

# PAYT in Berlin (DE) & Tubbergen (NL)

Brussels, 19 February 2020

Twan van Leeuwen (PNO)





# COLLECTORS

WASTE COLLECTION SYSTEMS ASSESSED  
AND GOOD PRACTICES IDENTIFIED

## Packaging waste

- Paper and cardboard
- Glass
- Plastics
- Metals
- Drinking cartons

## Economic assessment

- Identifying financial and material flows and actors
- Quantifying costs and benefits (CBA)
- Mapping financial incentives and levers

## Cases

- Berlin (DE)
- Tubbergen (NL)

# BERLIN (DE)



## **Local aspects**

Large capital city with over 3.5 million inhabitants with ca. 33 million tourist overnight stays per year.

## **BSR**

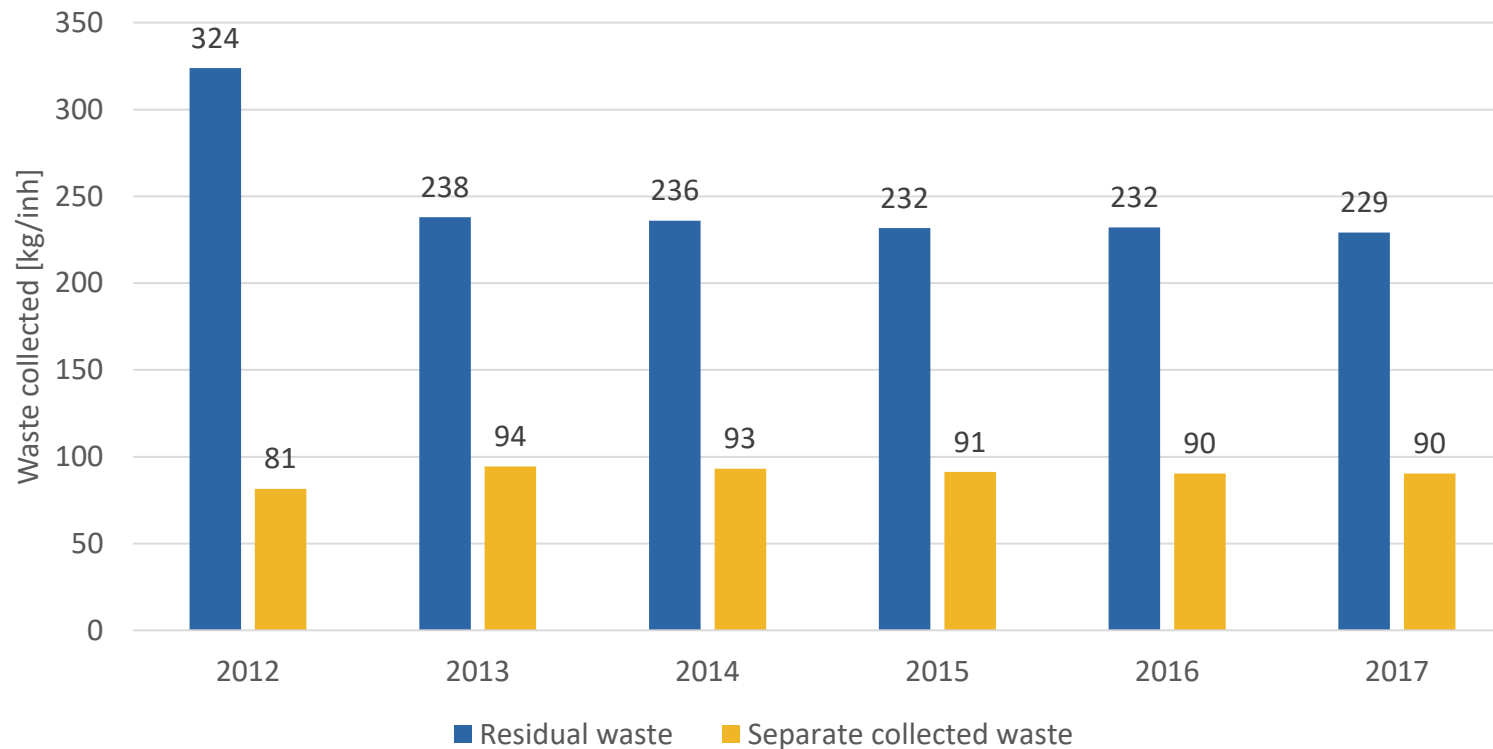
The public authority is responsible to collect waste from households and other sources. The waste collection is organised and carried out by the Berliner Stadtreinigungsbetrieben (BSR), the service company of the state of Berlin owned by the state of Berlin. BSR is responsible for waste collection, street cleaning and waste treatment.

