

DRIVER – A World Bank Tool for crash data collection

**SECOND WORKSHOP
TOWARDS THE ESTABLISHMENT OF A
ROAD SAFETY OBSERVATORY IN AFRICA
Abuja, 2-3 July 2018**

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WORLD BANK GROUP
Transport & ICT

Overview of talk

1. The Road Safety Challenge

2. DRIVER Program

1. What is it

2. Advantages

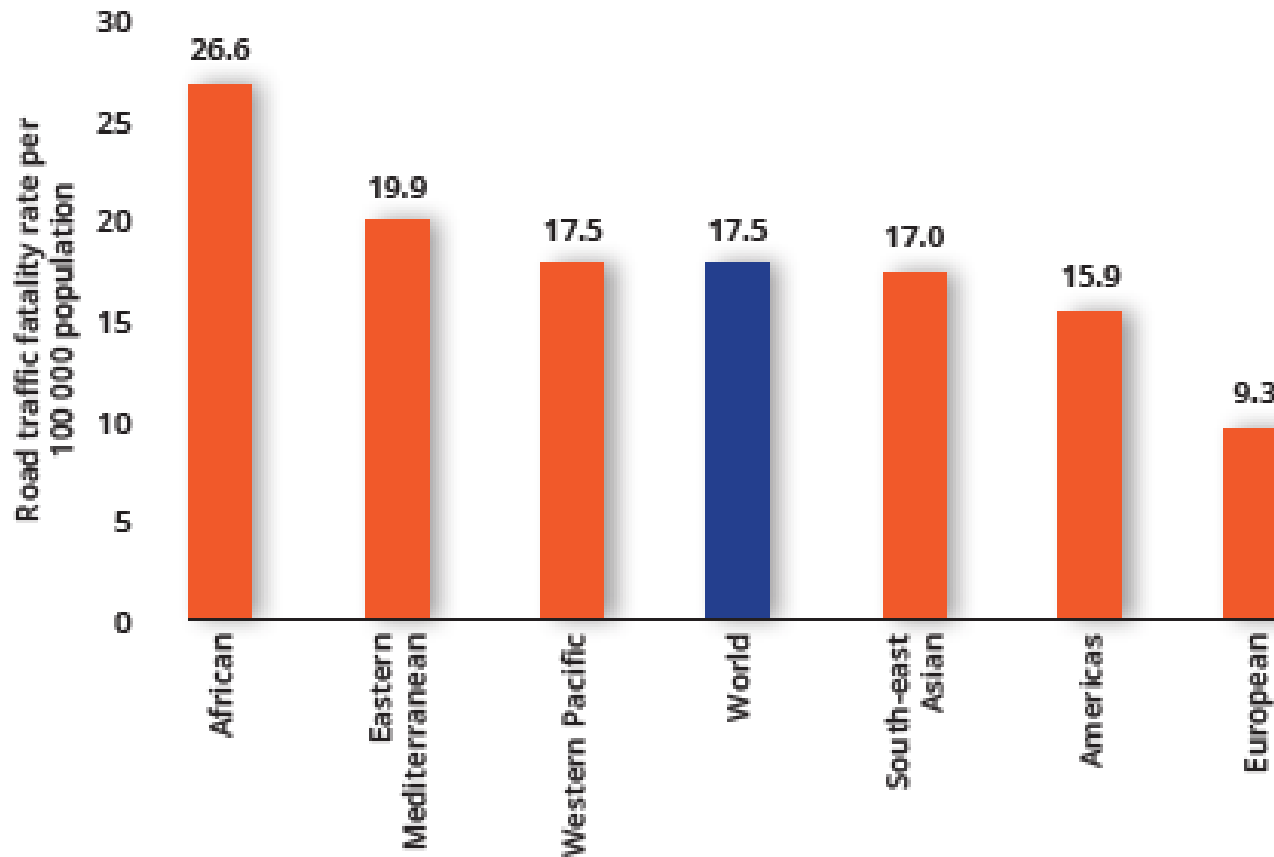
3. Advantages for an African Road Safety Observatory

