

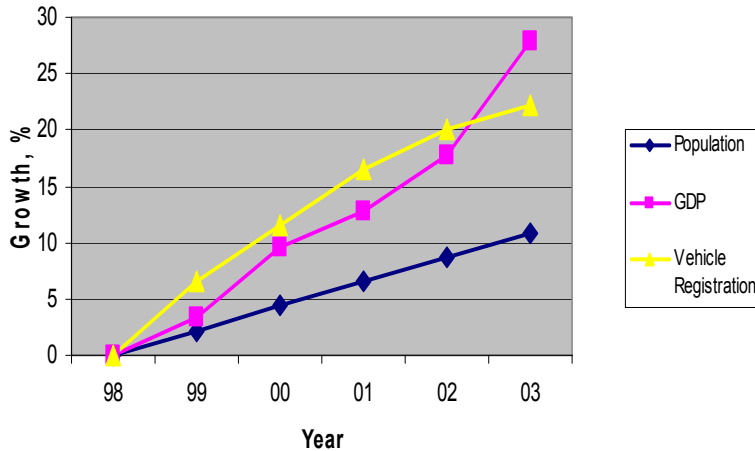
*Road Safety Conference
Heritage Hotel*

Data Management System

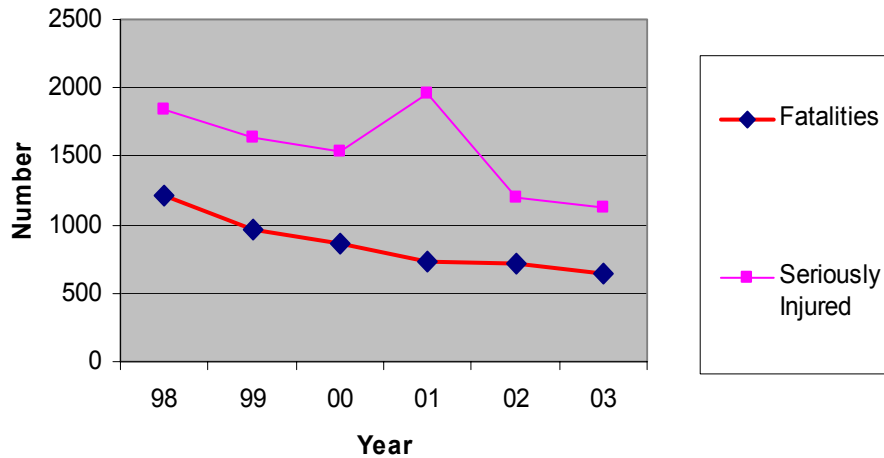
Ricardo G. Sigua, PhD.
UP COE/NCTS

November 20, 2008

SCALE OF ROAD SAFETY PROBLEM



| 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 } All
 GDP } Increasing.
 Vehicles }

No. of Deaths and Casualties appear to be decreasing!

Is this likely ??

For every 1 death only 1.7 serious injuries . Likely ??

Leading Causes of Injuries

(Lim-Quizon, et al., Philippine National Injury Survey, 2003)



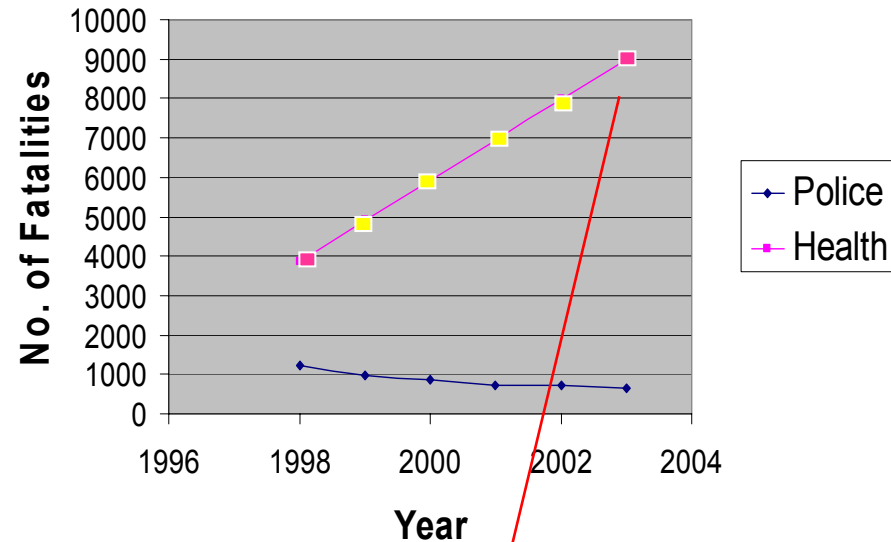
HIGHWAY MISHAP A 10-wheel truck loaded with animal feeds, bearing plate number PVR-10E and driven by Jerry Leona, 38, of Calamba Laguna, is in shambles after it ranned a house on South Luzon highway near Vito Cruz, San Pucran, Manila at 11:30 last Monday evening. A bicyclist riding 28-year-old man identified as Renato Alvarez, of Soc. ardres, Manila was pinned to death by the truck. The driver said that he lost control of the vehicle when its tire burst down. (PPI 5/2/03 17.)

