



# Munich's Transport and Tariff Association (MVV)



Munich1972

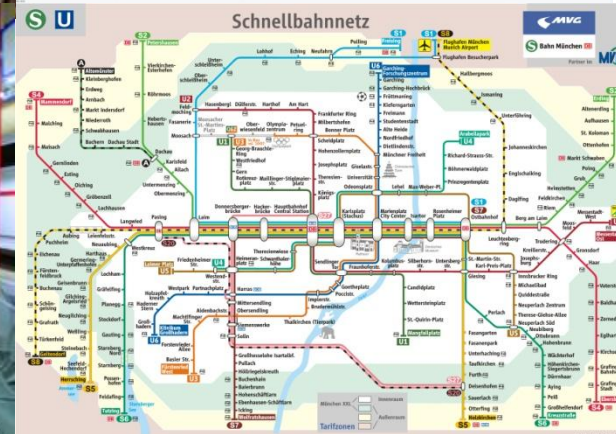
Start: 28. May1972



One network, one timetable, one ticket



1 Netz. 1 Fahrplan. 1 Ticket.



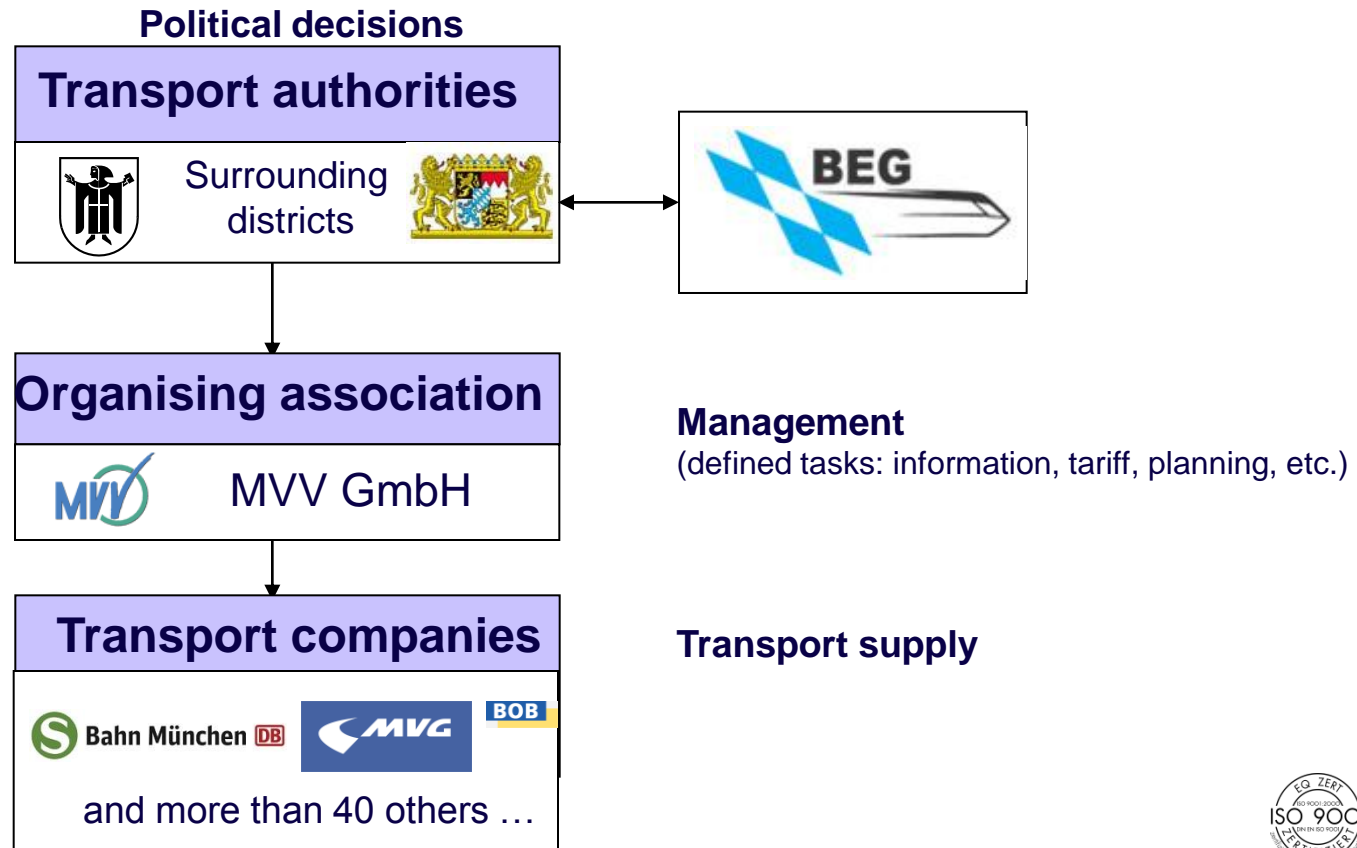
**area:** 5500 km<sup>2</sup>, city of Munich, 8 surrounding rural districts with 175 municipalities