4. What is required to use it

3. Example uses What it can do

Deaths per 100,000 people

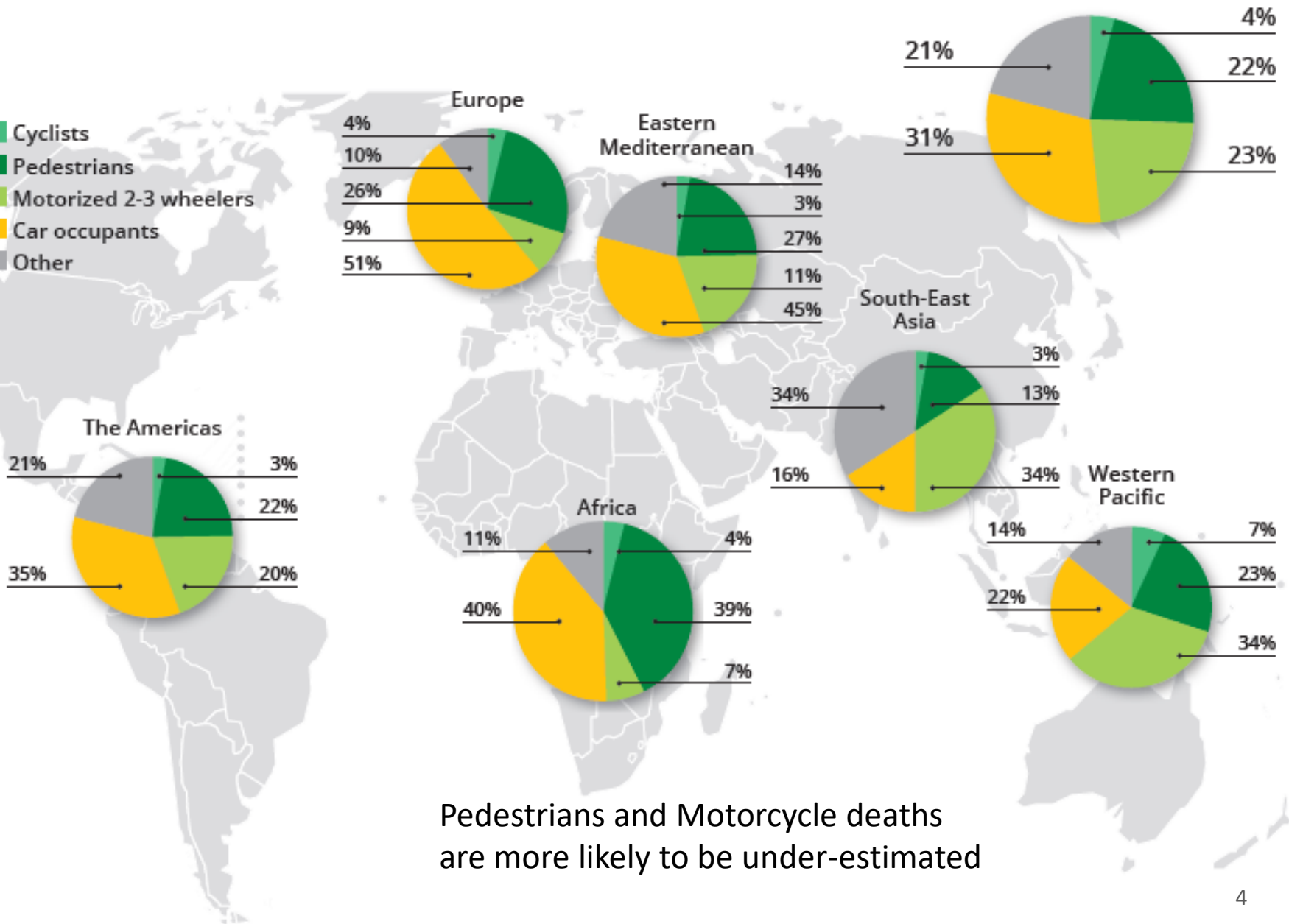
Road traffic fatality rates per 100 000 (2013), by WHO region



For the 9 countries here, the average is 27.5

Road traffic deaths by type of road user, by WHO region

- Cyclists
- Pedestrians
- Motorized 2-3 wheelers
- Car occupants
- Other



Pedestrians and Motorcycle deaths are more likely to be under-estimated

Priority: Road safety is a crisis - and urgently needs more funding and a real plan

- **We will not meet the Decade and SDG targets**
 - In four years, annual deaths must drop by more than 600,000 from the 1.25 million baseline and injuries must drop by 25 million. But, deaths are increasing.
 - We need to push harder now, and we need to change to game.
-
- **Some brutal predictions (part of a position paper we are preparing):**
 - 2013 = 1.24 million deaths
 - 2016 = 1.34 million deaths 2.7% increase per year
 - Simple extrapolation:

Prediction, with business-as-usual

- **Extrapolating the current increase:**
- **For 2018 to 2030, inclusive =**
- **21.7 million deaths**
- **875.7 million injuries**
- **from road crashes globally**

The DRIVER Platform: What is it

- **DRIVER = Data for Road Incident Visualization, Evaluation, and Reporting**
 - A crash data storage, mapping and analysis system
 - Web-based and open-source system for geo-spatially recording and analyzing road crashes
 - A way to link multiple agencies working with road crash data (local government units, transport, the police, and the health system)
 - A means to standardize terms and definitions for reporting crash data
 - A suite of analytical tools to support evidence-based investments and policies as well as eventually a platform for monitoring the impact of interventions

The DRIVER Platform: How does it work?

