



**Mir mache BÄRN MOBIL – We make Bern mobile**

## Population, working places and commuters

	Bern City	Served area	Bern Region
<b>Population</b>	132'555	215'000	315'000
<b>Working places</b>	152'600	190'000	224'000

**Commuters**  
**95'000/day**

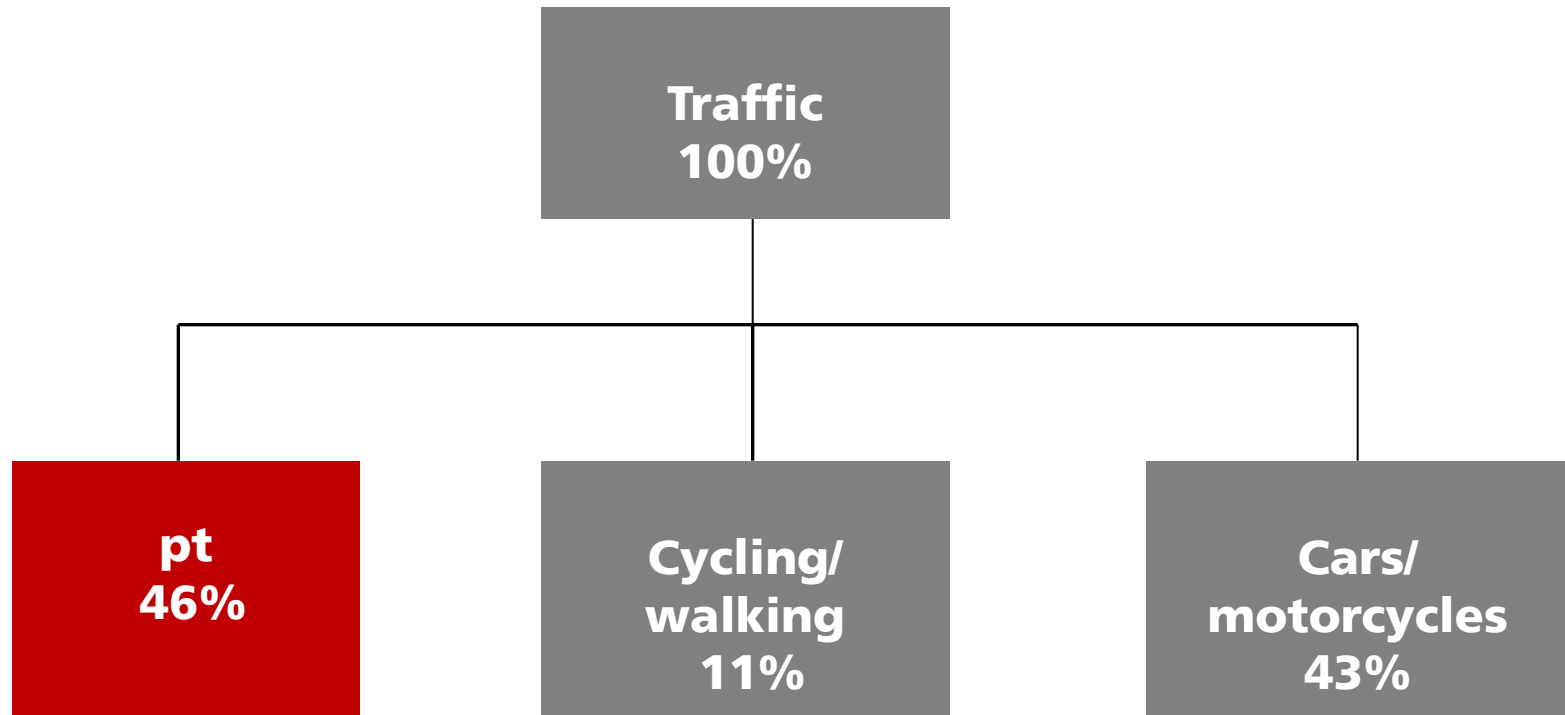




## Old town is an UNESCO world heritage

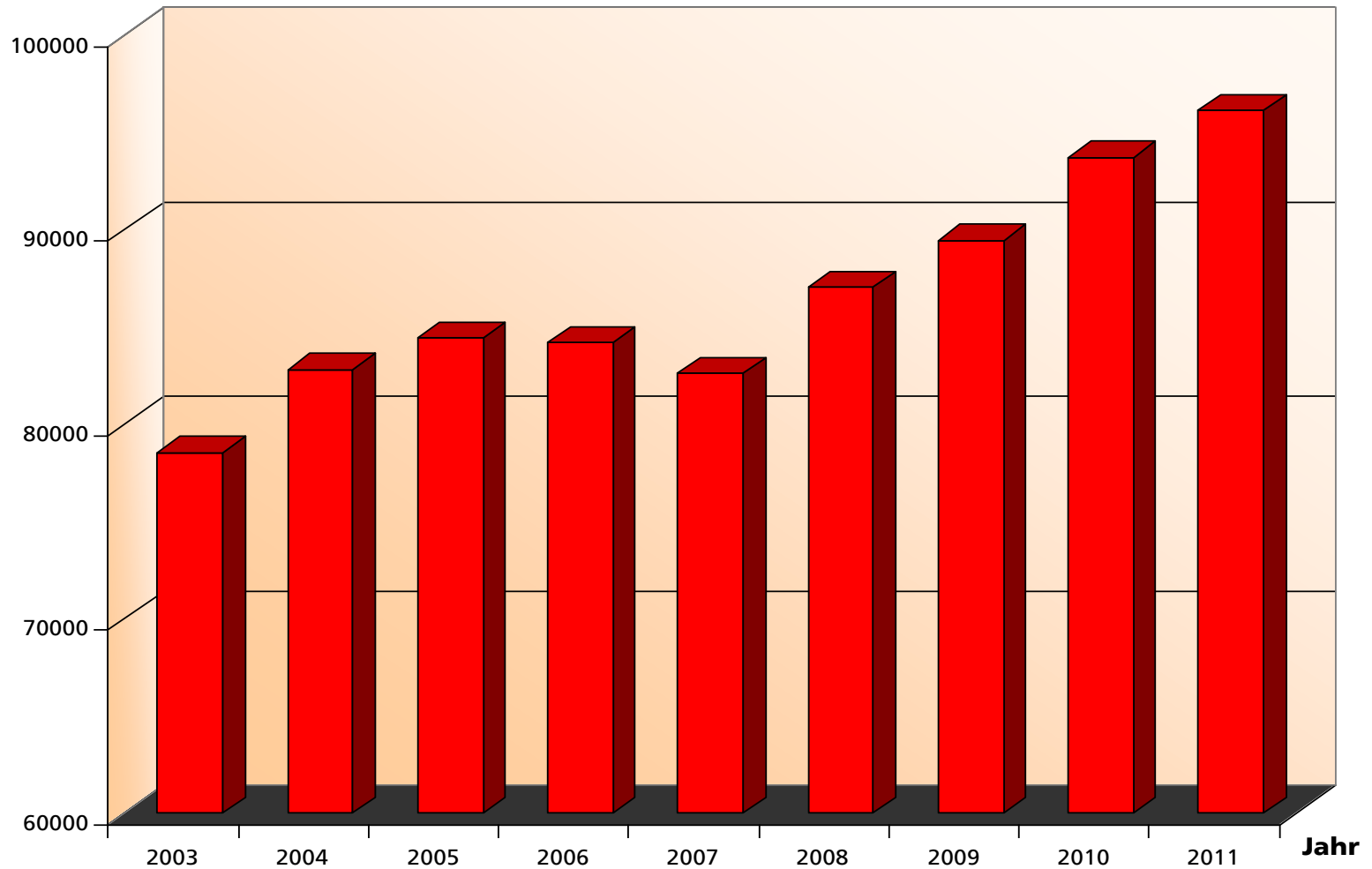


## Market shares City of Bern (distance km)



## Continuous growth of passengers

Fahrgäste in 1000



## Services

	<b>Tram</b>	<b>Trolleybus</b>	<b>Bus</b>	<b>Total</b>
<b>Lines</b>	5	3	19	<b>27</b>
<b>Length</b>	39.6 km	11.7 km	116 km	<b>167.3 km</b>
<b>Vehicles km*</b>	3.7 Mio.	1.5 Mio.	5.0 Mio.	<b>10.2 Mio.</b>
<b>Passengers*</b>	45.9 Mio.	20.8 Mio.	29.4 Mio.	<b>96.1 Mio.</b>
<b>Stops</b>				<b>310</b>
<b>Schedule</b>	6 min.	2 - 8 min.	3 -10 min.	