**population:** 2.8 million inhabitants  
(1.4 million in the city of Munich)

**passengers: 633 million in 2010**

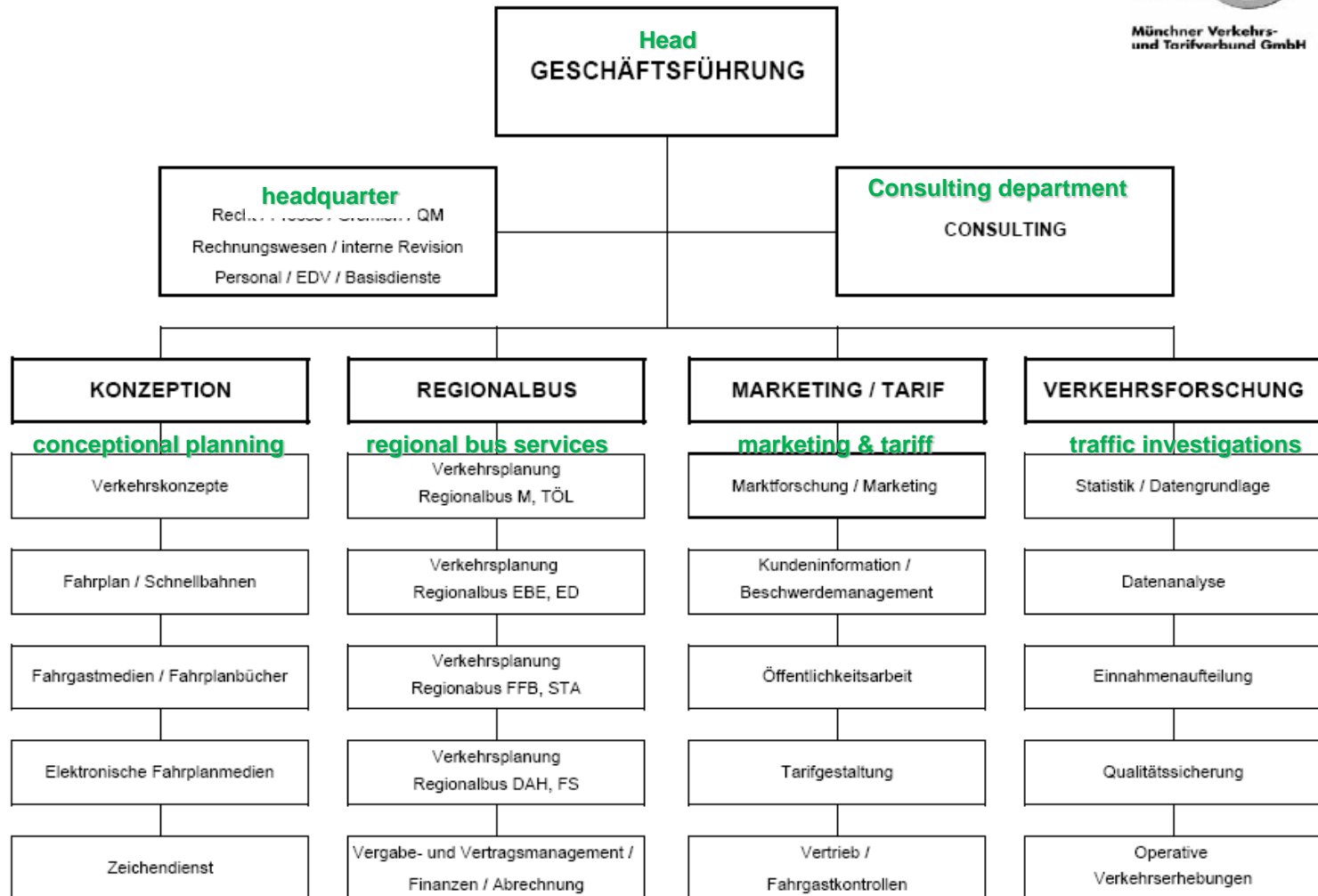


## Organisation – model of MVV





## Organisation: Structure and responsibilities of MVV

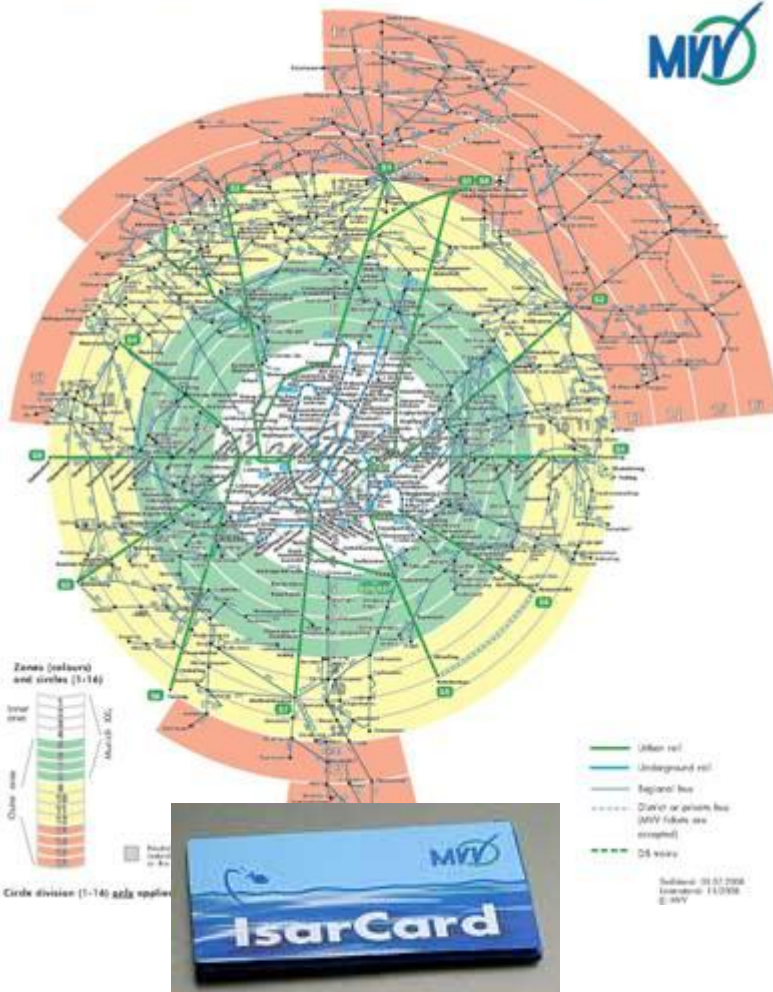


## 1 Tariff management

- development of the tariff system
- creating new tickets
- passenger information about tickets and prices

Total area

Tariff map




## 2 Planning of regional buslines for eight counties including 174 municipalities

- Continous enlargement of bus services
- Planning of timetables
- Development and installation of standards of quality
- Coordination between counties and municipalities
- Tendering of bus services



BUS 440		Glenn - Grafing Bahnhof - Grafing Stadt		MVV																																																																																																																																																																																
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Linie	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174						



## 3 Passenger information

- print-media (timetable books, ...)
- electronic timetable (EFA)
- information by telephone (EFA by voice)
- mobile services for on-trip information (MVV Companion)
  - intermodal information („door-to-door“)
  - Information for people with reduced mobility
  - all routes on maps
  - in average more than 400,000 queries per day.





**Damit Atmen nicht auf die Nüsse geht.  
Einfach MVV fahren.**

**Klimaschutz ist unser Antrieb.**

S-Bahn | U-Bahn | Bus | Tram  
www.mvv-muenchen.de

## 4 Marketing and market research

- system marketing beside individual marketing of the transport companies
- market research about needs, wishes and problems of the passengers

**Daten Analyse Perspektiven**  
Rund 10  
Die Schichten des Münchner Verkehrs und Verkehrs

**Der Öffentliche Personennahverkehr und sein Markt im Großraum München:  
Mobilitätsverhalten, Marktanteile und -potenziale**

**Daten Analyse Perspektiven**  
Rund 9  
Die Schichten des Münchner Verkehrs und Verkehrs

**MVV und Car-Sharing  
Erfolge einer Kooperation**  
Ergebnisse einer Wiederholungbefragung

**Daten Analysen Perspektiven**  
Rund 8  
Die Schichten des Münchner Verkehrs und Verkehrs

**Die Entwicklung der Kundenzufriedenheit im MVV von 1996 bis 2003**  
MVV-Kundenzufriedenheits-Untersuchungen im langfristigen Vergleich

**1 Aufgabenstellung / Die Plakate im Test**

**A Maus**

Damit Atmen keinen Meter macht.  
Einfach MVV fahren.

Klimaschutz ist unser Antrieb. S-Bahn | U-Bahn | Bus | Tram

**B Eichhörnchen**

Damit Atmen nicht auf die Nüsse geht.  
Einfach MVV fahren.

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**C Reh**

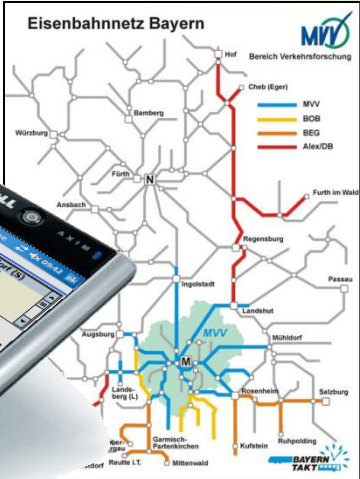
Damit Atmen wieder Bock macht.  
Einfach MVV fahren.

