

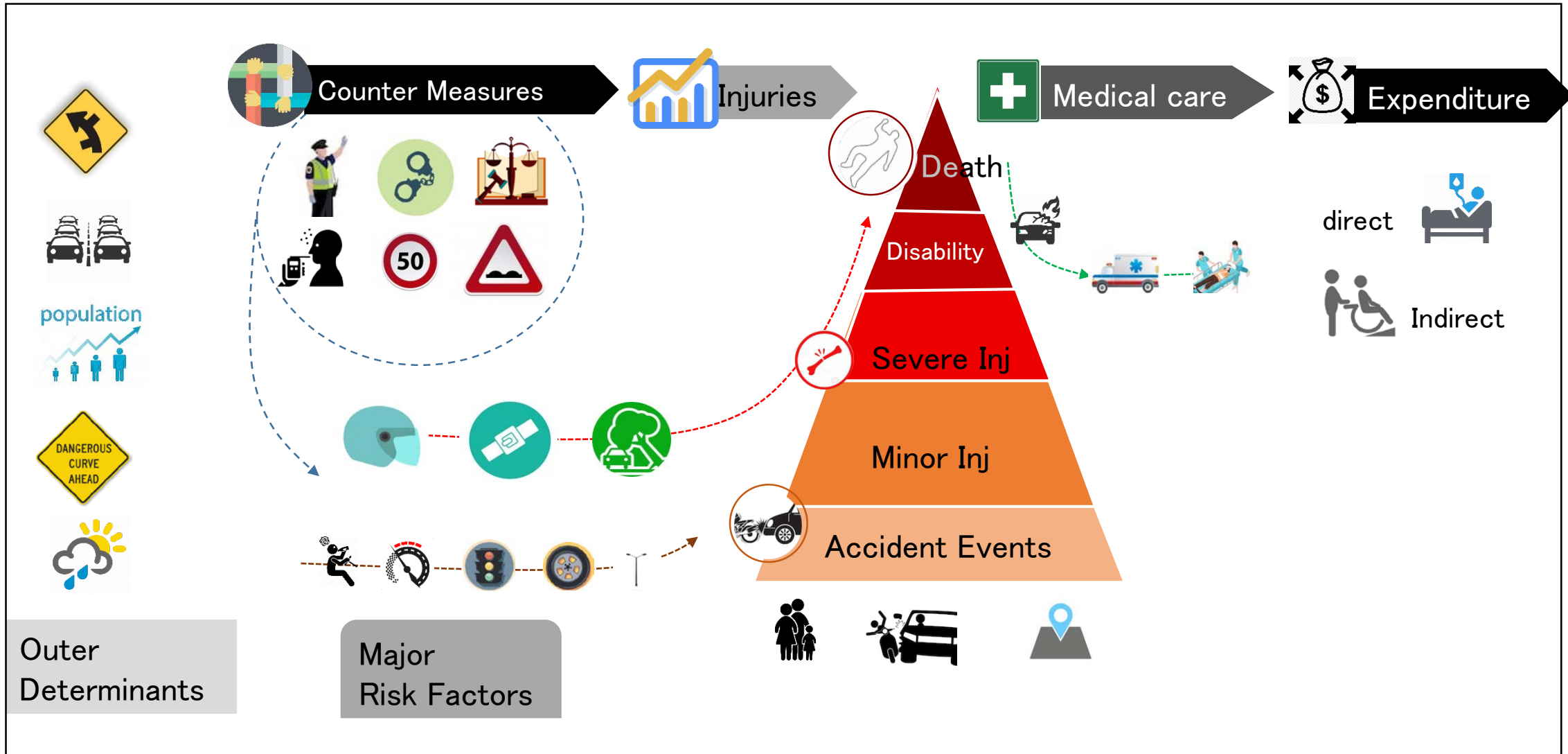


**Motorcycle accident**

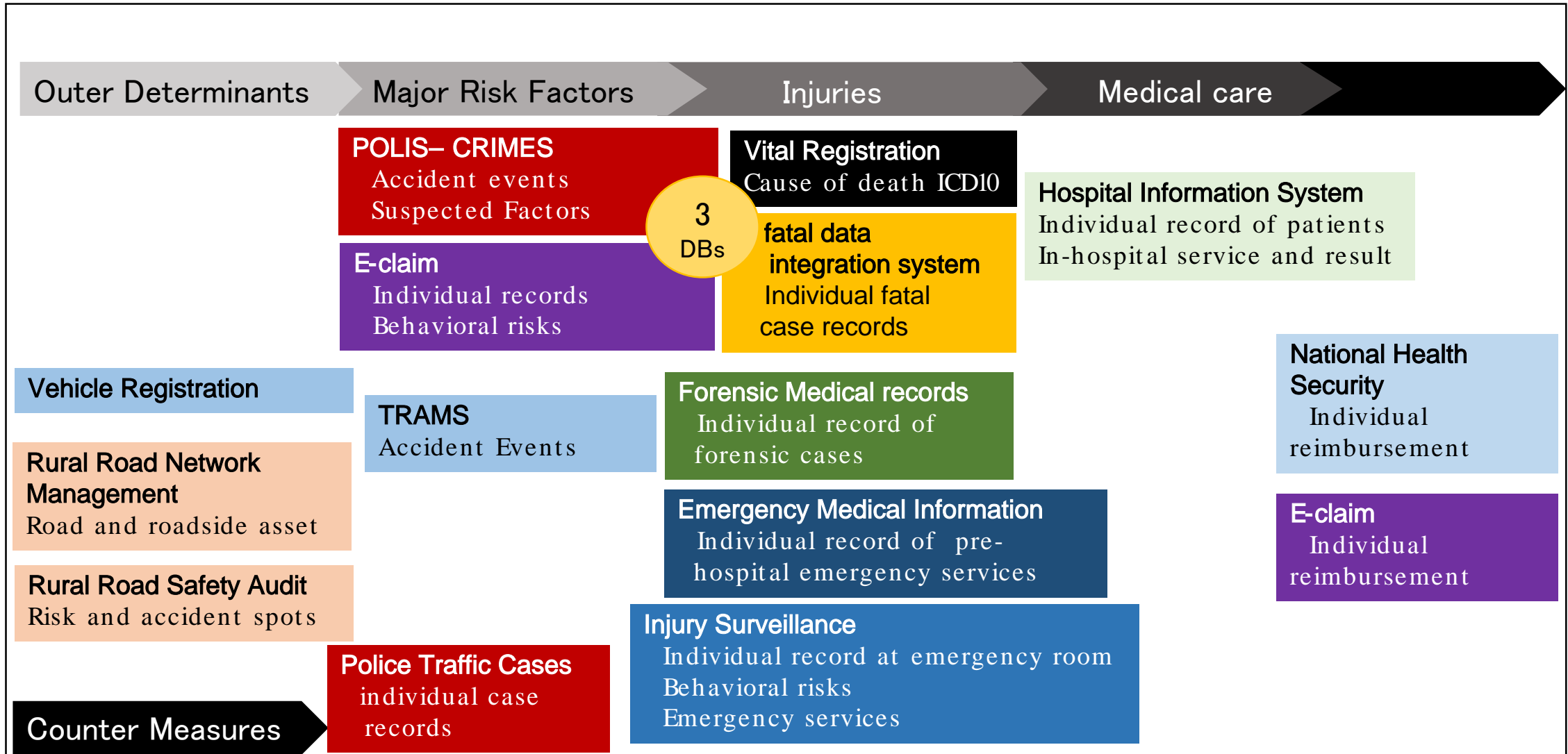
**Data & Information**

**Thailand  
Experience sharing**

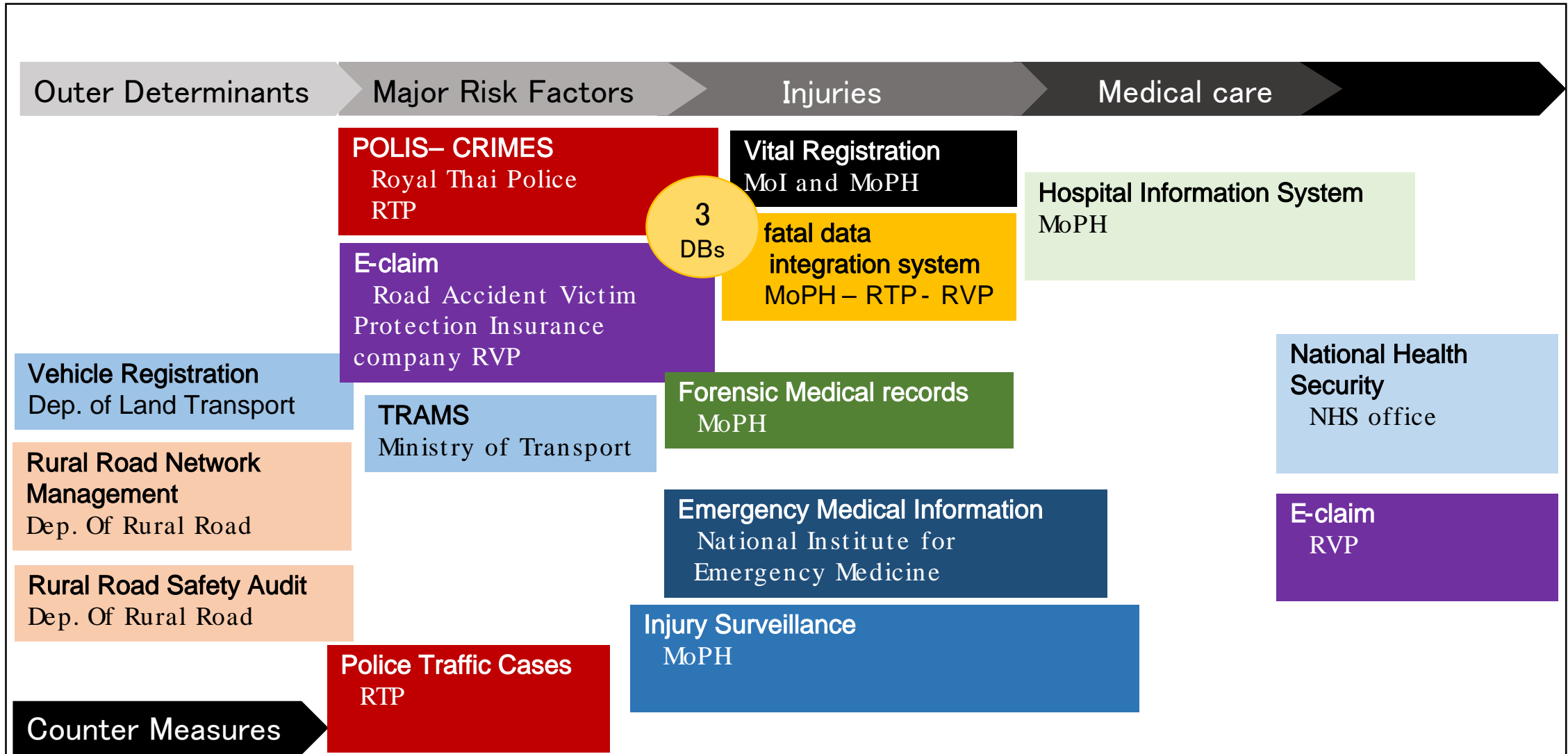
# Accident picture frame



# Accident picture frame and DATA



# Accident DATA – Collectors–Manager

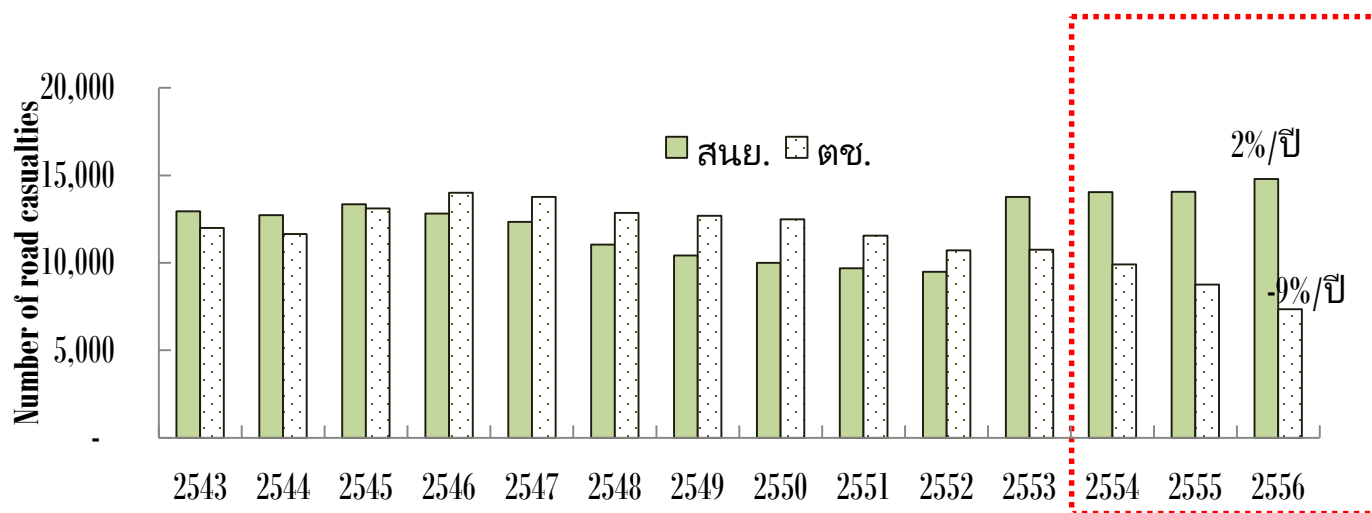
