

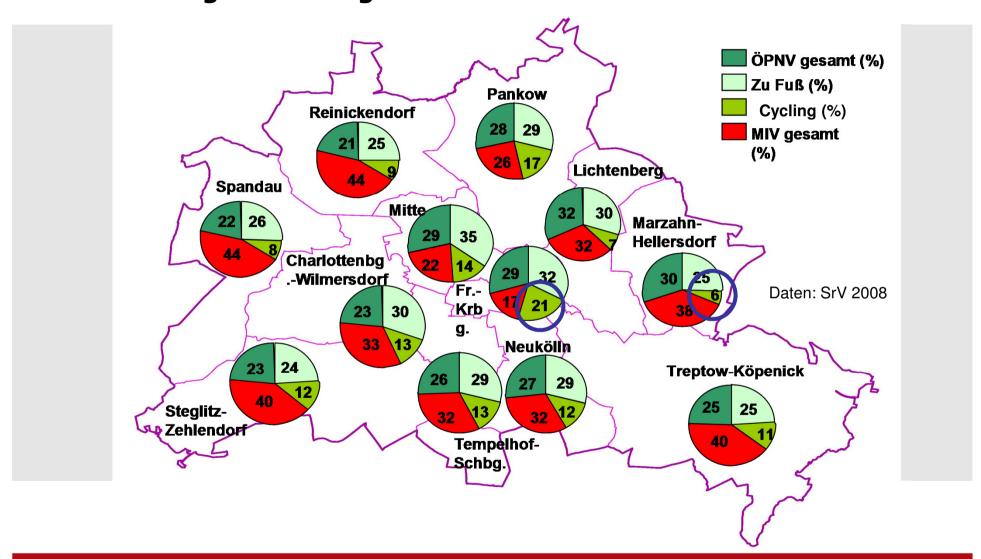
# Guidelines for the implementation of measures to avoid accidents between turning vehicles and cyclists

(special focus on light and heavy duty vehicles)

Dr. Julius Menge,
Berlin's Senate Department for Urban Development and the Environment
Principle Affairs of Transport Policy, Commercial Transport

# Mobility in Berlin today: less car use, increasing bicycle use but different from borough to borough



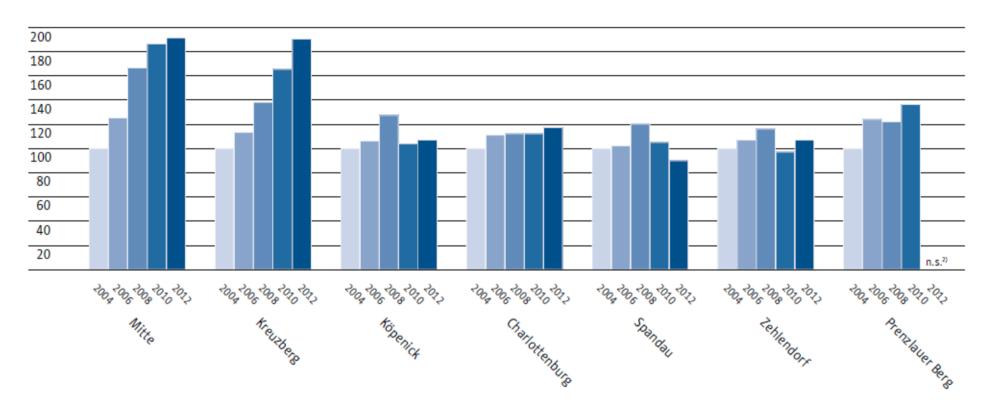




### **Development of the recent years**

### Bicycle traffic at selected counting points 1)

Relative change in per cent (2004 = 100%)



### Senatsverwaltung für Stadtentwicklung und Umwelt

# Berlin's Cycle Strategy 2013: Aims and guiding principles

- Increase in cycling's share of the overall number of journeys (today approx. 1.5 million journeys, increase of another 0.6 to 0.9 million journeys, therefore increase by 3-4% annually)
- Transferring longer journeys to the bicycle
   (average length of a journey by bicycle in Berlin is 3.7 km)
- Combining the bicycle with public transport
- Reducing accident figures
   (between 2008 and 2010 20,910 accidents involving cyclists
   were registered, 26 cyclists were killed and 14,390 were
   injured, 1,548 of whom seriously)
- Appropriate financing (€5 per capita per year)
- Completion of the cycle route network







