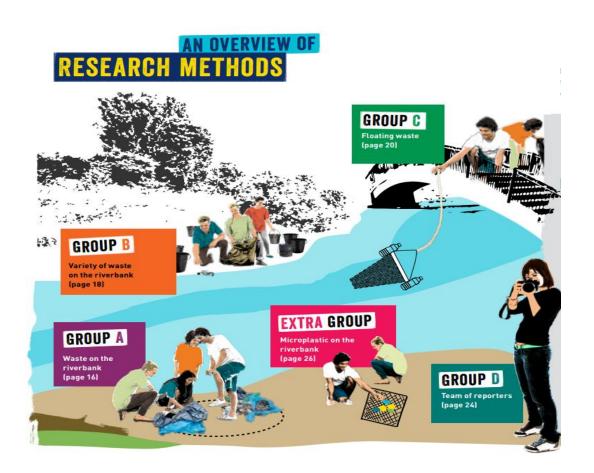
#### From Collection to Analysis:

Plastic Pirates Data (European datasets)

Ana I. Catarino, Nelle Meyers, Meritxell Abril, Julio C. Lopez, Patricia de la Fuente, Antonio C. Oneto



### RIVERINE LITTER DATA: PP (EU)



GROUP	Riverbank	Floating	Macro	Micro
Group A	✓		✓	
Group B	✓		✓	
Group C		✓	✓	✓
Group Extra	✓			✓

Group D: metadata; sources (perception)



**Data collection:** Website

**Scientific** validation **Validated** Data

**Data analysis** 

**Scientific Outcomes** 

















plastic pollution at coastlines and riversi citizen science data





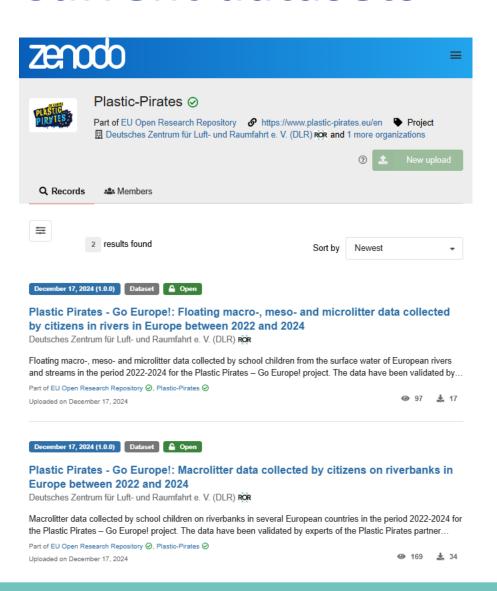
Volume 6, Issue 6, 16 June 2023, Pages 715-724

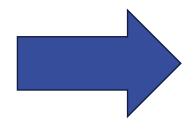
UN plastic treaty must mind the people: Citizen science can assist citizen involvement in plastic policymaking

Nikoline G. Oturai 15 & Mristian Syberg 1, Dilek Fraisl 2, Asta Hooge 1, Tim Kiessling <sup>a,\*</sup>, Mandy Hinzmann <sup>b</sup>, Linda Medera Marianne Böhm-Beck <sup>a</sup>, Katrin Knickmeier <sup>a</sup>, Martin Tiffany M. Ramos <sup>1</sup>, Sven Schade <sup>3</sup>, Steffen Foss Hansen <sup>4</sup>



#### **Current datasets**





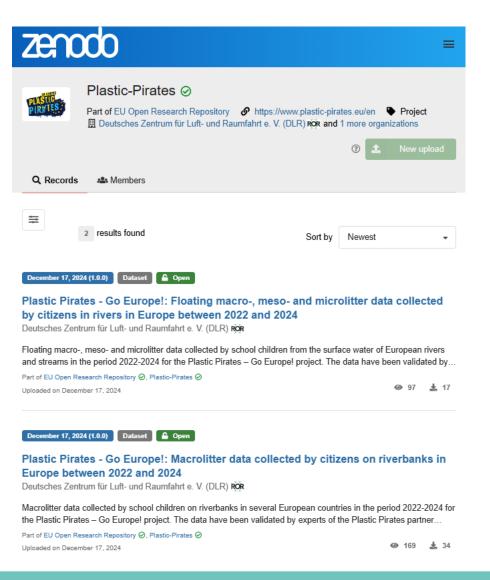
April 2025: New publication of datasets

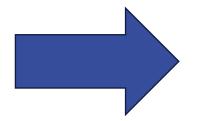
# Question 1) Protocols with DOI? (Zenodo)

(Acknowledges original authors)

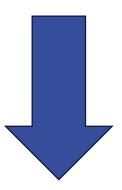


#### **Current datasets + April publication**





Data paper
+ SOPs (DOI)



Research questions
Data analysis



#### Research manuscripts (riverine litter)

**Question 2) Publication strategy** 

Scientific Peer Reviewed Publications:

 All European riverine datasets (until April 2025): first research questions (macro + micro)

II. In-depth data analysis (macro + micro; macro and micro)



#### Research manuscripts

**Question 3) Manuscript – I:** Research questions (Macro):

Most common types and quantities of litter per region? (Group B: riverbanks; Group C: floating litter)

Litter diversity? (Group B)

Are floating and riverbank litter types common? (Macro: Group B, C)

Effectiveness of environmental policies? (Group B)



#### Research manuscripts (riverine litter)

Question 4) Manuscript – I: Research questions (Micro):

Most common polymers and concentrations of MPs per region?

(Group C: floating litter, Extra)

MPs diversity? (Group C/extra)



#### Research manuscripts (riverine litter)

Question 5) Manuscript – II: Research questions (Macro + Micro):

<u>Spatial and temporal</u> trends in the distribution and abundance (Macro: Group A, C; Micro: Group C)?

- Hotspots (accumulation)
- Weather and seasonal patterns
- Hydrological dynamics
- Climate regions
- Extreme weather events (floods)

Potential sources (Perception; Group D) vs actual <u>land use</u> on litter composition (Group B)?



#### Question 6)

# Other Research Questions?





Question 7)

Mapping active contributors



## THANK YOU!





www.plastic-pirates.eu/dt

#### Plastic Pirates - Go Europe! Belgium

Ana Isabel Catarino | Jan Seys | Line Debaveye ana.catarino@vliz.be | jan.seys@vliz.be | line.debaveye@vliz.be



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