## **Dual Systems/Grüner punkt**

In Berlin, the BSR is responsible for the disposal of all waste from private households - with one exception; packaging waste (light packaging, paper, carton, glass). This is collected and recycled on behalf of the Dual Systems (Grüner Punkt). The Grüner Punkt buys recyclable waste, processes this, and sells or trades recyclates on the market.

## Performance

In January 2013, Berlin was the first German federal state to introduce a model waste separation strategy, with a single recycling bin for light packaging together with similar materials. A new recycling bin for PMD (plastic and metal packaging and beverage cartons) was introduced in Berlin, uniting the previously separate systems (“Yellow bin”, “Yellow bin plus” and “Orange Box”) into the Wertstofftonne (=recycling bin).



## Waste collection



Residual waste  
Door to door



Paper and cardboard  
Door to door



Glass  
Bringbanks



Lightweight packaging  
Door to door

In addition, BSR operates 15 civic amenity sites in Berlin.

## PAYT system

Berlin has a PAYT system with a fixed and variable fee.

- Every quarter, each unit (house/apartment) that is part of the general collection scheme, pays a mandatory base fee ('Ökotarif') of € 6.39 (2018).
- Citizens pay a fixed quarterly fee for residual waste depending on the container: e.g. 60L - €55.38; 240L - € 82.30.
- In addition, there is a cost structure in place that considers the distance and steps a waste collection worker has to take to get to the waste bin. For example, for a distance of 50 - 100m or 16 - 20 steps, an additional fee of € 33.80 per quarter can be charged.
- Collection of paper and cardboard is € 2.38 per emptying of a 120L container.
- Collection of recyclables (plastic, metal and drank cartons packaging) and glass is collected free of charge.

