



Road Safety in Urban Environments

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Road Safety Economics

AUSTRIAN ROAD SAFETY BOARD

Cracow, September 21-22, 2005



Topics:

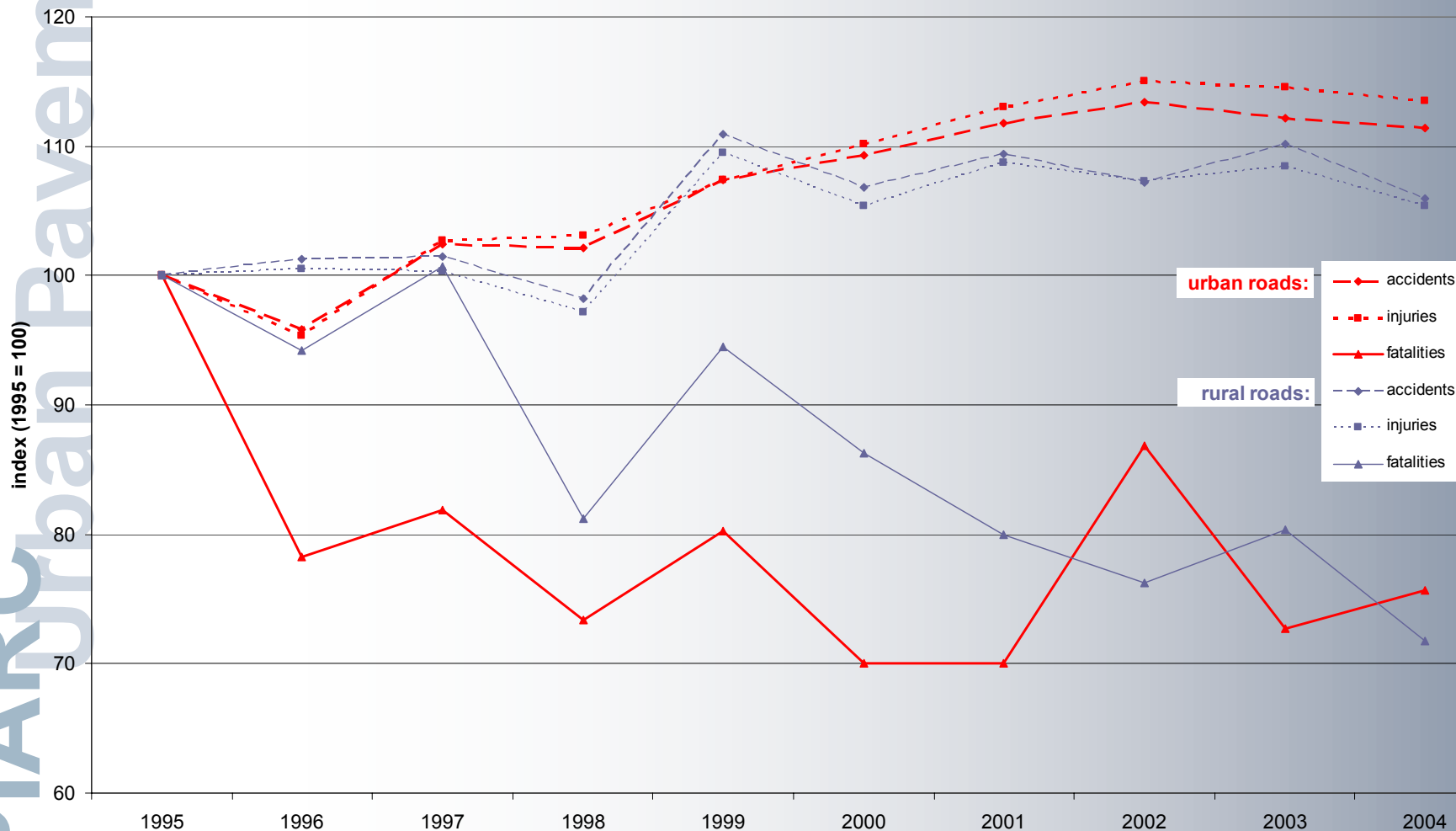
- ▶ **Accidents on Urban Roads - Development 1995-2004**
- ▶ **Differences in Road Safety Characteristics – Urban and Rural Roads**
- ▶ **Road Safety in Austrian Towns**
- ▶ **Road Safety Findings from selected European Towns (DUMAS-project)**

Accidents on Urban Roads - Development 1995-2004



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Injury Accidents on Urban and Rural Roads in Austria 1995-2004