# **Challange: Increasing number of accidents with cyclists**

#### **Situation 2012**

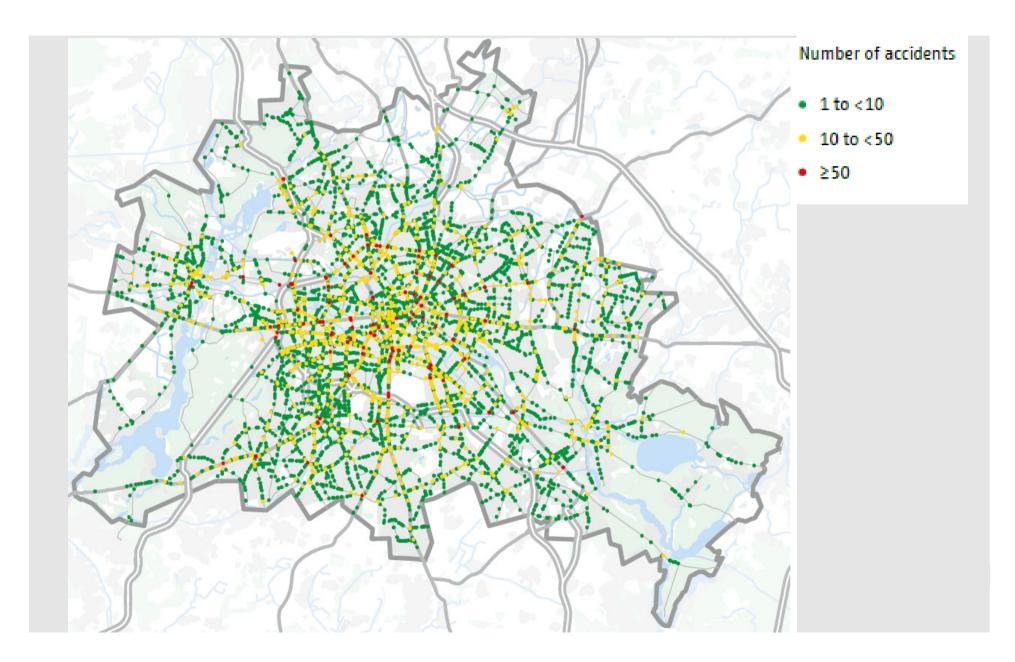
- 42 people died in traffic
- every 31 minutes a critical event
- every 2 hours a cyclist gets injured ...
- every 4 hours pedestrian gets injured ...
- Uneven risk to get injured for pedestrians an cyclists
  - → Turning of vehicles is the major cause for accidents!







# Traffic accidents on the major road network at intersections (2012)



## Senatsverwaltung für Stadtentwicklung und Umwelt

# Our Project: Focus on "What can local authorities do?"

- Background: Lots of information available, but usability and transferability for authorities is limited
- Development of guidelines for the implementation of measures to avoid accidents between turning vehicles and cyclists for political actors and planning authorities
- Guidelines addressing daily questions of authorities to identify and priorities effective and locally appropriate measures incl. ...
  - Assessment of measures concerning for example costs, time and working hours needed for planning and realization, effect on traffic safety
  - Priorisation







### **Approach**



4 WP's:

 WP1: Collection of existing measures in Germany, Europe and beyond

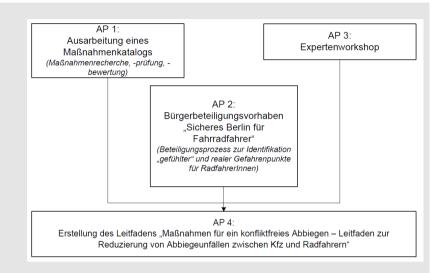
WP2: Public consultation

WP3: Workshop

WP4: Guidelines

Duration: about 9 month

March 2014 results will (hopefully) be presented



# WP 1: Collection of existing measures in Germany, Europe and beyond



- Research about measures realised in Germany
- Research about measures realised in Europa (for example supported by TfL, POLIS, City of Copenhagen, Barcelona, ...)
- Research about measures realised in North-America

Result: About 70 different approaches and examples as input for the expert workshop



#### **WP 2: Public consultation**

## Online-Dialog zur Radsicherheit in Berlin



**Abbiegen? Achtung!**Sicher über die Kreuzung



www.radsicherheit.berlin.de



#### Citizens have the chance to ...

- Take part in a 4 week dialog (12.11. -10.12.2013)
- Give the individual feedback on critical spots / locations / junctions
- Give comments on other ideas or support them
- Get information about cycling in Berlin

#### Result:

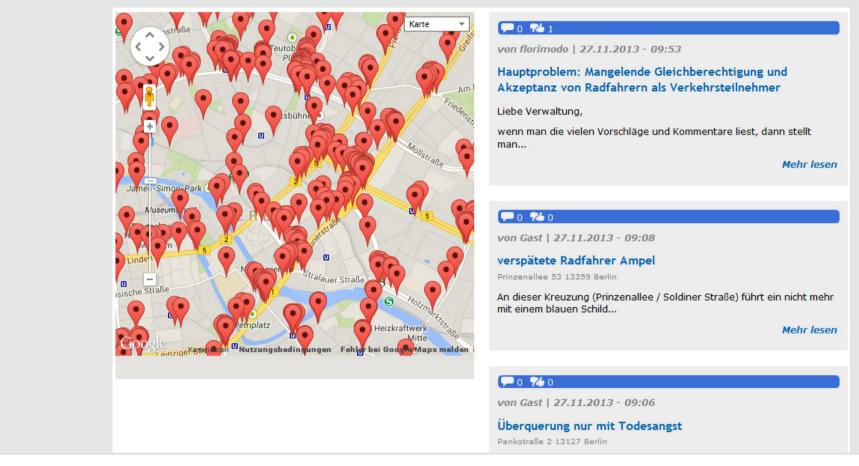
- 35.000 visitors
- 332.000 page visits
- 4.800 references, often incl. Detailed problem descriptions, partly providing ideas to solve the situation
- 3.700 additions to the references,



