

# Vehicle fleet of Stadtreinigung Hamburg



**STADTREINIGUNG HAMBURG**

Sven Winterberg,

Head of the department customer service, disposal and sales

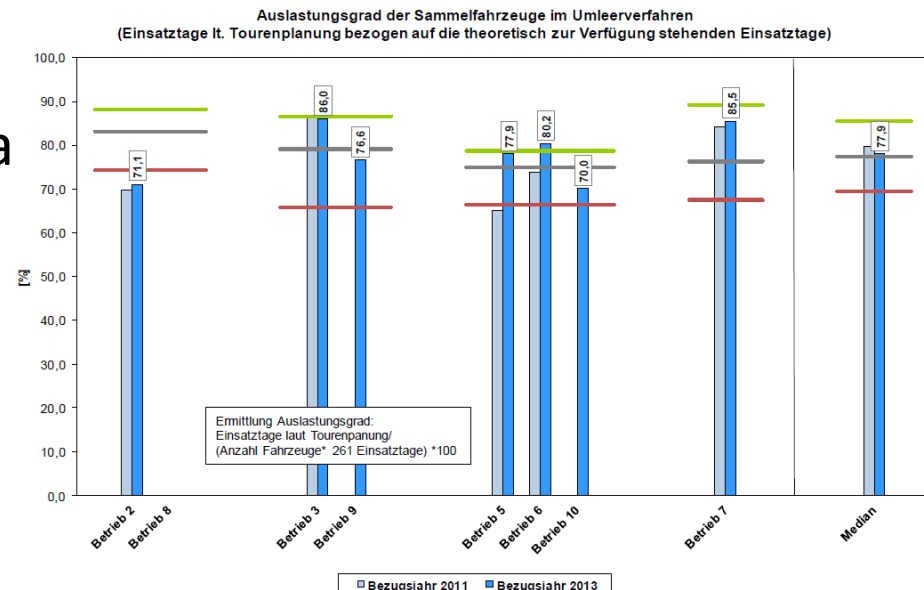
# Management of the vehicle fleet

## – The vehicle fleets tasks:

- Supply and disposition of vehicles and cost allocation
- Documentation of vehicles' „lives“
- Testing and procurement of vehicles
- Letting of vehicles
- Operation of the SRH-owned gas stations
- Advisory service to the executive board
- Drivers' in-service training
- reporting and processing accidents

# Management of the vehicle fleet – Benchmarking (with other public companies)

- Comparison of key-figures such as
  - utilisation rates of workshops  
(Repair hours / man hours - 86 %)
  - utilisation rates of vehicles  
(planning days / working days - 78 %)
  - Age of vehicles (6 years)
  - Annual cost (waste truck  
with 3 axes – 54.000 Euro / a
- Identification of best-practices

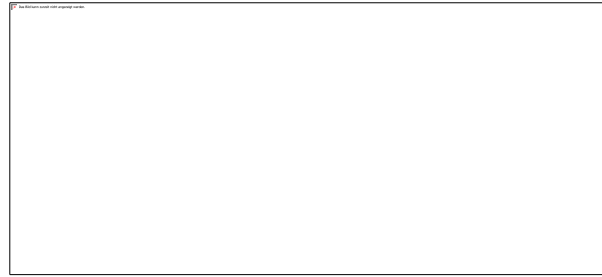


# Management of the vehicle fleet

## – Spare parts storage concept

- Workshops don't have their own storage facilities, don't even store small parts (like f. i. screws, filters).
- Separate SRH-storage facilities are managed by a different and independent department. (We use the „4-eyes-principle“ to protect employees from suspicion and / or temptation)
- Only few spare parts in stock because of short wait for deliveries (In Germany, deliveries take about 3 – 4 hours because of the very good infrastructure.)
- In general, there should be so many spare parts that waiting (unproductive) periods in workshops are kept to a minimum but not too many because of the capital employed in storage inventory.
- Focus on few different types of vehicles

# Frame conditions – Vehicles



166 Waste trucks

21 trucks for bulky waste

7 side loaders



46 hook container trucks (also: roll-off tippers)

