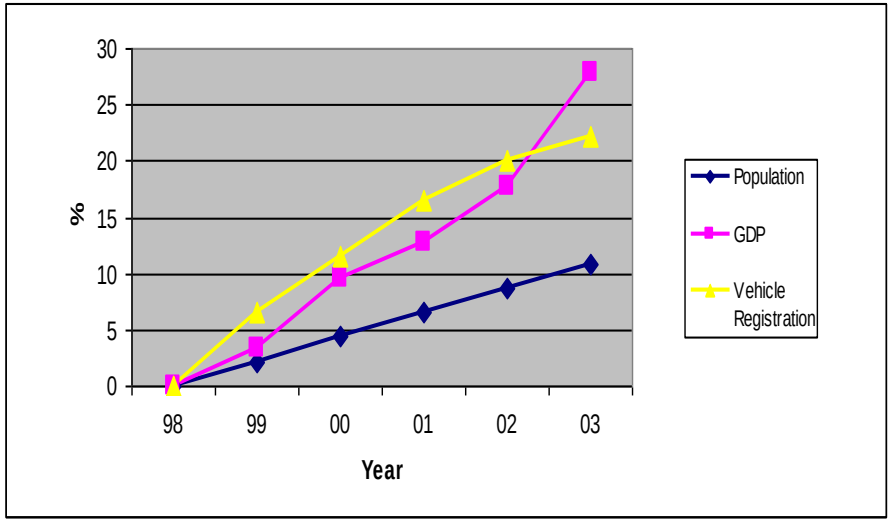
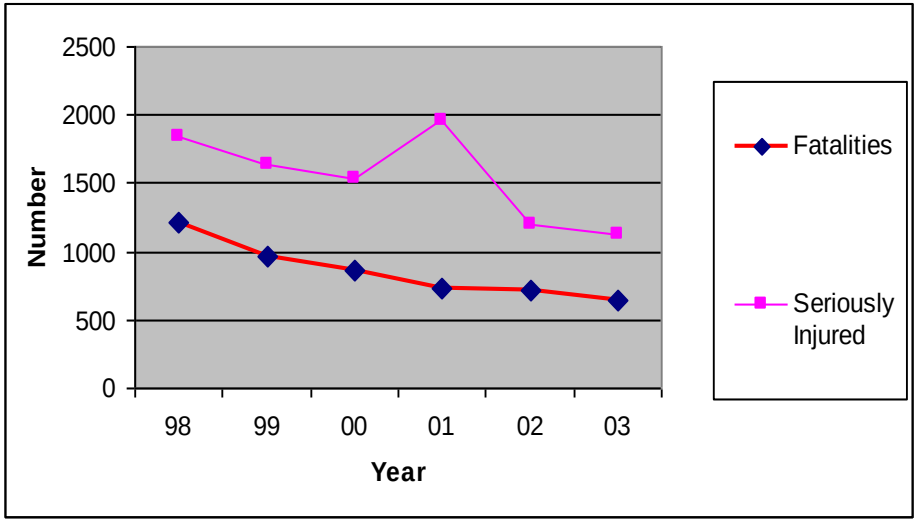
TSSP ANNUAL CONFERENCE
Panel Discussion