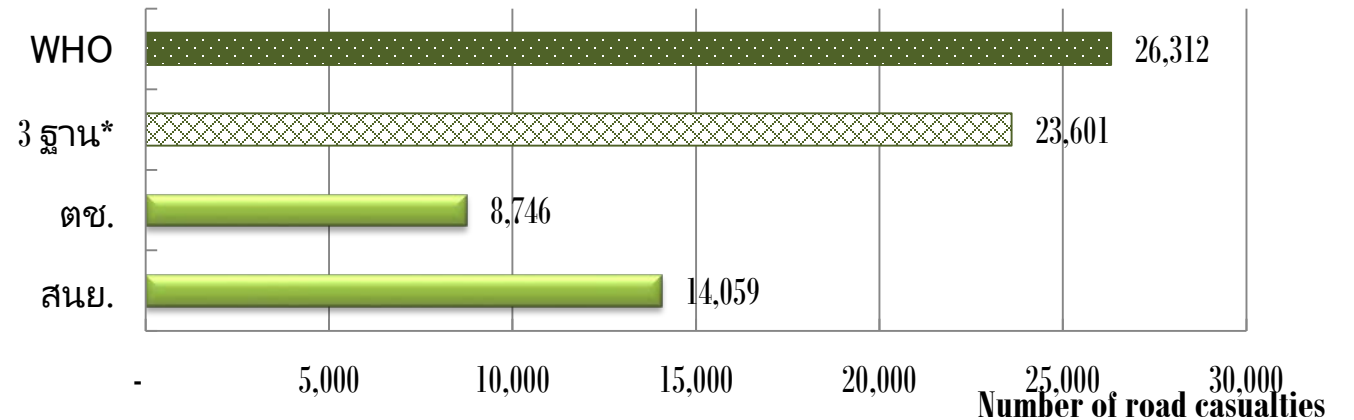


# Accident Related Databases

Data	Source
Police Information System (POLIS)	Royal Thai Police
TRAMS	Ministry of Transport
E-Claim	Road Victim Protection Company
Injury Surveillance (IS)	Ministry of Public Health
Trauma Registry	Ministry of Public Health
19 External Causes of Injury	Ministry of Public Health
Information Technology for Emergency Medical System (ITEMS)	Emergency Medical Institute of Thailand
Emergency Claim Online (EMCO)	National Health Security Office
OP/PP Individual Record	National Health Security Office
Death Certificates	Ministry of Public Health