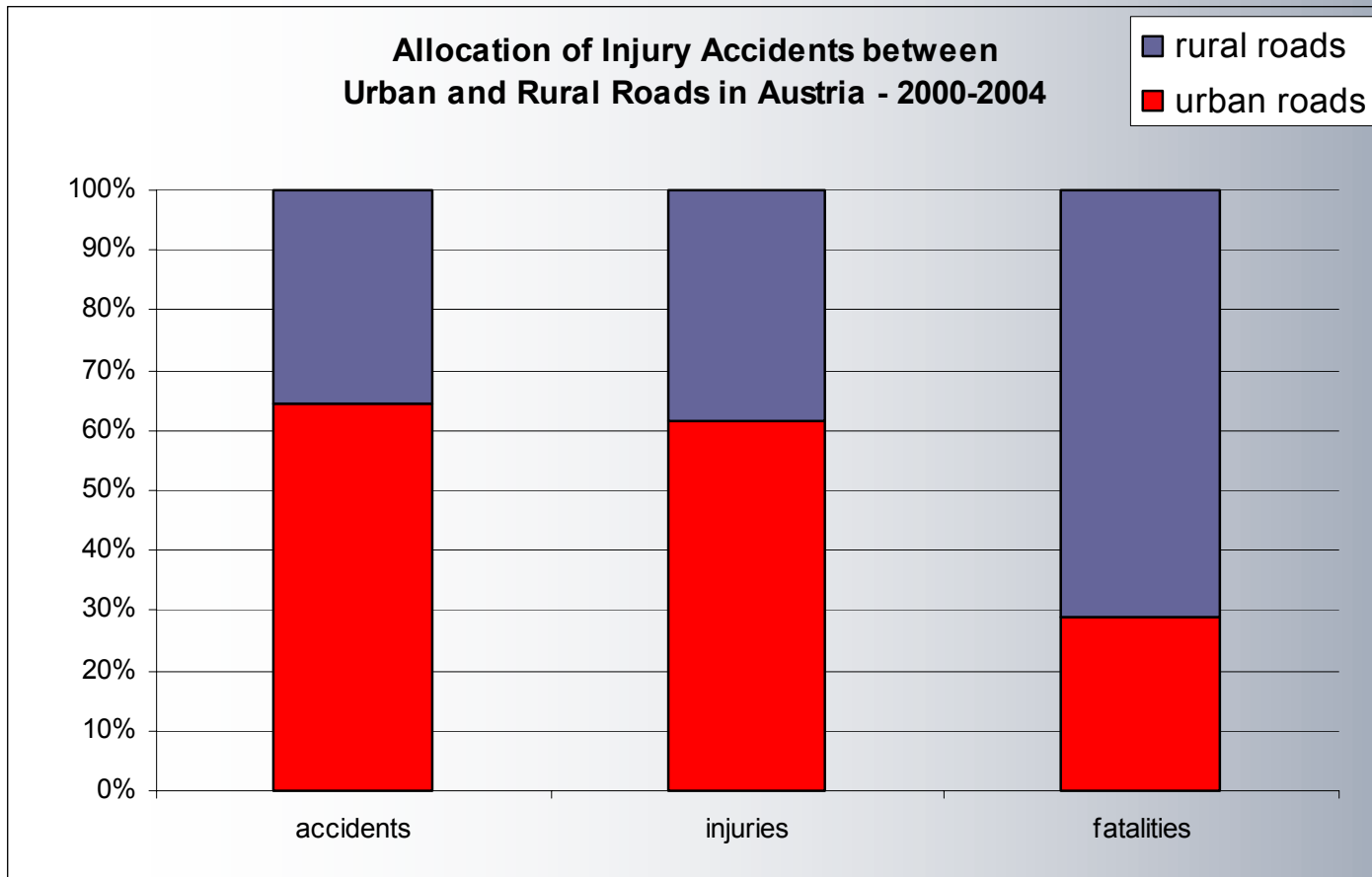
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Differences in Road Safety Characteristics



Allocation of Accidents:

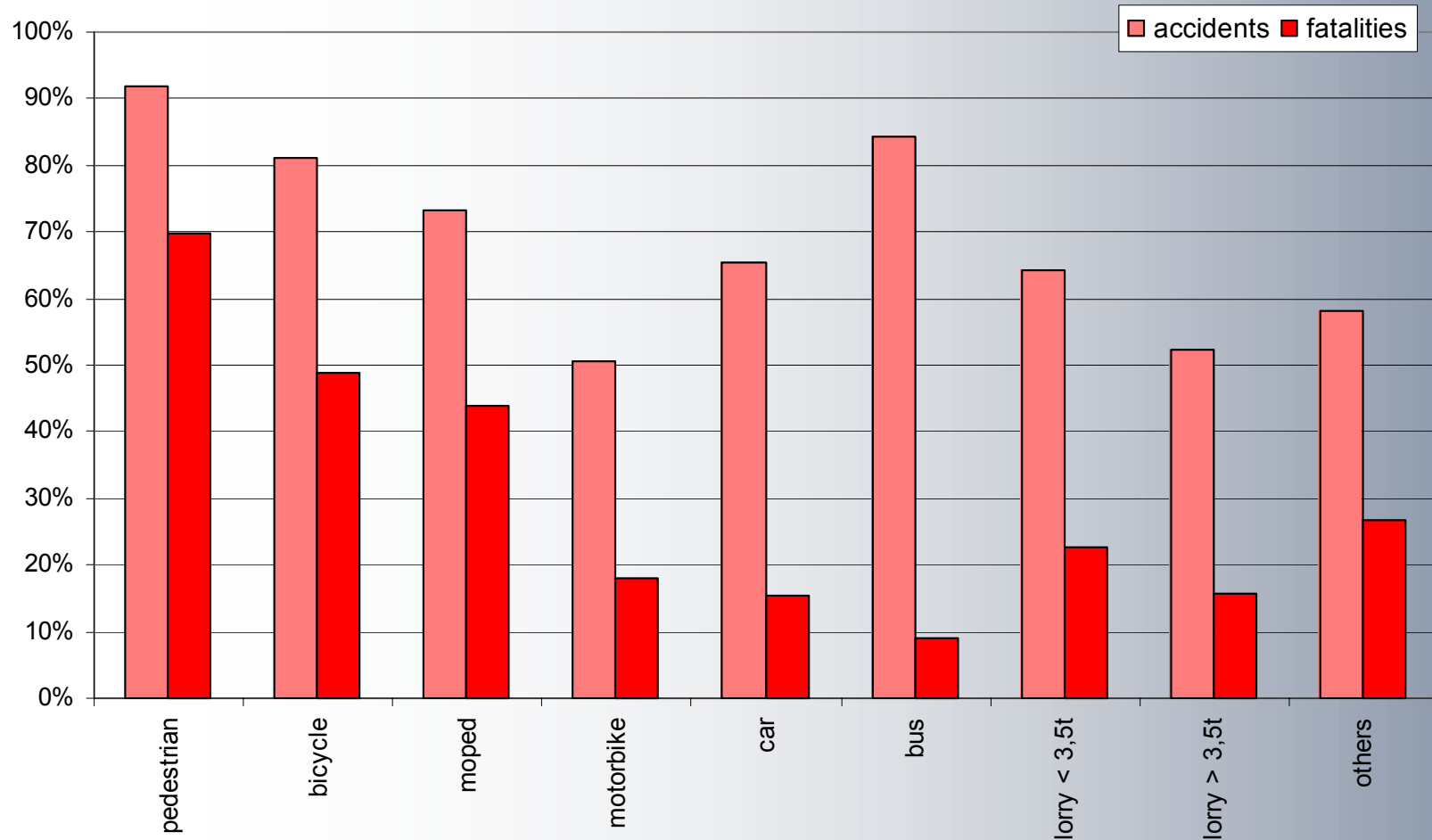


Differences in Road Safety Characteristics



Accidents and Fatalities by Road Users:

Proportion of Accidents and Fatalities on Urban Roads by Road Users in Austria - 2000-2004

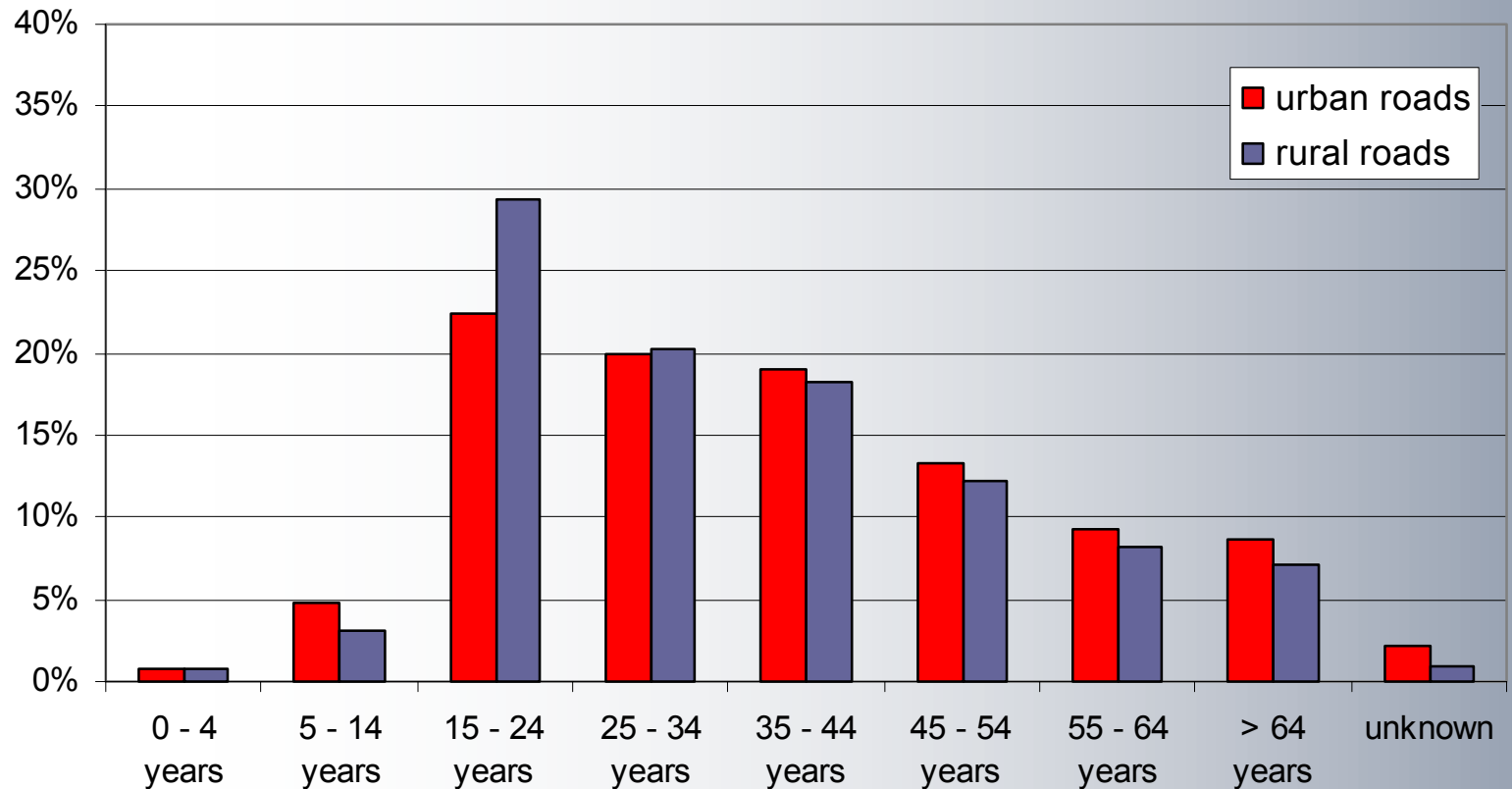


Differences in Road Safety Characteristics



Involved Parties by Age:

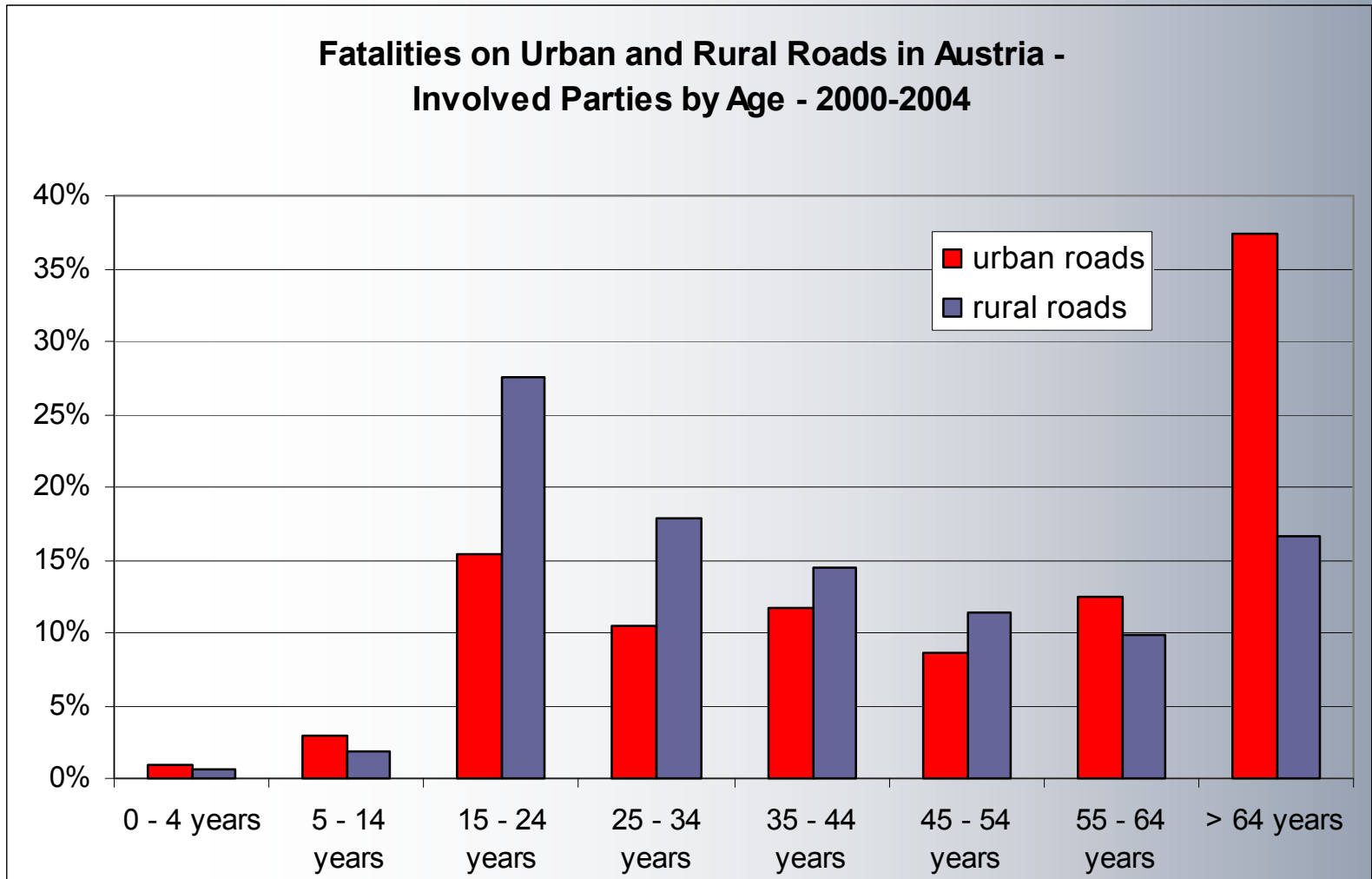
Injury Accidents on Urban and Rural Roads in Austria -
Involved Parties by Age - 2000-2004



Differences in Road Safety Characteristics



Involved Parties by Age:

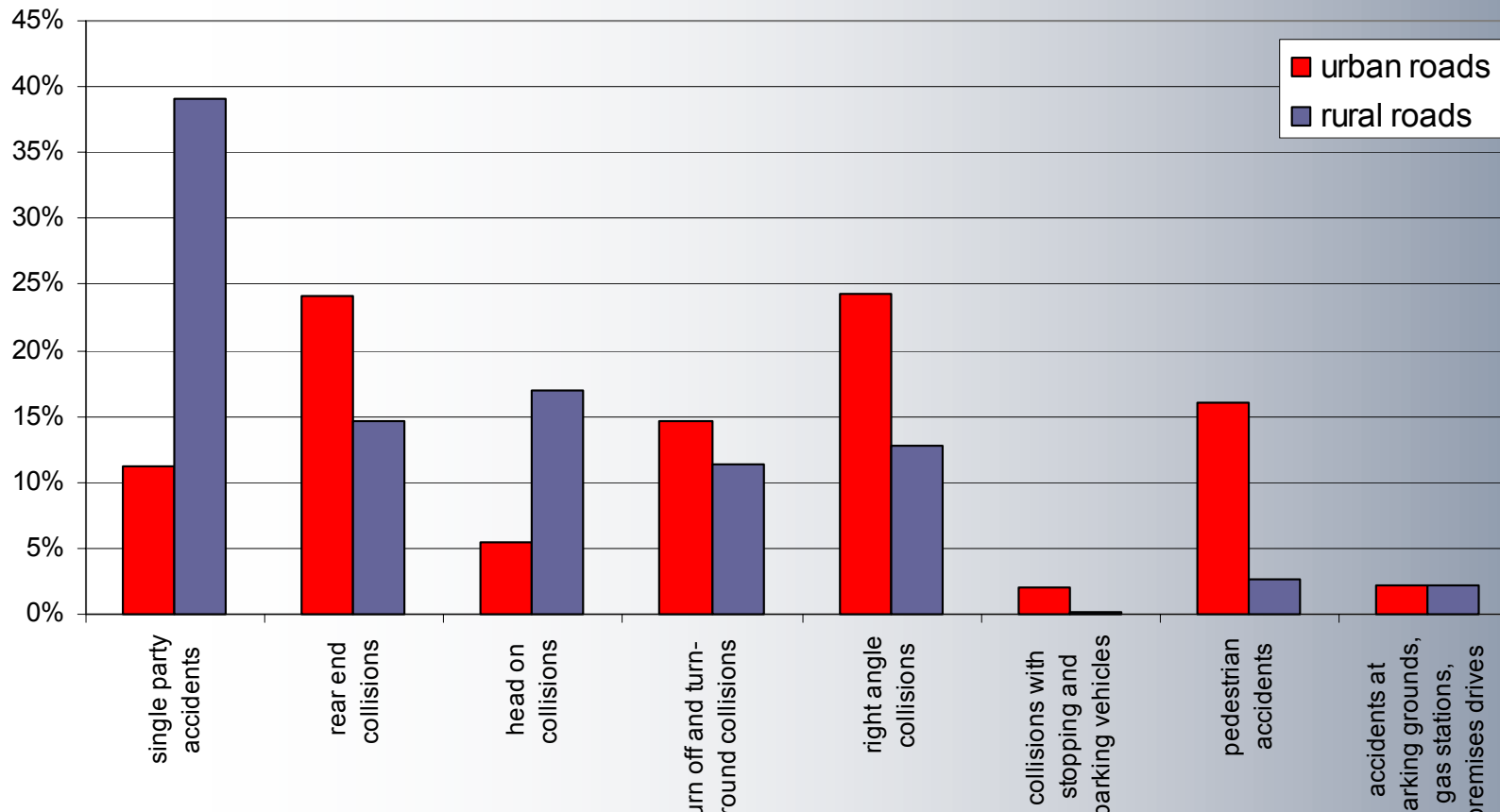


Differences in Road Safety Characteristics



Accident Type:

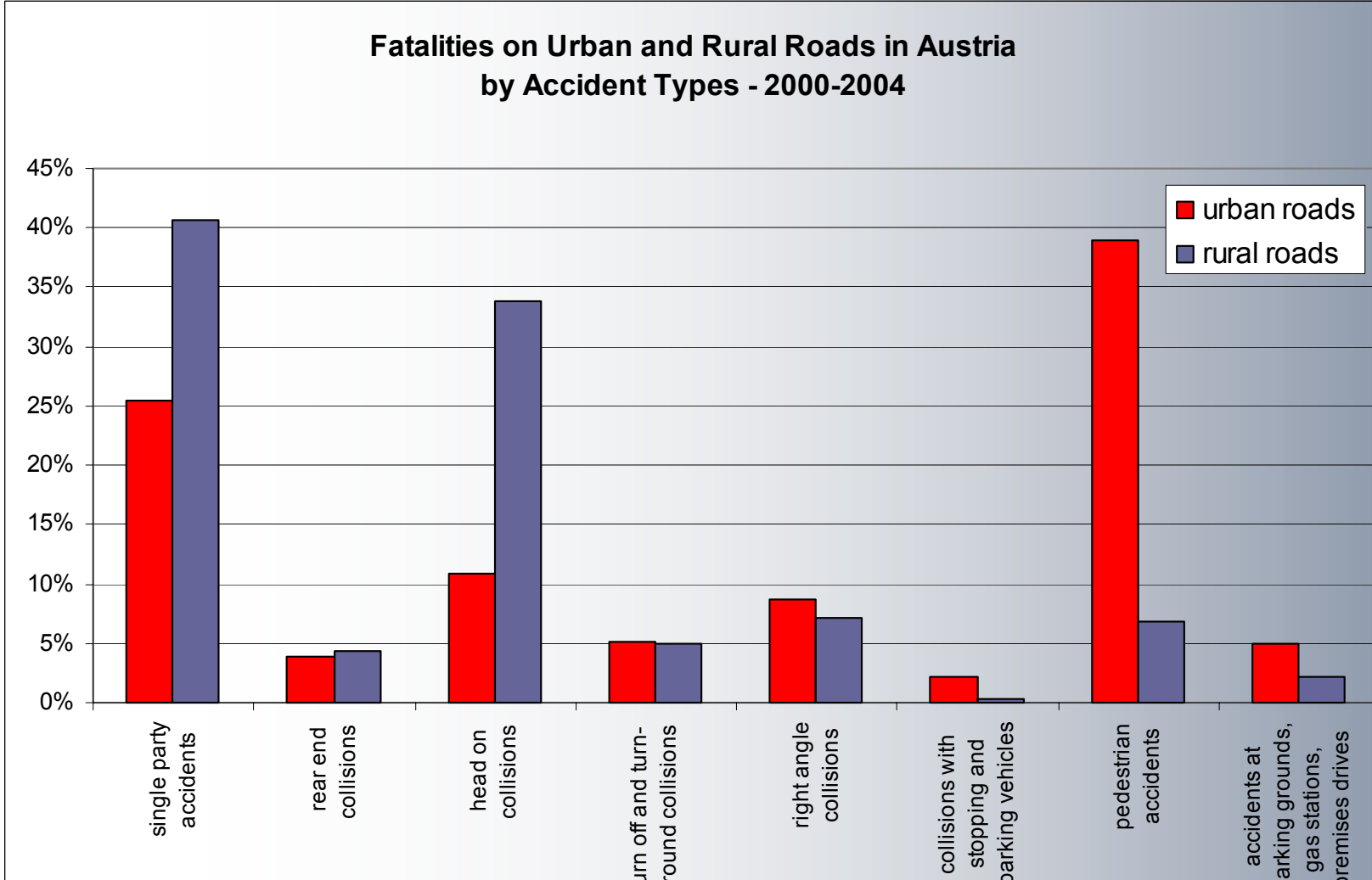
Injury Accidents on Urban and Rural Roads in Austria
by Accident Types - 2000-2004