# TUBBERGEN (NL)





## **Local aspects**

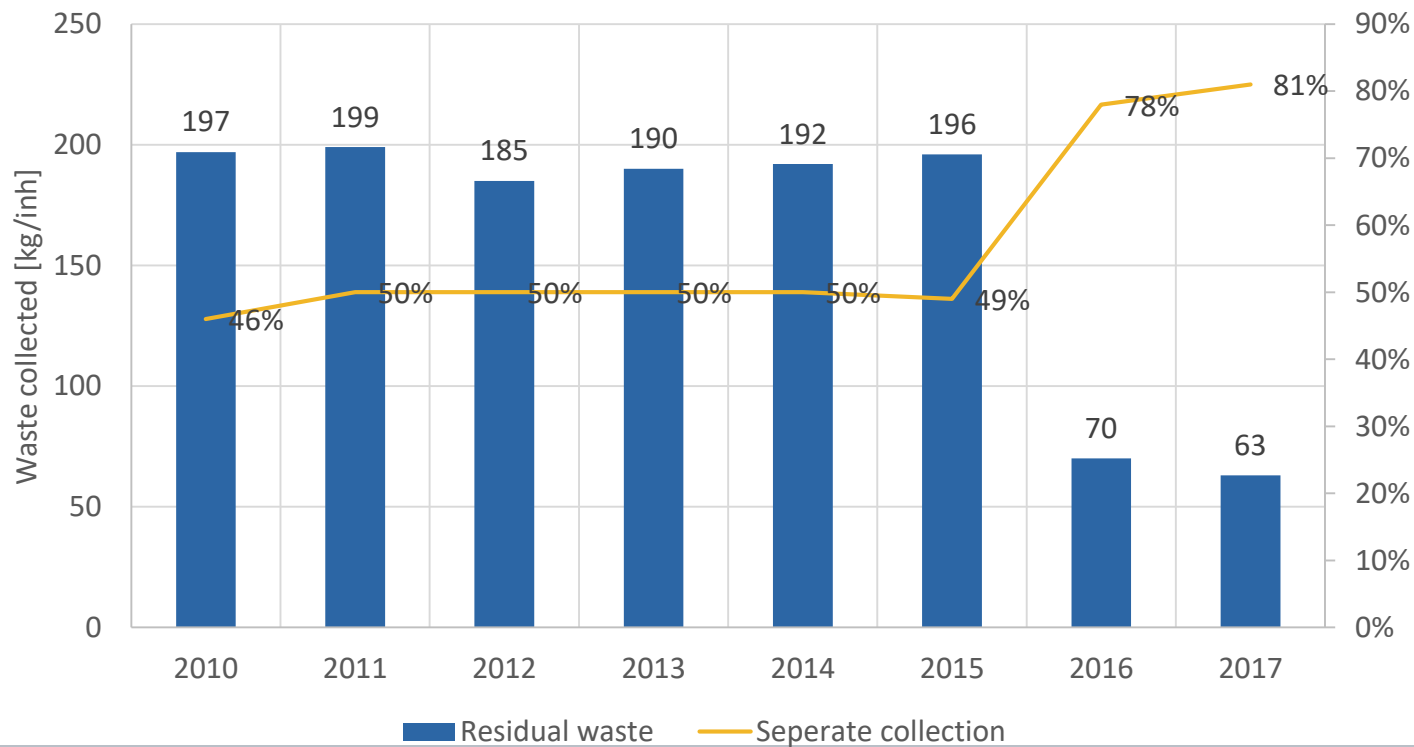
The municipality of Tubbergen is a small municipality (21.142 inhabitants) in the rural east side of the Netherlands, close to the border of Germany.

## **ROVA**

The municipality works together with the regional waste management company NV ROVA for the execution waste management. ROVA collects municipal waste for 23 municipalities in a working area of ca. 850.000 inhabitants. ROVA is responsible for the collection, treatment and processing of household waste, as well as the operation of bring banks and Civic Amenity Sites.

## Performance

Tubbergen has the ambition in their waste policy plan to achieve a residual waste amount of only 50 kg per inhabitant per year in 2030. To achieve this, various measures were implemented in 2015 as Tubbergen introduced the current PAYT system, which has resulted in a sharp decline in residual waste and significant increase in separately collected waste.





Residual waste  
Bringbank  
Door to door



Paper and cardboard  
Door to door  
(collected by nonprofit  
organisations)



