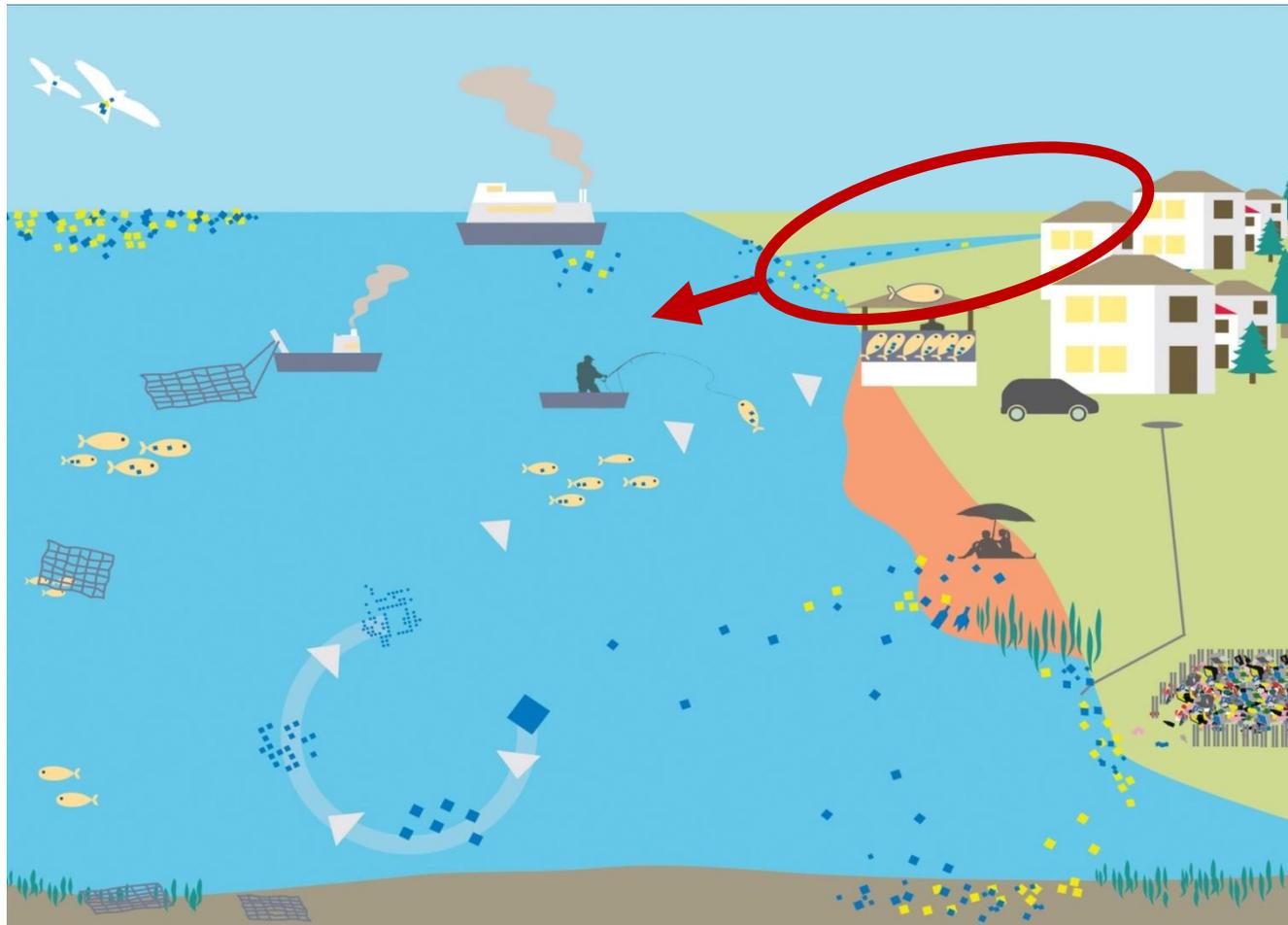




Sources



Littering on land
 ↓
 subsequent
 transport through
 ↓
 wind & water
 ↓
 to the sea.