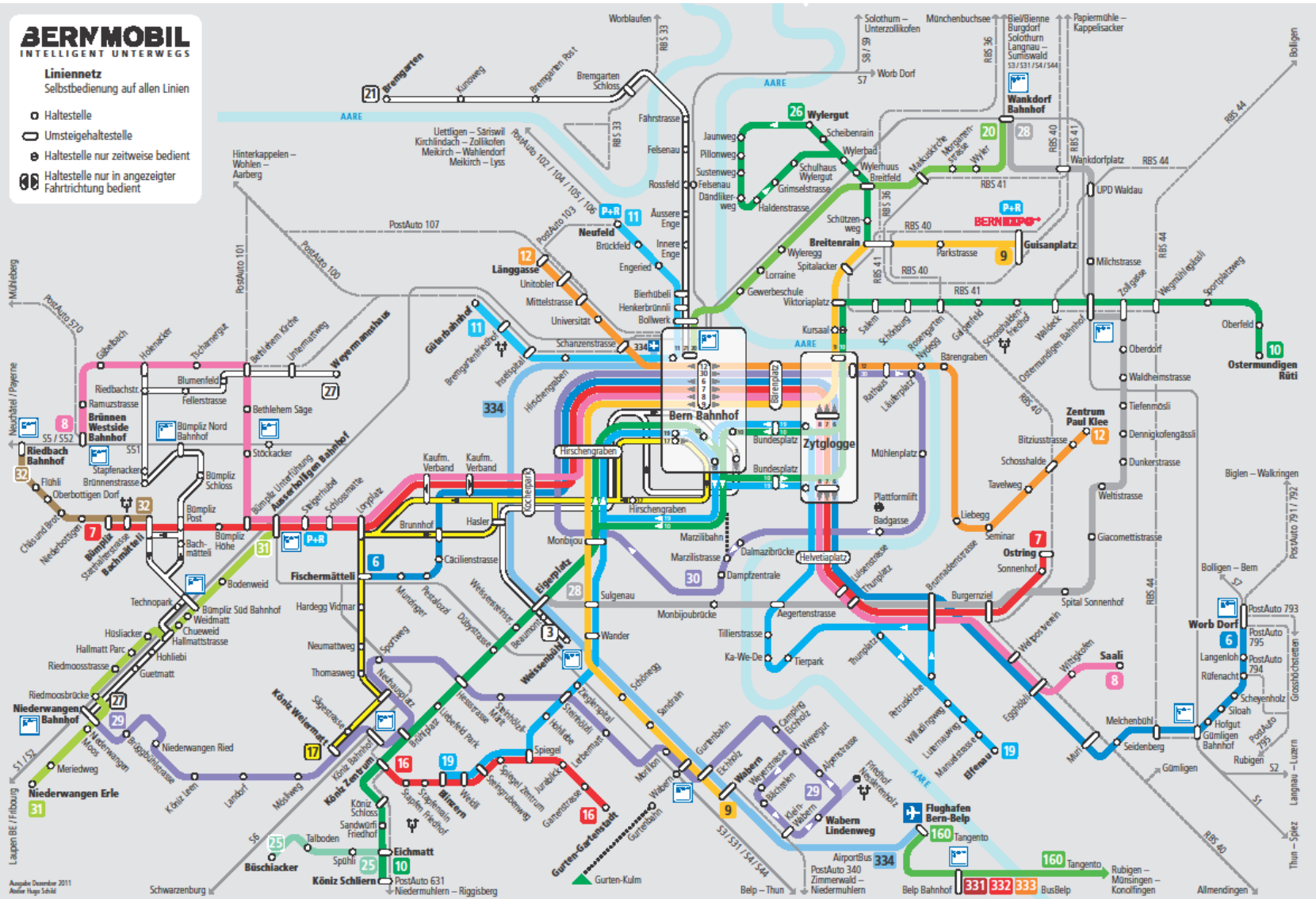
\* 2011

## Pt net City of Bern

**BERN MOBIL**  
INTELLIGENT UNTERWEGS

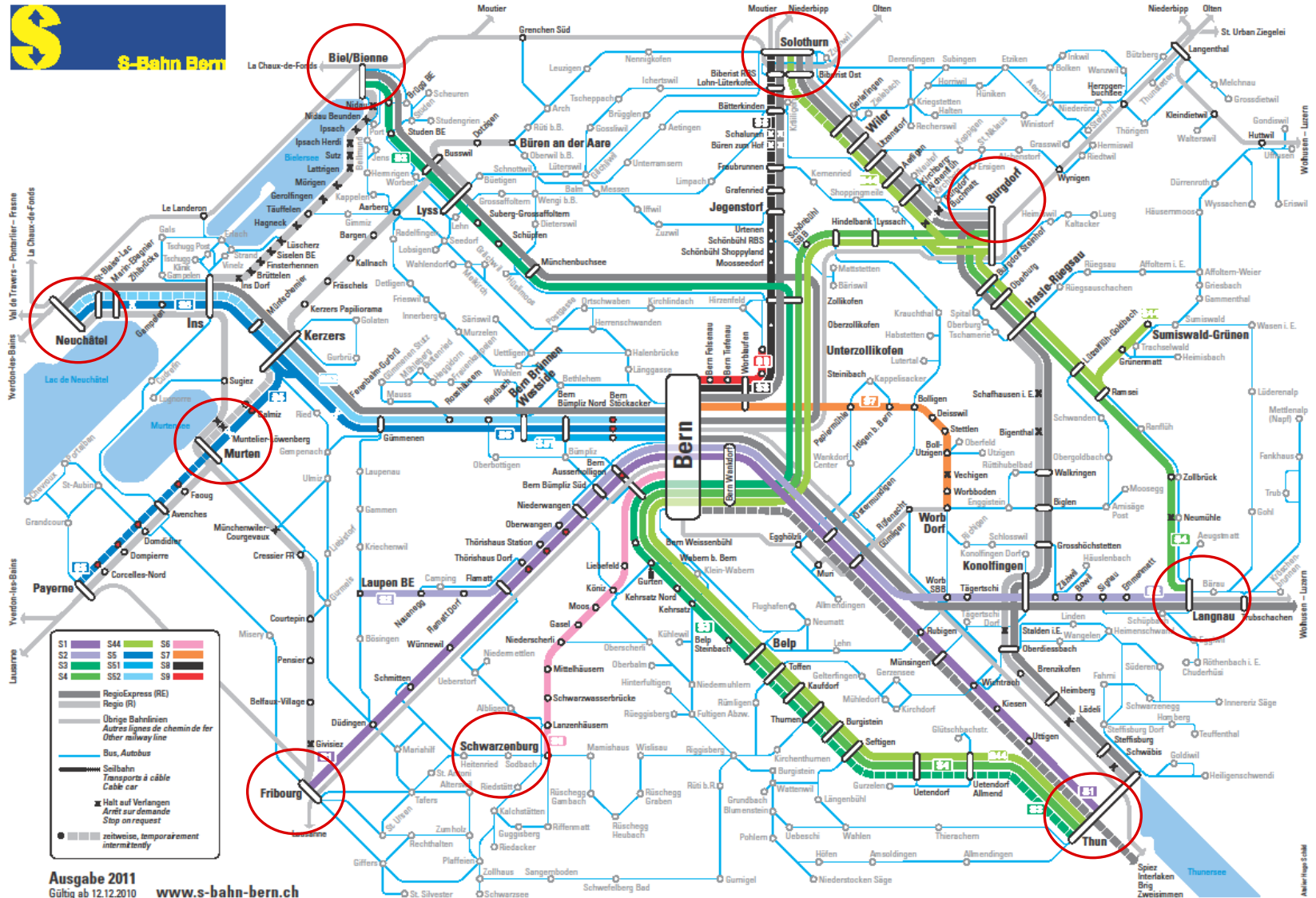
**Liniennetz**  
Selbstbedienung auf allen Linien

- Haltestelle
- ◻ Umsteigehaltestelle
- ◻ Haltestelle nur zeitweise bedient
- ◻ Haltestelle nur in angezeigter Fahrtrichtung bedient





## Pt net Bern Region





## 48 Trams



### **12 Vevey-ABB-Duewag Be 4/8**

31 m length

Construction 1989/90



### **15 Siemens Combino Advanced**

- 7 at 31 m length (Be 4/6)

- 8 at 41.5 m length (Be 6/8)

Construction 2002-2004/2009



### **21 Siemens Combino Classic XL Be 6/8**

41.5 m length

Construction 2009/2010



reddot design award  
winner 2011

## 141 Busses



**24 Mercedes Citaro**  
CNG GAB (Gas)  
2009/2010

**32 Volvo 7700A**  
CNG GAB (Gas)  
2006



**16 Volvo 7700A2**  
CNG AB (Gas), 2007/2009

