

Vision Zero in Cities – Possible Or Not?

Walter Niewöhner, Brussels, 06th December 2017



A Safe World

Content

- Introduction
- DEKRA + DEKRA Accident Research
- Vision Zero in Cities
 - DEKRA Map
 - International Comparison
 - Analysis
- Summary



Railroad
trailers

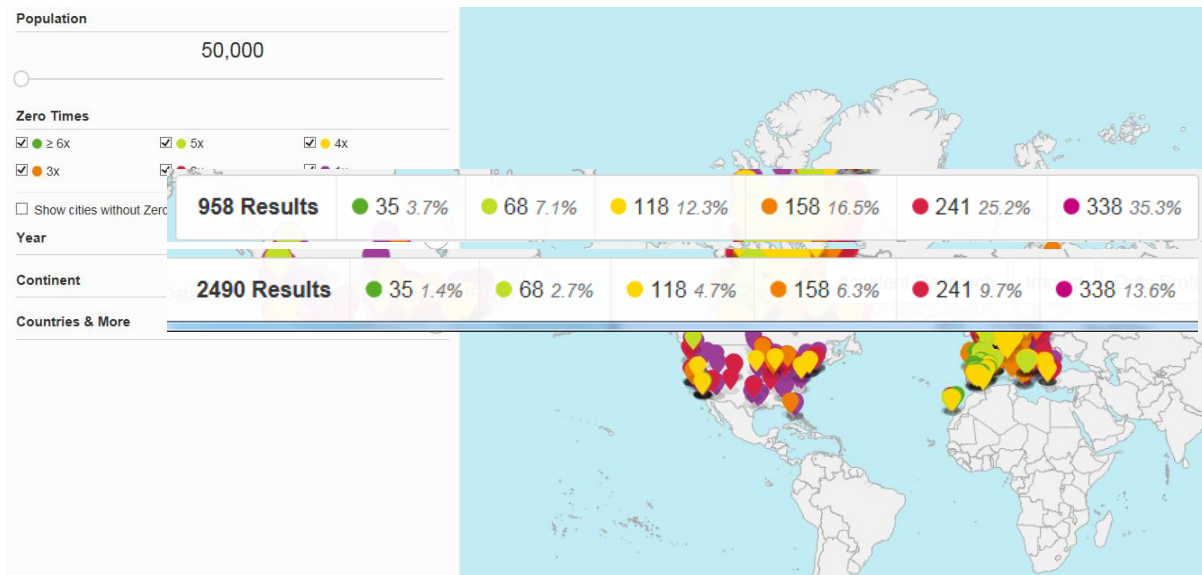
Gravestone

Accident Research

- ...
- Accident database analysis
- Benefit calculation of Advanced Driver Assistance Systems
- Traffic surveys
- ...