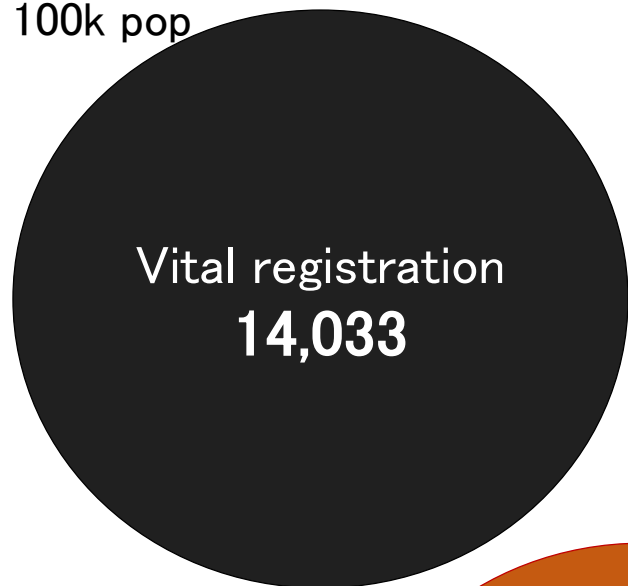
# Road Accident Casualties – the Data

- There are three database on road accident casualties, namely the Royal Thai Police (RTP), the Ministry of Public Health (MoPH) and Insurance Company.
  - Since 2011, road accident casualties from MoPH database had an increasing trend, but data from RP had decreased.