Klimaschutz ist unser Antrieb. S-Bahn | U-Bahn | Bus | Tram

**D Igel**

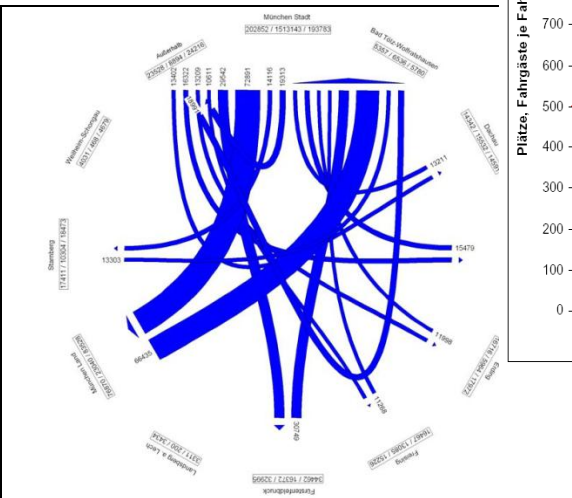
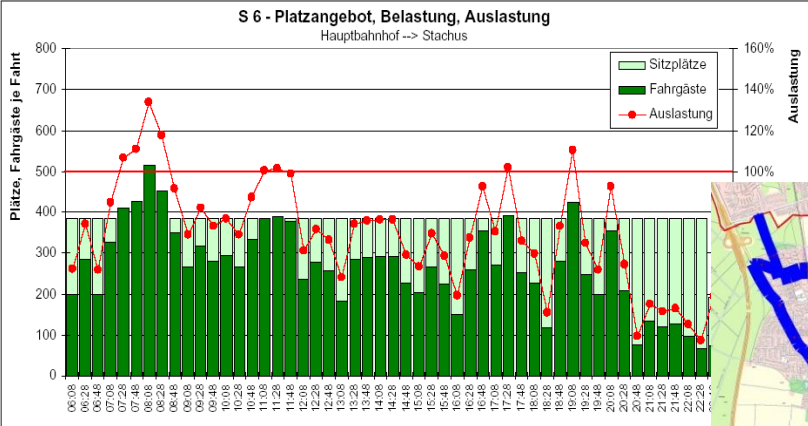
Damit Atmen nicht in der Länge pinkst.  
Einfach MVV fahren.

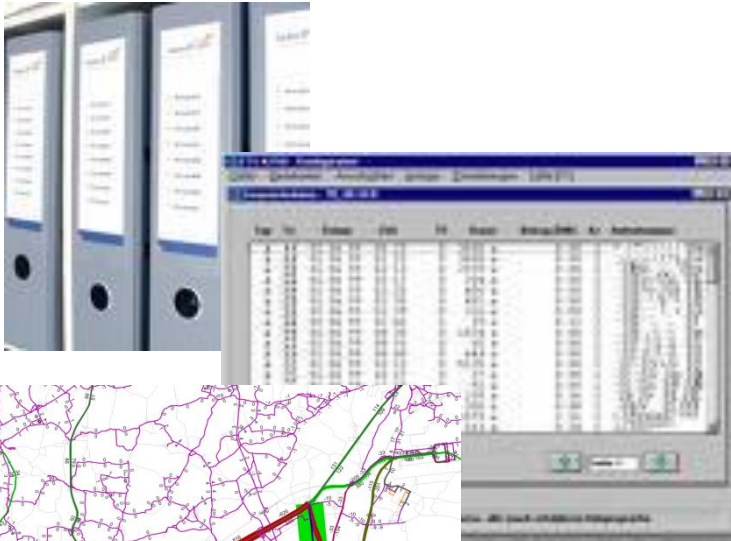
Klimaschutz ist unser Antrieb. S-Bahn | U-Bahn | Bus | Tram



## 5 Traffic census (research and investigations)

- Passenger countings & interviews
- Continuous counting in all transport facilities
- Passenger interviews
- Allocation of costs and proceeds of fares

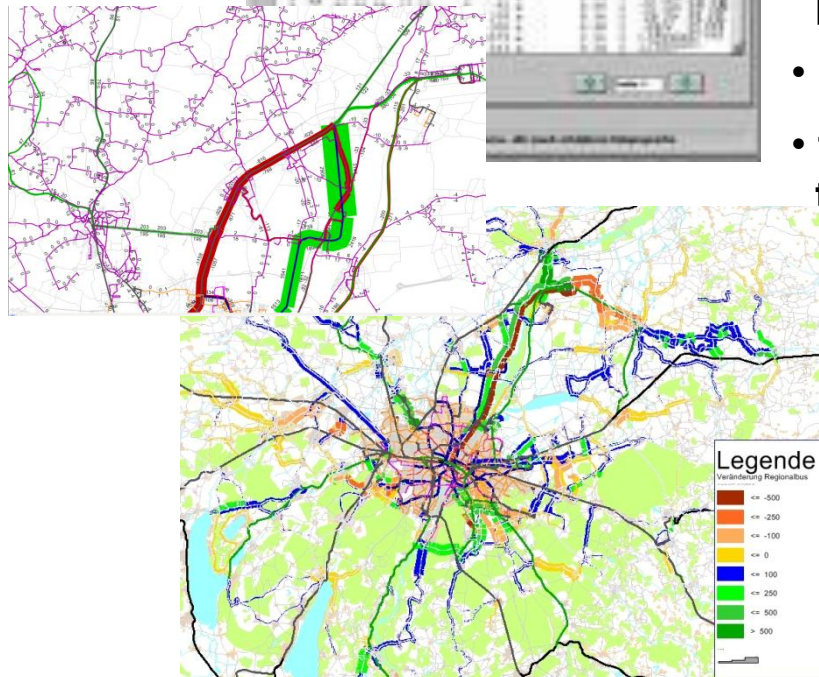




## 6 Data base („MVV-data-base“)

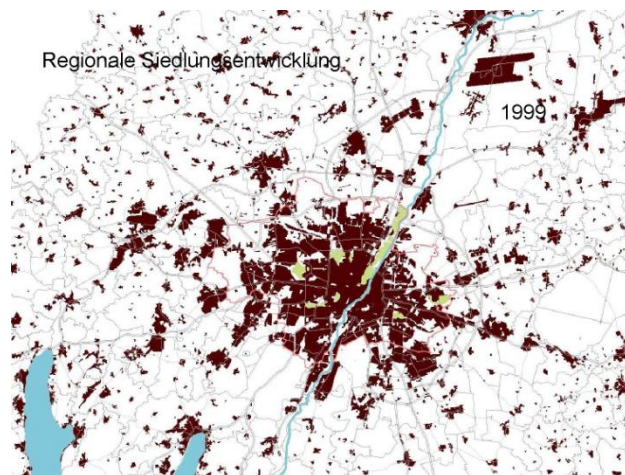
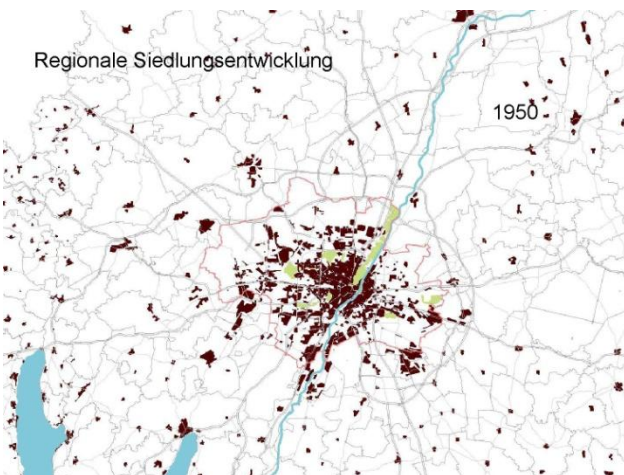
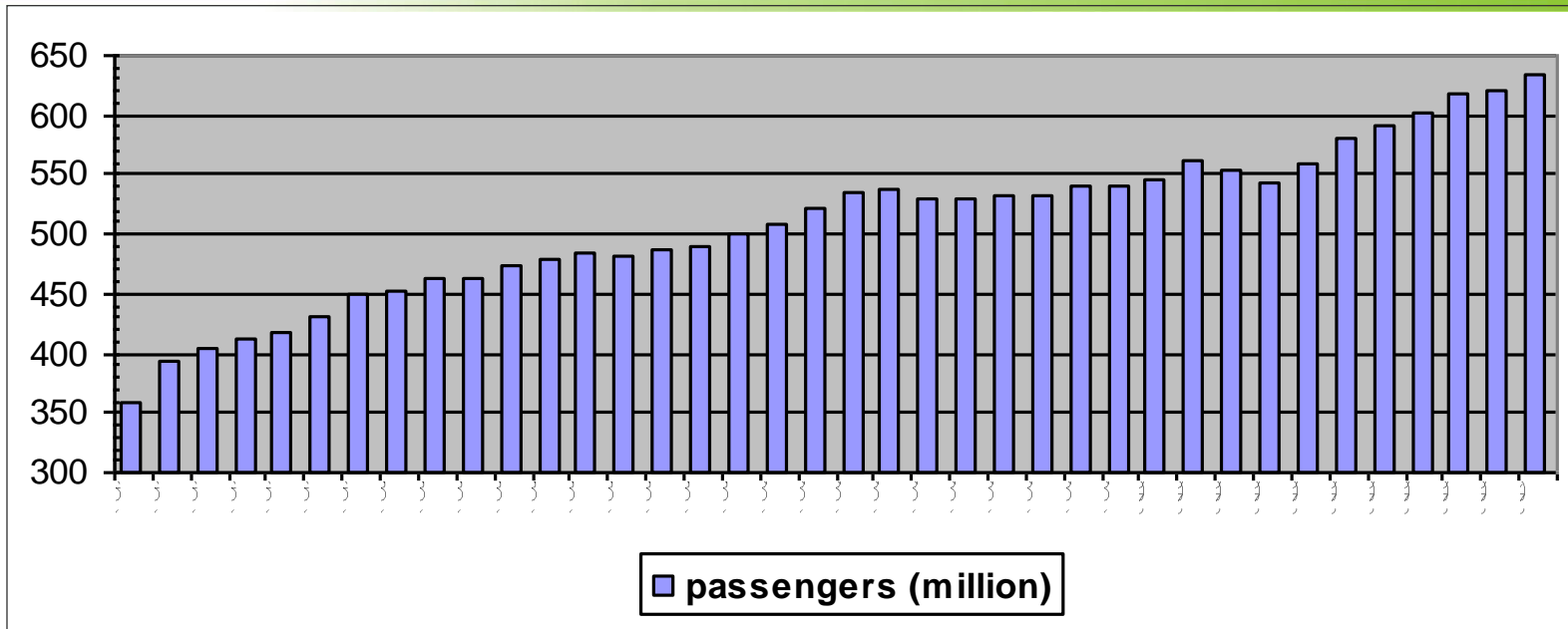
- for traffic engineering in the whole area and
- traffic modelling / forecasts

