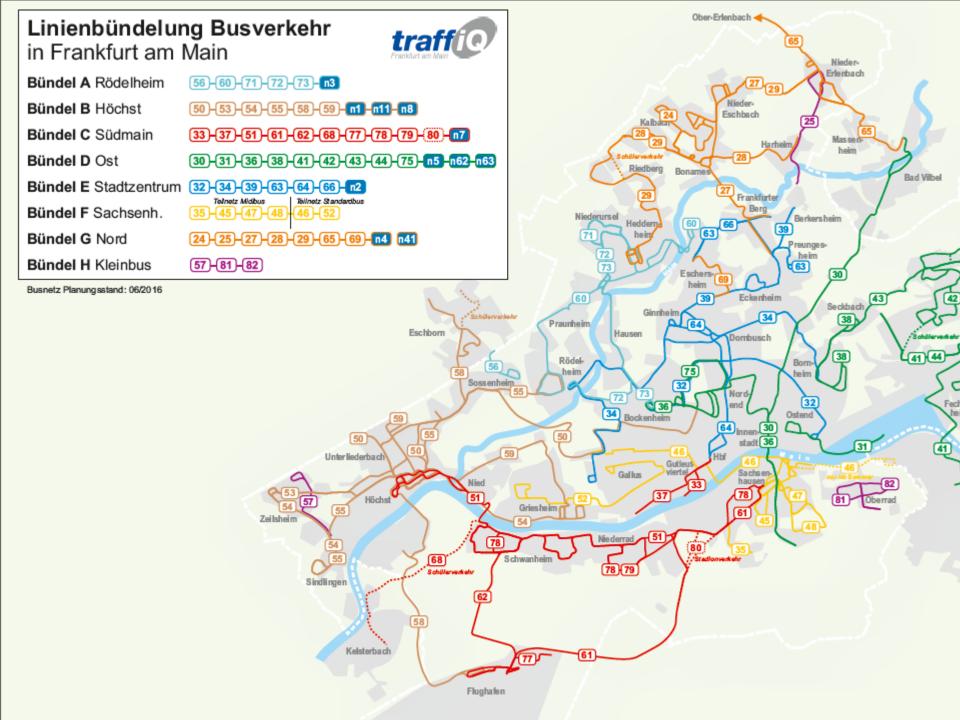


Burkhard Proske *traffiQ* 

Local Public Transport Authority for the City of Frankfurt am Main Germany (Europe)

Training on Transit Alliance and Contract-based Transit Service Foshan, China July 12-14, 2016







## **Tendering vs. Direct Awarding**



- 6 bus bundles are tendered
- Several private bus companies are on the market
- Easy accessible infrastructure



• light rail and 2 bus bundles:

**Direct awarding** to VGF/ ICB (city owned public transport company)

# **Setting high quality standards**

increase the number of customers for

public transport





#### Fundamental Contents of the Transit Service Contracts

- Duration of services, scope of services
   (including operating schedule, time schedules, routes)
- Compliance with all laws, standards and requirements
- Quality requirements for vehicles, staff, distribution
- Reporting obligations
- Financing, provision of collaterals
- Bids are not allowed to contain public subsidies in order to be comparable
- Observance of high environmental standards are obligatory





# Quality to win and keep customers Setting high standards

# Quality requirements for operation and infrastructure Same standards for all modes (bus and rail)

## **Control quality**

Measure hard (objective) and soft (subjective) criteria

#### **Give incentives**

Bonus payment for good services, penalty for bad ones to fulfill standards and motivate operators

#### **Success**

Continuous increase of customer satisfaction Saving money whilst increasing quality





# Quality to win and keep customers Setting high standards

## Quality requirements for operation and infrastructure

Same standards for all modes (bus and rail)

Vehicle, infrastructure and staff requirements, e.g.

- >> Average age (vehicles)
- >> Technical equipment features (vehicles, infrastructure)
- >> Minimum space seat partition (vehicles)
- >> Customer information (vehicles, infrastructure)
- >> Exhaust standard (vehicles)
- >> Cleanliness (vehicles, infrastructure)
- >> Knowledge of rules and regulations, network and routes, fare rates and types of tickets (staff)
- >> Good conduct of the German language and pleasant appearance (staff)
- >> Behaviour: general conduct, conversational skills, social skills relating to passengers restricted in their mobility, driving skills (staff)









# Quality to win and keep customers Setting high standards

## **Control quality**

Measure hard (objective) and soft (subjective) criteria

### Objective Criteria, e.g.

- Accuracy and efficiency of passenger information outside and on board the vehicle
- Standardized appearance of staff
- Sale of tickets
- Driving staff's knowledge of rates and location (tariff test)

