

## Safer City Streets – Global Benchmarking for Urban Road Safety

### Alexandre Santacreu

4<sup>th</sup> meeting of the Safer City Streets network, London, UK – 20 Nov 2018







### **Intergovernmental Organisation** 59 member countries

### **Think Tank**

Policy analysis Research Statistics

### **Annual Summit**

Forum for Ministers, industry "The Davos of Transport"



### 2018 ITF Roundtable on Cycling Safety



16

Countries





### **Cycling Safety** Summary and Conclusions





Paul Schepers







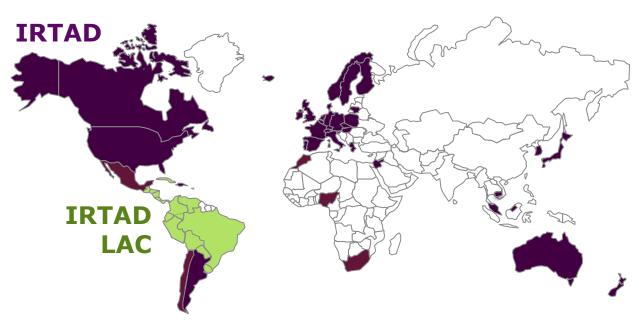
168

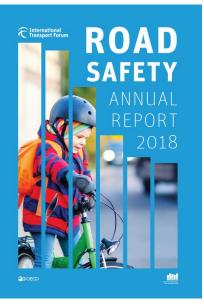
Brian Deegan





## **International Traffic Safety Data and Analysis Group**







Alcohol-Related Road Casualties in Official Crash Statistics

> published in 2018



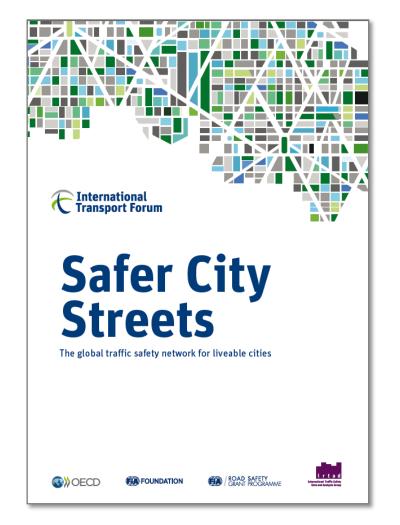
### Speed and Crash Risk

published in 2018



### **Safer City Streets** *the global traffic safety network for liveable cities*





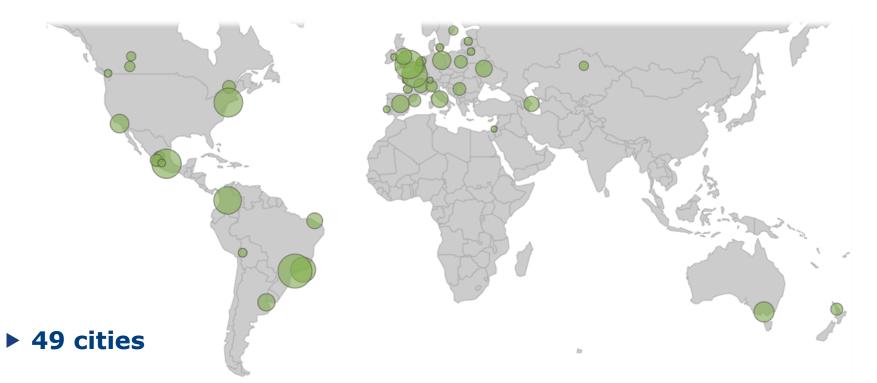