1. **Vehicular accidents**
2. Fall
3. Injured by sharp objects
4. Struck by an object
5. Animal/insect bites
6. Burn
7. Assault
8. Machine/tool injury
9. Electrocution
10. Self-harm

Problem on Accident Reporting



• **Gross under-reporting of accidents!**



Bank se
officers examine
a Toyota Corolla
involved in an
accident along
the service road
in front of the
Bangko Sentral
ng Pilipinas in
Malate, Manila
yesterday. The
car hit a Toyota
Tamaraw FX
which then
smashed into
several parked
vehicles. The
incident caused
heavy traffic in
the area.
BERNARDO
SATUCAS



■ **9,000 road accident fatalities in CY 2003!!!**

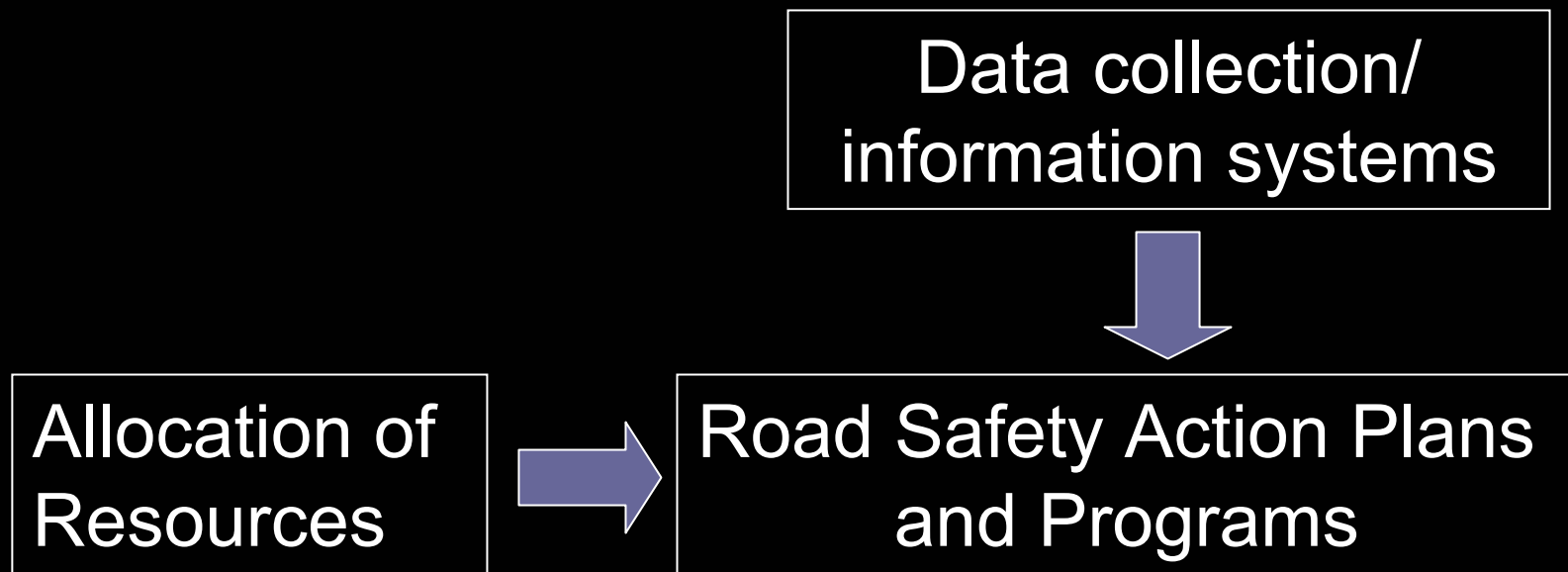
Record of Road Accident Fatalities and Injuries in ASEAN Countries

(Source of Data: ASEAN Region Road Safety Strategy and Action Plan, 2004)