- installation of a data base with numbers of inhabitants and working spaces, numbers of passengers
- prognosis for next 15 years (actual prognosis 2020)
- for infrastructure planning inside Munich (subway, tram) and the region (stations, ...)

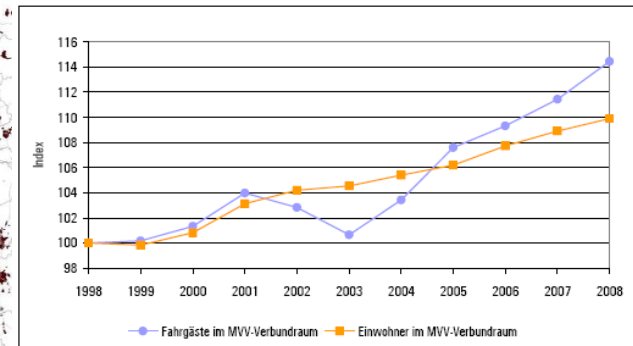




# Passenger development 1973-2010



Region München  
Entwicklung des Fahrgastaufkommens und der Bevölkerung im MVV-Verbindraum



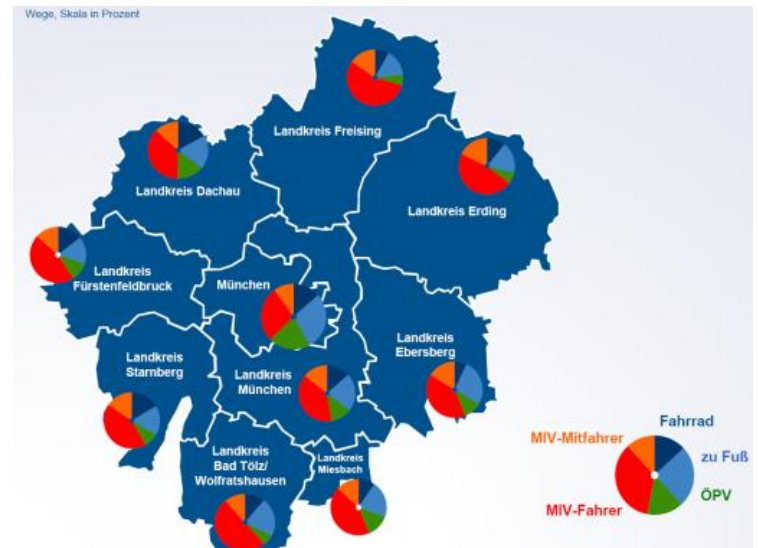
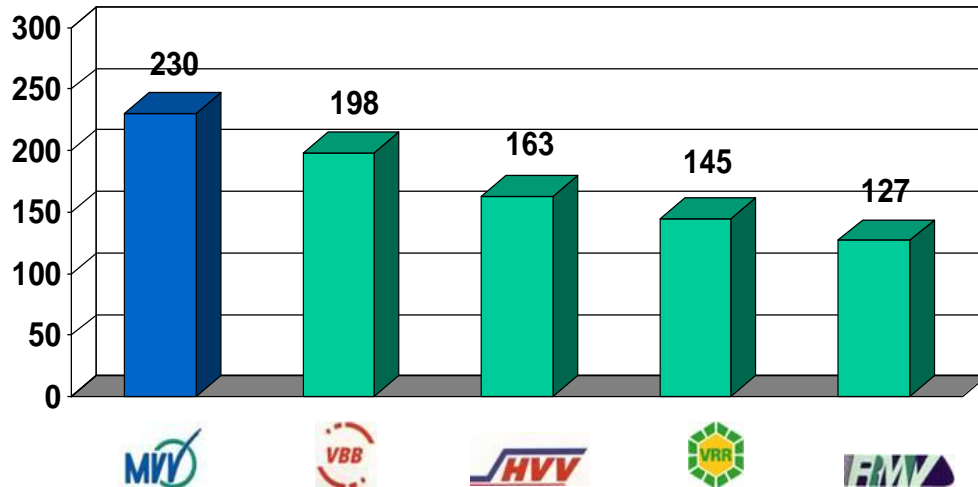


# Modal Split

public transport : motorized traffic

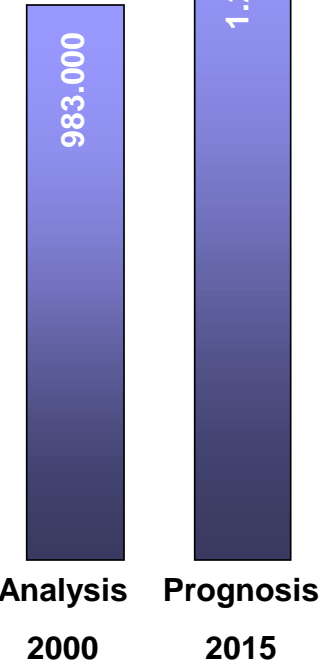


<b>MVV region total</b>	<b>30:70</b>
<b>Munich city</b>	<b>50:50</b>
<b>Munich Inner city</b>	<b>80:20</b>