Glass  
Bringbanks



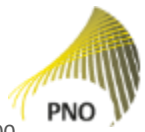
Lightweight packaging  
Door to door

## **PAYT system**

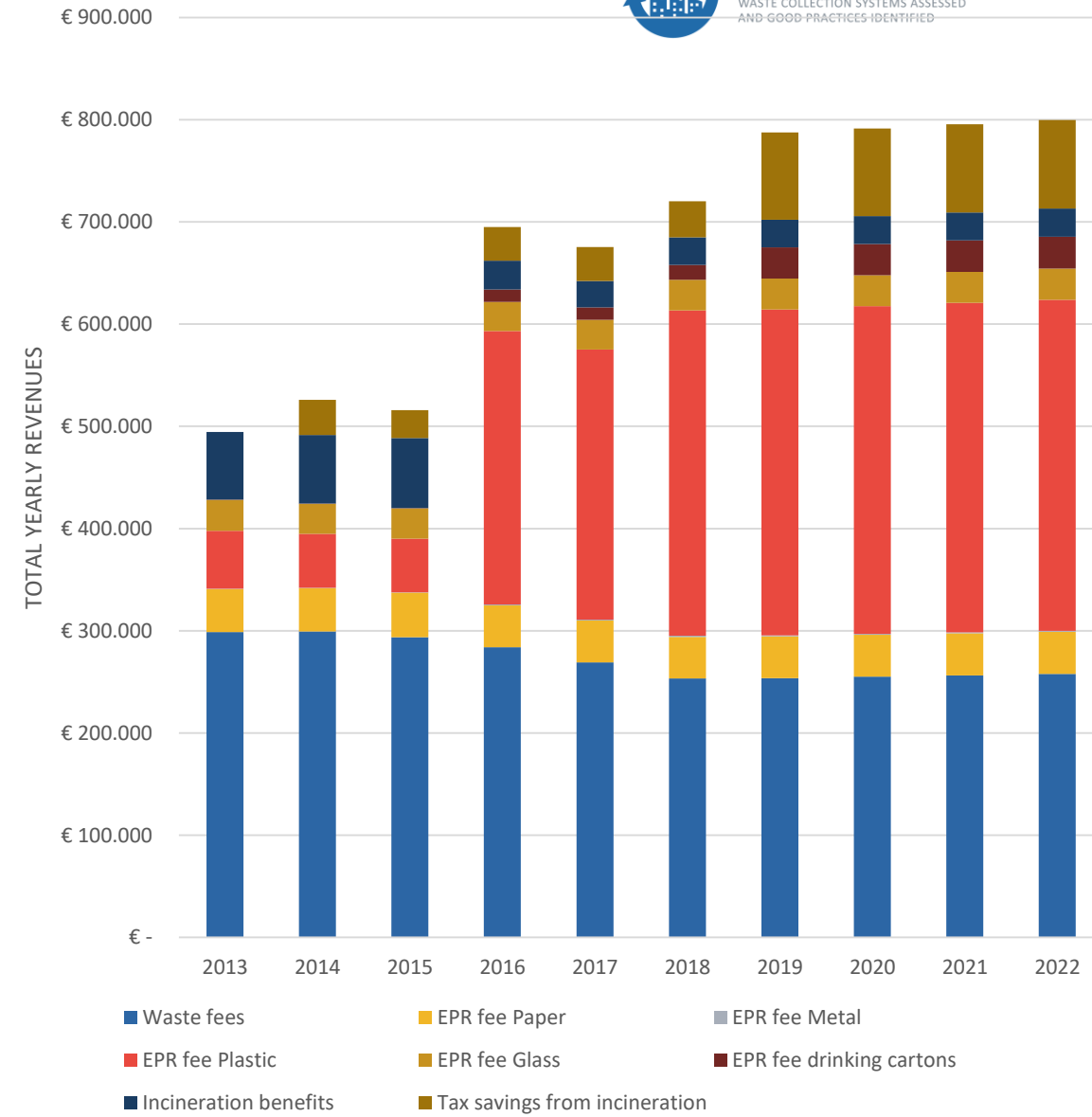
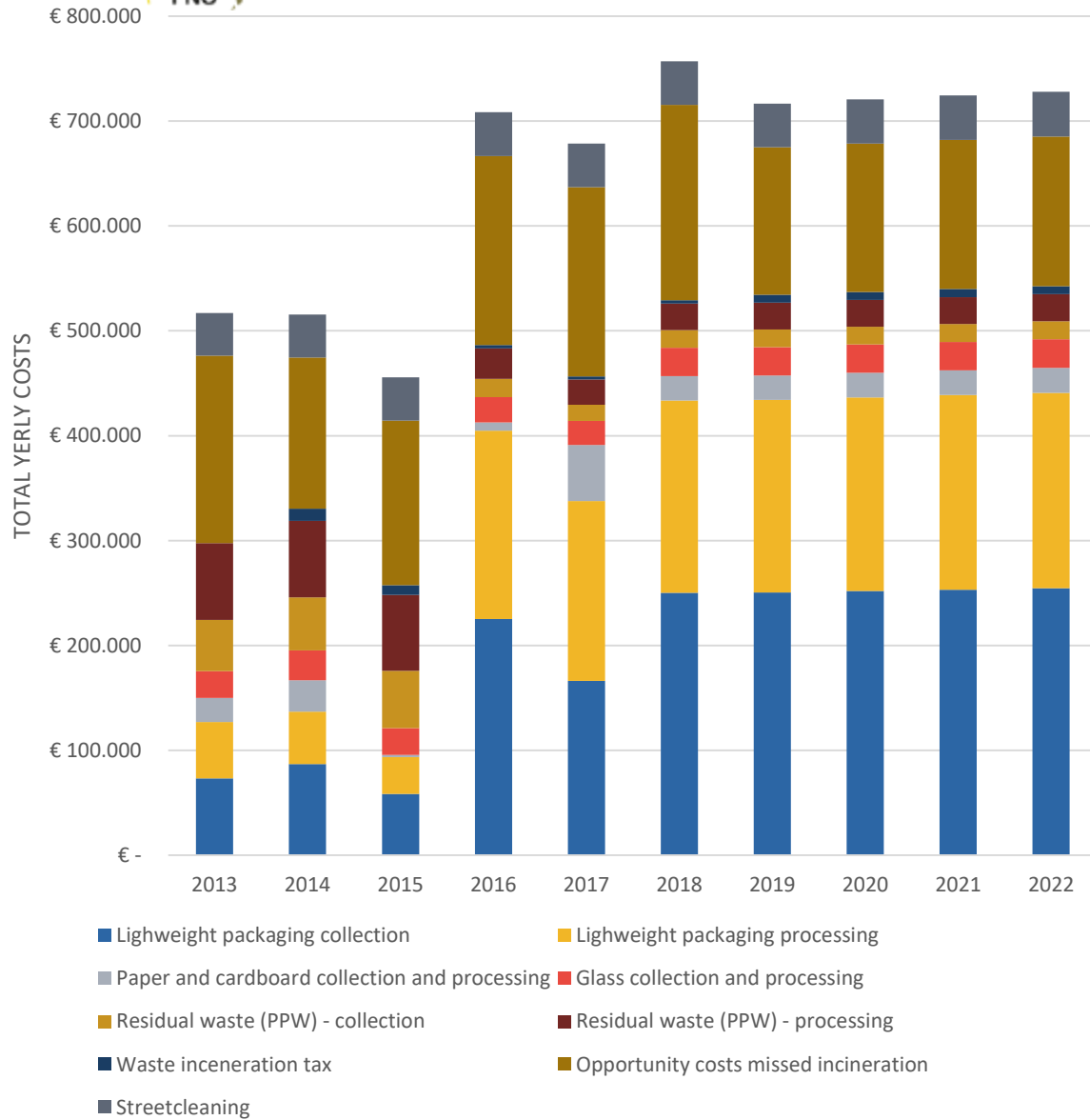
Tubbergen has a PAYT system with a fixed and variable fee.