## Subjective criteria - Customer satisfaction, e.g.

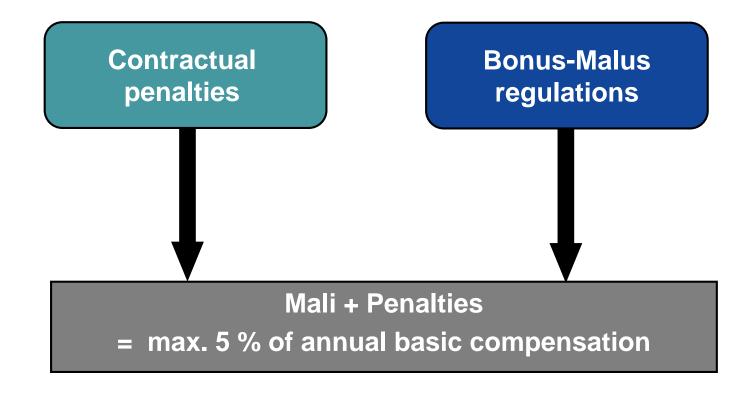
- Punctuality
- Personal safety on board
- Temperature on board
- Cleanliness of vehicle
- Quality of information
- Style of driving
- Friendliness/responsiveness
- Appearance





# traffic

# Assessment and sanctioning by means of the "Bonus-Malus-System"





## Objective (hard) quality gains

Correctness and function of the passenger information on the vehicle

A1: destination front

A2: destination door side

A3: line number front

A4: line number door side

A5: line number rear side

Correctness and function of the passenger information in the vehicle

A6: display of the next stop

A7: display of the following 3 stops

A8: display of the transfers

A9: announcement of the next stop and transfers

A10: recent network plan

A11: display stop after using the stop button

A12: acustic "stop" signal after using the stop button

Distribution of tickets

A13: ticket purchase possible





# Subjective (soft) quality gains

#### Offer

**B1:** Punctuality

#### **Vehicles**

B2: personal security in the vehicle

B3: temperature in the vehicle

B4: cleanliness of the vehicle

#### **Drivers**

B5: quality of information

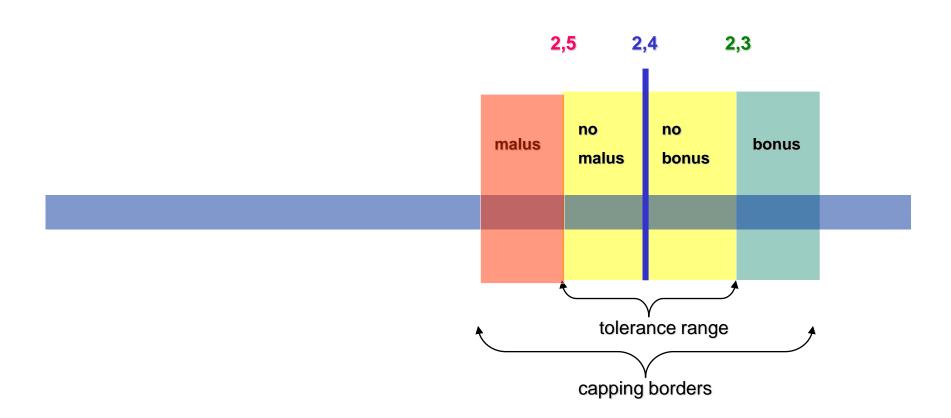
B6: way of driving

B7: kindness readyness to help

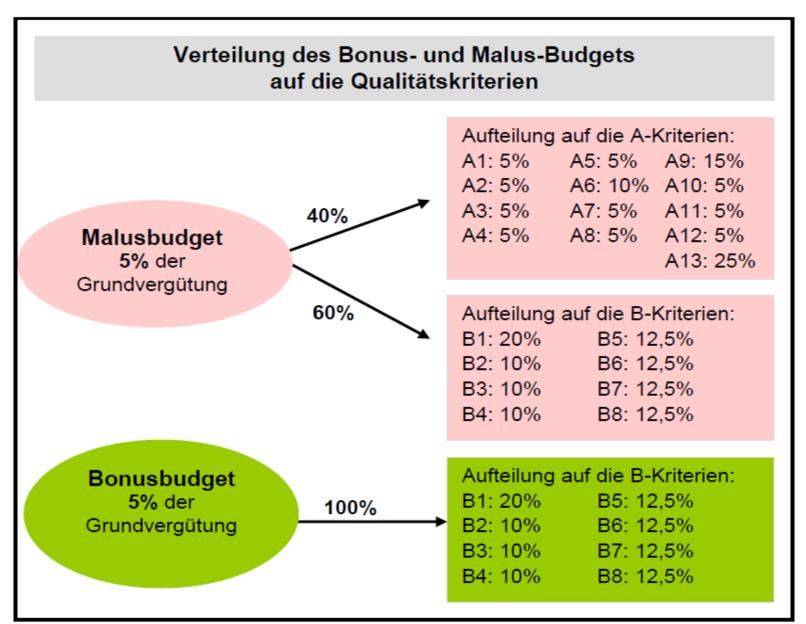


# **Bonus-Malus system**











_						
	1	2	3 A	3 B	4	5
Bezeichnung	Kriterium	M-	Soll	B-	lst	Ergebnis
		Grenze		Grenze		
Zufriedenheit mit der Pünktlichkeit	B1	2,5	2,4	2,3	2,3	-
Zufriedenheit mit der persönlichen Sicherheit	B2	2,0	1,9	1,8	2,0	-
Zufriedenheit mit der Temperatur im Fahrzeug	B3	2,1	2,0	1,9	1,9	-
Zufriedenheit mit der Sauberkeit des						
Fahrzeugs	B4	2,3	2,2	2,1	2,0	Bonus
Zufriedenheit mit der Qualität der Auskünfte						
des Fahrpersonals	<b>B</b> 5	2,2	2,0	1,8	2,2	-
Zufriedenheit mit dem Fahrstil des						
Fahrpersonals auf der Linie	B6	2,5	2,4	2,3	2,4	-
Zufriedenheit mit der						
Freundlichkeit/Hilfsbereitschaft des	B7	2,2	2,1	2,0	2,1	-