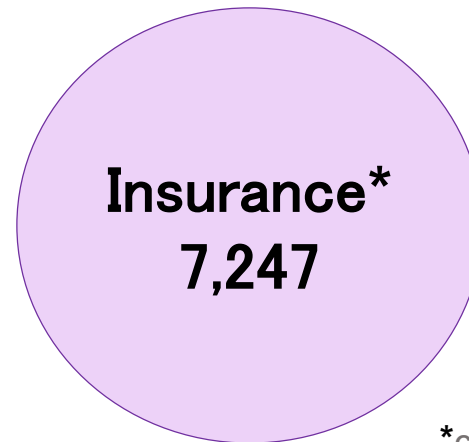


# Road traffic fatality in Thailand 2011

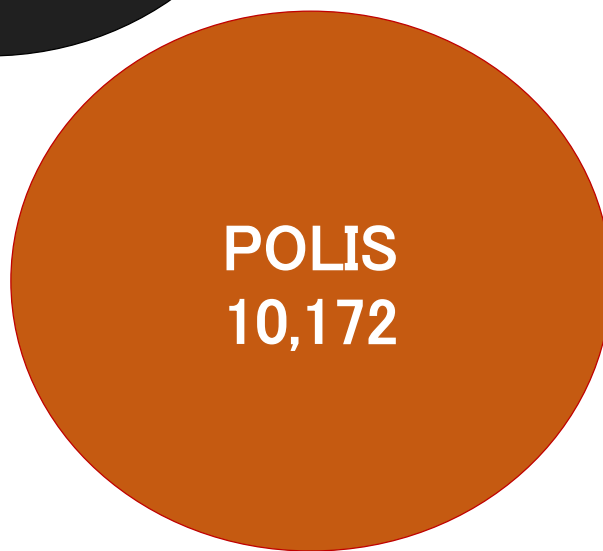
**21.86** / 100k pop



**11.29** / 100k pop



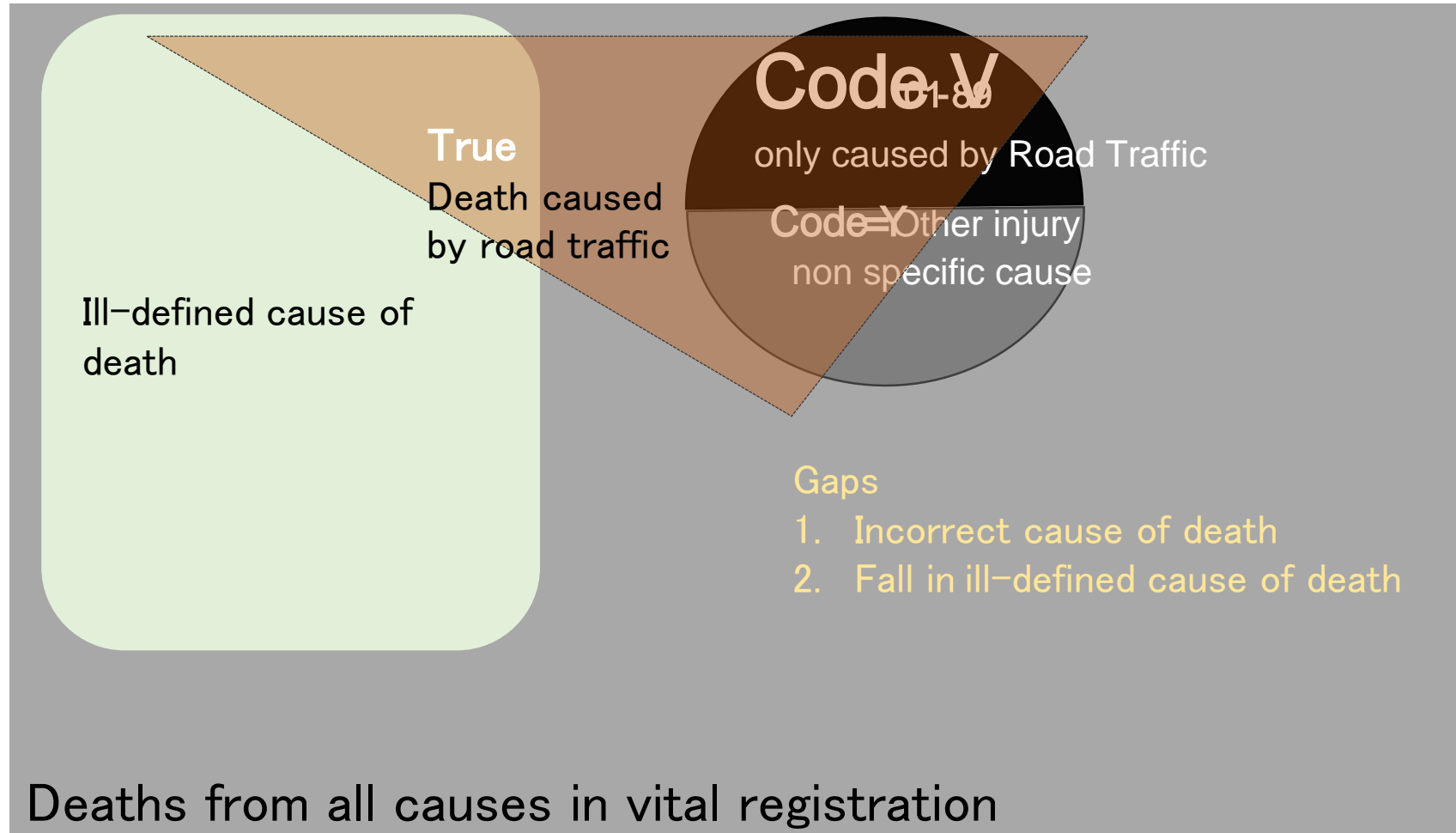
\*central insurance company



**15.85** / 100k pop

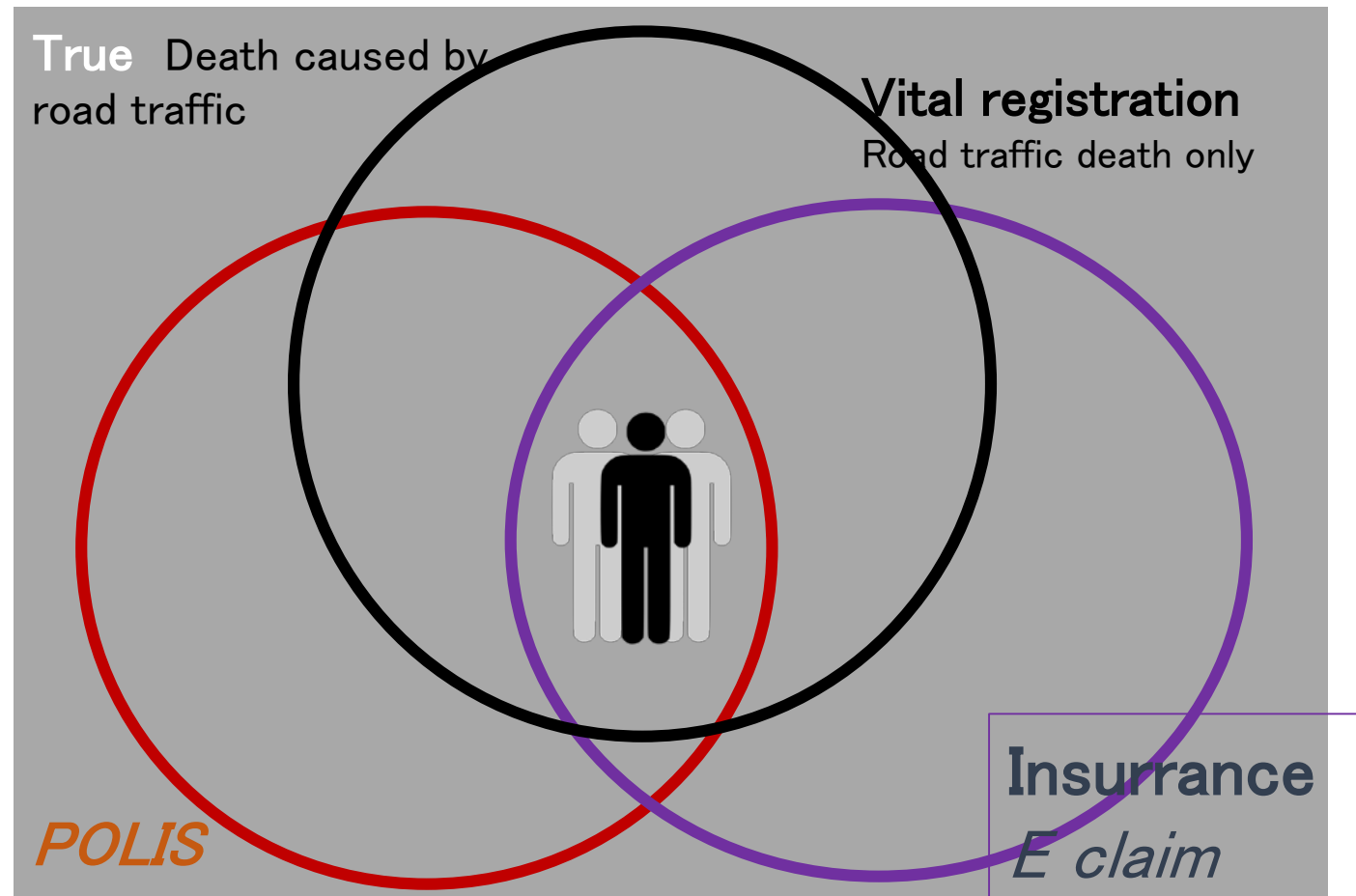
# Problem issue

## road traffic accident cause of death





# Super simple concept data integration



# UnionAlgorithm

## Case definition

more database