- Tubbergen charges her citizens with a basic tariff of € 80 per year per household.
- Emptying a 140L residual waste container costs € 5.60, and € 9.20 for a 240L container.
- The door to door collection of PMD is organised every four weeks, and can be used free of charge.
- Glass can be brought to bringbanks free of charge.
- Paper and cardboard is collected through other organisations (non profits, sport clubs etc) free of charge


	Berlin (DE)	Tubbergen (NL)
Glass (G)	Separate	Separate
	Dtd (2-weekly)	
	Bring-points	Bring-points
	CAS	
	Free	Free
Paper and cardboard (PC)	Seperate	Seperate
	Dtd (4-8 weekly)	Dtd (monthly)
	CAS	Bring-points (monthly)
		CAS
	PAYT: € 2.38 per emptying of 120L	Free
Plastic (P), Metal (M) & Drinking (D) composite packaging	Comingled (P,M,D)	Comingled (P,M,D)
	Dtd (weekly-biweekly)	Dtd (monthly)
	CAS	Bring-points (monthly)
		CAS
	Free	Free
Residual waste	Dtd (biweekly)	Dtd (monthly)
	FIXED	FIXED
	€ 6.39 /quarter	€ 80 /y
	PAYT: € 55.38 / quarter for 60L container € 33.80 / quarter for 50-100m distance	PAYT: € 0.24/kg at CAS € 5.60 for 140L container








# FINANCIAL OVERVIEW



## Costs

- Collection costs 
- Processing costs
- Incineration taxes
- Streetcleaning
- Opportunity costs
- Communication and awareness
- Social correction (contribution for social households)