Source: <http://www.eea.europa.eu/media/infographics/marine-litter-1/view>

Danube River



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The Danube as transport path for plastic litter

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Danube River



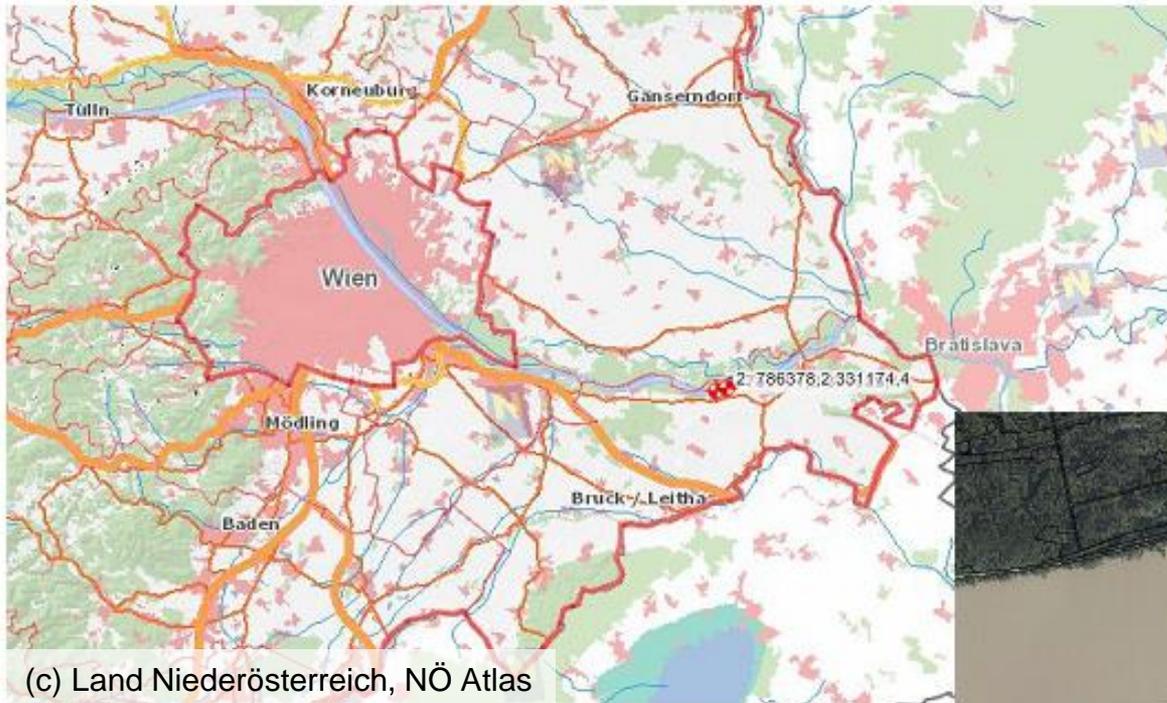
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Danube River



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Danube flood plains near Wildungsmauer, October 2014



(c) Land Niederösterreich, NÖ Atlas

Area

- Flooding zone
- Last flooding ~ 1 month before
- First waste collection activity in this area

Waste collection: YTAE
(youth organisation of the WWF)

Sorting analysis: BOKU
(Master thesis of N. Schüttpelz, 2014)



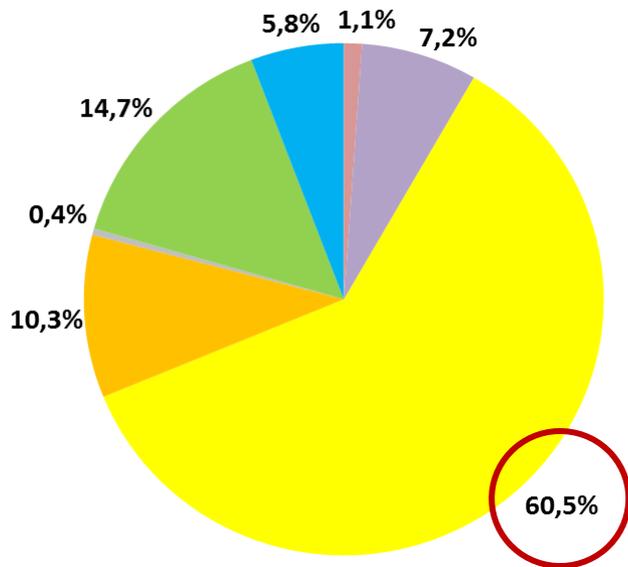
(c) Land Niederösterreich, NÖ Atlas

Details

- Length of cleaned river bench = 900 m
- Number of volunteers = 20 people
- Sorting team = 7 people
- Duration of the clean-up = 3h30min
- Duration of the sorting = 6h on site + 6h at BOKU
- Nr. of collected waste bags = 57
- **Total weight of waste collected = 370 kg \triangleq 400 kg/km**