Ricardo Sigua
UP COE/ICE, NCTS

Road Safety Indicators





Source: TMG

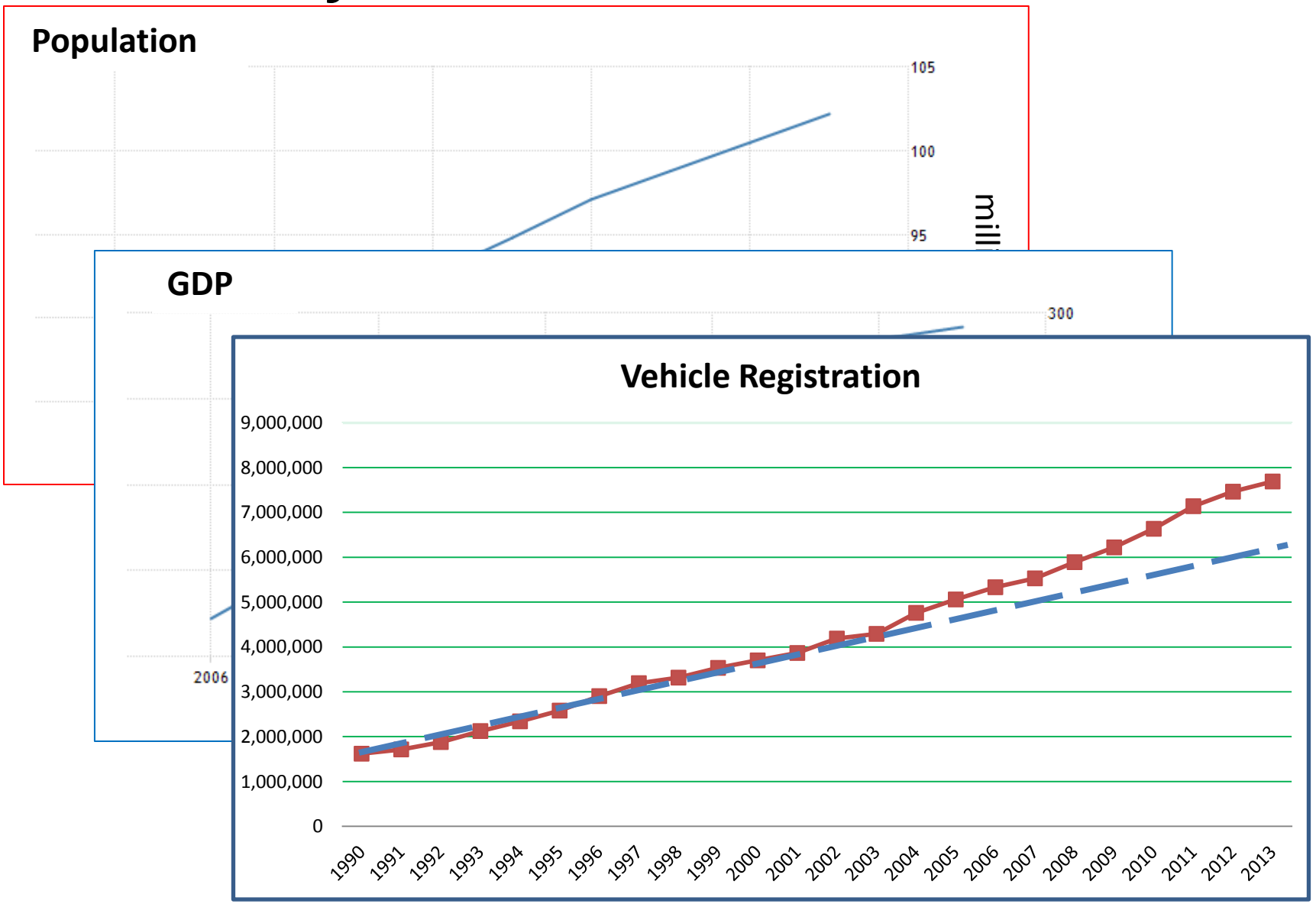
Year	Population (million)	GDP (billion P)	Vehicle Registration (million)	No. of accidents (fatal & nonfatal)	Fatalities	Seriously Injured
1998	73	888	3.3	2803	1213	1844
1999	75	917	3.5	2869	969	1637
2000	76	973	3.7	2463	866	1541
2001	78	1002	3.8	2026	737	1961
2002	80	1046	4.0	3748	714	1195
2003	81	1135	4.1	4095	644	1129

Population
GDP
Vehicles
} All Increasing.

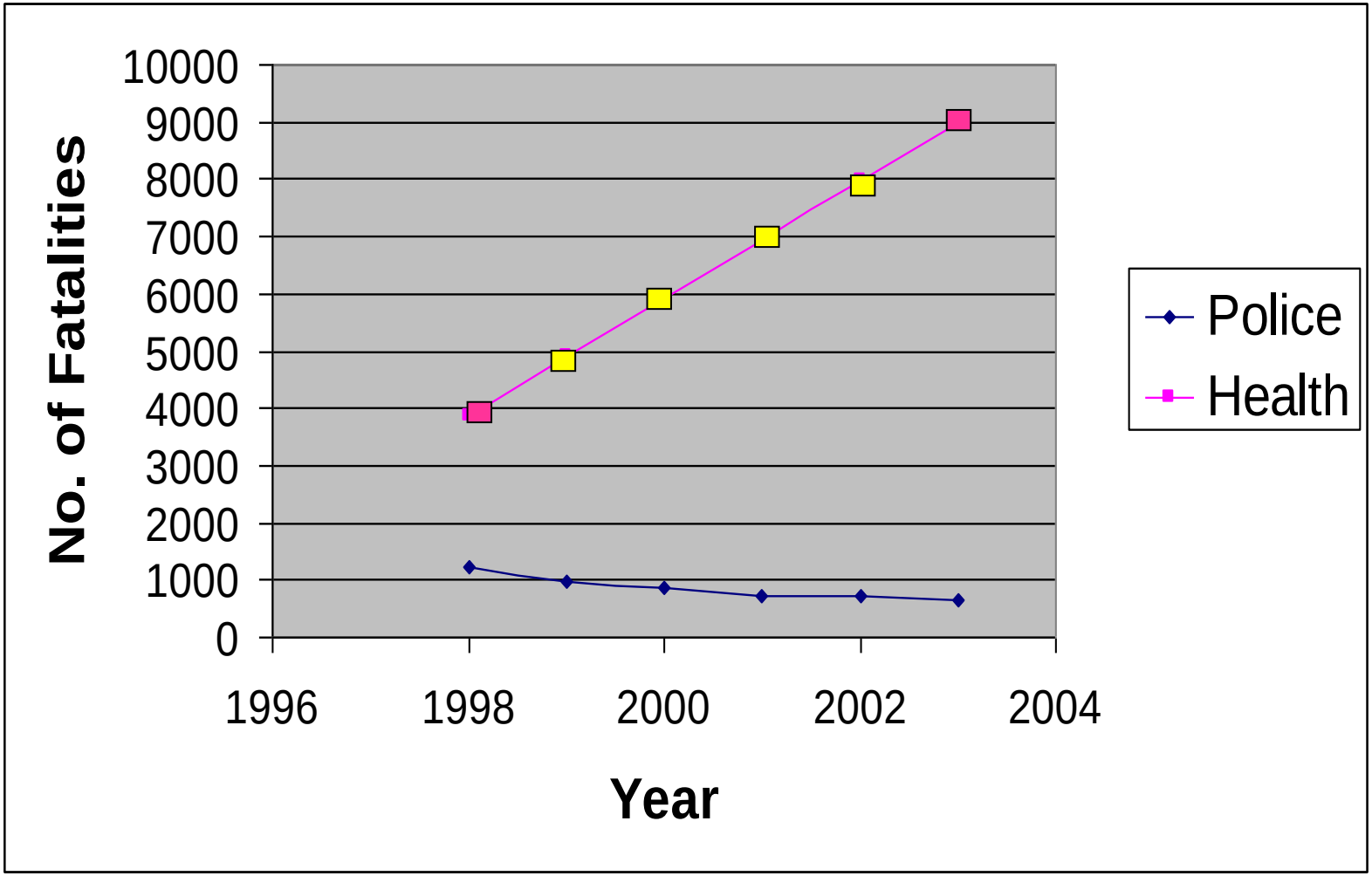
No. of Deaths/Casualties appear to be decreasing!