dead case found in 1 or

## Steps

Run data union, step by step

Each matched (duplicated) cases are counted as 1 record

The matched cases are separated from the pool after

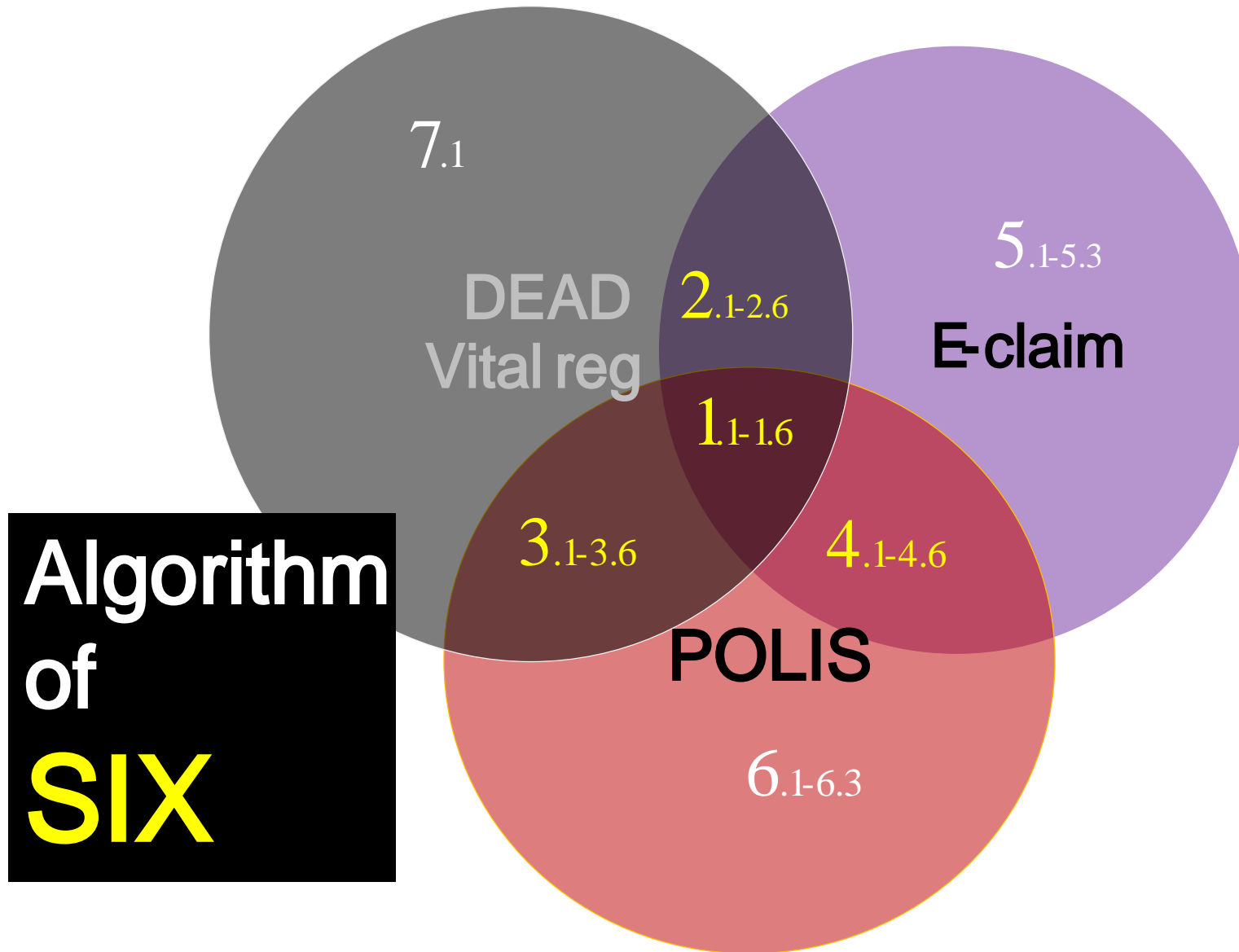
each

## Algorithm<sup>p</sup> of SIX

1. NID number and Date
2. NameSurname and Date and Province
3. NameSurname and Date
4. NameSurname and Province
5. NID number