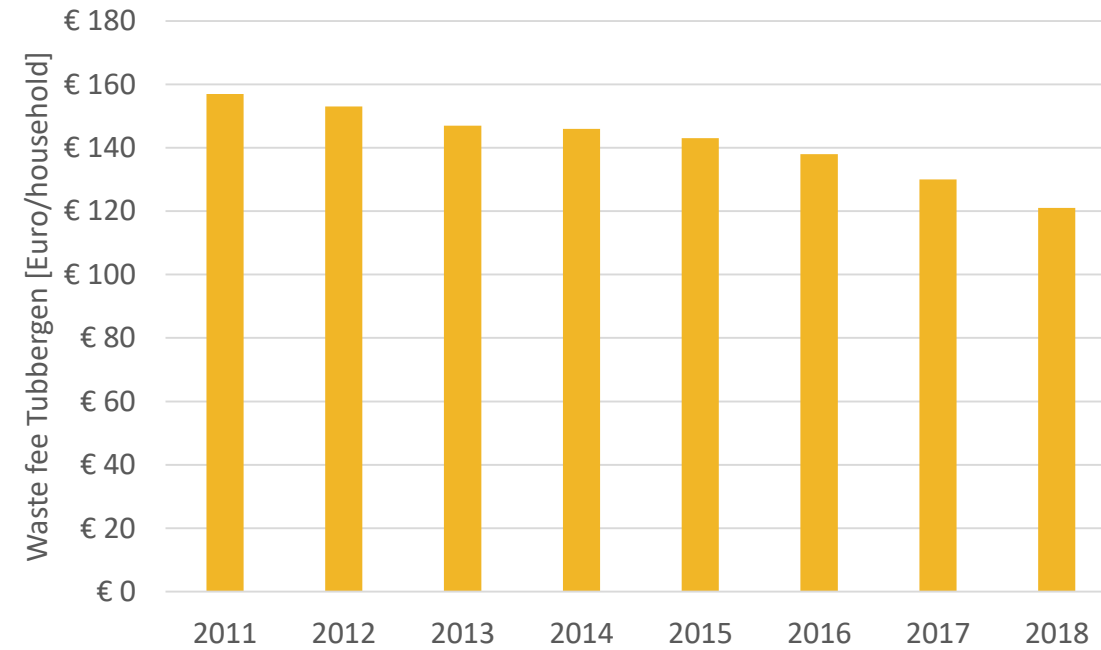
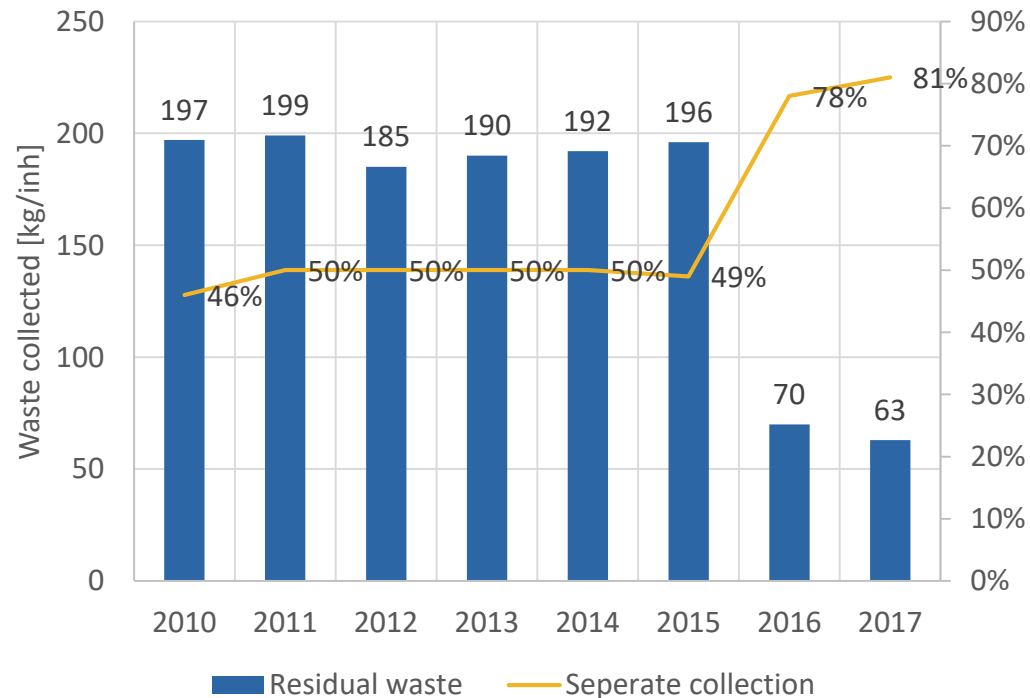
## Revenues