Is this likely??

Road Safety Indicators



Problem on Road Crash Data



National Cost of Road Crashes

Type of Road Crash	Average Cost (Pesos)	Number of Road Crashes		Total Cost (million pesos)	
		As reported (Police)	Adjusted for under-reporting	Based on reported crashes	Adjusted for under-reporting
Fatal	2,273,000	714	8,180	1,623	18,593
Serious Injury	353,000	797	93,820	281	33,119
Minor Injury	69,000	1,672	402,150	115	27,748
Damage-Only	55,000	9,623	469,090	529	25,800
TOTAL		12,806	973,240	2,548 (U$45M)	**105,260** (US$1.9B)

Source: Sigua, 2004

2.6 % of the Philippines' GDP

Basic Questions

- Who were involved? Who were the victims?
- When did it happen?
- Where did it happen?
- Why did it happen?

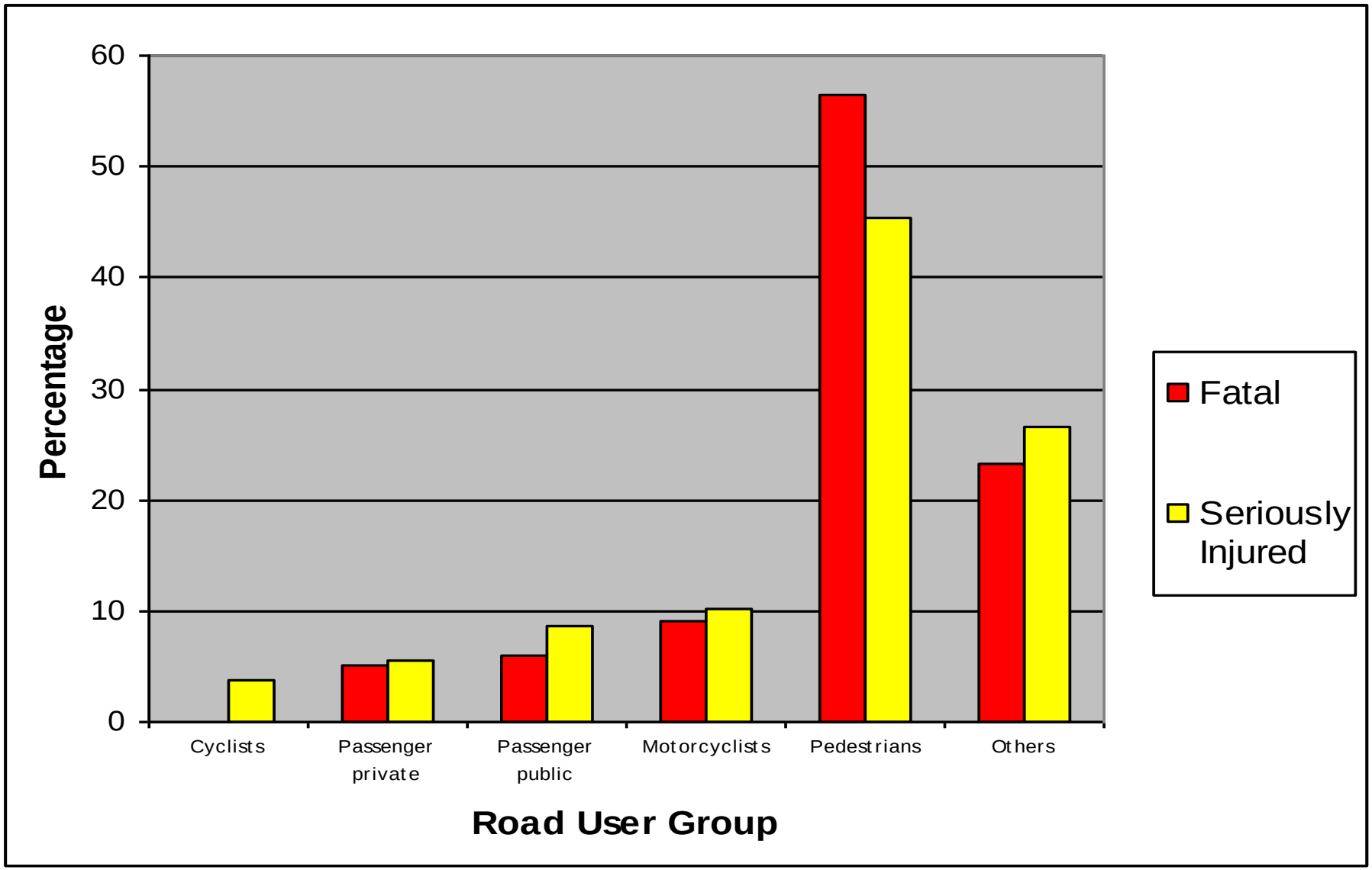
Who were involved?