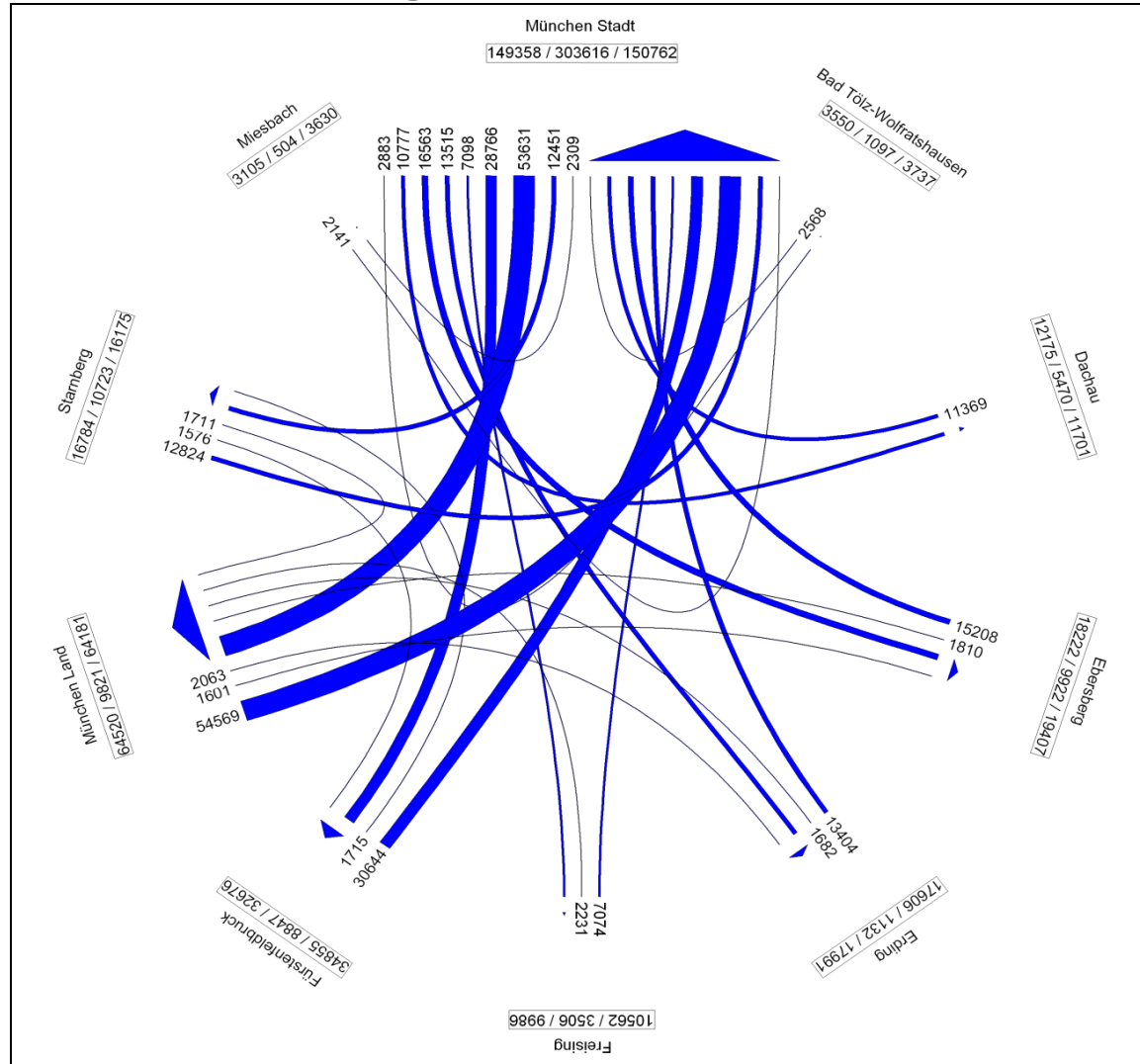
# Traffic between Munich and its region

## private vehicle traffic




Increase of traffic in the surrounding area:  
Prognosis +18 %

# Traffic between Munich and its region S-Bahn





## Passengers

Passengers in 1973:	358 Mio.
Passengers in 2010:	633 Mio.
Passengers per day (2010):	about 2 Mio.
- suburban railways:	about 800.000
- underground:	about 1 Mio.
Fares (2010):	659 Mio. €
Fares per passenger:	about 1 €
Average of journey distance:	10,13 km
Transport volume (2010):	6.280,368 Mio.
Stations/stops 	about 4.200
Trips by public transport per habitant (year):	230





# The „S-Bahn“ / rapid transit system



## S S-Bahn



**8 lines**  
**network: 443 km**  
**trains: 238**

## U underground



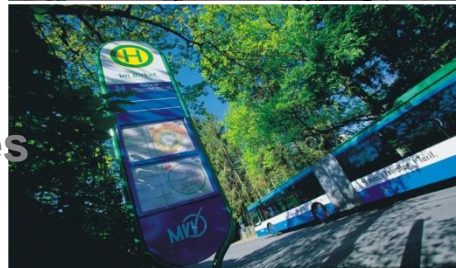
6 lines  
network: 98 km  
trains: 580 (short trains)

## Tram tramway



10 Linien  
Streckenlänge: 79 km  
Fahrzeuganzahl: ca. 99

## BUS city buslines / regional buslines

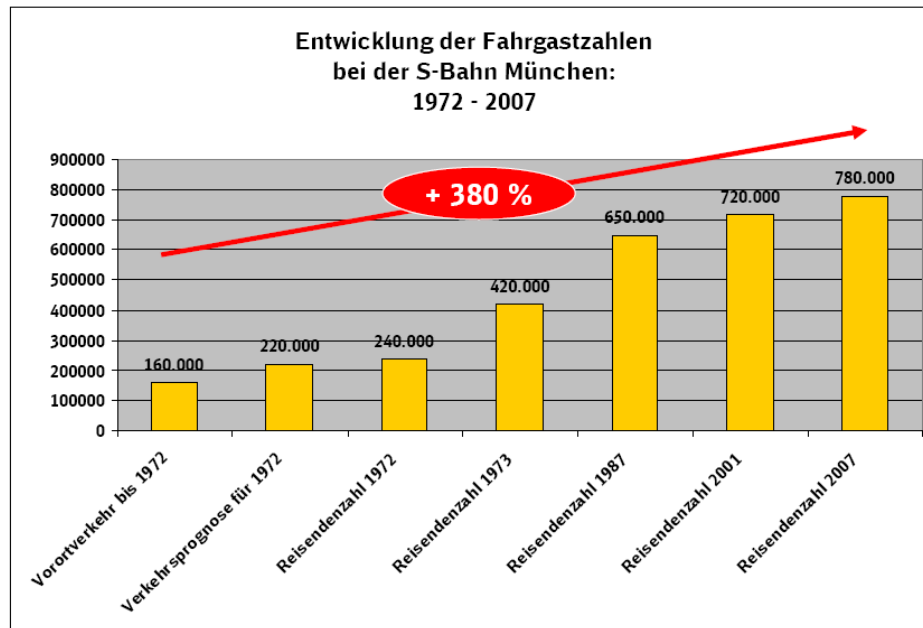


76 Linien Stadtbus / 223 Linien Regionalbus  
Linienlänge: 456km Stadtbus  
4075 km Regionalbus  
Fahrzeuganzahl: 410 Stadtbus  
500 Regionalbus