**2 MAN Lion's City**  
Diesel, 2011



**20 Swisstrolley GAB**  
Hess/NAW/Kiepe  
1998/2000



**11 MAN Lion's Midi**  
Diesel, 2011

**12 MAN Midi**  
Diesel, 2005



**22 Hess Volvo**  
**GAB**  
Diesel  
2002/2003



**2 Mercedes Sprinter**  
Diesel  
2011

## Accessibility for handicapped people



- 100% low floor vehicles with wheelchair ramps
- optical and acoustic passenger information in the vehicles
- Optical passenger information at the vehicles and stops
- Stepfree entrance at new stops and rebuilt stops
- Squares for blind people at stops
- Reserved seating places
- Space for wheelchairs in the vehicles
- Ticket machines and informations at stops adapted for handicapped people
- Special trainings for collaborators



## Staff

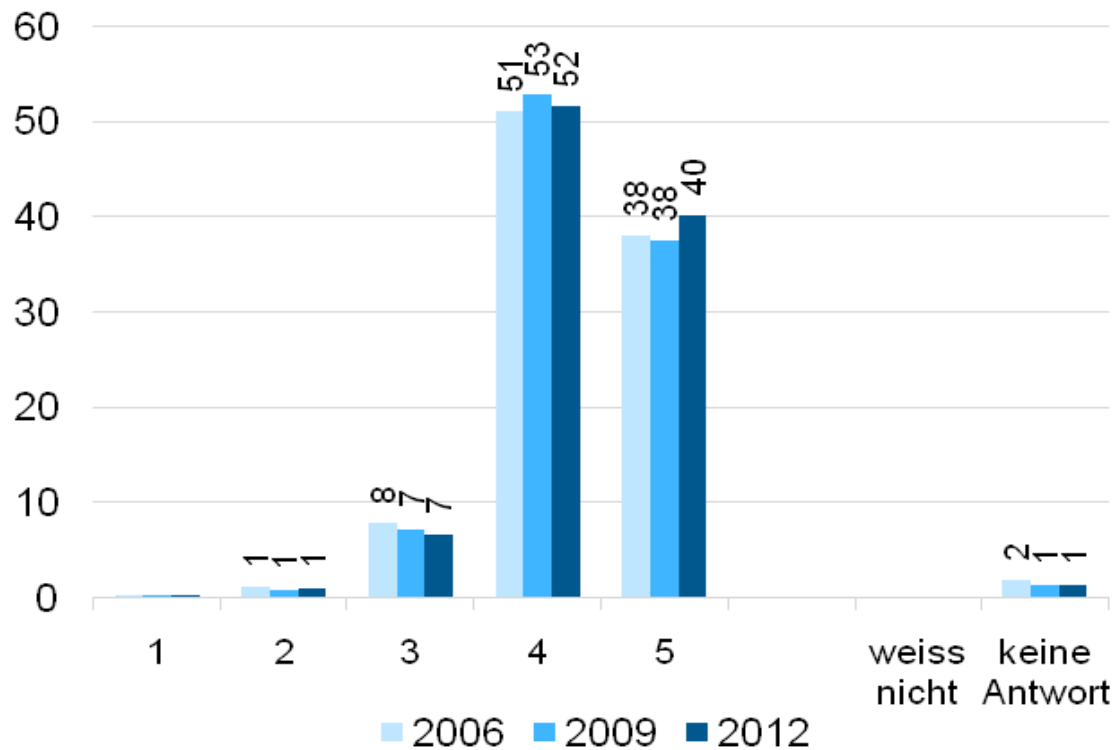
**814 employees (2011)**  
(703 men/111 women)