Road crashes in Metro Manila, 2013

(Source of data: MMDA)

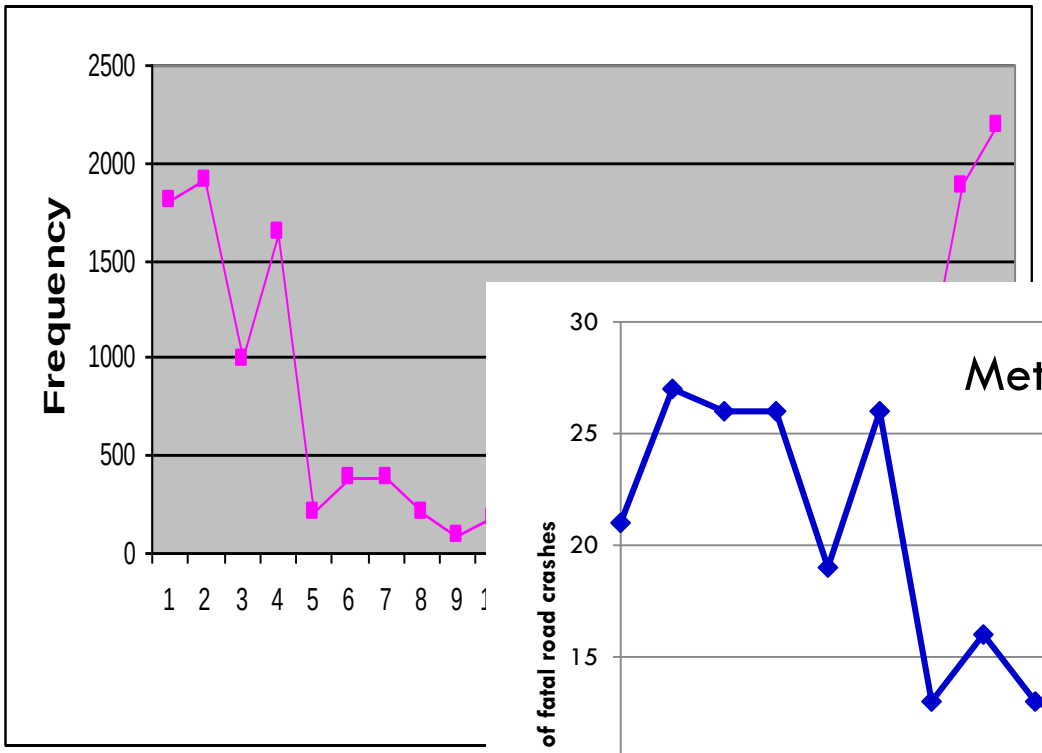
Vehicle Type	Fatal	Non Fatal Injury	Damage to Property	Total	% Fatal and Injury
Cycle-Pedicab	20	834	491	1,345	3.08
Motorcycle	**194**	**10554**	**9524**	**20,272**	**38.74**
Motor Tricycle	17	1616	2191	3,824	5.89
Car	127	6275	73516	79,918	23.08
Jeepney	51	2452	9350	11,853	9.02
Taxi / Fx	20	1887	11961	13,868	6.87
Bus	27	725	5683	6,435	2.71
Van	18	627	5396	6,041	2.32
Truck	97	1185	11714	12,996	4.62
Train	2	4	5	11	0.02
Unknown Vehicle	27	984	6021	7,032	3.64
TOTAL	600	27,143	135,852	163,595	100.00