## development passenger S-Bahn

1972 - 2007



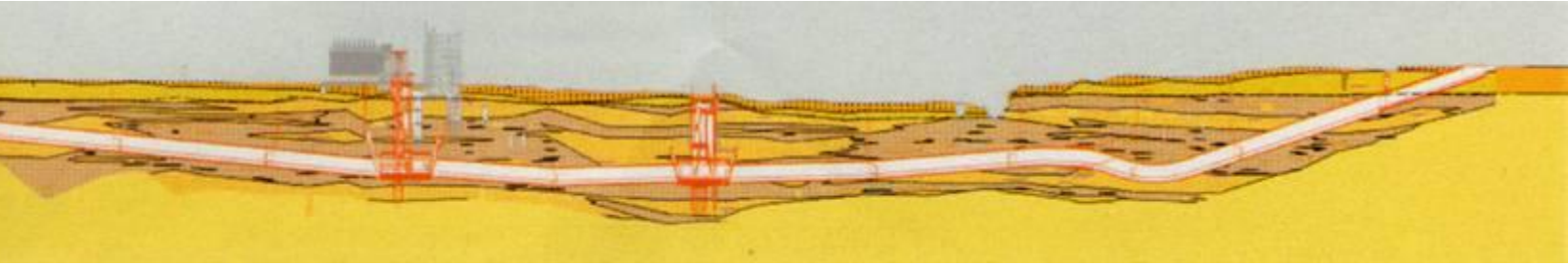
Quellen: Pospischil, MVV

6





# second S-Bahn tunnel



## Limit of capacity of existing tunnel is reached

- 700.000 passengers a day
- 30 trains every hour and direction in rush hour
- no opportunity to increase the capacity

## Transfer of delays

- Trains in 2 minute-intervals → incidents cause network-wide transfer of delays
- In case of incidents today the way into the city is very restricted

## Construction of second tunnel

- Actual: negotiations about financing
- start in 2012 – opening in 2019





S-Bahn



8 lines

network: 443 km

trains: 238

underground



**6 lines**

**network: 98 km**

**trains: 580 (short trains)**

tramway

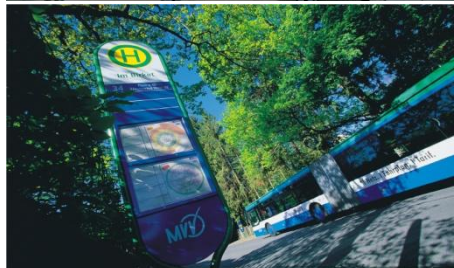


10 Linien

Streckenlänge: 71 km

Fahrzeuganzahl: ca. 99

city buslines /  
regional buslines



76 Linien Stadtbus / 188 Linien Regionalbus

Linienlänge: 555 km Stadtbus

4288 km Regionalbus

Fahrzeuganzahl: 384 Stadtbus

436 Regionalbus





# Munich's tram system



**S-Bahn**



8 lines  
network: 443 km  
trains: 238

**underground**



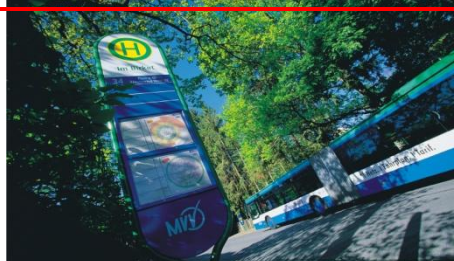
6 lines  
network: 98 km  
trains: 580

**tramway**



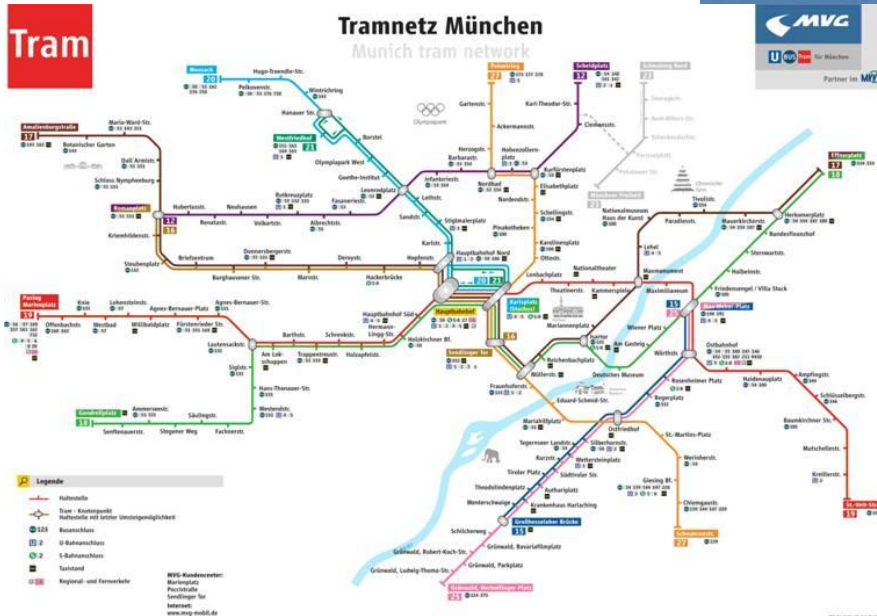
10 lines  
network: 71 km  
trains: ca. 99

**city buslines /  
regional buslines**



76 lines Stadtbus / 188 lines Regionalbus  
Network: 555 km Stadtbus  
4288 km Regionalbus  
Number of vehicles: 384 Stadtbus  
436 Regionalbus





- Service since 125 years
- New rolling stock material
- Acceleration of all lines



