

Prevention of pollution by plastic of the rivers – Ukraine:

top – down and bottom –up approaches

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National level



- New legislation
 - Part of the **EU-Ukraine Association process (all legal changes by 2020)**
 - Start from **National Waste Management Strategy (adopted in 2017)**



Adoption of new
hierarchy of waste

National level (2)

- New legislation

- **Draft Law on waste (instead of the old one dated from 1998)**

- Increased responsibility of the producers for the waste
 - New types of licenses for waste
 - Identification of **specific types of waste:**

Subject
to special
legal acts



Packaging
inc. PET bottles



Batteries



Electric waste



Diesel oil



Old transport

Regional level

Waste management strategy for Zakarpattia Oblast (adopted in 2012)

- **Organised municipal waste collection** on the territory of the whole region;
- Construction of **four regional landfills** in Uzhgorod, Mukachevo, Vinogradiv, and Tiachiv rayons;
- Construction of **two transfer stations in Mijgirya and Rahiv rayons**;
- Separate collection of recyclable waste will be organised in all main settlements in all main settlements of the districts, and in settlements with population exceeding 3000 residents;
- **Four sorting facilities** will be established in Uzhgorod, Mukachevo, Vinogradiv, and Tiachiv which will receive the separately collected waste. An additional glass sorting line is envisaged at the sorting facility in Uzhgorod where separately collected glass waste will be treated according to the demands of glass recycling plants; and
- The progressive establishment of centralised composting sites in every district.

No financial and legal framework to implement this at present



After adoption of national legislation

Bottom – top approach

Current state

- In Tisza basin, Ukraine – 60% of the settlements are covered by centralised waste collection service
- Why?
 - High transport costs and small number of people (especially the case of mountaineer villages)
 - Low awareness on the danger of waste (“river will take away” everything)



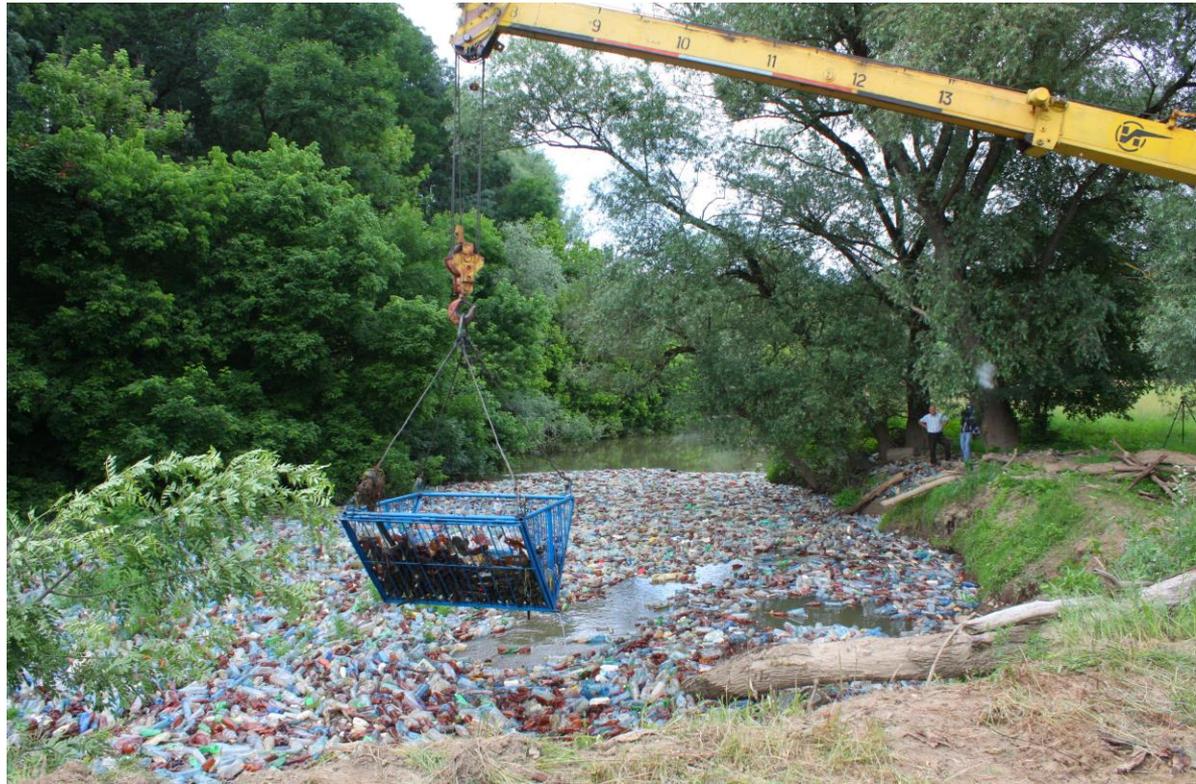
Operation “Crab”