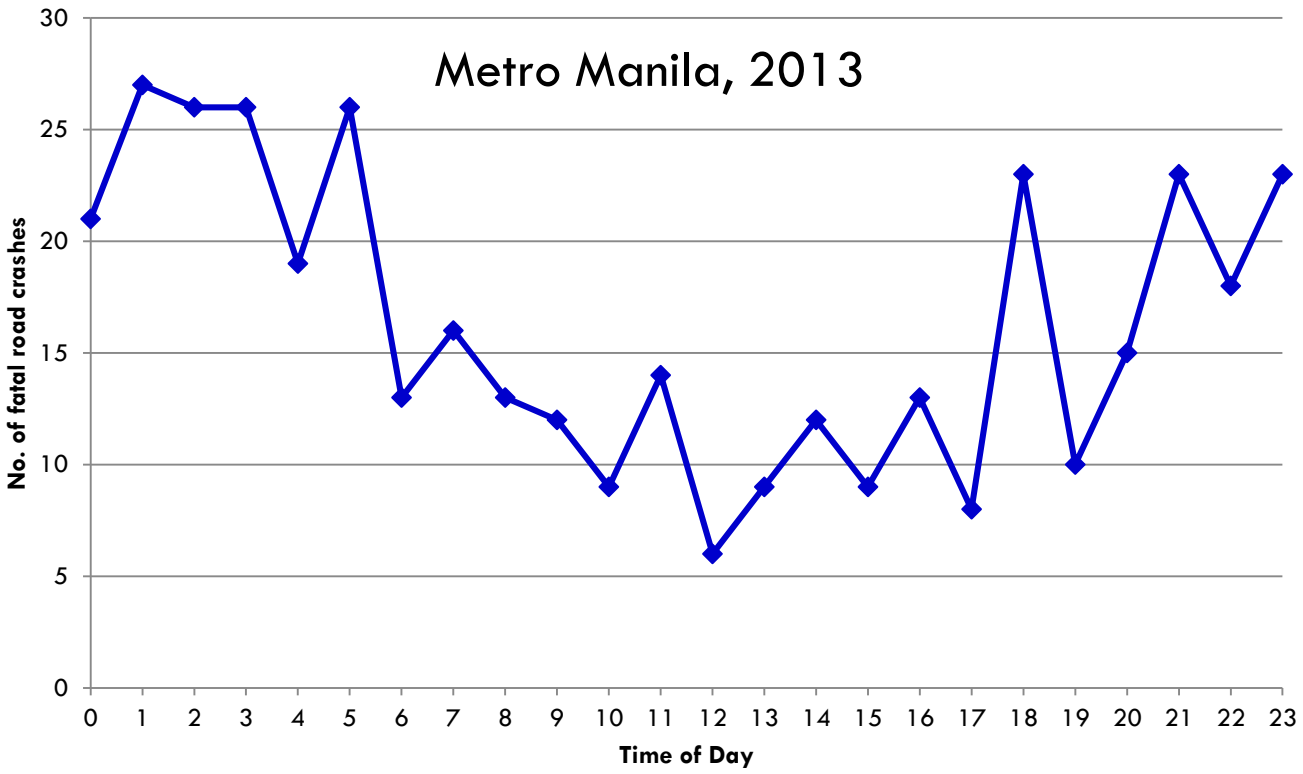
Most Vulnerable User Group (Vibal; 2001)



When did it happen?