## **Safer City Streets**

the global traffic safety network for liveable cities



### FOUNDATION ROAD SAFETY GRANT PROGRAMME



20-21 April 2017

**1**<sup>st</sup> meeting in Paris

28 cities

**20** other organisations

> MZ=

NZ Rooms

-1 Cash machine



20-21 November 2018 4<sup>th</sup> meeting in London and Manchester

Event articulated with **>POLIS Conference** 

#### International Transport Forum

er City eets

safety network for liver

## Ministerial Summit 23-25 May 2018 Leipzig

transport safety & security

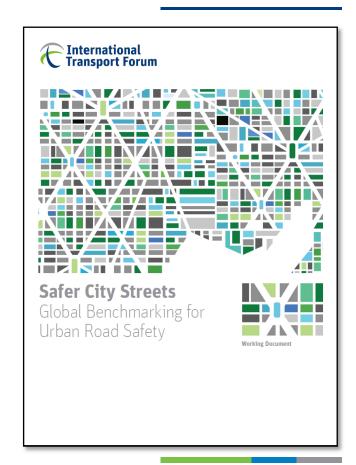






## **One publication for seven key questions**

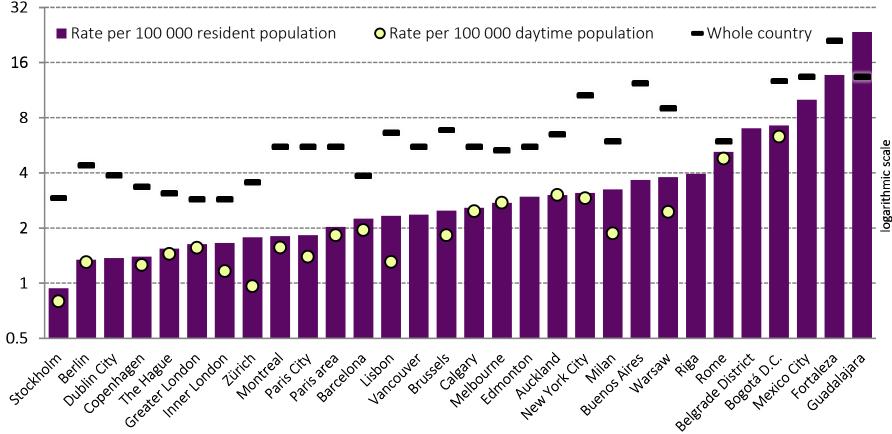
- 1. Are city streets dangerous?
- 2. Can we **measure** urban road safety performance?
- 3. Can we **monitor** performance?
- 4. Which factors are driving road safety performance?
- 5. Are cities confronted with specifically urban road safety challenges?
- 6. What is the impact of **mode shift** on public health?
- 7. Which recommendations can we make?