radsicherheit.berlin.de

But: Clear statement that measures will still be focussed on objective critical spots!

#### How did it look...



Gefördert durch: 🧥



Bundesministerium für Verkehr, Bau und Stadtentwicklung

### Media Reflection (20.11.2013)

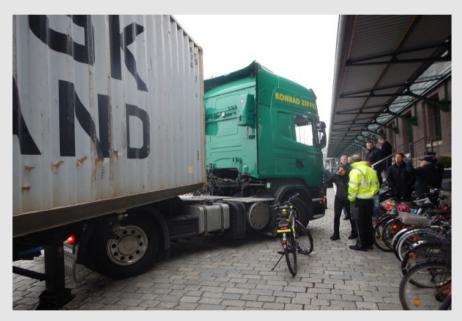


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- http://www.theguardian.com/lifeandstyle/2013/nov/20/how-safe-are-worlds-cities-for-cyclists



### **WP 3: Workshop**

 Discussion of possible measures, critical reflection from different points of view, various stakeholder groups involved including truck business and local companies



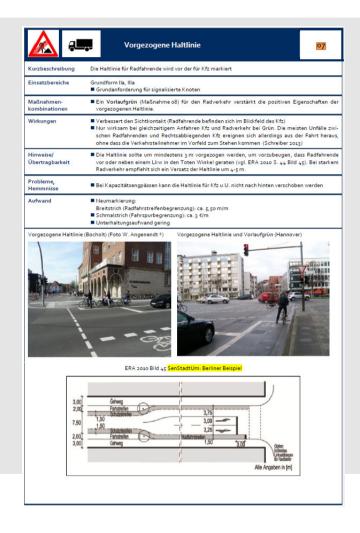


Gefördert durch:

Bundesministerium für Verkehr, Bau und Stadtentwicklung

### **WP 4: Guidelines (work in progress)**

		la	lb	lla	IIb	Illa	IIIb	
	Grundformen  Maßnahmen	Nicht signali- siert Seitenraum	Nicht signali- siert Fahrbahn	Signalisiert kompakt Seitenraum	Signalisiert kompakt Fahrbahn	Signalisiert groß Seitenraum	Signalisiert groß Fahrbahn	Maßnahmen- beschreibung
01	Furtmarkierung; Markierung Radverkehrsführung	•	•	•		•		19
02	Gute Sichtbedingungen	•						17
03	Geringe Furtabsetzung		0		0		0	18
04	Flächige Einfärbung			•	•			19
05	Fahrgeometrische Eckaus- rundungen		0		0		0	20
06	Radwegüberfahrt/ Teilaufpflasterung		0		0		0	
07	Vorgezogene Haltlinie	0	0		•,		•	
08	eigenes Radverkehrssignal mit Vorlaufgrün	0	0		•"		**	
09	Konfliktfreie Phase	0	0		•		•	
10	Fahrradschleuse	0	0	•	0	0	_	
11	Rundumgrün	0	0	0	0	0		
12	Eigene Linksabbiegephase für Kfz	0	0	•	•			
13	Zeitl. Vorlauf/Nachlauf für Kfz-Rechtsabbieger	0	0	0	0	0	0	
14	Aufgeweiteter Radauf- stellstreifen von Radweg	0	0		0		0	
15	Aufgeweiteter Radauf- stellstreifen	0	0			0	_	
16	Übergang Radweg in Rad- fahrstreifen	0	0	•	0		0	
17	Führung des Radverkehrs links vom Rechtsabbiege- streifen	0	0	0	0	0	•	
18	Gemeinsamer. Fahrstreifen für rechtsabb. Kfz und gera- deausfahrenden Radverkehr	0	0	0	0	0	•	
19	Vermeidung/Rückbau freier Rechtsabbieger	0	0	0	0		•	
20	Blinkzeichen als Hinweis auf Radfahrende	0	0				•	
21	Ortsfeste Spiegel	0		-				







### Wrap up

- Working on traffic safety is a process...
  - With lots of involved / interested actors
  - Measures
  - Affected people
- Knowledge is widely existing → implementation needs to be set on the agenda
- Citizens are highly interested in an open discussion
- Vehicle technology is part of the solution, but no substitute to thoughtful behauviour (of all traffic participants)