- 564 operation
- 153 technique
- 85 administration
- 12 trainees





## Customer satisfaction survey 2012



### Overall staisfaction 1998 - 2009

Year	MW	Trend
<b>2012</b>	<b>4.31</b>	<b>↗</b>
2009	4.28	→
2006	4.28	↗
2003	4.19	↗
2001	4.07	↘
1998	4.19	

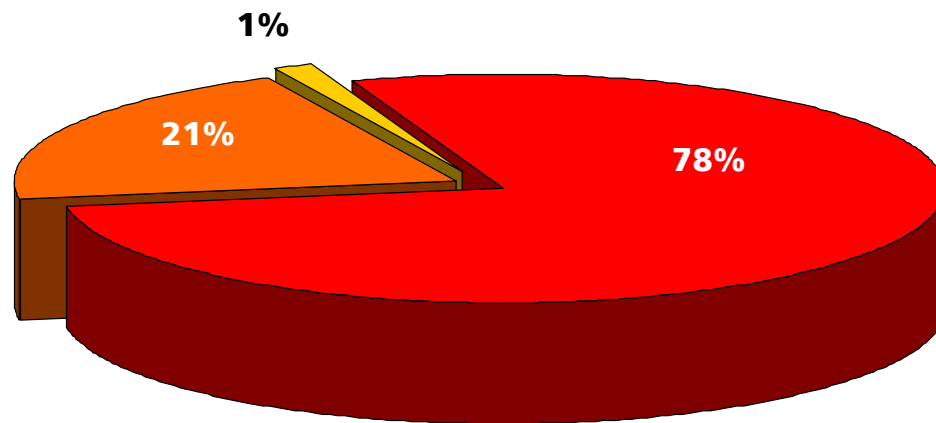
**Finance (2011 in CHF 1'000)**

<b>Revenue</b>	
Ticket revenue	90'767
Other revenue	13'881
Total I	104'648
Compensation	51'419
<b>Total II</b>	<b>156'067</b>
<b>Expenditures</b>	
Staff	75'880
Material cost	52'742
Depreciation, capital cost	25'675
<b>Total</b>	<b>154'297</b>

**Degree of cost recovery**
**67.8%**

## Ticket revenue

**CHF 90.77 Mio. (2011)**



■ **Libero**

■ **GA/HTA**

■ **Extrafahrten, Diverses**



## Environment

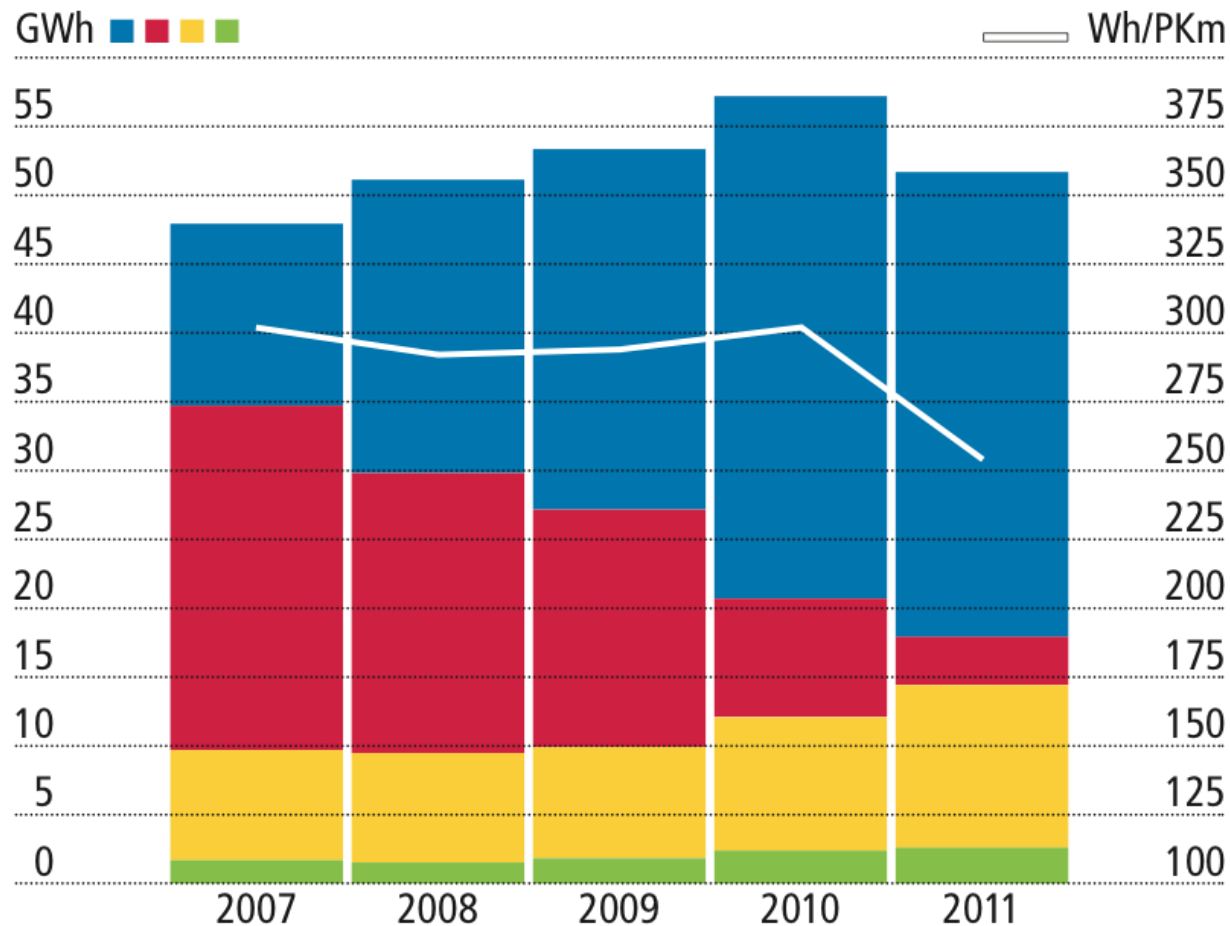
- Reduce the consumption of not renewable energy, substitution by renewable energy:
  - Switch-over from diesel to CNG/biogas
  - Electricity completely by hydrocraft
- Use of energy efficient technology:
  - Solar power on the roof of the new tram depot
  - Tests for energy storages on our vehicles
  - Standards for sustainable procurement
- Optimization of traffic management
- Promotion of electric traction
- Change the behavior of our employees
  - Eco Drive