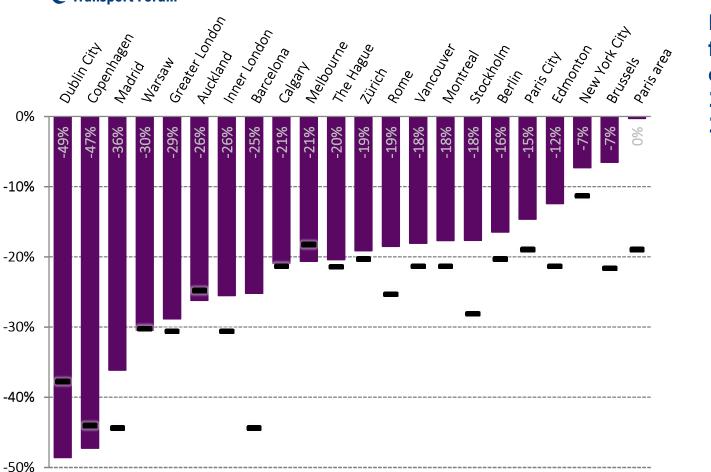




### Fatalities per 100 000 population, 2011-2015



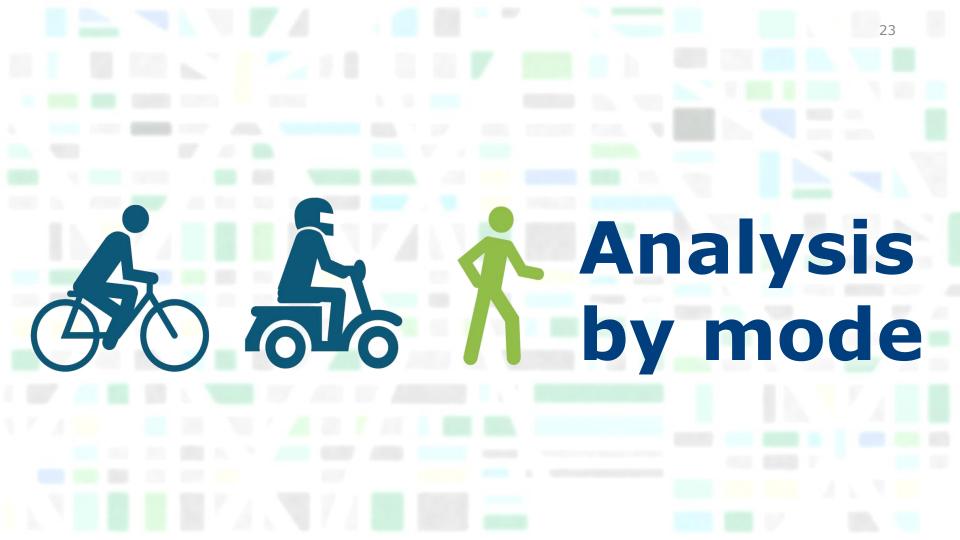


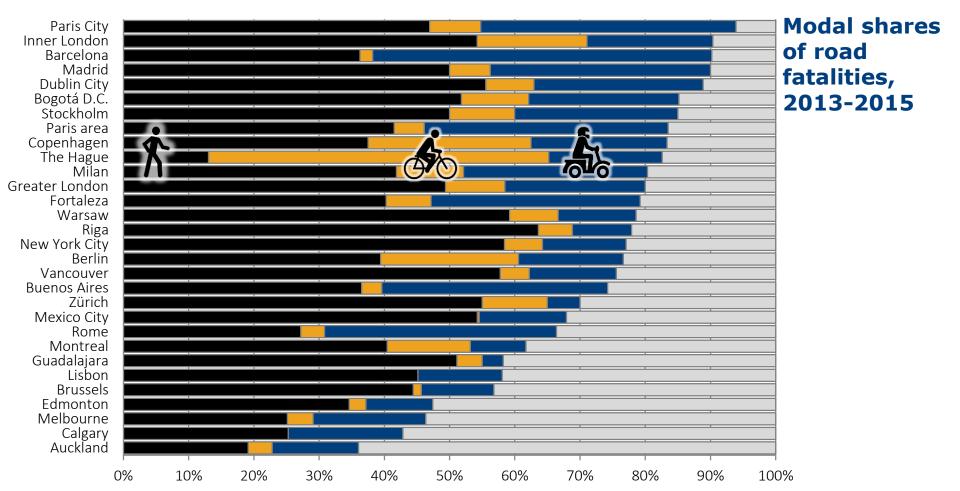


### Road fatalities, changes from 2006-10 to 2011-15

City

Whole country





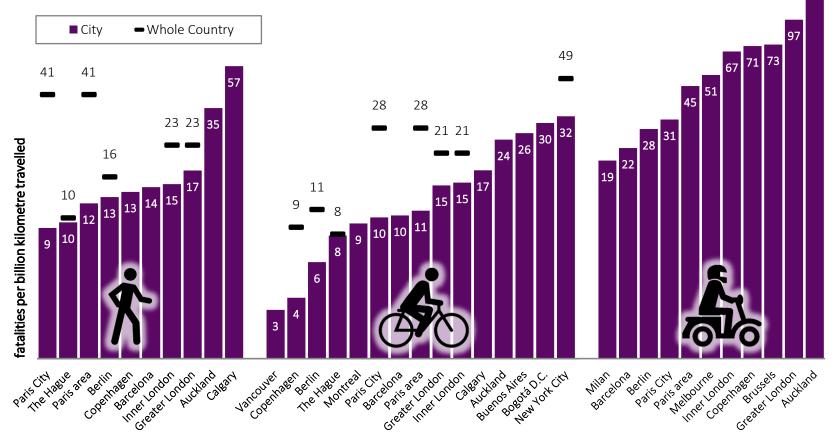


# Are cities confronted with specifically urban road safety challenges?

- Vulnerable Road Users (VRUs) represent 8 out of 10 urban traffic fatalities – but 4 out of 10 at a national level, typically.
- Consequently, specific topics take precedence: traffic calming, speed limits, direct vision lorries, etc.