Zufriedenheit mit dem äußeren						
Erscheinungsbild des Fahrpersonals	B8	2,0	1,9	1,8	1,9	-





#### Malus-Berechnung

maras Ber	Maius-berecimung												
1	2	3a	3b	4	5 a	5 b	6	7					
Kriterium	Toleranz-	ermittelter	ermittelter	Differenz	erreichte	angesetzte	Malus in €	Malus in €					
Α	Wert	IST-Wert	IST-Wert		Schri	ttzahl	pro Schritt	pro Merkmal					
			(gerundet)		(je angef. 2%-	Pkt. je Schritt)	(aus Pkt. 2a)						
A1	98%	97,9%	98%	0%	0	0	1.798,20 €	- €					
A2	98%	97,8%	98%	0%	0	0	1.798,20 €	- €					
A3	98%	100,0%	100%	0%	0	0	1.798,20 €	- €					
A4	98%	100,0%	100%	0%	0	0	1.798,20 €	- €					
<b>A</b> 5	98%	100,0%	100%	0%	0	0	1.798,20 €	- €					
A6	98%	94,8%	95%	3%	2	2	3.596,40 €	7.192,80 €					
A7	98%	95,7%	96%	2%	1	1	1.798,20 €	1.798,20 €					
A8	98%	97,3%	97%	1%	1	1	1.798,20 €	1.798,20 €					
A9	98%	97,8%	98%	0%	0	0	5.394,60 €	- €					
A10	98%	99,0%	99%	0%	0	0	1.798,20 €	- €					
A11	98%	97,0%	97%	1%	1	1	1.798,20 €	1.798,20 €					
A12	98%	98,1%	98%	0%	0	0	1.798,20 €	- €					
A13	98%	98,8%	99%	0%	0	0	8.991,00 €	- €					
17.16	<b>-</b> 1		244 14	D:((				M 1					







# Environmental innovation Demanding exhaust emission standards

## traffiQ as Germany's pioneer

EEV standard in all new busses since 2007 Even before low emission zones in metropolises were considered

## Vehicle industry pulls along

Market for EEV busses is growing

## Following development

Hybrid busses (starting early 2011) Electric vehicles (starting late 2011)

## Tramway & underground traffiQ

operating completely with green energy

#### Success

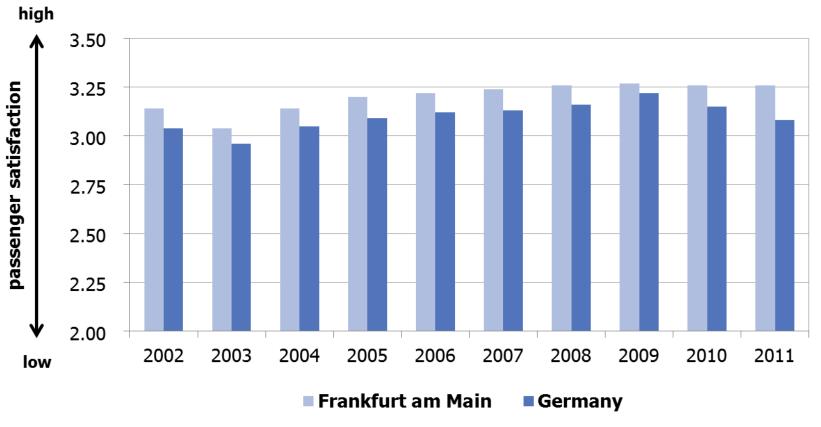
Less polluting PT, reduced costs at the same time





# Measure of the quality The passenger satisfaction has increased













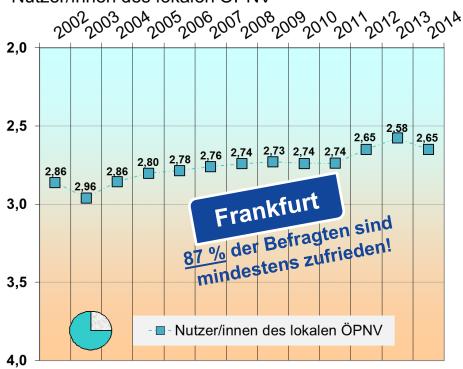
# Die Qualität stimmt

# traffic

# Frankfurter Fahrgäste sind zufriedener



Globalzufriedenheit mit dem Frankfurter ÖPNV Nutzer/innen des lokalen ÖPNV



#### Globalzufriedenheit

Frankfurt (lokaler Verkehr) vs. Deutschland gesamt