- 2011 – at Latorica – border area with Slovakia
- 10 trucks of the waste during 5 days

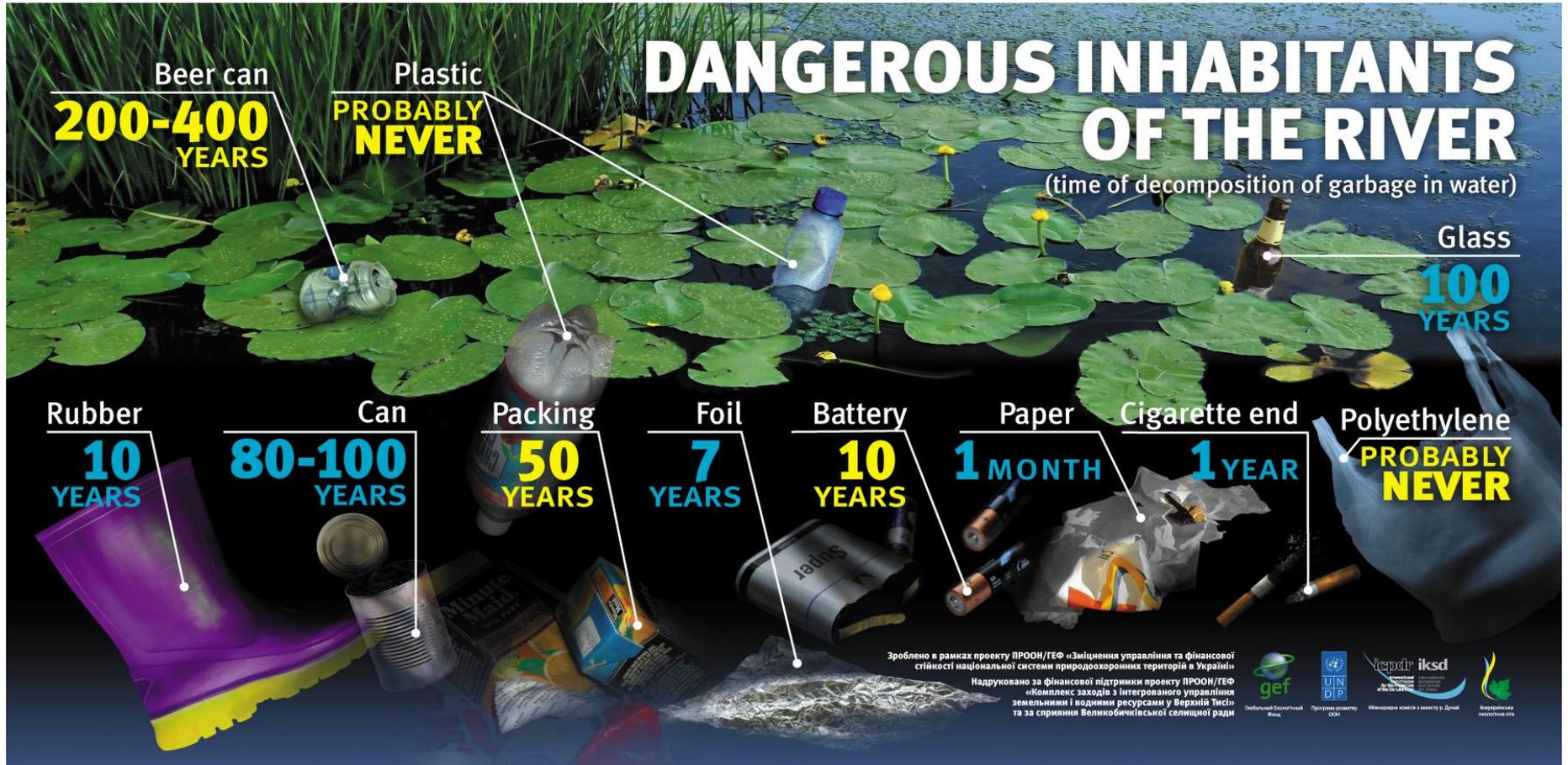


Operation “Crab”

- 2013 – at Borzhava river (near Kvasovo)
- Involvement of the all villages upstream, showing plastic “traffic jams” in reality
- Support to initiation of separate waste collection



Public awareness raising



DANGEROUS INHABITANTS OF THE RIVER

(time of decomposition of garbage in water)

Item	Decomposition Time
Beer can	200-400 YEARS
Plastic	PROBABLY NEVER
Glass	100 YEARS
Rubber	10 YEARS
Can	80-100 YEARS
Packing	50 YEARS
Foil	7 YEARS
Battery	10 YEARS
Paper	1 MONTH
Cigarette end	1 YEAR
Polyethylene	PROBABLY NEVER

Зроблено в рамках проекту ПРООН/ГЕФ «Зміцнення управління та фінансової стійкості національної системи природоохоронних територій в Україні»
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Initiation of the separate waste collection

- 2011 - With support of Tisza MSP project in upper Tisza (V. Bychkiv)
 - Household containers in case of signing the agreement for centralized waste management
 - Large 1100 l containers from Coca-Cola beverages Ukraine in the key waste places (shops, house of culture)
 - Purchase of press to reduce the volume of plastic
- 2018 – Velyky Bychkiv village is a center of recycling in Rakhiv rayon covering 70% of the all rural settlements
- Each year within Danube Day, provision of containers for separate waste collection (Coca-Cola beverages)
 - Jasinya (2011), Baranintsi (2012), Kvasovo (2013), Rakhiv (2015), Galabor (2016), Tyachiv (2017), Orosievo (2018)
- **TOTAL – 8 settlements**



How waste is managed in small settlement?