Differences in Road Safety Characteristics



Accident Type:

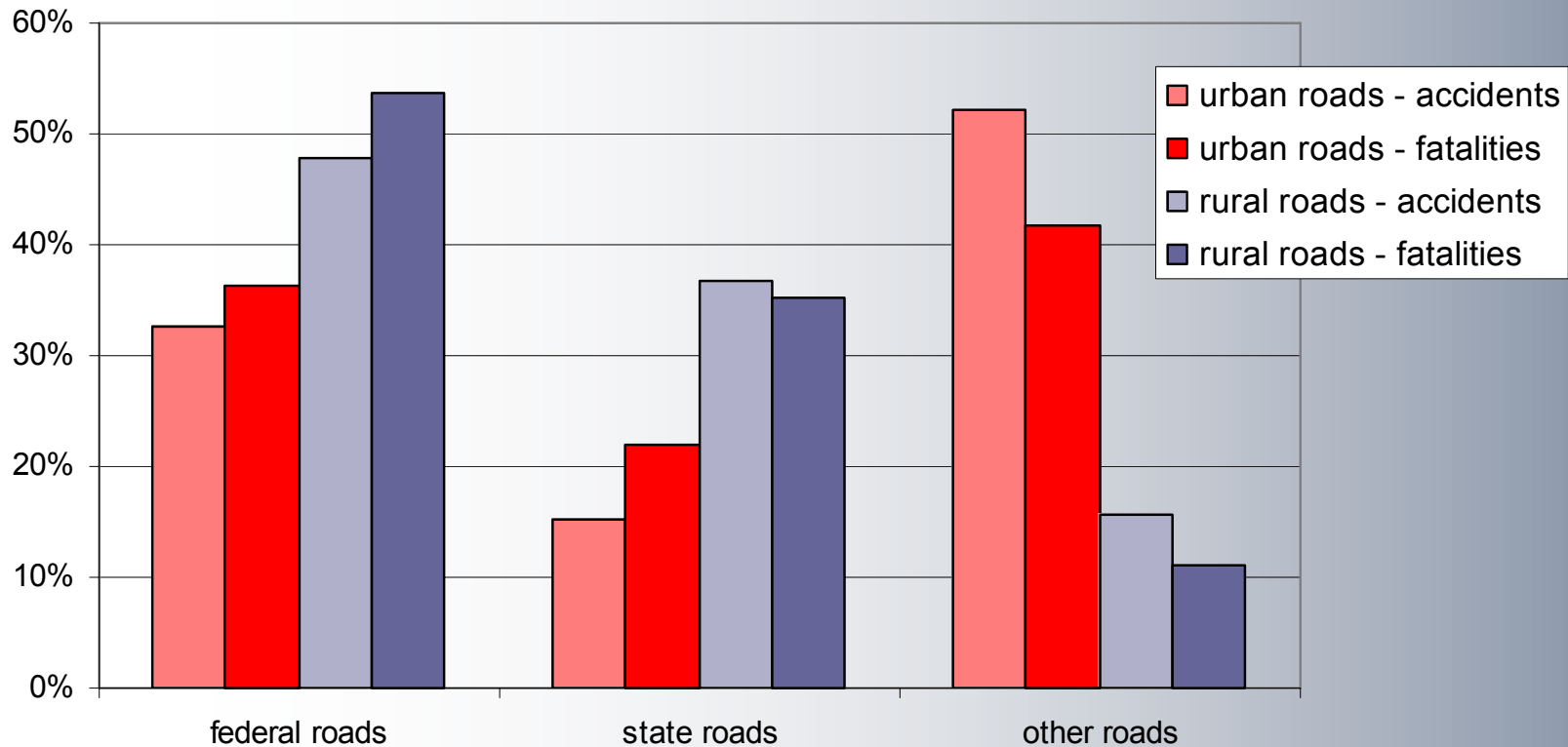


Differences in Road Safety Characteristics



Road Category:

**Injury Accidents and Fatalities on Urban and Rural Roads in Austria
by Road Category - 2000-2004**



Differences in Road Safety Characteristics



Pavement – injury accidents 2000-2004:

	urban roads	rural roads
asphalt	96.8%	97.3%
concrete	1.7%	0.5%
paving	0.8%	0.1%
gravel, sand	0.5%	1.8%
other pavement	0.2%	0.3%
total	100.0%	100.0%

