



Characteristics of Police-reported Road Traffic Crashes in Ethiopia over a Six Year Period

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CARRS-Q is a joint venture initiative of the
Motor Accident Insurance Commission
and Queensland University of Technology



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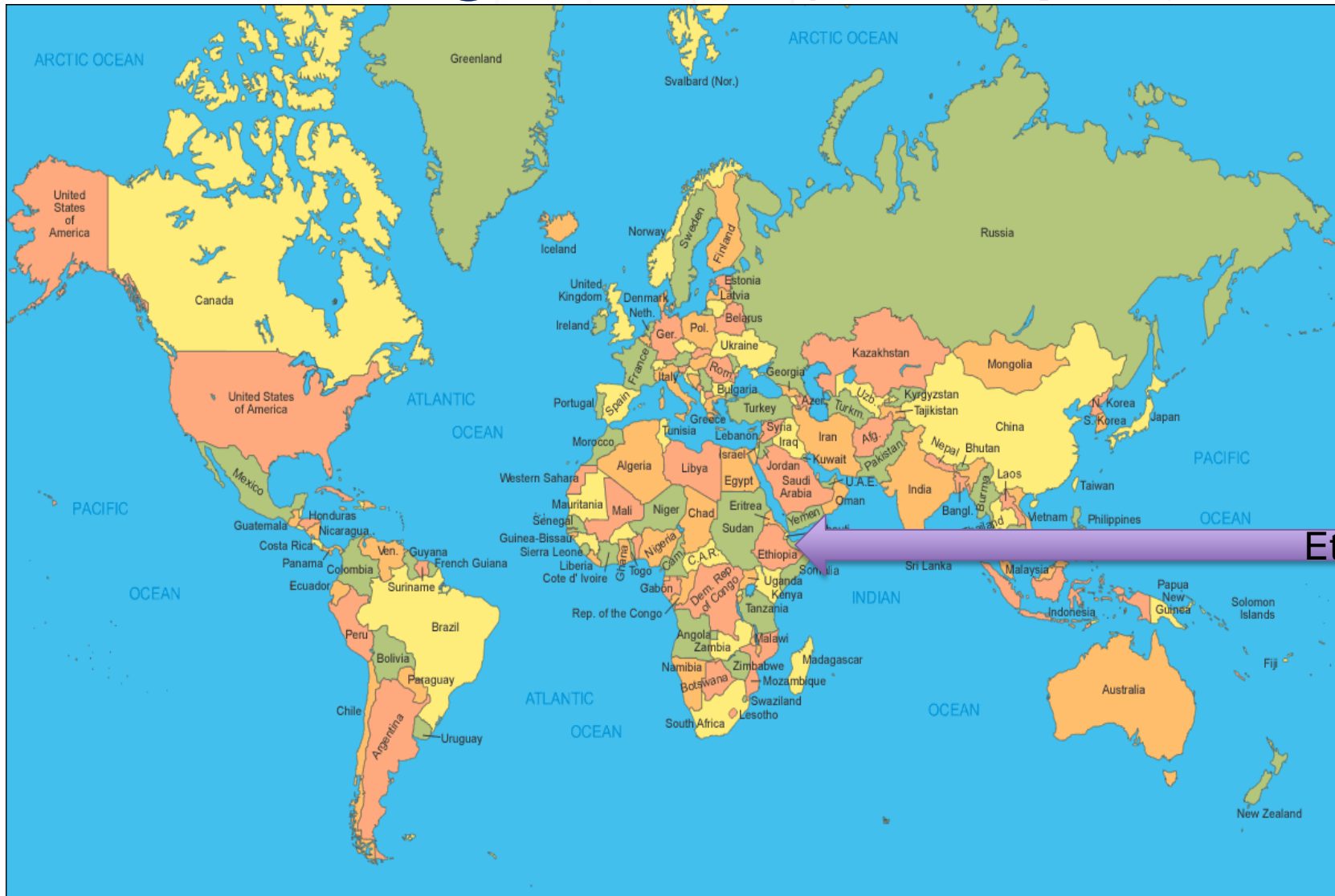


Outline

- **Background**
- **Methods**
- **Results**
- **Conclusions**



Background (Ethiopia)



Ethiopia

Background (cntd)

- **Over 90% of the world's road traffic fatalities in developing countries**
- **Vehicle population in Ethiopia: ca 400,000**
- **Road network: 52,000 kilometres <19% paved**
- **Over six year period**
 - 14,542 fatalities
 - 51,573 injuries