## Development of energy consumption

### Energieverbrauch pro Traktion



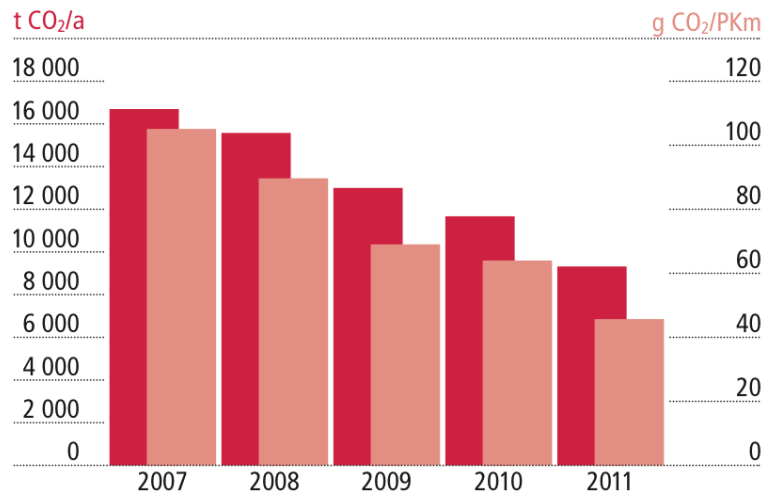
### Energy consumption 2010/2011:

-5.5 GWh due to Tram Bern West

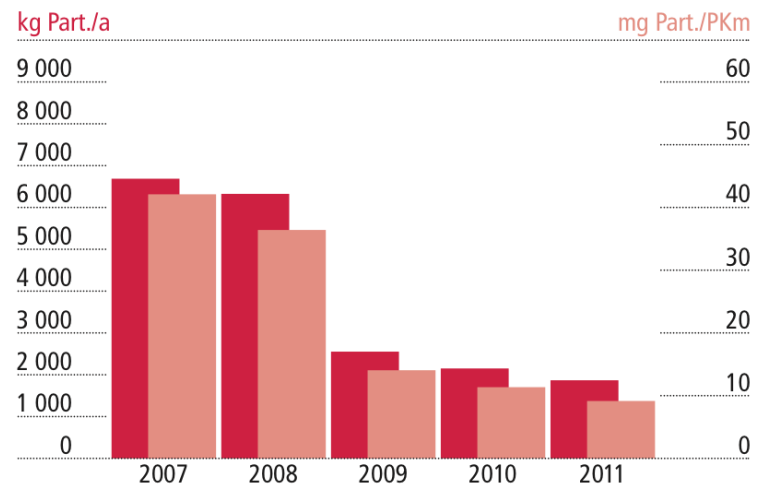
- Gasverbrauch
- Dieserverbrauch
- Stromverbrauch Tram
- Stromverbrauch Trolley