Vision Zero Map



Vision Zero

Population

50,000

Zero Times

- ☒ ≥ 6x ☒ 5x ☒ 4x
☒ 3x ☒ 2x ☒ 1x

☐ Show cities without Zero Times

Year

- ☒ 2009 ☒ 2010 ☒ 2011
☒ 2012 ☒ 2013 ☒ 2014
☒ 2015

Continent

- ☒ Asia ☒ Europe
☒ Nord-Amerika

	Total	Europe
Data of cities	2490	1206
ZeFa-Cities	958	745

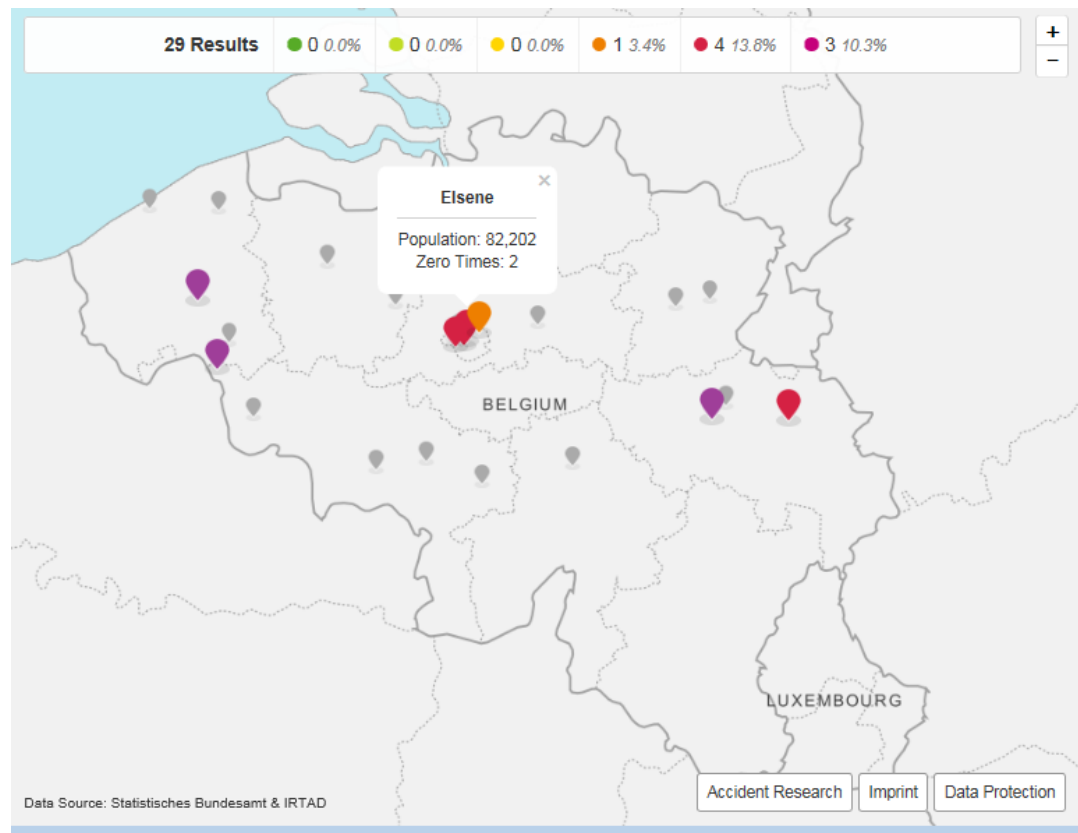
ZeFa - ohne year without road fatality

www.dekra-vision-zero.com



Interactive Vision Zero Map

Example Belgium



City Overview

Country		Number of Cities		Number of ZeFa-Cities	
		> 50,000	> 100,000	> 50,000	> 100,000
Austria	AT	9	5	5	2
Belgium	BE	29	9	8	0
Czech Republik	CZ	22	6	13	2
Finland	FI	20	9	17	6
France	FR	117	39	78	14
Germany	DE	183	80	128	31
Greece	GR	61	12	26	2
Hungary	HU	21	9	6	0
Italy	IT	147	45	71	2
Japan	JP	544	266	51	11
Lithuania	LT	6	4	1	0
Luxembourg	LU	1	1	1	1
Netherlands	NL	73	27	61	16
Norway	NO	11	6	6	3
Poland	PL	86	39	28	4
Serbia	RS	26	14	6	1
Slovenia	SI	2	2	1	0
Spain	ES	145	61	117	35
Sveden	SE	21	7	18	4
Switzerland	CH	10	6	7	3
United Kingdom	UK	216	110	147	48
United States	US	740	294	162	17
		2.490	1.051	958	202

ZeFa – Zero Fatalities
at least one year without road fatalities

Vision Zero Map

Biggest city without road fatality per country

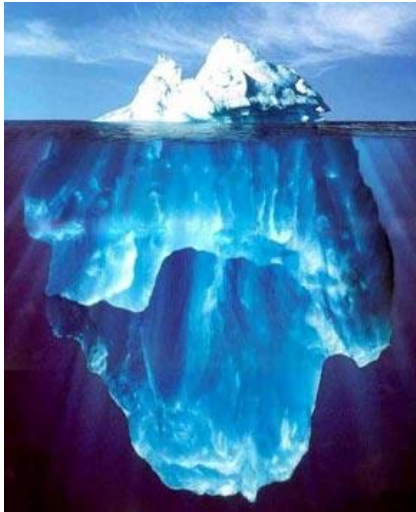


Country		Biggest ZeFa city	inhabitants (2011)
Austria	AT	Salzburg	150.887
Belgium	BE	Elsene	82.202
Czech Republik	CZ	Liberec	101.865
Finland	FI	Espoo	259.383
France	FR	Rennes	206.604
Germany	DE	Aachen	260.454
Greece	GR	Larisa	145.981
Hungary	HU	Szombathely	79.534
Italy	IT	Reggio di Calabria	185.577
Japan	JP	Fuchu	247.126
Lithuania	LT	Alytus	54.437

Country		Biggest ZeFa city	inhabitants (2011)
Luxembourg	LU	Luxembourg	103.641
Netherlands	NL	Almere	193.163
Norway	NO	Stavanger	199.237
Poland	PL	Zielona Góra	117.253
Serbia	RS	Čačak	113.383
Slovenia	SI	Maribor	94.984
Spain	ES	L'Hospitalet de Llobregat	253.782
Sveden	SE	Uppsala	140.454
Switzerland	CH	Lausanne	127.821
United Kingdom	UK	Wandsworth	308.304
United States	US	Alexandria (VA)	148.892

Outlook

- Vision Zero map
DEKRA has the intention to go on with the map with support of IRTAD members
- DEKRA is analysing the data
Why are some cities seemingly better than others?