Frequency of road crashes by time of day



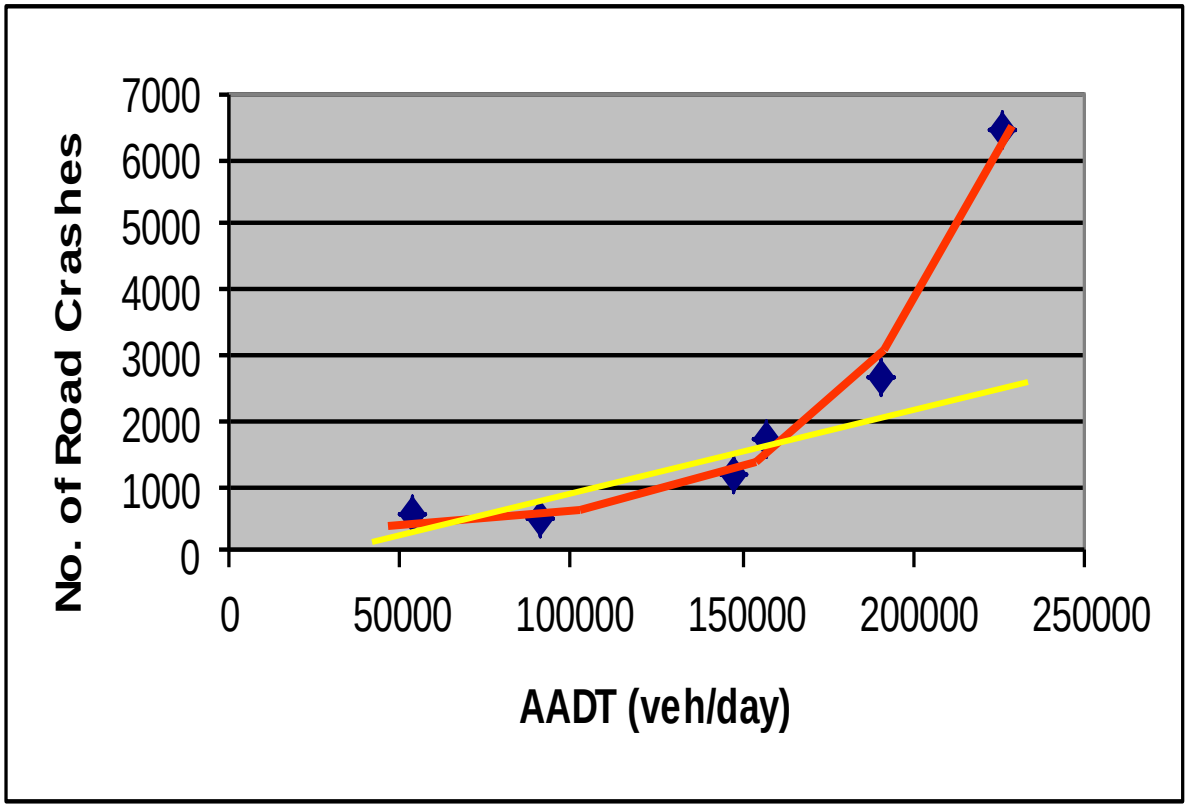


Where did they happen?

Traffic volume and crashes along arterials in Metro Manila

Arterial	AADT Veh/day	No. of crashes
Quezon Ave.	147,936	1,178
C-3	53,835	534
Commonwealth Ave.	190,491	2,628
C-5	156,938	1,745
EDSA	225,695	6,433
Marcos Highway	90,693	494