New equal standards for

- buses and
- bus-stops



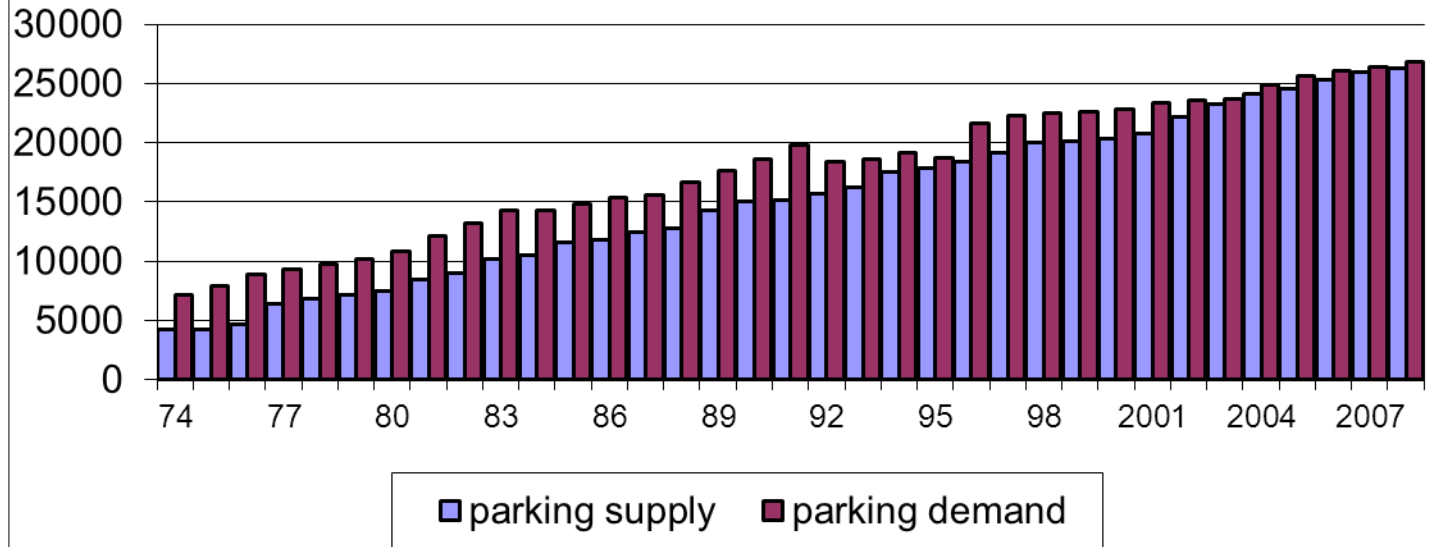


- First Hybridbus for regional traffic-relations in Germany





## Park and Ride facilities: supply and demand



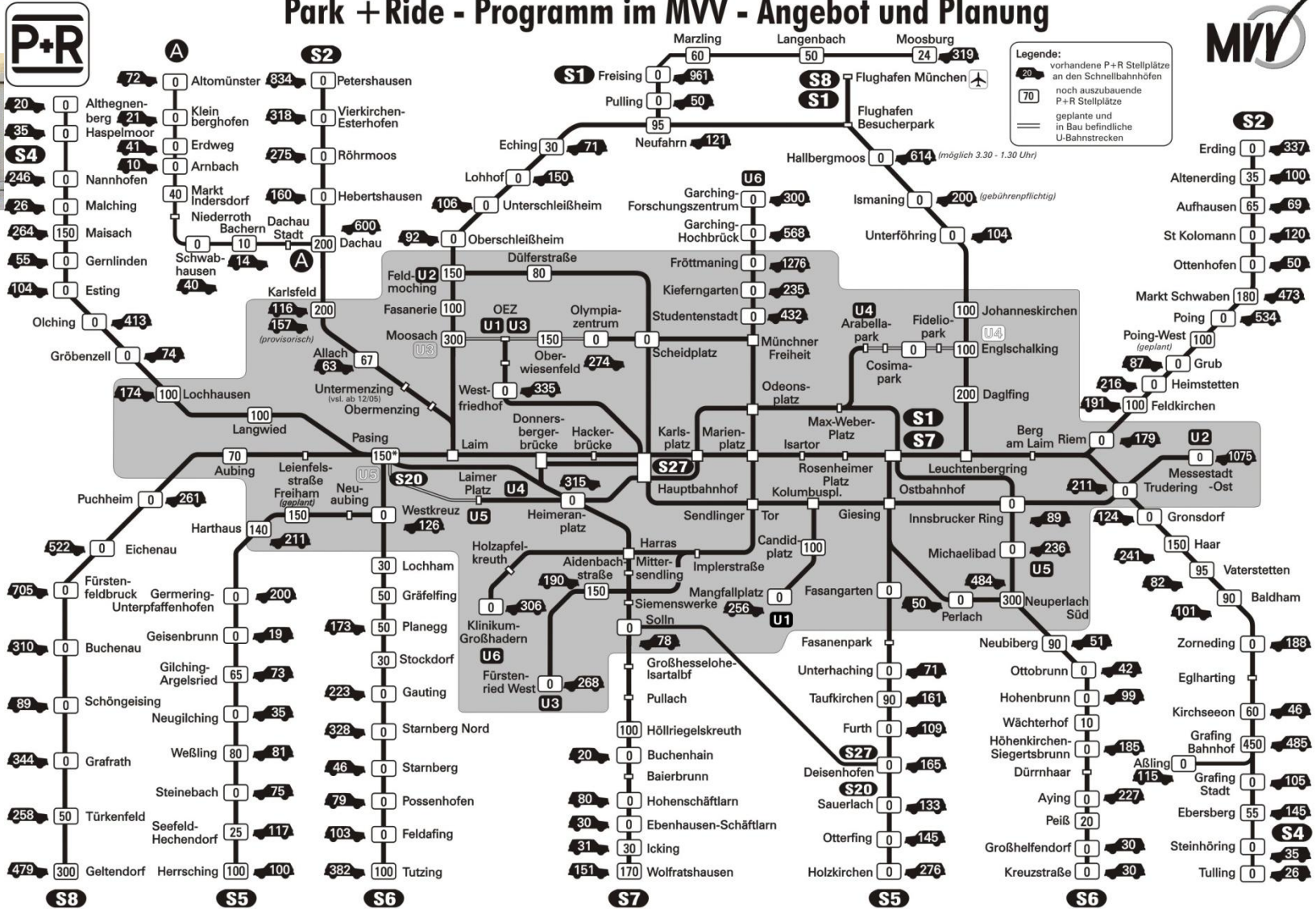




# Park and Ride



## Park + Ride - Programm im MVV - Angebot und Planung

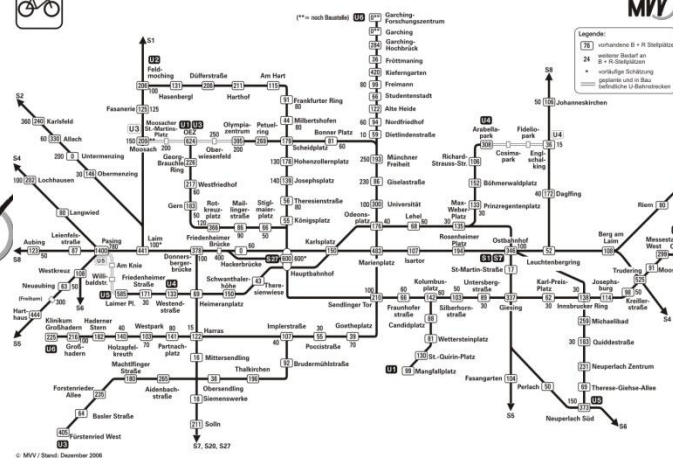




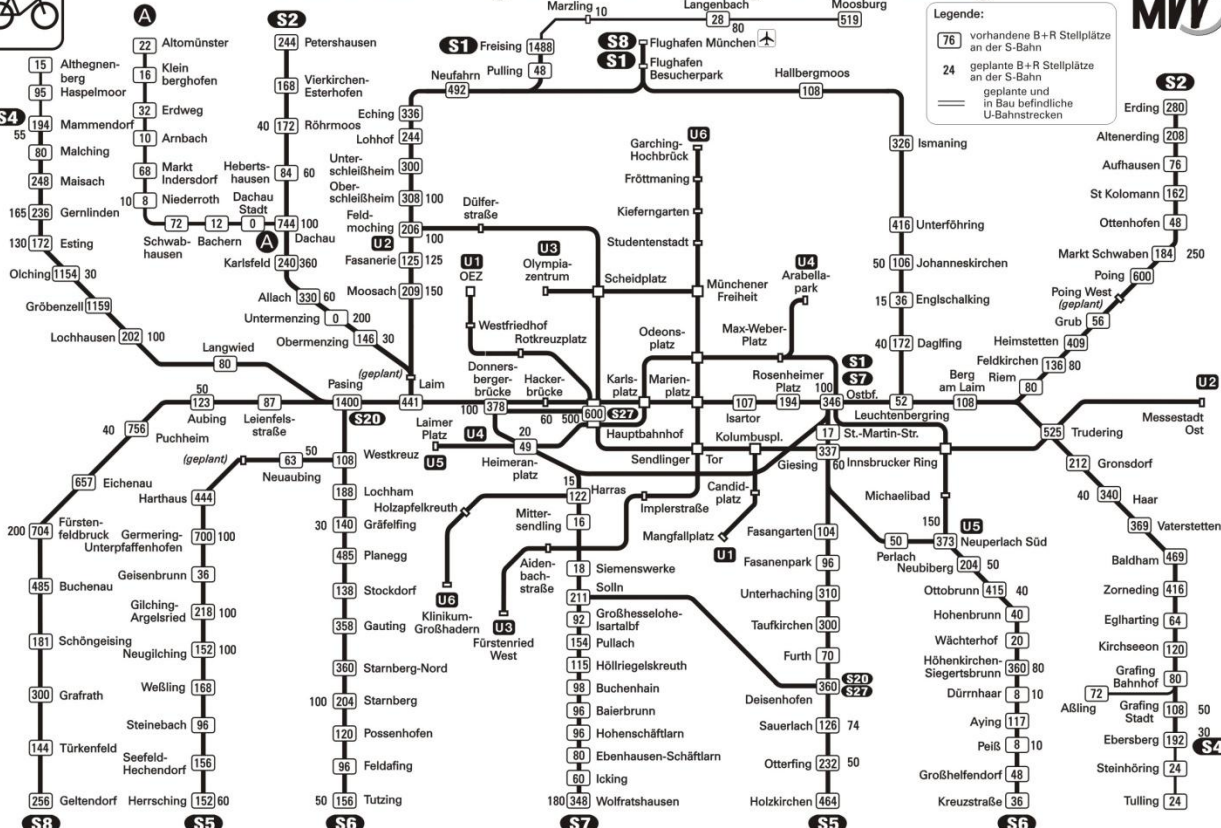
# Bike and Ride



## Bike & Ride - Programm U- / S-Bahn Stadtgebiet Angebot und weiterer Bedarf



## Bike & Ride - Programm S-Bahn - Angebot und Planung





# Passenger information



Abfahrt Departure

Linie	Zeit	Nach	Gleis	Aktuelles
S7	08:19	Aying	1	pünktlich
S6	08:21	Erding	1	pünktlich
S1	08:24	München Ost	1	pünktlich
S1	08:24	München Ost	1	pünktlich
S5	08:27	Ebersberg (OBB)	1	pünktlich
S4	08:29	München Ost	1	pünktlich
S8	08:31	München Ost	1	pünktlich
S2	08:34	Hof...	1	pünktlich

Abfahrt Departure

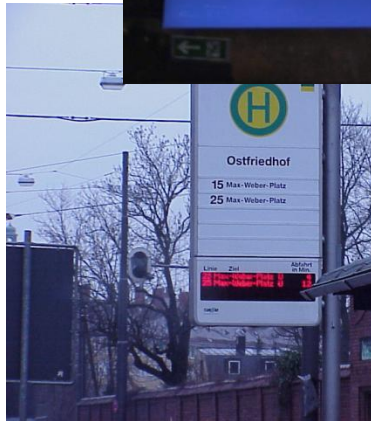
S6	Erding	3 Min
Ostbf. - Markt Schwaben		
40 Min-Takt zwischen Aying und Kreuzstraß		

MVG

Linie	Ziel	Abfahrt in Min.
U3	Olympia-Einkaufszentrum	1
U6	Harras	2
U6	Klinikum Großhadern	5
U6	Garching-Forschungszentrum	7
U3	Fürstenried West	8
U3	Olympia-Einkaufszentrum	
U6	Harras	
U6	Klinikum Großhadern	

MVG

Garching-Hochbrück	
Garching, Gewerbegebiet	
Garching, Gewerbegebiet	U
Garching, Voithstraße	S U
Carl-von-Linde-Str.	H
Linie: 294	Wagen hält 09:53
Nachrichten +++ Wetter +++ Sport	