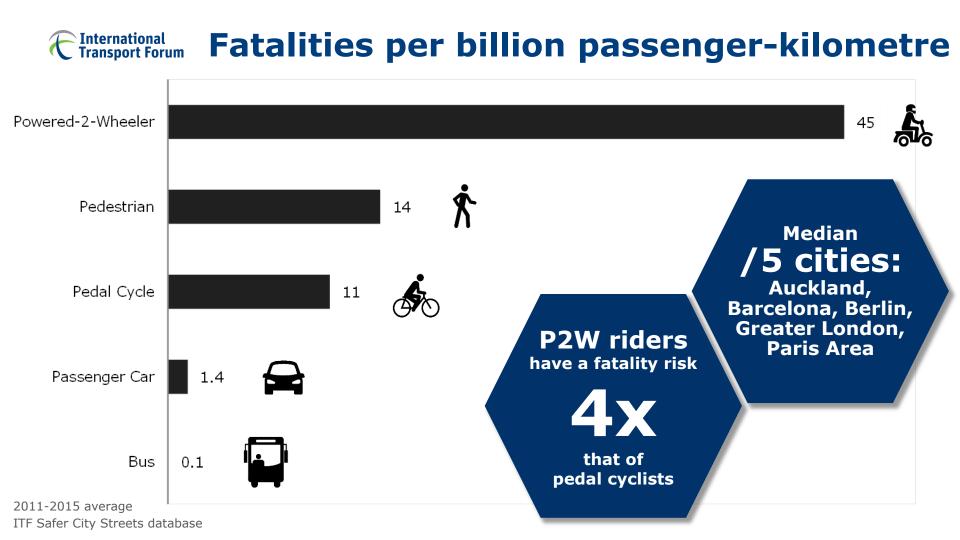
### Risk of fatality per unit distance travelled, 2011-2015

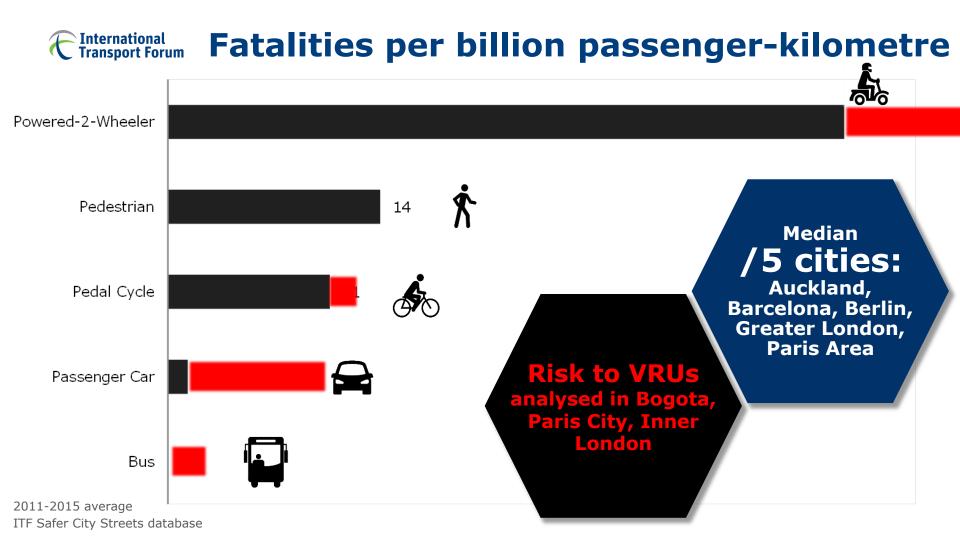




### **Are city streets dangerous?**

- Living and travelling in cities appear to be safer, regardless of the choice of indicator, in comparison to rural areas
- Yet most urban populations express a fear of cycling and a fear of letting their children walk to school
- In this sense, we recommend creating an environment where people *are* and *feel* safe