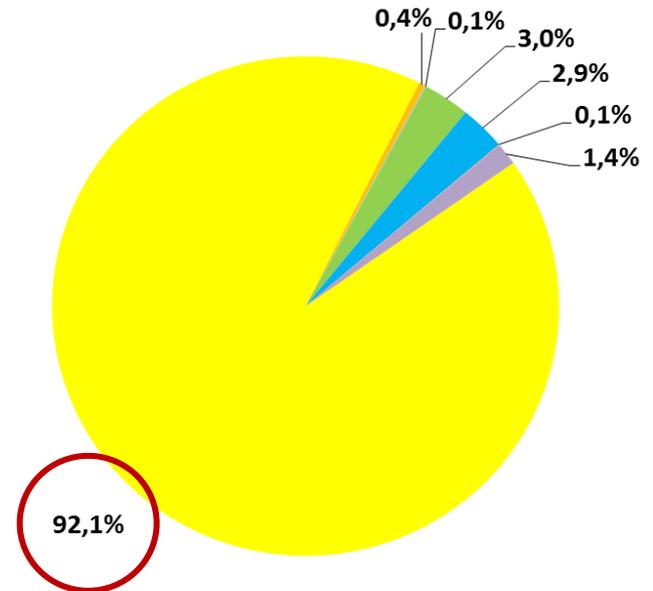
Results – waste composition

Proportion of materials by weight



Total: 370 kg
(+ 1 tractor tire)

Proportion of materials by number of items



Total: 7 700 pieces

Source: Schüttpelz(2014)

Results – waste composition

- Main share (number):
 - EPS* pieces – 44 %
 - PET bottles – 19 %

- Main share (weight):
 - Glass bottles – 13 %
 - PET bottles – 12 %

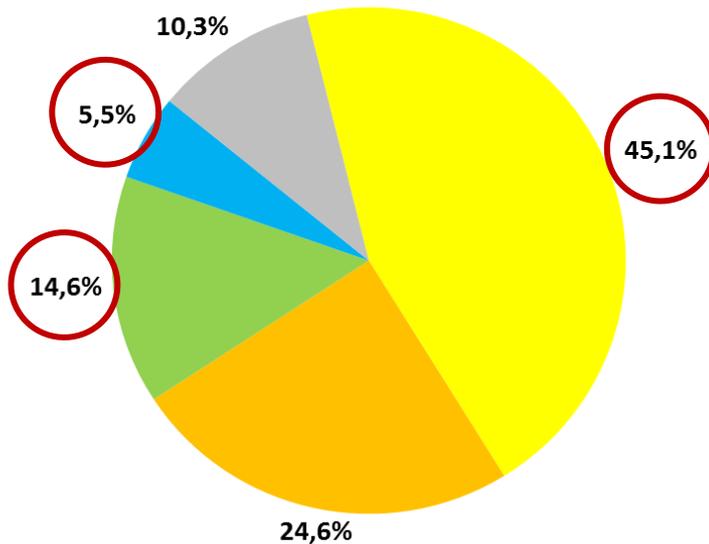


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**expanded polystyrene, 2.5 – 50cm*

Results – original use of the materials

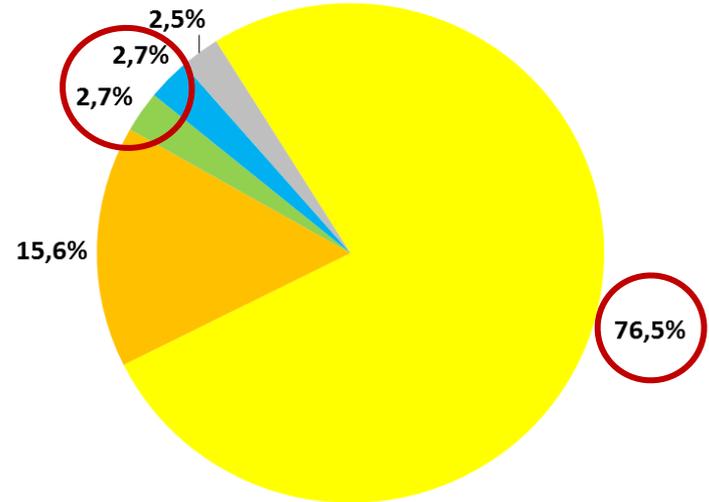
Original use by weight



65,2% packaging

- Packaging (plastic + composite material)
- Non-packaging plastic
- Packaging glass
- Packaging metal
- Other

Original use by number of items



81,9% packaging

Conclusions

- First indication that measures should address:
 - EPS
 - PET bottles
 - Plastic packaging waste
- However further research on other study sites necessary!
- Little information on contribution from land-based sources to marine litter available, so further research necessary to be able to develop strategies and measures.
- Cooperation between all Danube countries is a key issue.

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