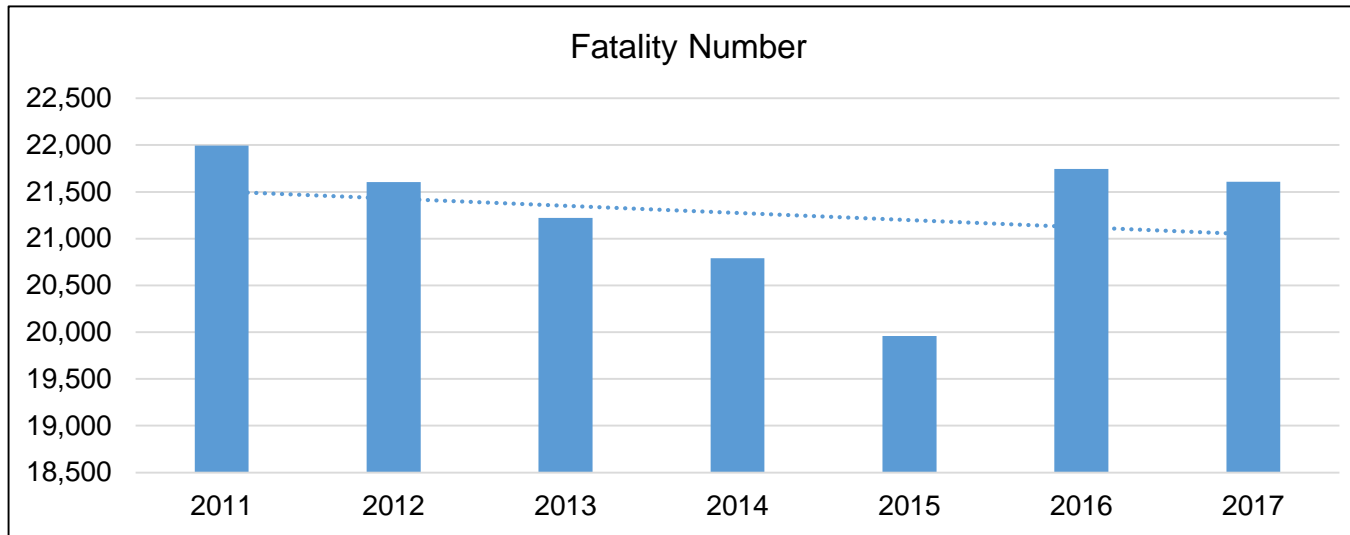
Counting steps

Sum of **7 segments**

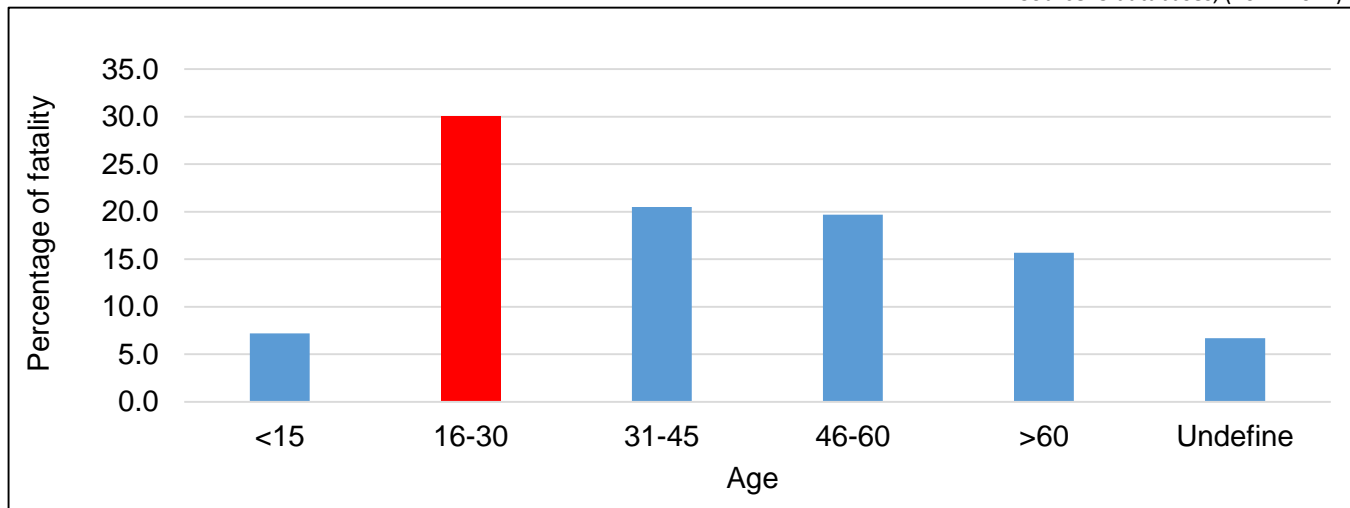


Algorithm  
of  
**SIX**

# Accident Data in Thailand – 3DBs



Source: 3 databases, (2011-2017)



Source: 3 databases, (2017)

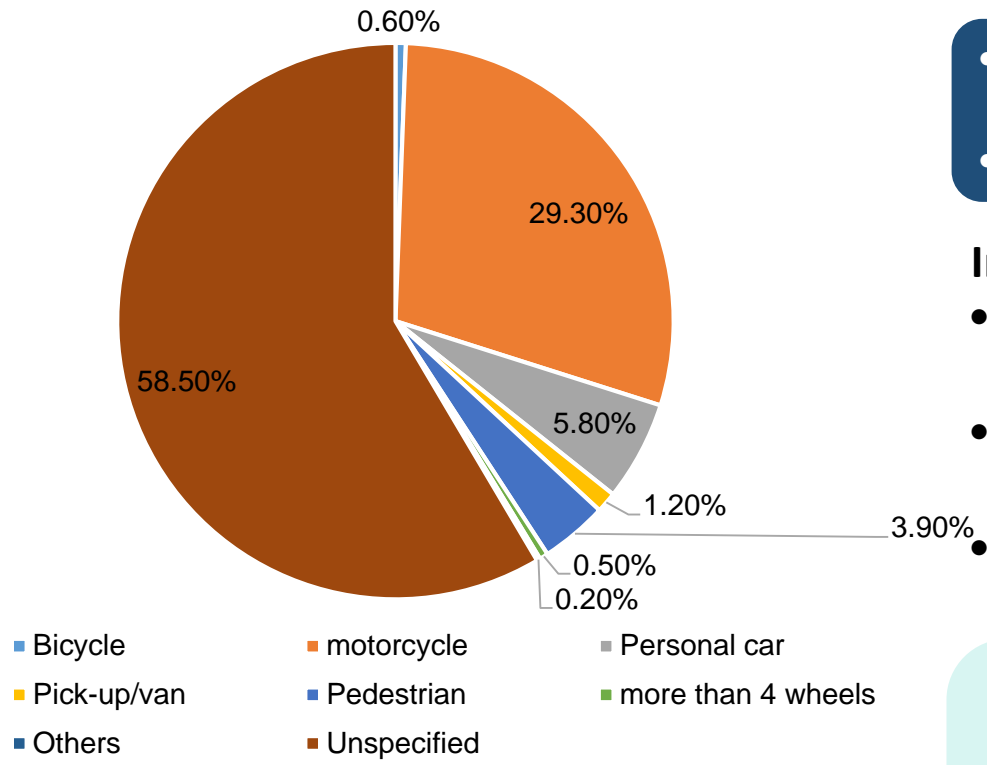
Road traffic accidents have emerged as an important public health issue