www.dadalos-d.org

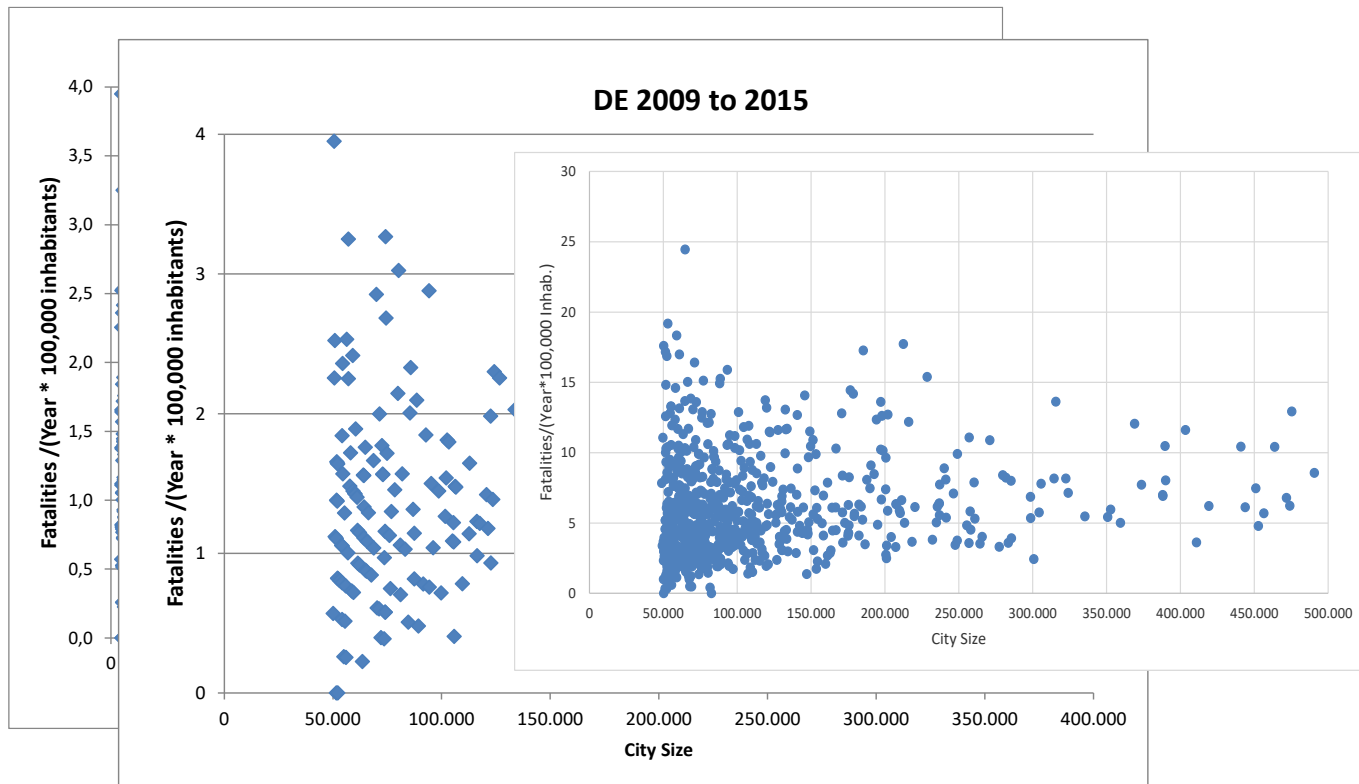
Vision Zero map

Data pool of

- Germany: Fatally + severely injured for each city
- Other countries

Data Analysis of Cities (1)

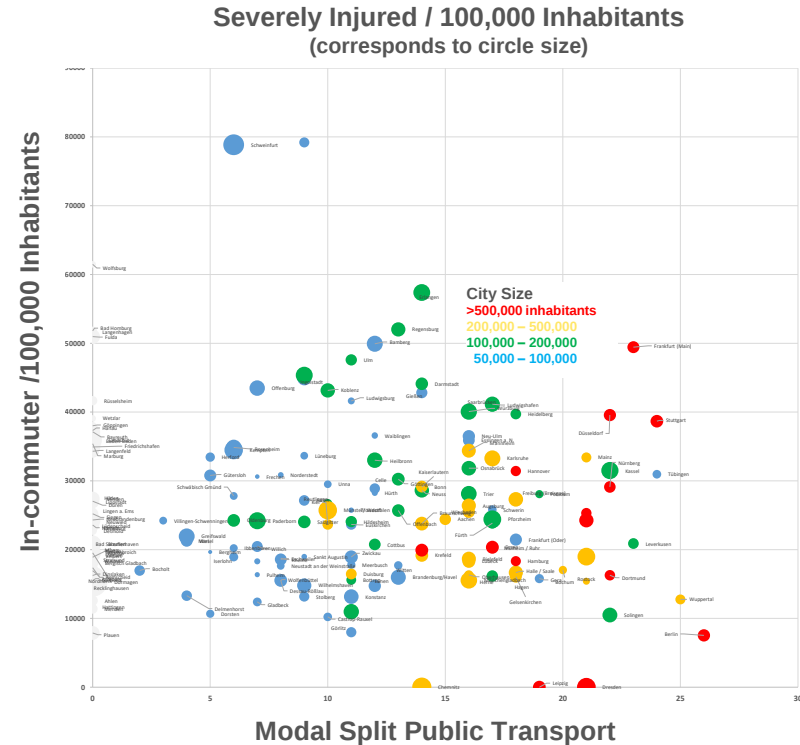
Average Fatalities in the Available Time Period



