1. Hamburg's separate waste collection



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Household waste is collected seperately in 4 bins

	2007	2017	2019*	Goal 2020	Goal 2025
Residual waste	556,000	453,390	434,000	405,000	385,000
Paper	77,100	98,200	96,270	110,000	116,000
HWT / lightweight Packaging	27,700	37,300	40,300	43,000	50,000
Biowaste	26,800	69,300	68,300	75,000	86,000

Quantities in t/a,

* Extrapolation





2. HWT – Lightweight Packaging and Similars

- Responsible for disposal according to Closed Cycle Management Act
 - Waste from households: Local authorities (public sector)
 - Waste from industry, trade, mining and demolition and construction: In competition (private sector)
- Local authorities are not responsible for disposal of packaging from households (Private sector)
- In Hamburg, since 2012 lightweight packaging and non-packaging of similar materials are collected in the yellow bin (HWT – Hamburg bin for recyclables)
 - Should increase the high-quality material recovery
 - Citizens save money cost-free bin => bad quality



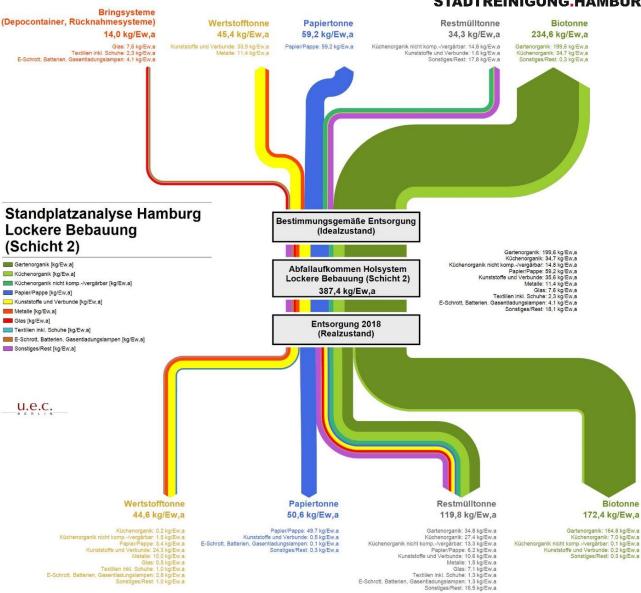
3. HWT – collection



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3

Waste qualities and quantities in single-family housing areas



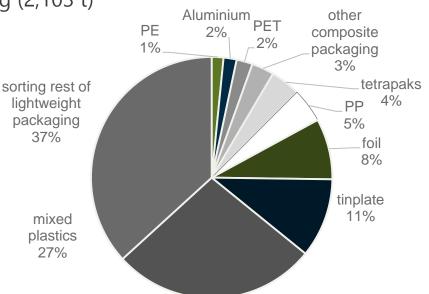


4. Plastics – separate fractions



- Sorting of non-packaging from the same material into fractions defined by Dual Systems:
 - **Nr. 310 foil** (466 t)
 - Nr. 325 PET (Bottles) (123 t)
 - Nr. 331 PS (Polystyrol) (36 t)
 - Nr. 410 tinplate (607 t)
 - Nr. 510 tetrapaks (228 t)
 - Nr. 830 sorting rest of lightweight packaging (2,103 t)
- SRH markets sorted reusable materials independently
- Hard plastics (collected at recycling stations – 581 t)
- CDs (6,6 t)

- Nr. 324 PP (Polypropylen) (263 t)
- Nr. 329 PE (Polyethylen) (90 t)
- Nr. 350 mixed plastics (1566 t)
- Nr. 420 metals (Aluminium) (100 t)
- Nr. 520 other composite packaging (172 t)



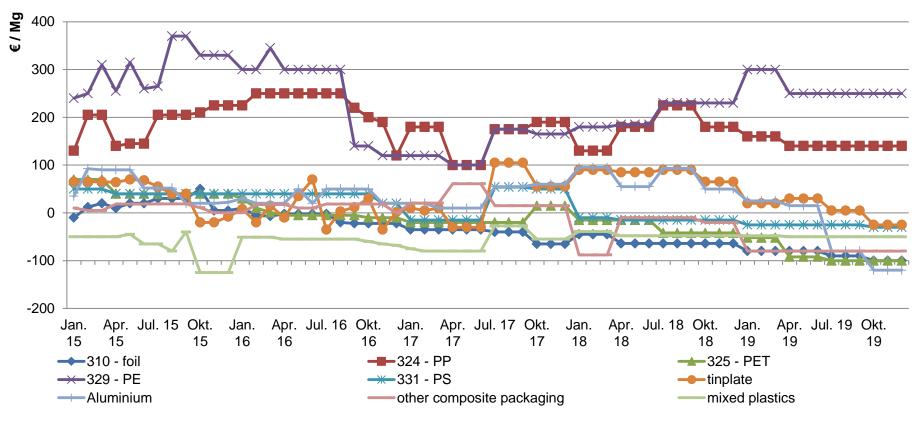
In 2018



4

5. Prices and value





- Prices for almost all fractions have declined over the last few years, making recycling less cost-efficient
- Recycling needs a market for recycled materials!

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6. Outlook – Lessons Learned



- Quality over quantity!
- Local authorities must promote the use of recycled materials
- The right material for the purpose => paper is not always better than plastic
- Strategy for avoidance of waste (reduce, reuse, repair)
- Waste management evolves into sustainable closed circle economy