- A crash data storage, mapping and analysis system
- Uses google street maps
- DRIVER: developed and pilot tested by the World Bank in the Philippines (with thanks to Holly Krambeck and team)
- Can be adapted to many countries
- Has proven itself to be an effective viable road safety support solution

DRIVER: Advantages

1. Available for free on the World Bank GitHub open source code repository: <https://github.com/WorldBank-Transport/DRIVER>
2. *Customizable data entry fields*
3. *Easy to deploy at limited cost due to its Open Source platform*
4. *Adaptable to almost all countries, states, and cities, through its use of Open Street Map as the mapping platform*
5. *Provides key tools for recording and managing road safety data, including analytical tools for blackspot prediction, estimating the economic costs of crashes for a selected area, and tracking efficacy of road safety interventions*
6. *A public-facing website and tools for downloading anonymized data for third-party analysis*
7. *The platform is likely to become more widespread as the World Bank and GRSF support its promotion into countries and cities.*

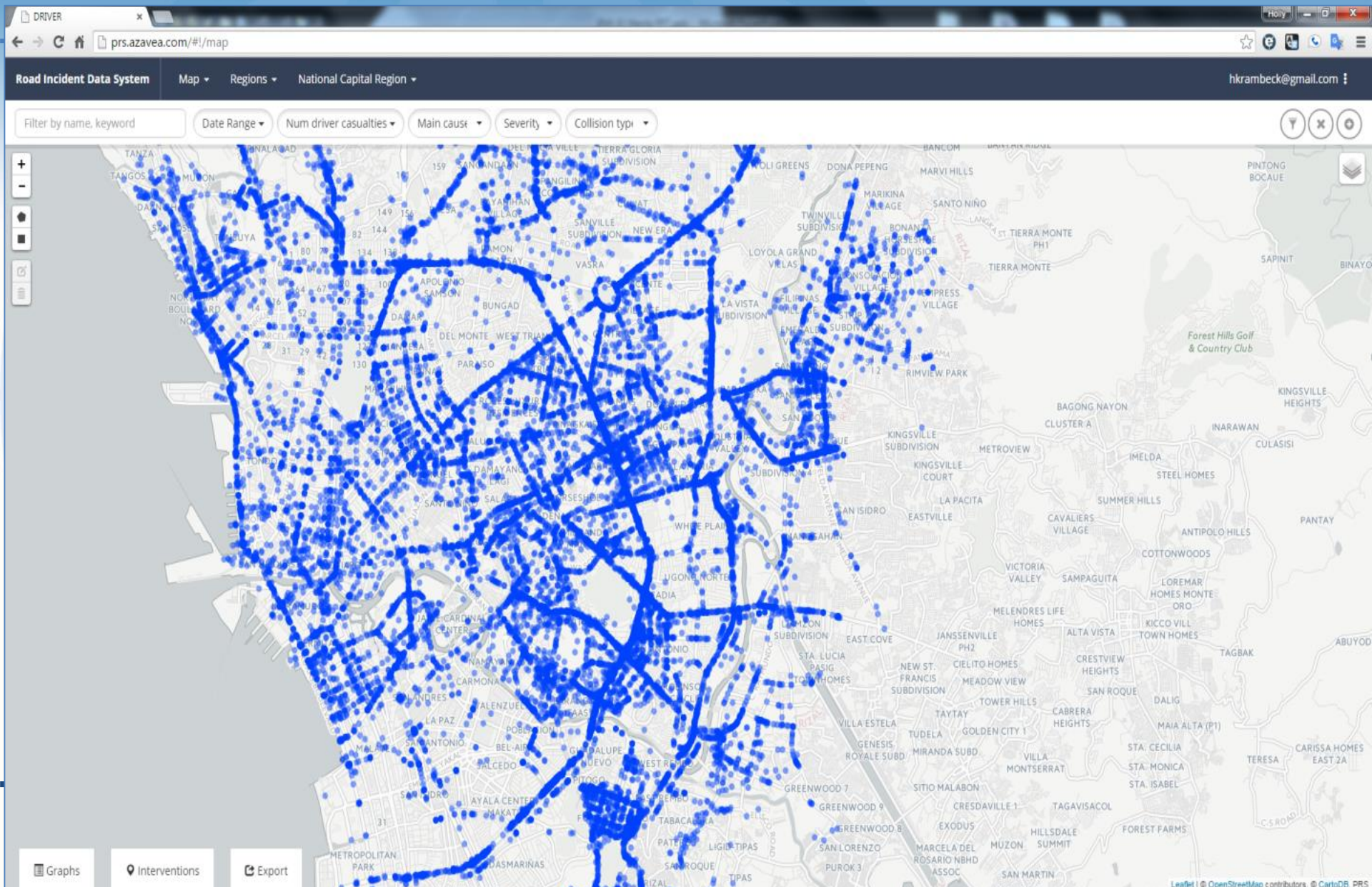
DRIVER: Advantages for an African Observatory