Differences in Road Safety Characteristics



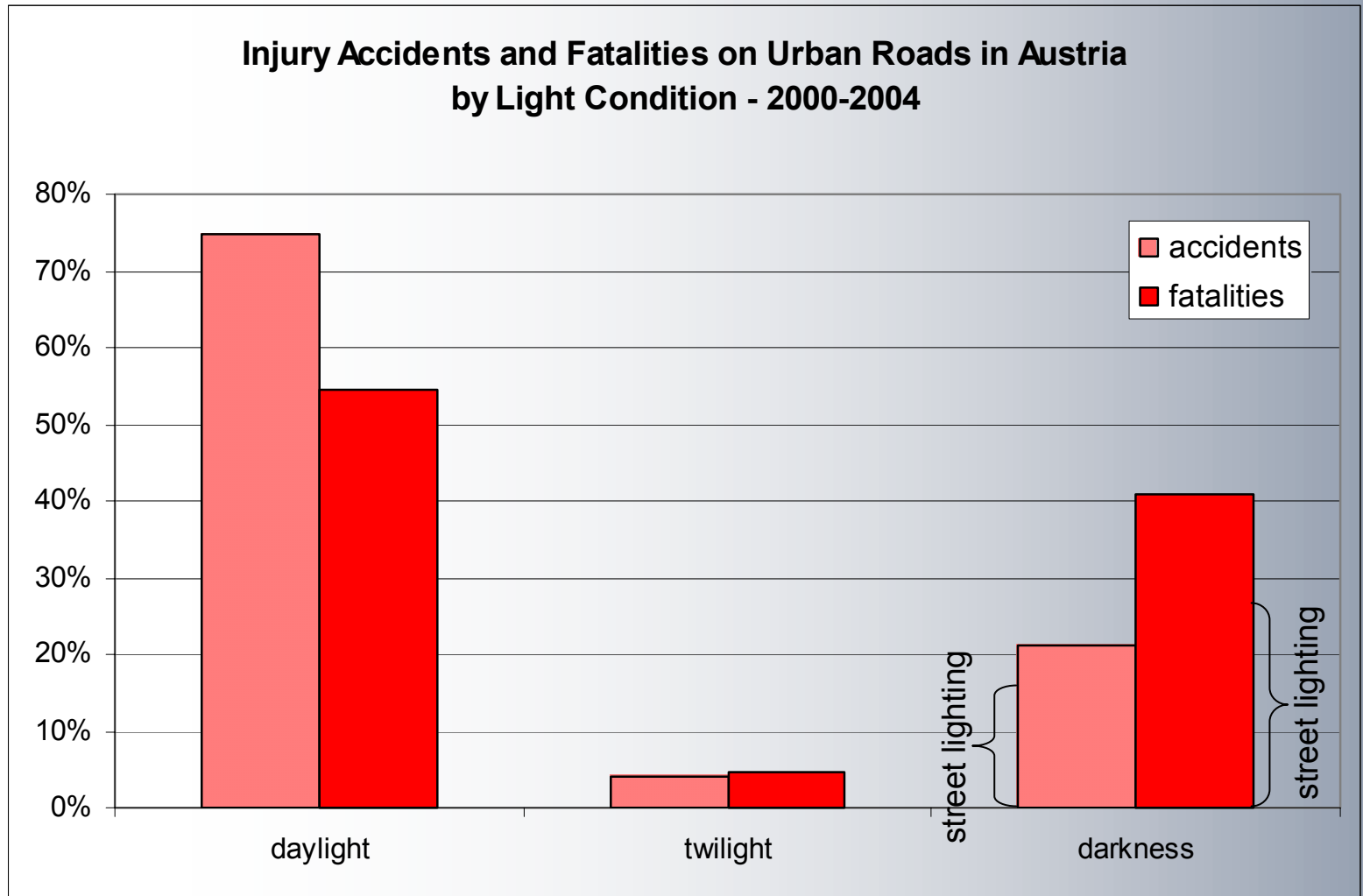
Road Condition – injury accidents 2000-2004:

	urban roads	rural roads
dry	75.2%	65.7%
wet	20.4%	22.6%
sand, grit	0.6%	1.4%
snow, - slush	1.3%	3.9%
ice (gritted)	1.0%	2.1%
ice (not gritted)	1.1%	3.7%
other (e.g. oil, soil)	0.3%	0.7%
total	100.0%	100.0%

Differences in Road Safety Characteristics



Light Condition:





Topics:

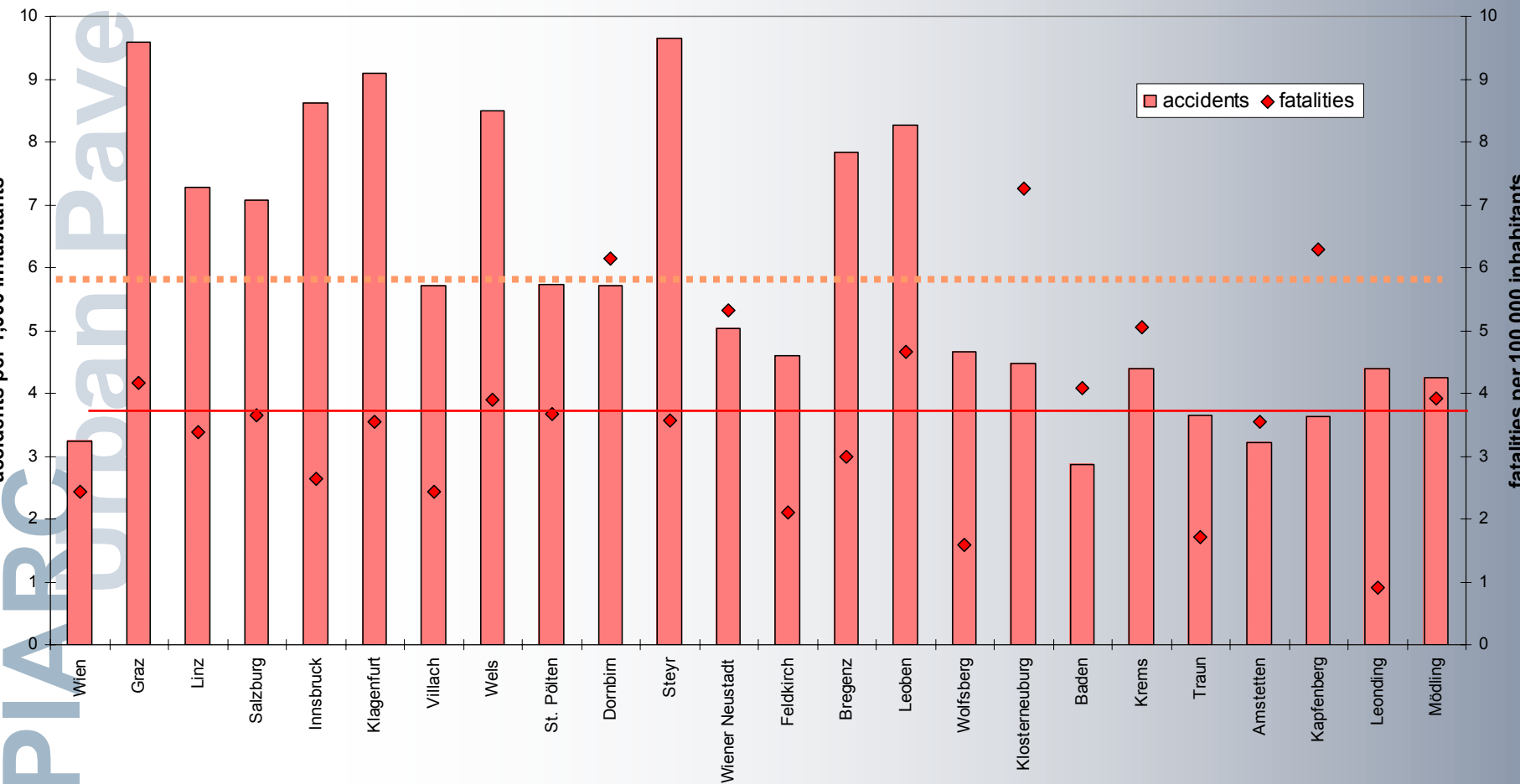
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Road Safety in Austrian Towns