## Development of pollutant emissions

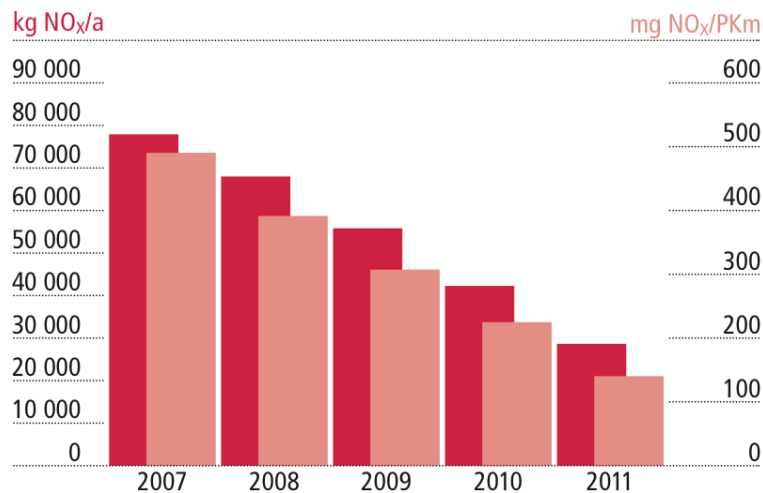
**Gesamtemissionen CO<sub>2</sub>**



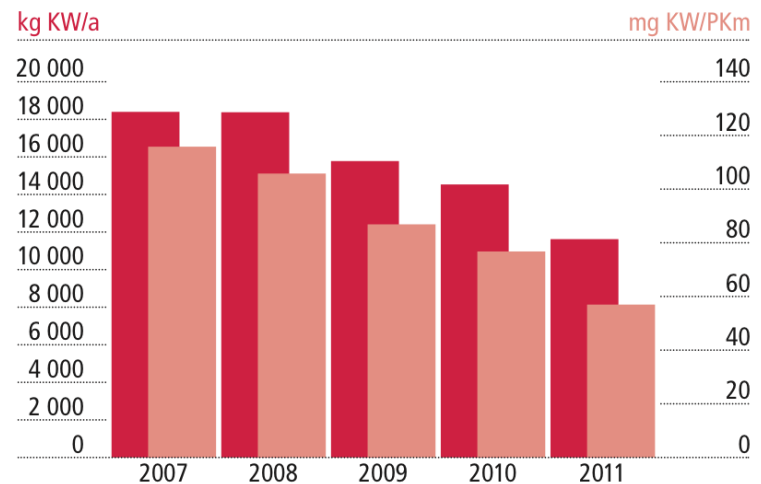
**Gesamtemissionen Partikel**



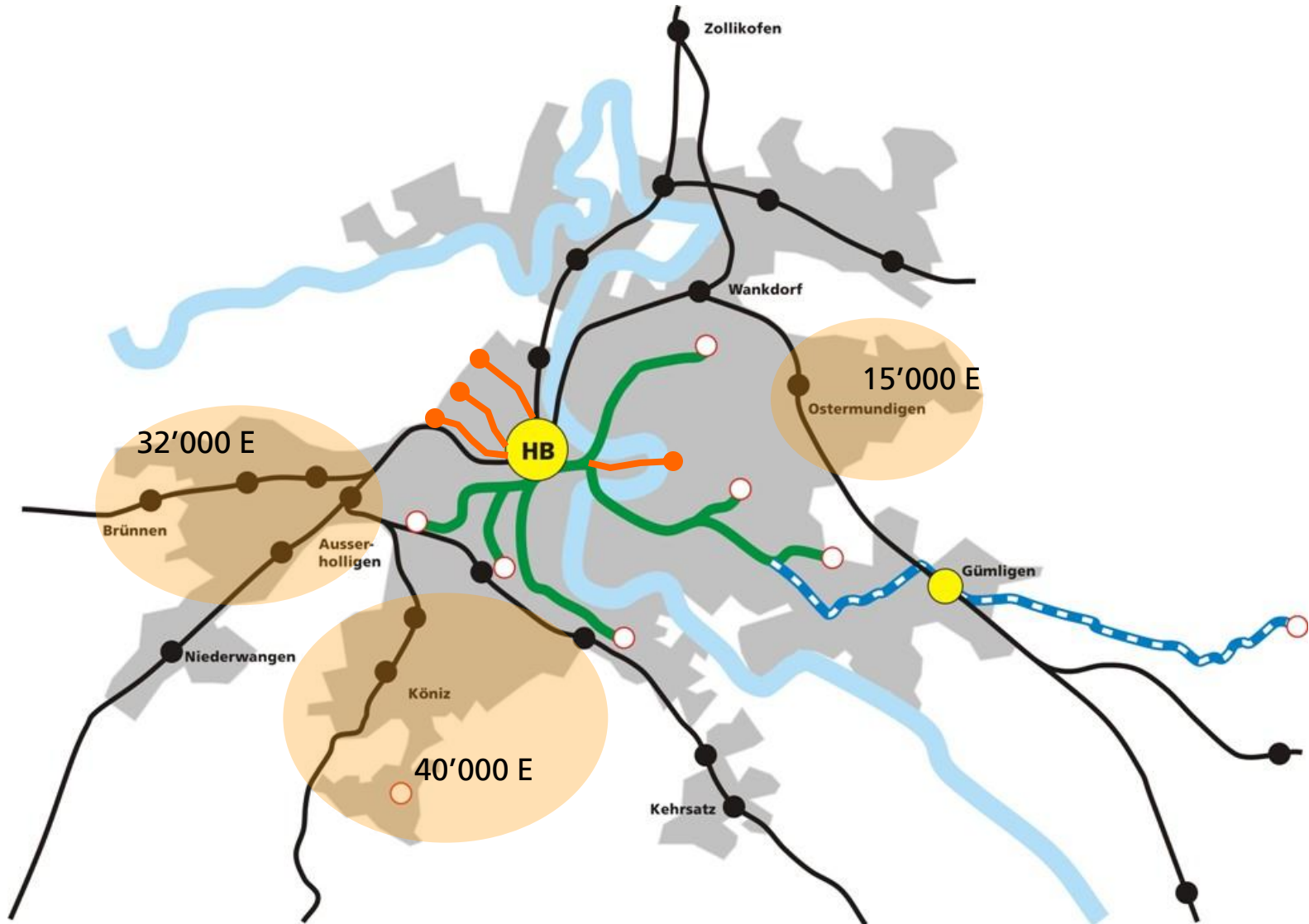