1. Uniform data processes, even if not identical data fields
2. Cross country help with expertise and usage
3. Can share the public-facing website of selected downloaded anonymized data
4. Everyone has existing data systems of various levels of function, but this sets an equally shared process

DRIVER: What is required to use it

- Note the Flexibility =
- Customized data entry fields for each country (low cost work) [or an agreed dataset]
- Data entry (by existing or improved processes) into the system
- Opportunity to enter earlier data (with correction for omissions) or not.

DRIVER: What can it do



DRIVER: What can it do

DRIVER Ashlar Editor prs.azavea.com/#!/list

Road Incident Data System Record List Regions Central Visayas (Region VII)

hkrabeck@gmail.com

Accident Details [Edit Accident](#)

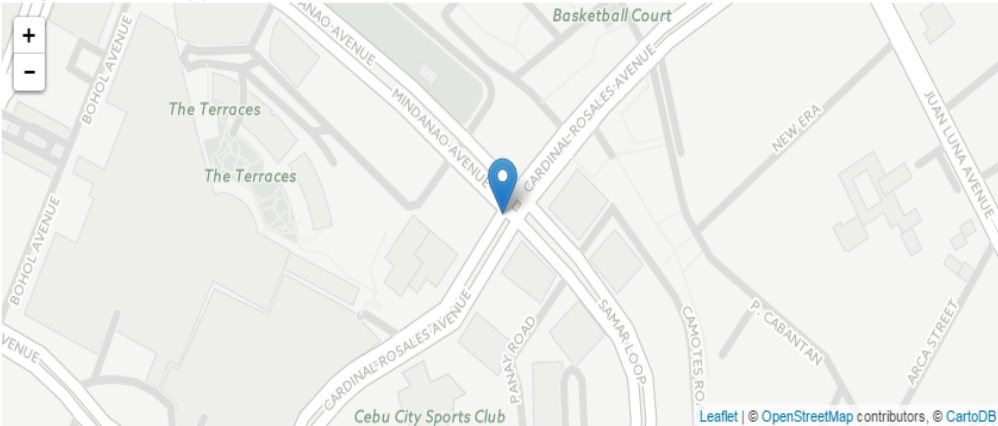
Filter by name, keyword Date Range

DATE & TIME	SEVERITY
2/20/16 12:00 PM	Property
2/19/16 11:00 PM	Property
10/8/15 9:38 PM	Property
10/8/15 8:21 PM	Property
10/8/15 7:18 PM	Property
10/8/15 7:13 PM	Property
10/8/15 6:23 PM	Property
10/8/15 5:14 PM	Property
10/8/15 5:03 PM	Property
10/8/15 3:49 PM	Injury
10/8/15 3:07 PM	Property
10/8/15 2:20 PM	Property
10/8/15 6:38 PM	Property
10/7/15 9:50 PM	Property
10/7/15 9:52 PM	Property
10/7/15 9:12 PM	Property

Accident Details Vehicles People Photos

OCCURRED Feb 20, 2016 12:00:00 PM **CREATED** Feb 21, 2016 11:24:50 AM

LOCATION
Innove IT Plaza, Samar Loop, Gonzales Compound, Doña Rita Village, Cebu City, Cebu, Central Visayas, 6000, Philippines



LATITUDE 10.31832 LONGITUDE 123.90778

WEATHER
☁️ Partly cloudy day
Powered by Forecast

SEVERITY
Day

MAIN CAUSE
DESCRIPTION

PROPERTY
COLLISION TYPE
NUM DRIVER CASUALTIES
NUM VEHICLES
NUM PASSENGER CASUALTIES

View Edit

Going beyond Crash Data

- Uber-Grab based records of speeds based on GPS
-



Thank you for your attention

Discussion and Questions