- Waste fee from citizens (income financed by PAYT fees) 
- EPR fees packaging industry 
- Tax savings incineration 
- Incineration benefits 
- Recovered materials 

*\*(arrows not to scale)*

## Positive developments

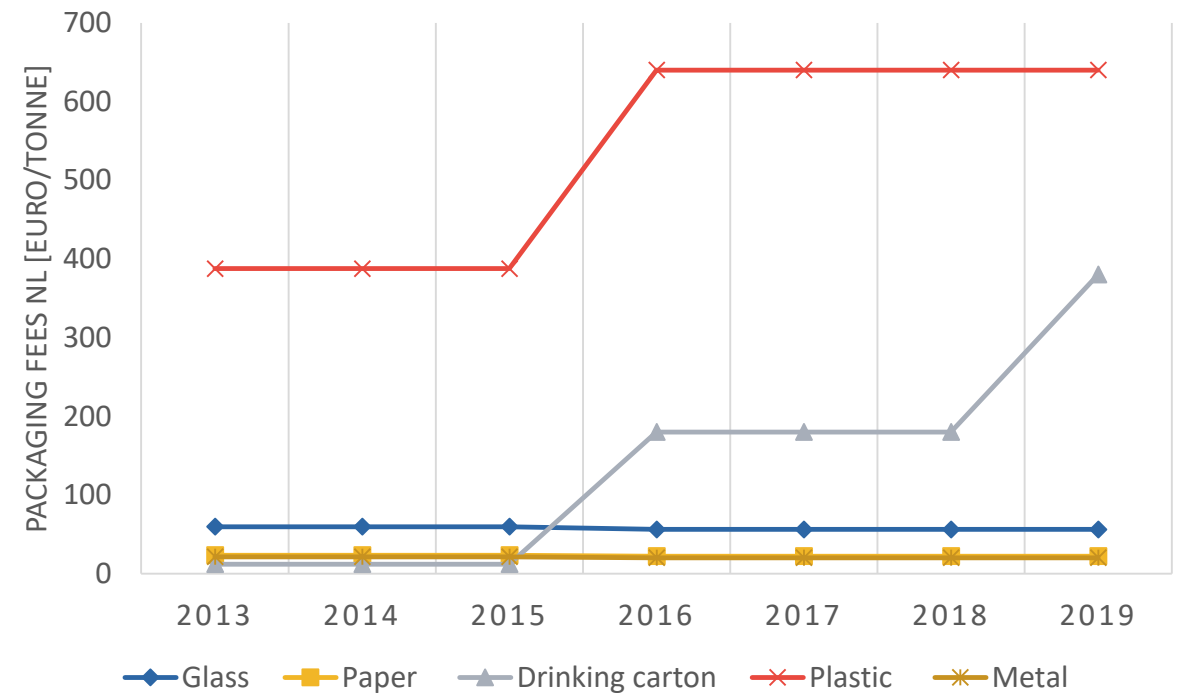
1. Decrease in residual waste
2. Increase in recyclable waste
3. Decrease in citizen waste fee (on average)





### Financially enabled by:

1. Increase in EPR fees
2. (Increase in) Incineration tax (and landfill ban/tax)
3. Ambitious national and local policy





## OUR CONSORTIUM



# Thank you!

Twan van Leeuwen

PNO Consultants

[twan.vanleeuwen@pnoconsultants.com](mailto:twan.vanleeuwen@pnoconsultants.com)

[www.collectors2020.eu](http://www.collectors2020.eu)