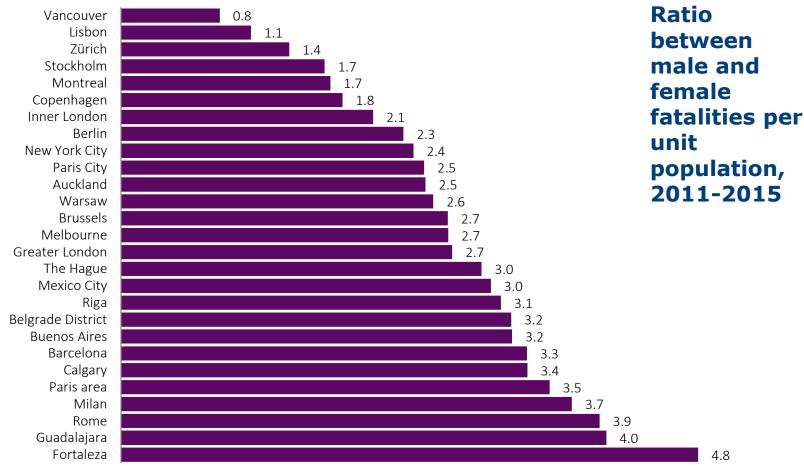


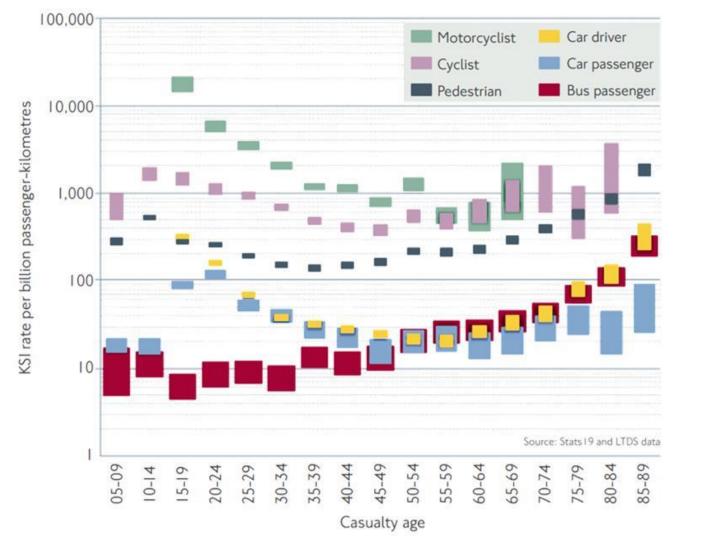
# What is the impact of mode shift on public health?

- The answer *requires* the collection of mobility data and the analysis of crash matrices
- Provisional results highlight the risk of using P2W (not only to riders themselves but also to third parties, namely pedestrians)
- The true answer requires the consideration of physical activity benefits from active travel









Casualty rate per billion kilometres travelled by age and by mode

Source: Transport for London http://content.tfl.gov.uk/safestreets-for-london.pdf



## Can we measure urban road safety performance?

- All indicators have limitations but contribute to building the performance picture
- We see much value in the estimation of risk per user group, controlling for the amount of travel