3 overhead loaders

37 truck mounted sweepers

# Frame conditions – Vehicles

- 9 waste bin vehicles
- 141 small trucks for street cleaning
- 12 wheel loaders
- 48 winter service – gritter lorries
- 2 tractors (units)
- 21 furniture vans
- 32 small sweepers
- 11 trailers
- 115 workshop vans
- All in all: 670 vehicles and 350 pieces of equipment



# Frame conditions –

## Key figures vehicle fleet

- 670 vehicles, 350 of which weigh 7.5 tons or more
- 350 pieces of equipment (f. i. leaf vacuums, spreaders for road salt)
- Annual consumption of diesel:  
~ 4.5 million liters
- Annual mileage: ~12 million km,  
waste trucks: ~ 4 million km
- Hours worked in workshops:  
~100,000 per year for maintenance  
and repairs

Fahrzeugart	Plan 2016		
	Anzahl	Investitionssumme T€	Schadstoffklasse
Systemmüllfahrzeuge	17	4.141	EURO 6
Systemmüllfahrzeuge WERT	3	600	EURO 6
Abrollkipper	8	1.096	EURO 6
Großkehrmaschinen	4	840	EURO 6
Spermüllfahrzeuge	3	705	EURO 6
Doppelkabiner mit Kippvorrichtung	10	600	EURO 6
Klein-LKW	11	539	EURO 6
Waschwagen	1	375	EURO 6
Radlader	2	480	Tier 3/4 B
Seitenlader	1	256	EURO 6
Frontlader	1	250	EURO 6
Micro-Systemmüllfahrzeuge	1	156	EURO 6
Schleppfahrzeuge	1	140	EURO 6
LKW-Anhänger	3	111	-
Werkstattwagen	2	98	EURO 6
Multicar	1	97	EURO 6
Laubsaugcontainer	1	82	Tier 4 Final
Gabelstapler	1	46	Tier 4 Final
Kleintraktor	1	40	Tier 4 Final
<b>Summe</b>	<b>72</b>	<b>10.652</b>	

# SRH-Practice –

## Vehicle disposition

- Maintenance planning
- Scheduling internal and external maintenance appointments, monitoring
- Provision of replacement vehicles and transfer
- Vehicle transports
- Phase-in and phase-out of vehicles
- Keeping status messages up-to-date (using IT as well as a pinboard)

## Workshop

- Maintenance and repair of own vehicles as well as others
  - Distributing and managing work in workshop
  - disposition of materials
- Monitoring of subcontracting / Controlling outsourced services
  - technical investigations /tests (before procurement)
- Conducting conversions / refits



# Recommendations –

## fleet concept

- As little variations and types as possible
  - Less need for trainings
  - changing vehicles easy
  - Little diagnostic equipment
  - Less storage of spare parts
- Regularly scheduled maintenance in alignment with obligatory dates and preventive maintenance and repairs
- Actual adjustments of extents

## procurement

- Tendering is mandatory
- Tests are done beforehand, operations and employees are included
  - Periodic controlling of operational data
  - Quality management

# SRH-recommendation: Budget planning vehicle fleet:

- Detailed annual plan
  - By truck / vehicle
  - Investment in Euro / a
- Overview of investments for the next 5 years
- replacements are planned according to technical life cycle
  - Conflict: maintenance vs. depreciation
  - Technical innovations: automatic lifter, emission standards, e-mobility

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Fahrzeuge

Jahr	Investitionssumme in T€	Abweichung zum VJ in T€	Abweichung zum VJ in %
2016	10.652		
2017	12.350	1.698	15,9%
2018	13.211	861	7,0%
2019	12.084	-1.128	-8,5%
2020	13.074	990	8,2%
2021	7.887	-5.188	-39,7%

# Transfer

- Daily checks of vehicles by drivers
- Maintenance planning
- As little variations and types as possible
- Testing before procurement
- Drivers' in-service training
- Using operational vehicle data:
  - Fuel consumption (prevention of fuel theft)
  - Checking for correct driving style (rpm range)

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