Methods

Source of Data

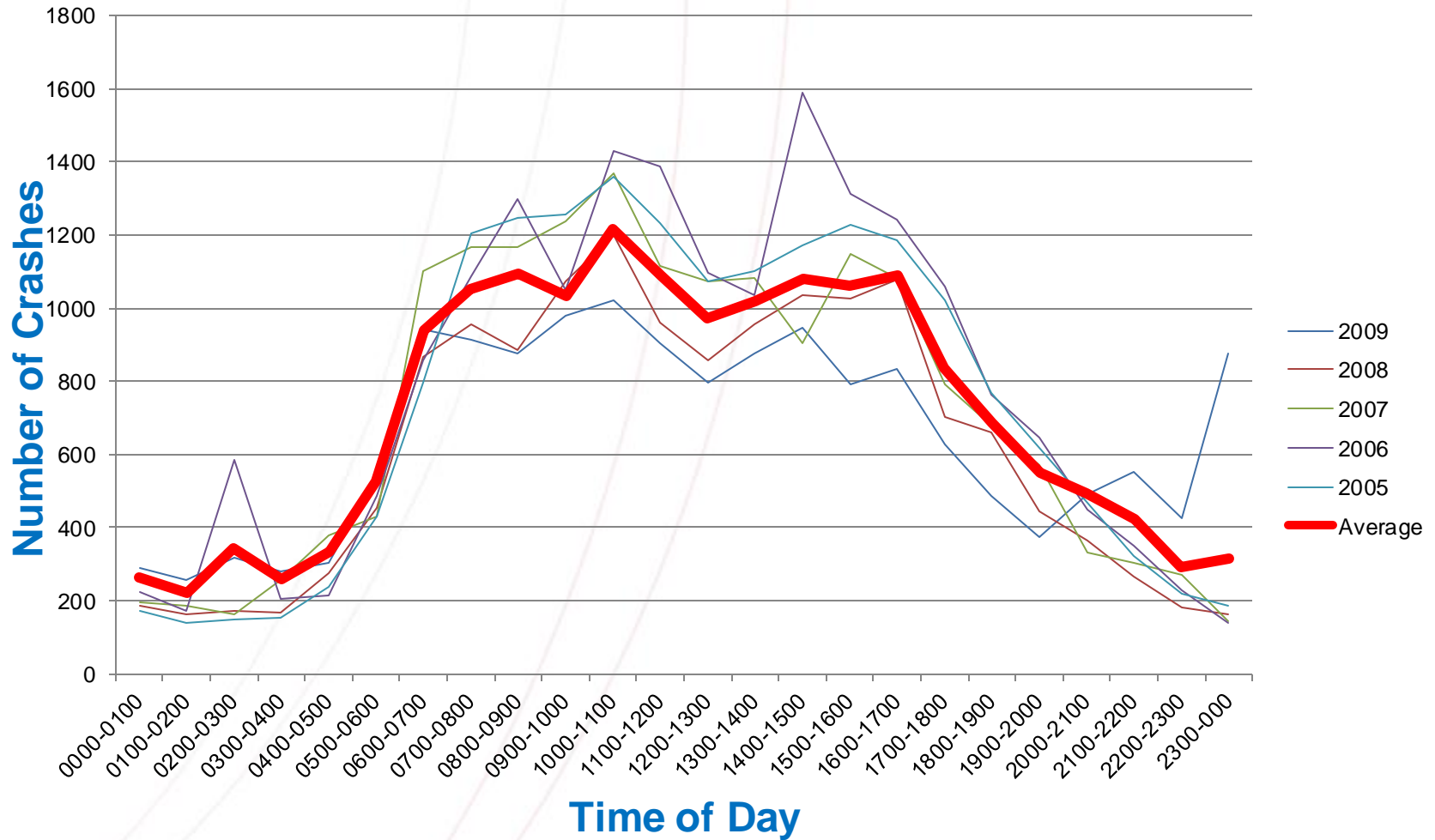
- **Ethiopian Police Commission (six years' data 2005-2010)**
- **Population census data (2007)**