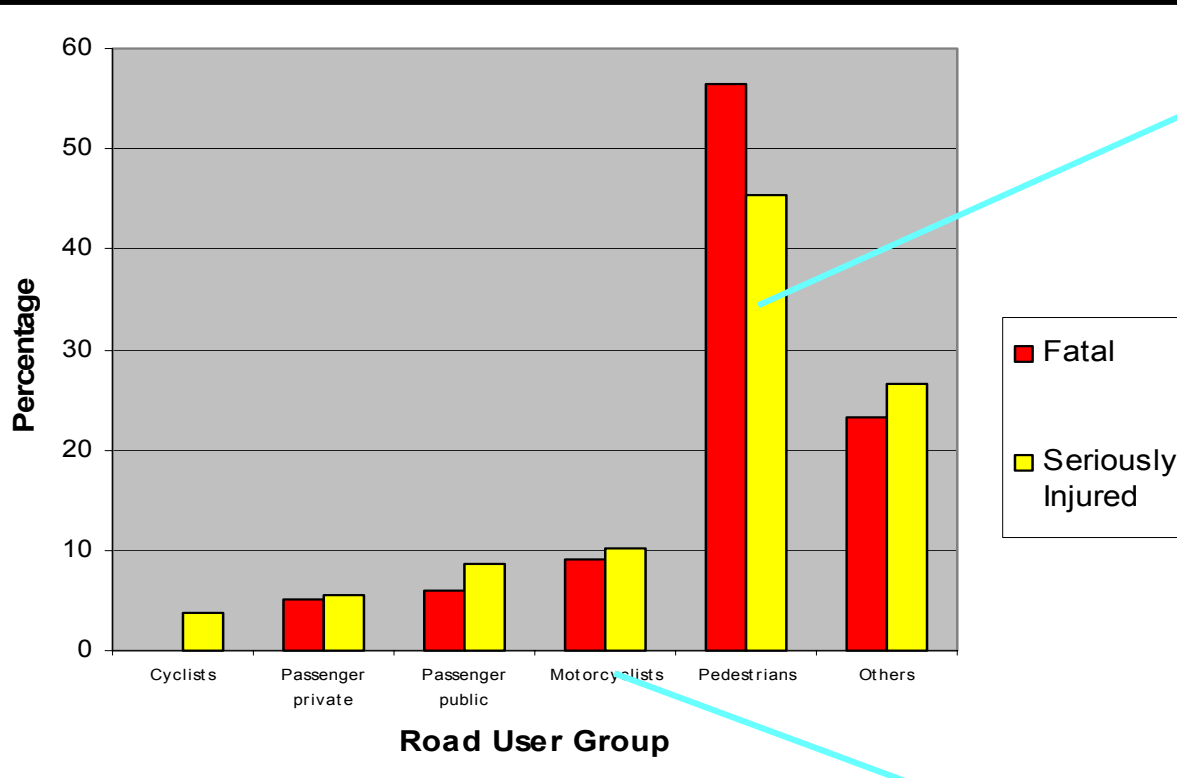
| Country | Reported by Police | | Estimated | |
|-------------|--------------------|----------|------------|-----------|
| | Fatalities | Injuries | Fatalities | Injuries |
| Brunei | 28 | 645 | 28 | 1,273 |
| Cambodia | 824 | 6,329 | 1,017 | 20,340 |
| Indonesia | 8,761 | 13,941 | 30,464 | 2,550,000 |
| Laos | 415 | 6,231 | 581 | 18,690 |
| Malaysia | 6,282 | 46,420 | 6,282 | 46,420 |
| Myanmar | 1,308 | 9,299 | 1,308 | 45,780 |
| Philippines | 995 | 6,790 | 9,500 | 774,000 |
| Singapore | 211 | 7,975 | 211 | 9,072 |
| Thailand | 13,116 | 69,313 | 13,186 | 1,529,034 |
| Viet Nam | 11,319 | 20,400 | 13,186 | 31,000 |
| Total | 43,259 | 187,343 | 75,763 | 5,025,609 |

Serious Under-Reporting

Key Areas Towards Improving Road Safety



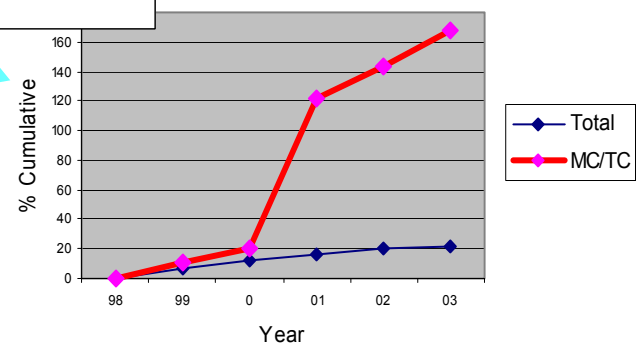
Most Vulnerable User Group (Vibal; 2001)



Pedestrian casualties below 15 years old:
Fatal : 24%
Seriously Injured: 37%

Another growing concern!