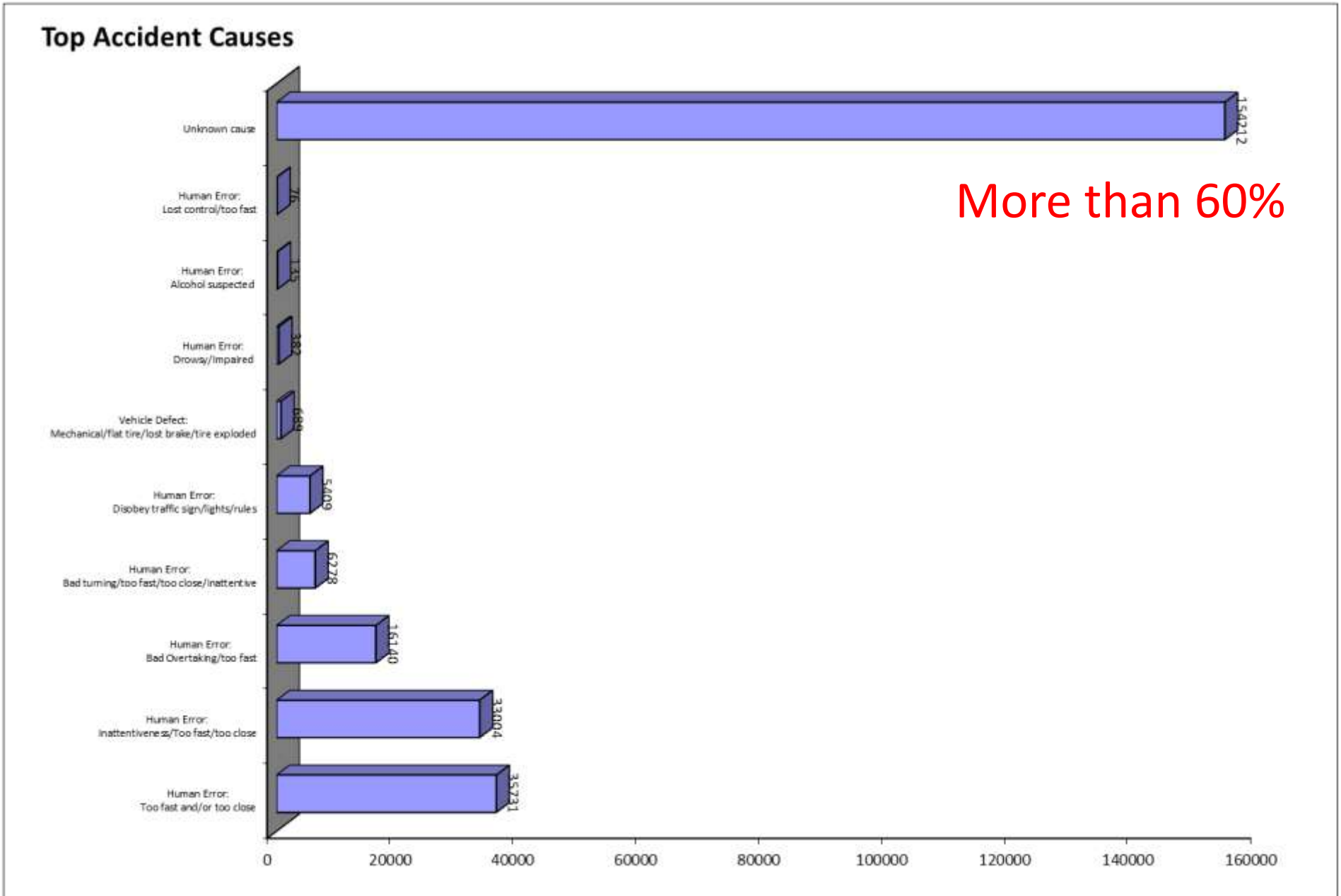
Source of Data: MMDA and TEC, 2005



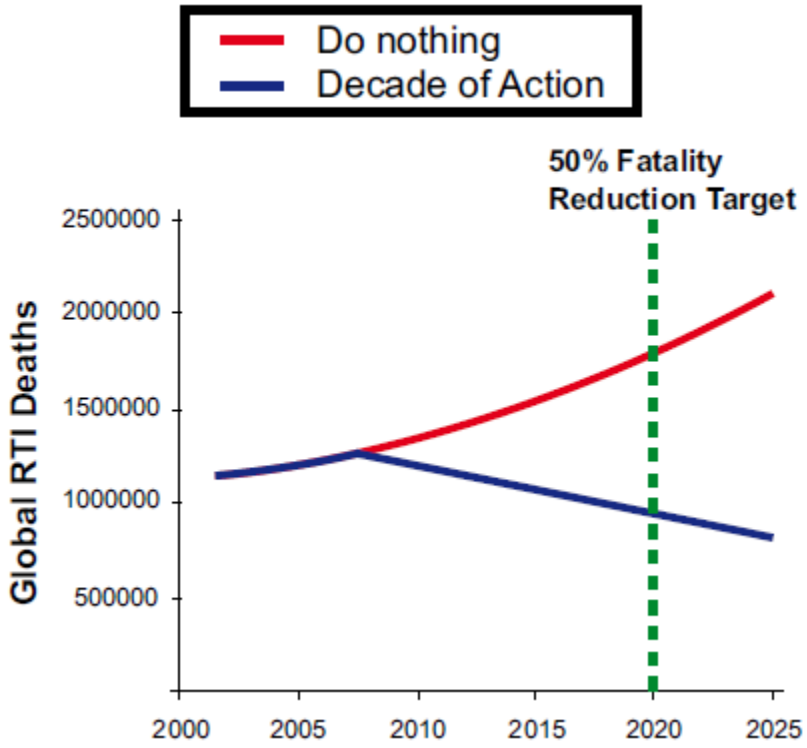
Sigua, 2005

Causes of road crashes (2005 – 2008)

Why did it happen?