Analysis

- **Descriptive statistics**



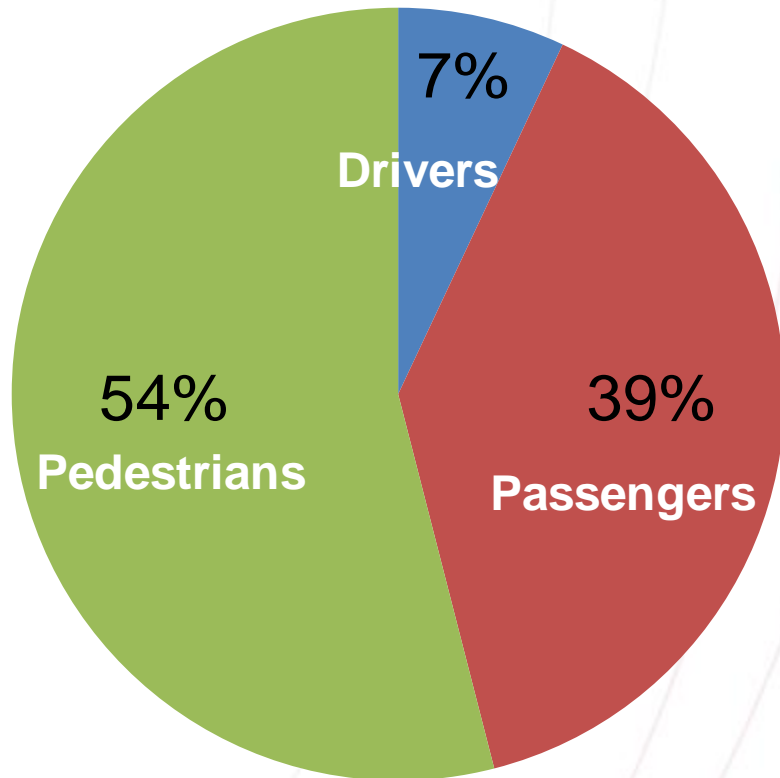
Results- time variation of crashes



Fatalities for Road Users in Gender and Age Groups

Age	Drivers		Passengers		Pedestrians		Total	Annual Fatalities per 100,000 pop.
	Male	Female	Male	Female	Male	Female		
<18	45	6	513	271	1,562	723	3,120	1
18-30	506	28	2,262	612	1,773	470	5,651	5
31-50	355	29	1,274	308	1,565	418	3,949	6
≥ 51	96	5	295	167	948	311	1,822	6
Total	1,002	68	4,344	1,358	5,848	1,922	14,542	3

Fatalities by road user types



Results- Road environment

- **Road types**



- **Midblock (non-intersection) areas**

- **Crashes by land use**

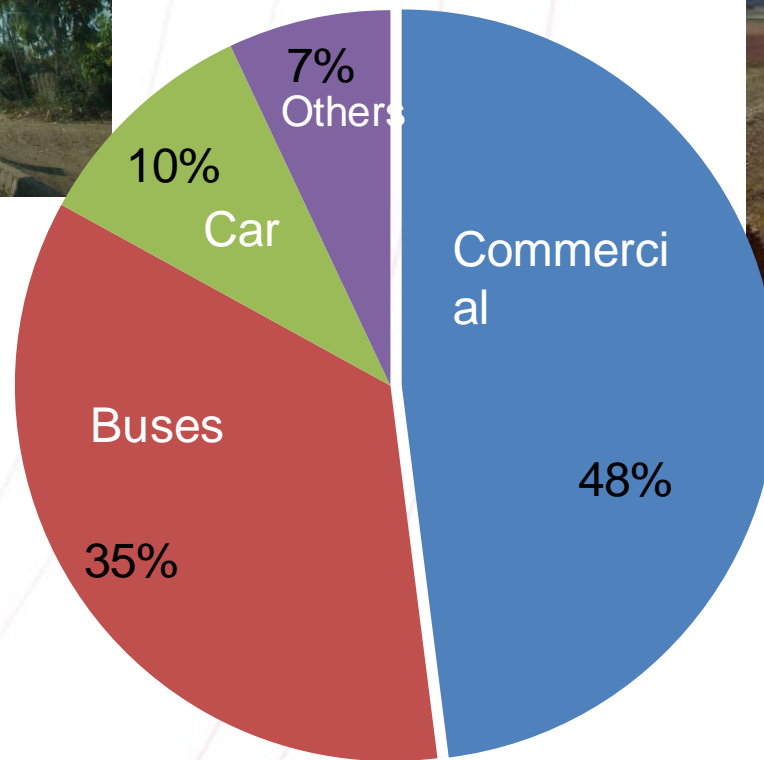
- rural villages, CBD and urban residential areas

Results- crashes by collision types

- **Collision types**
 - 49% pedestrian-vehicle collision
 - 17% rollover crashes



Results-crashes by vehicle types



Conclusions

- **The variation of crashes by time of day follows a similar pattern to variations in traffic volumes**
- **Road users age between 18-30 overrepresented**
- **Most crashes occurred on paved and two-way two-lane roads (interstate and cities)**
- **The absence of a median area contributed to higher crashes**
- **Pedestrian crashes are the dominant type (road users and collision types)**
- **Commercial vehicles, and buses have a high involvement**



Thank you