Rate of Increase of Motorcycles will add to the safety problems



Improvement of Pedestrian Accident Database

Information needed by engineers and planners to address specific pedestrian hazards and high-accident locations:

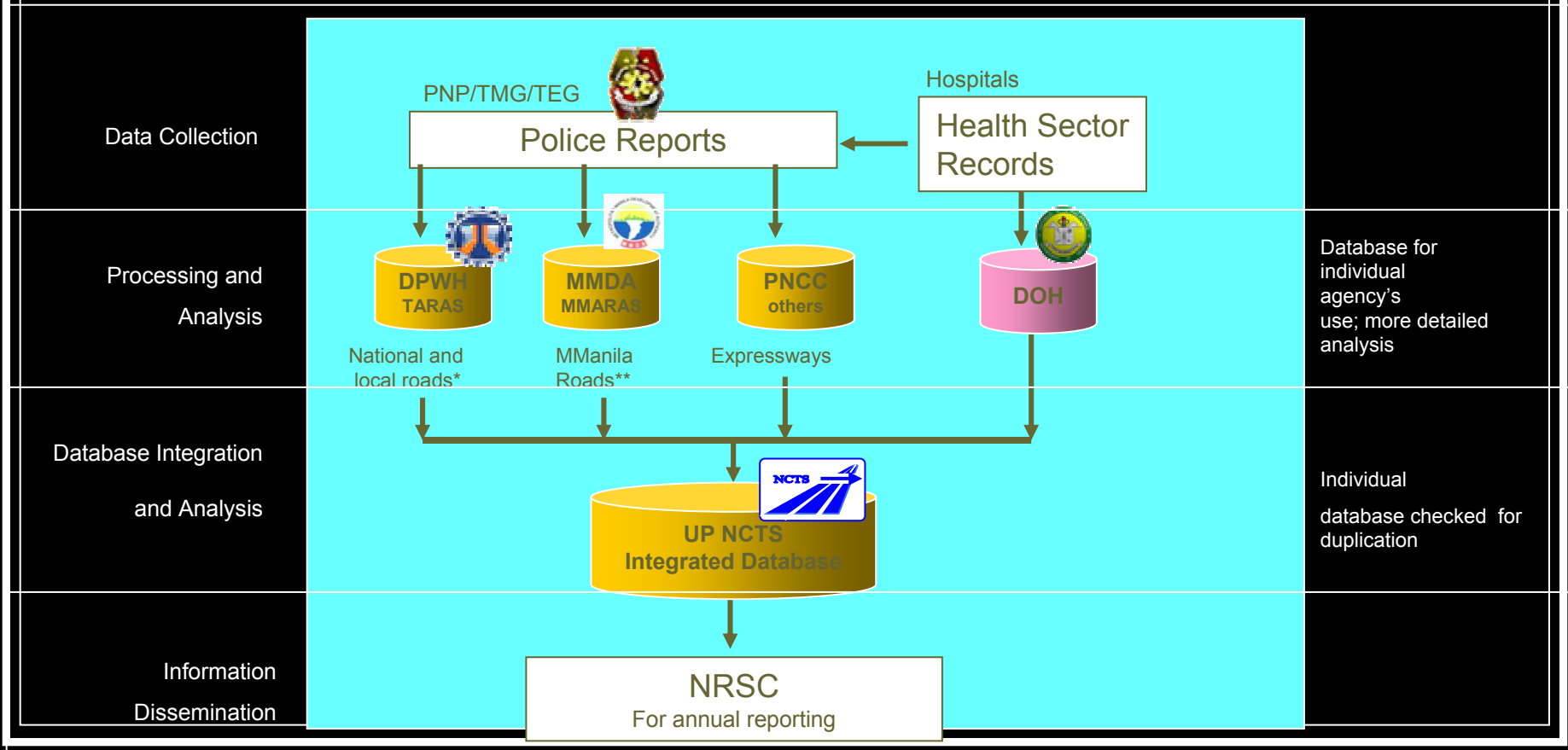
- *where* the pedestrian crashes occurred (city, street, intersection, two-lane road, etc.)
- *when* they occurred (time of day, day of week, etc.)
- *characteristics* of the victims involved (age, gender, injury severity, etc.), and
- *events* that led to the crash (child chasing ball onto road, motorist swerving around a parked car, etc.).

Data Collection/Information Systems

Issues and Concerns:

- Coordination among agencies
- Health sector data
- Integration of all accident data
- Sustainability

PROPOSED INTEGRATED TRAFFIC ACCIDENT DATA MANAGEMENT SYSTEM



*Local roads in database only; **presently covers fatal and serious accidents only

Thank you!