- 38 dynamic time table information systems at the rapid transit system
- About 108 dynamic time table information systems at the tramway and bus system



> Text version

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Home >> Timetable >>

Timetable Tickets MVV network Service The MVV

> Journey planner

Stop timetable

Departure board

Timetable book

Mobile services

## Journey planner

Fahrplanauskunft (EFA)

Fahrt

Abfahrtszeit: 13 09 Uhr Datum (TT/MM) 17 10

Ankunftszeit:

Start

Haltestelle  wichtiger Punkt  beliebige Eingabe

Alternative Suche:  im Netzplan  per Karteneingabe

Ziel

Haltestelle  wichtiger Punkt  beliebige Eingabe

Alternative Suche:  im Netzplan  per Karteneingabe

Weitere Einstellungen

Neues Formular Anfordern

Bahn München MVG und über 40 weitere Partner im MVV

- EFA produces up to 400.000 different electronic time table information units per day



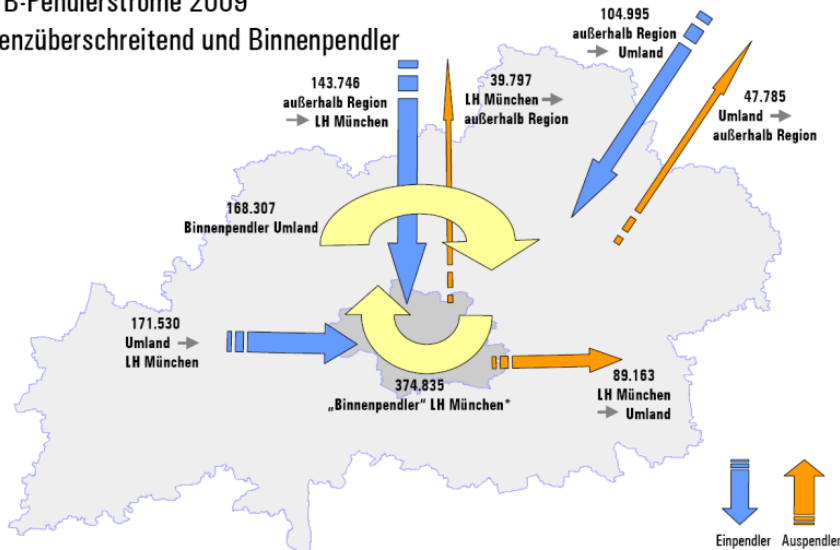
Just download  
our flyer ...

### Region München

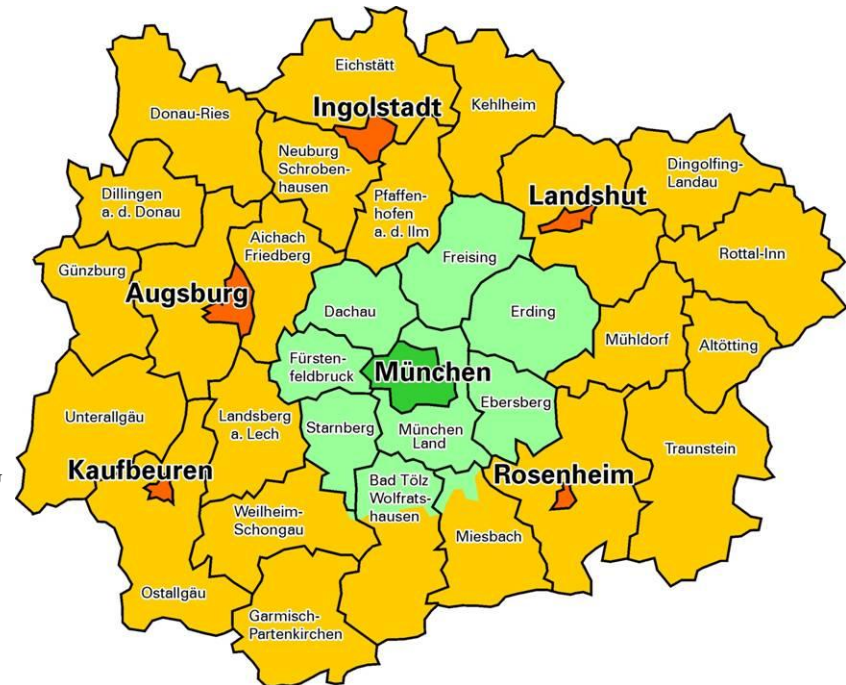
#### SVB-Pendlerströme 2009

#### Grenzüberschreitend und Binnenpendler

Anlage zu 3.1



\* am Wohnort arbeitende SV-Beschäftigte  
Quelle: Arbeitsagentur Nürnberg und eigene Berechnungen



PV Planungsverband Außerer Wirtschaftsraum München 10/2010





264



Thank you for your attention!

CITARO



Mercedes-Benz



1 Netz. 1 Fahypass. 1 Tarif.

Vielen Dank für Ihre  
Aufmerksamkeit

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