1. Ensure separate waste collection
2. Ensure facility to store the collected bottles
3. Ensure a person to sort plastic by colors
4. Press on sorted waste
5. Make agreement with private entrepreneur that he will come to the village as soon as 200 kg of plastic is collected
6. Get money for your plastic



Interesting – initiative of special money for waste collection (Berlibashki)

Public awareness raising

- In frame of the Danube Art Master
 - Art from the waste
 - Art costumes from waste
 - Plastic ships from waste (2018)
- Competition “Plastic treasures” between schools
 - Up to 700 kg collected during 1 event
 - Way to introduce separate waste collection
 - Quests



Danube Day 2018

- Regatta of the ships of plastic pirates (with PET CUPA)
- Initiation of the Environmental Knights Society



Thank you for your attention!

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Partners: General Directorate of Water Management, Hungary | Global Water Partnership Central and Eastern Europe, Slovakia | International Commission for the Protection of the Danube River | Ministry of Water and Forests, Romania | Ministry of Foreign Affairs and Trade, Hungary | National Administration "Romanian Waters", Romania | National Institute of Hydrology and Water Management, Romania | Public Water Management Company "Vode Vojvodine", Serbia | Regional Environmental Center for Central and Eastern Europe, Hungary | The Jaroslav Černi Institute for the Development of Water Resources, Serbia | Water Research Institute, Slovakia | World Wide Fund for Nature Hungary

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