Data Analysis of Cities (2)

- Analysis of possible factors
City area, traffic area, employees, unemployed, share of retirees, in-commuter, out-commuter, modal split (public transport, pedestrian, bicyclist, vehicle), ...

→ Which factors are influencing how?



Data Analysis of Cities (3)

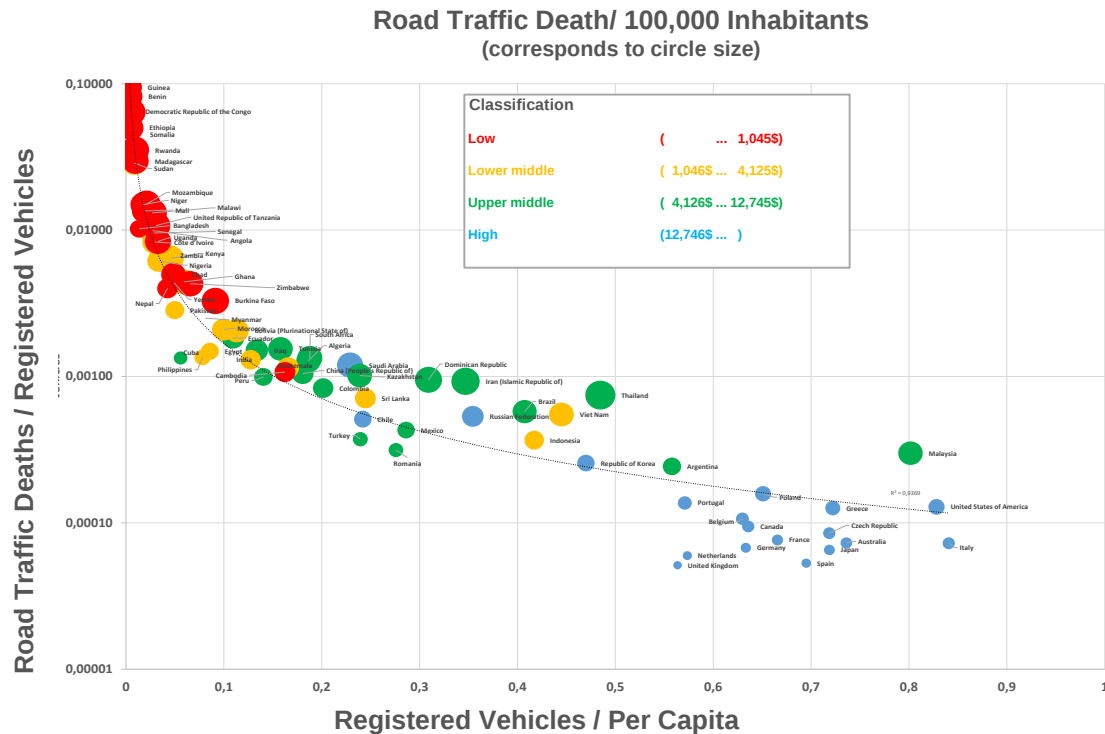
Data of Germany

City Size [in 1,000]	Yearly Average of Severely Injured Road Users / 100,000 Inhabitants											
	<30		30 ... <45		45 ... <60		60 ... 75		75 ...		total	
50 ... <100											101	
											100%	
100 ... <200											41	
200 ... <500											25	
500 ...											14	
total											183	

International Road Safety Status

Country Comparison

- “Vision Zero” in cities is currently related to “high income” countries
- Outside cities are also many fatalities
- A worldwide comparison of the road safety status is showing the dimension in the not “high income” countries



Data source: WHO report
only countries >10,000,000 inh.

Summary

- Vision Zero is no fiction
It is already becoming reality (at least regarding the fatalities) in some cities
- Now there is a possibility to show „save“ areas instead of statistics regarding fatalities
- Positive way to demonstrate „Road Safety“
Shove of motivation: „It should also be possible in our city.“
- Detailed analysis is ongoing

Thank you

Merci

Vielen Dank



Mission
Safety

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