**Gesamtemissionen NO<sub>x</sub>**



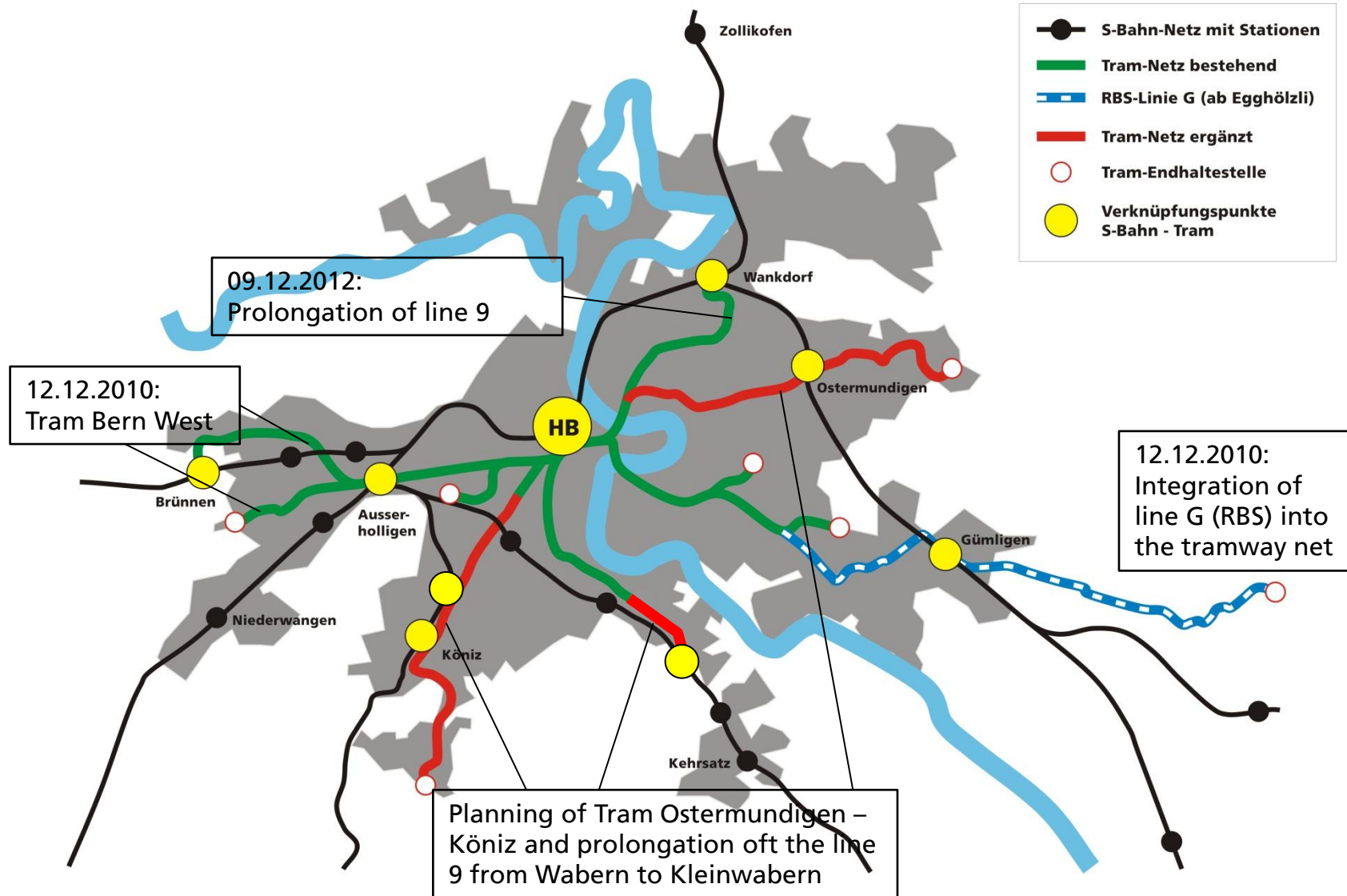
**Gesamtemissionen KW**



## Development of the tramway net (1)

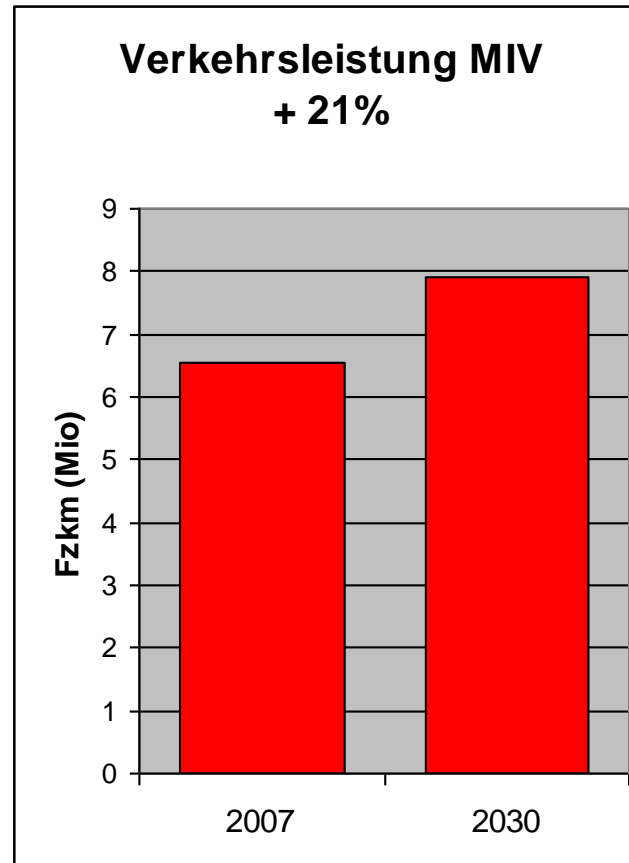
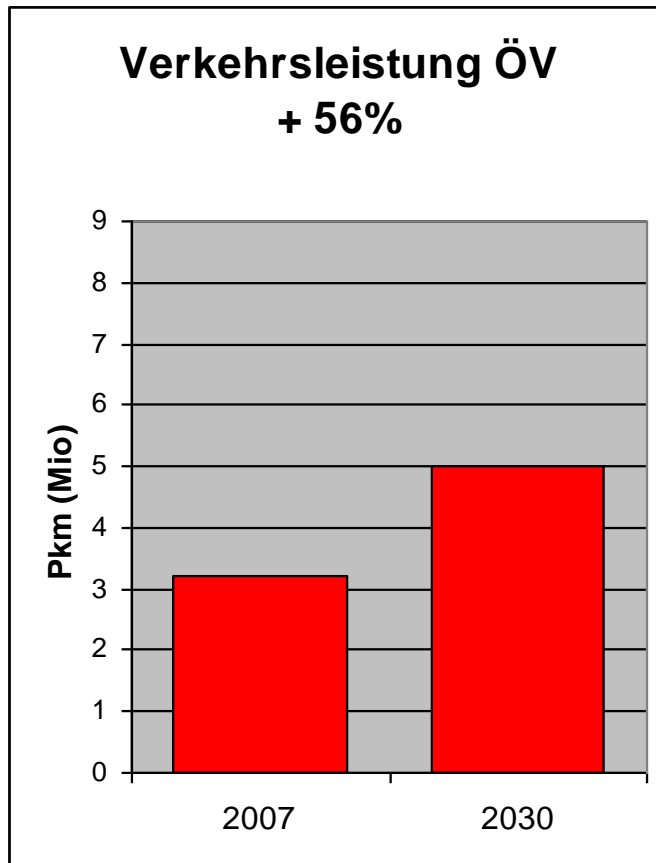