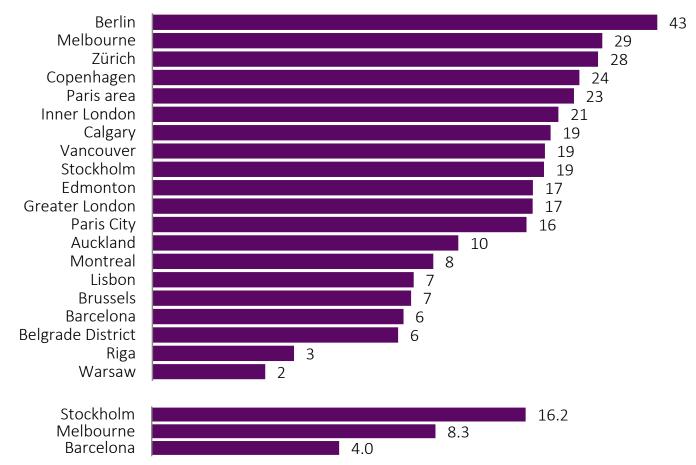
### **Can we monitor performance?**

- Year-on-year changes in fatalities rarely are statistically significant
- Relying on fatality data alone makes it impossible, in most cities, to monitor safety year-on-year

- Changes in casualties in some user groups often reflect the changes in the size of this group
- >Without mobility data, we can't monitor road user risk







### Ratio between serious injuries and fatalities, 2011-2015

Ratio between MAIS3+ injuries and fatalities, 2011-2015



## **Serious injuries**

 International Classification of Diseases (ICD)

Abbreviated Injury Scale (AIS)





#### **Reporting on Serious Road Traffic Casualties**



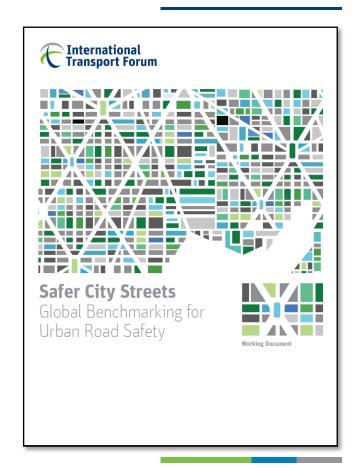
Combining and using different data sources to improve understanding of non-fatal road traffic crashes





## **One publication for seven key questions**

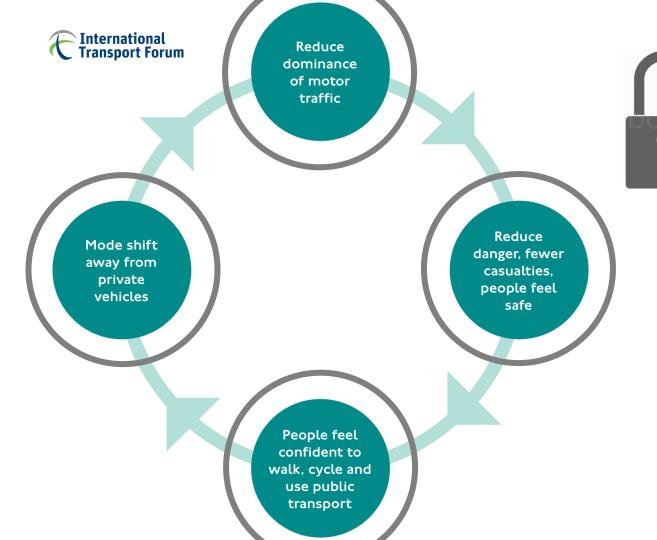
- 1. Are city streets dangerous?
- 2. Can we measure urban road safety performance?
- 3. Can we **monitor** performance?
- 4. Which factors are driving road safety performance?
- 5. Are cities confronted with specifically urban road safety challenges?
- 6. What is the impact of mode shift on public health?
- 7. Which recommendations can we make?





## Which recommendations can we make?

- Set ambitious targets on fatal and serious injuries
- Focus on VRUs and develop meaningful VRU safety indicators
- Collect robust and comparable serious injury data
- Consider safety as a key to mode shift and vice versa



Safe streets unlock alternative transport modes

Source: Transport for London 2018 Vision Zero Action Plan



## Thank you

### Alexandre Santacreu Alexandre.Santacreu@itf-oecd.org

### www.itf-oecd.org