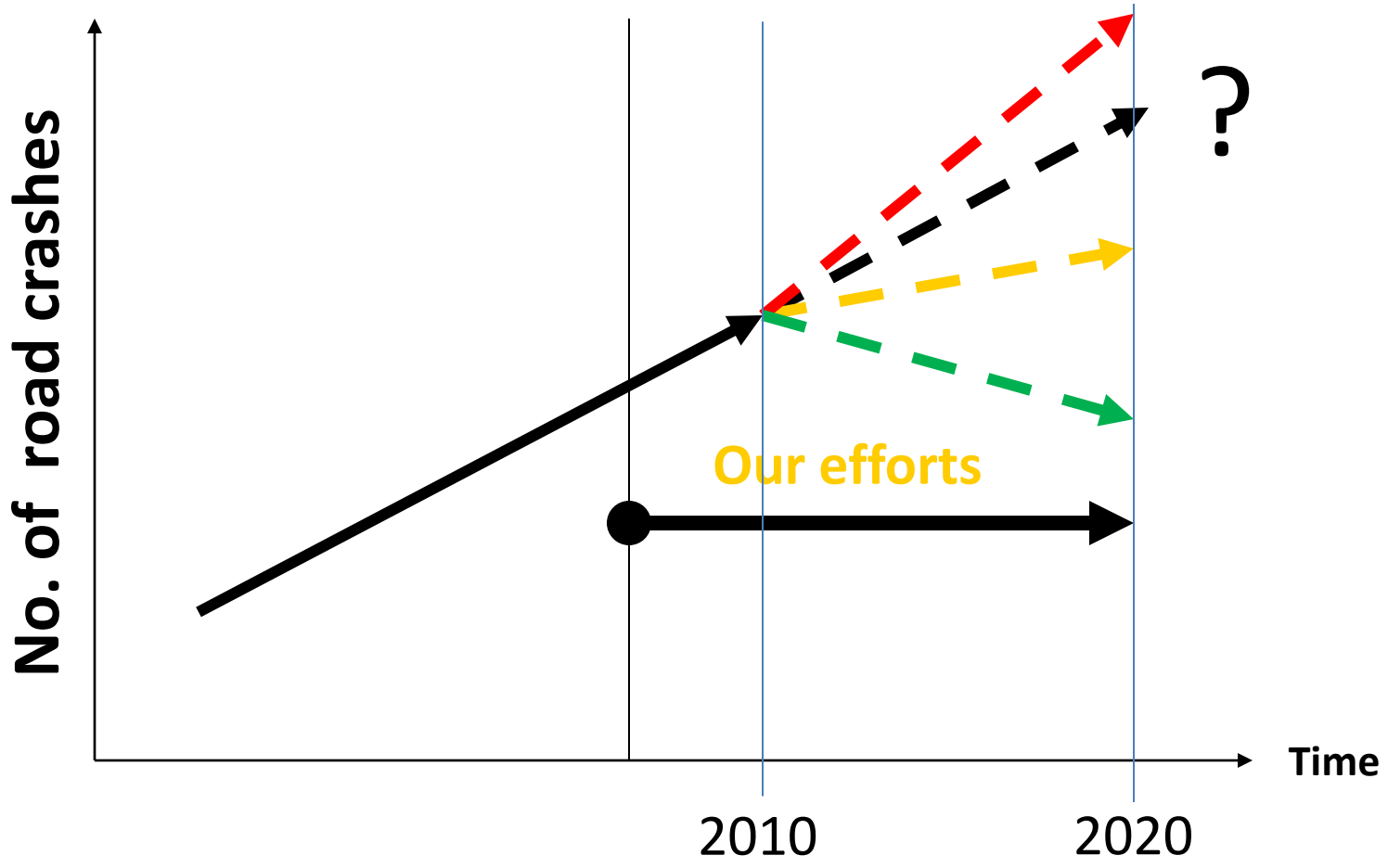


2011 – 2020 : A Decade of Action for Road Safety (UN)



100 governments/nations and the UN commit to a Decade of Action for Road Safety with the aim of reducing by 50% the projected increase in global road deaths between 2010-2020.

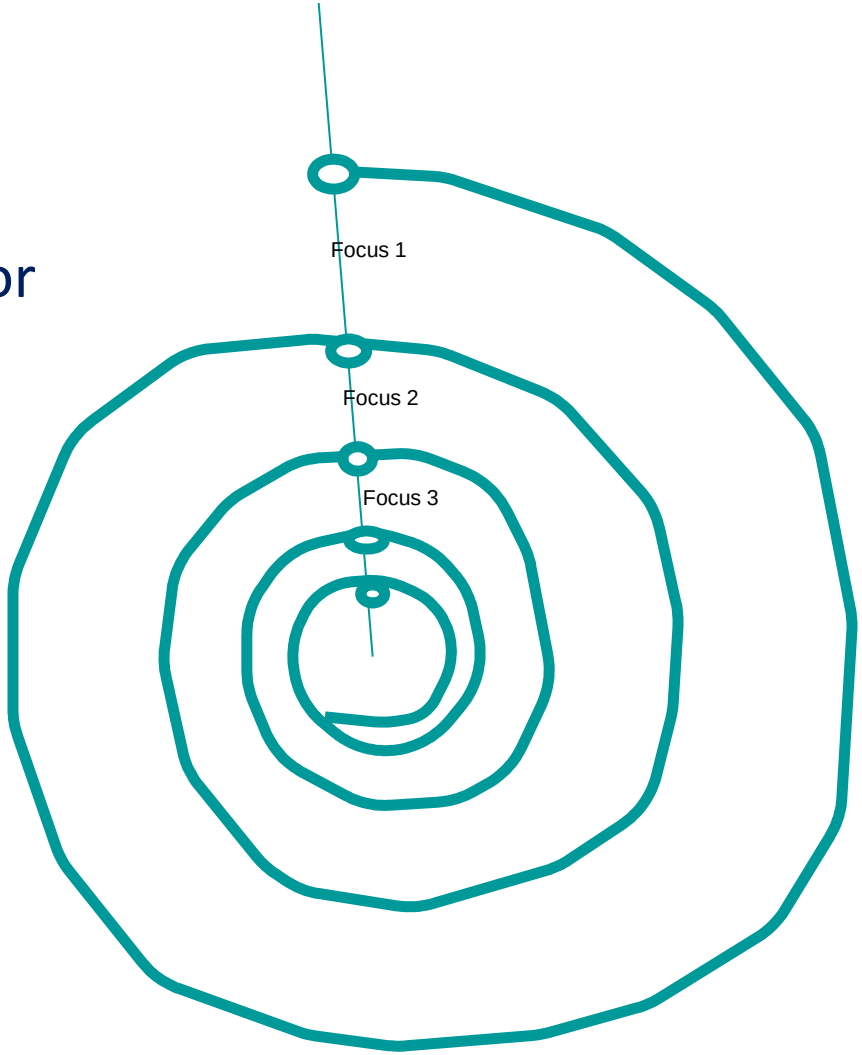
Where do we go from here?



Have Focus

Target on:

- most vulnerable user group; or
- most problematic location.



Specific Targets:

- save more than __lives over a period of __ years; or
- reduce death rate by __ % from year _ to year _.