## Development of the tramway net (2)



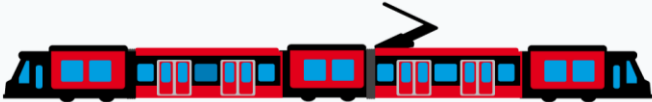





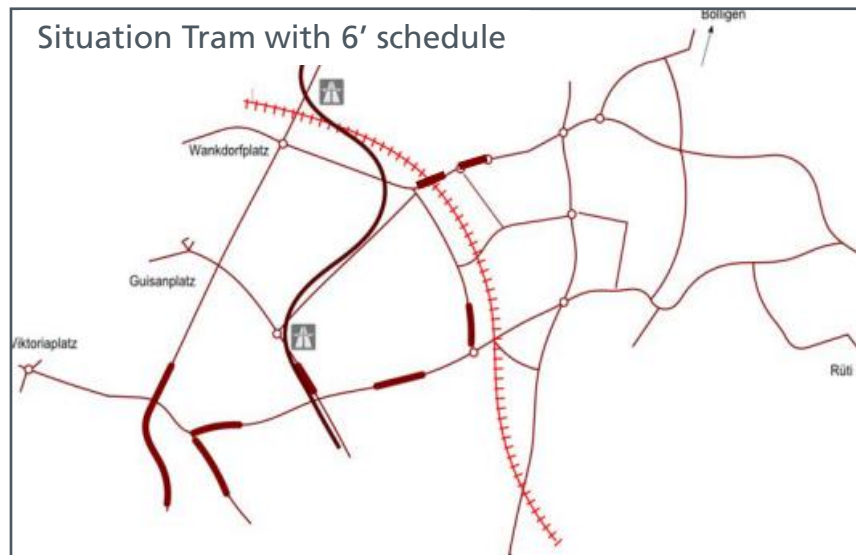
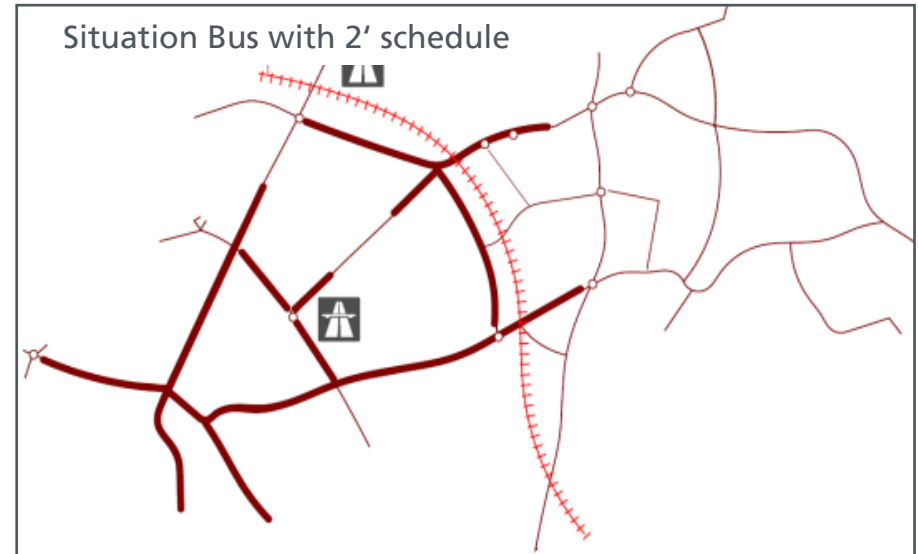
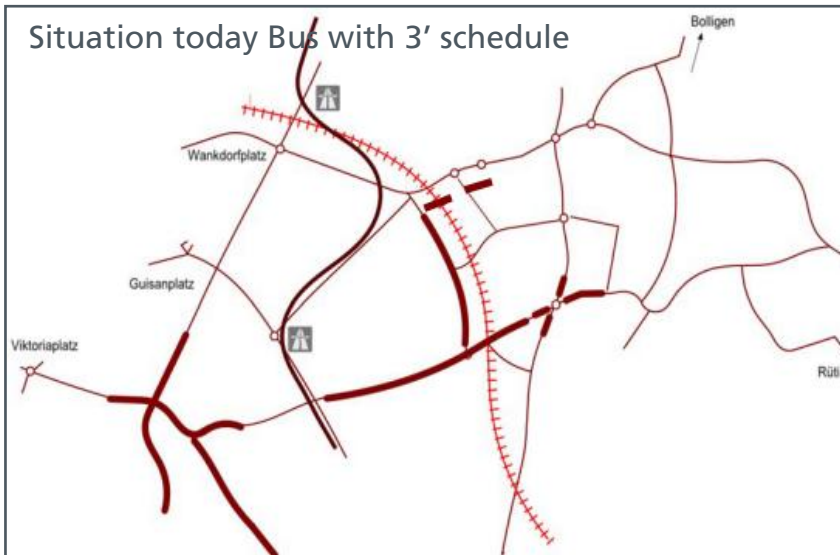
## Forecast of traffic development in the Region Bern



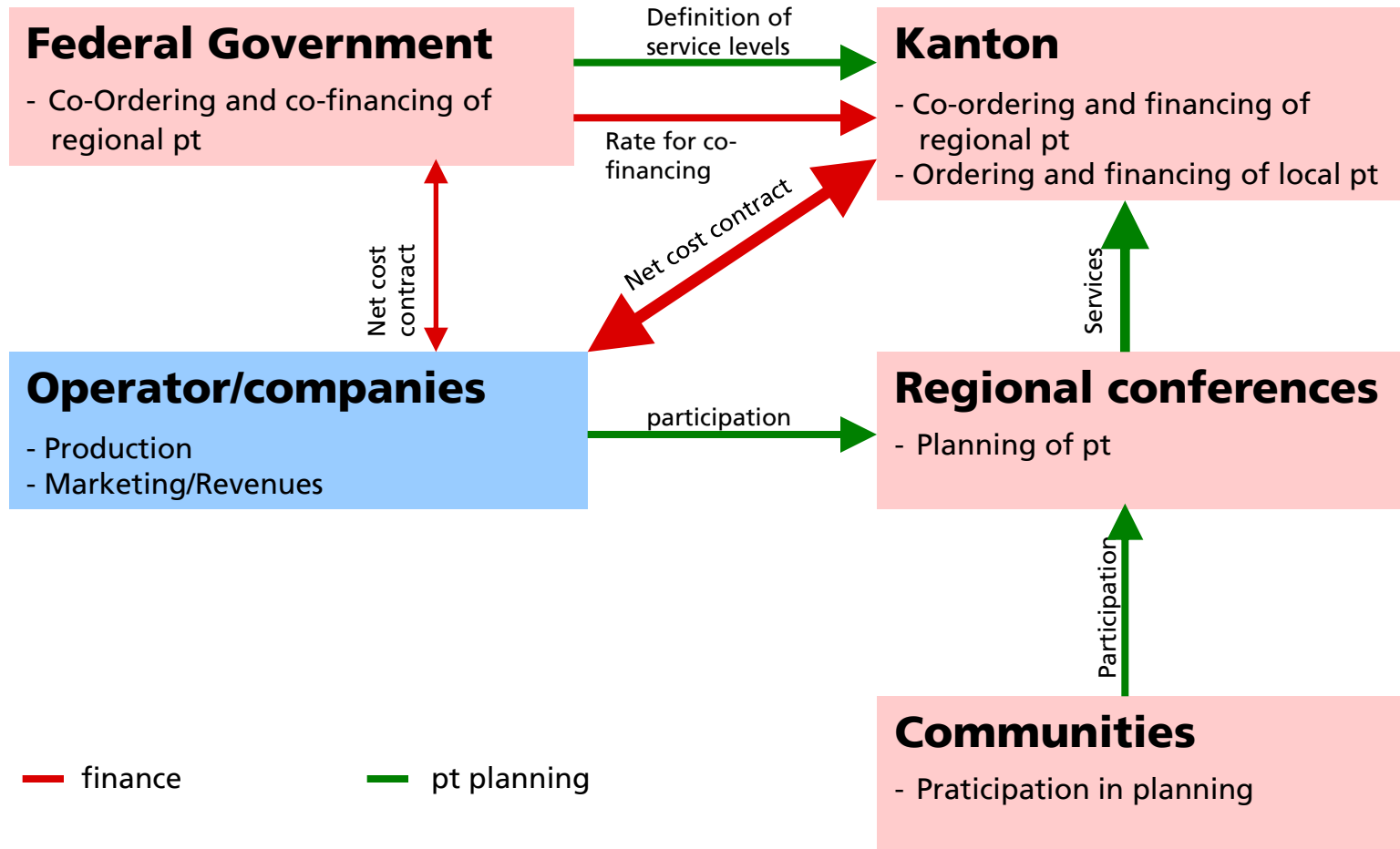
## Comparison of transport capacities

Fahrzeug		Länge	Plätze (2 Pers./m <sup>2</sup> )
Gelenkbus		18,5 m	70 (heute)
Megabus		24,7 m	95
Tram		31 m	120
Tram		42-45 m	170

## Sequences of traffic flow in Bern North Bus/Tram



## Organisation of public transport in the Kanton Bern





**Thank you for your attention**