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Average Yearly Injury Accidents and Fatalities per Inhabitants on Urban Roads in Austrian Towns with more than 20,000 Inhabitants - 2000-2004





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Road Safety Findings from European Towns



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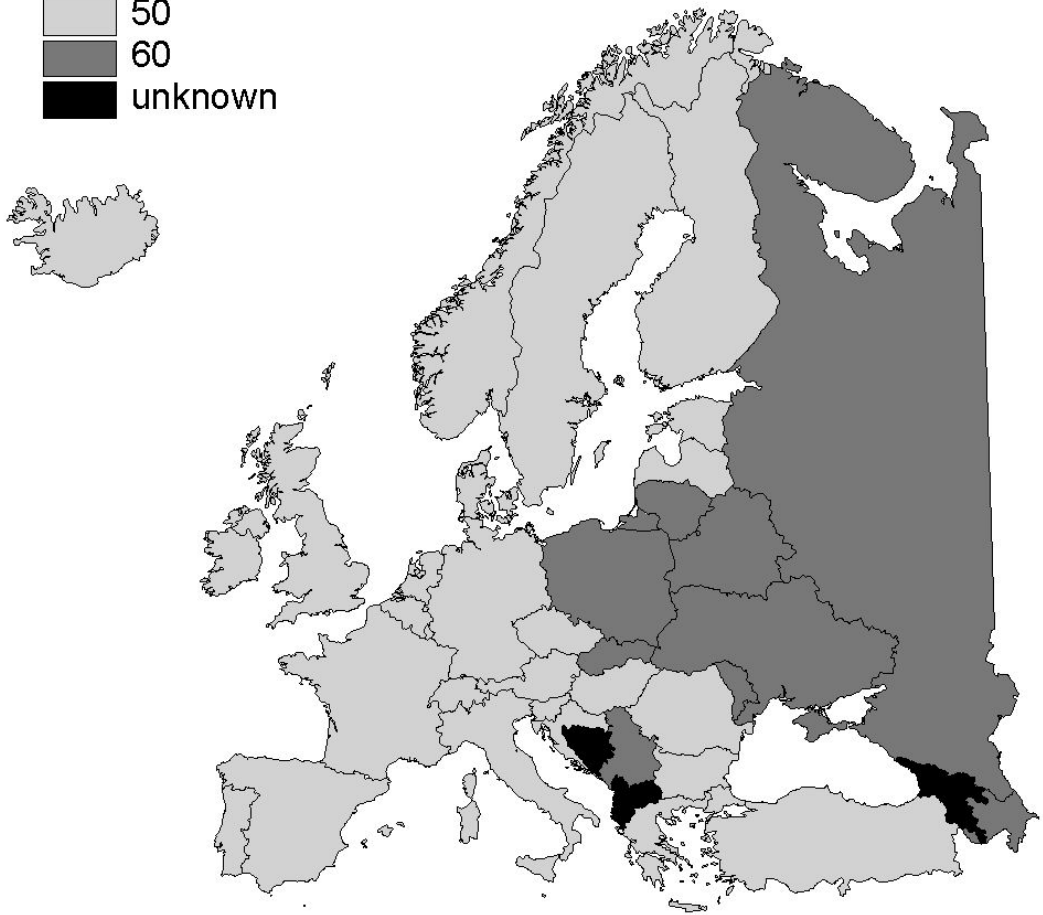
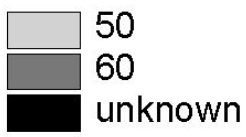
Ways to an improved urban road safety:

- ▶ Introduction of town management and urban safety management
- ▶ Achieving high levels of public transport usage, cycling and walking
- ▶ Overcoming institutional barriers and achieving funding for road safety
- ▶ Inclusion of education
- ▶ Pedestrianisation, traffic calming and speed control measures
- ▶ Introduction of methods to identify traffic safety consequences of local infrastructure plans

Road Safety in Urban Environments



Speed limits in built-up areas





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