Although the trend in death is decreasing, the fatality number is still high

♂ Male 74.0 %  
♀ Female 19.6%  
(Missing 6.4%)

# Example of Accident Data in Thailand

Death by Road Users



- Considering of specified data, Motorcycle is major vehicle type of accident (71% of specified data)
- The unspecified data is more than 58%

### Important safety information

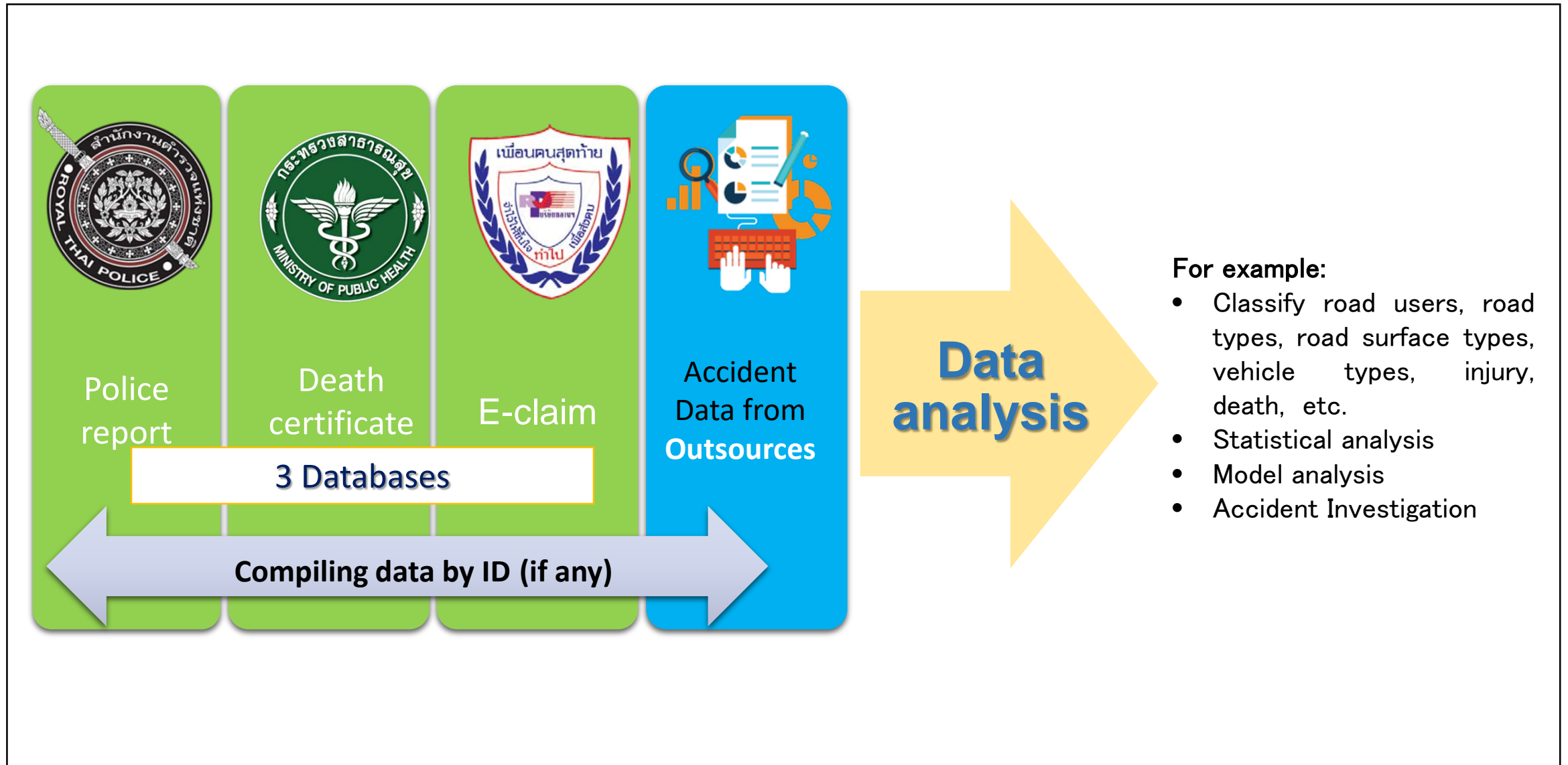
- Exposure information: traffic volume, population data, weather, place, date, time
- Intermediate results: average speed, safety devices and driving levels, network, and car safety quality
- Final outcome data: death and injury

**The establishment and improvement of accident data systems are necessary**

Source: 3 databases, (2017)



# How to work in the next step?



# Final Remarks

Accurate data is essential to inform policy makers.

- Incorrect data mislead policy makers, which in turn causing the budget allocation problem

Multi-agencies data integration is very difficult but achievable

Data analysis will be crucial for the next step