2007.4.10

#### Informal Meeting of Cab Strength

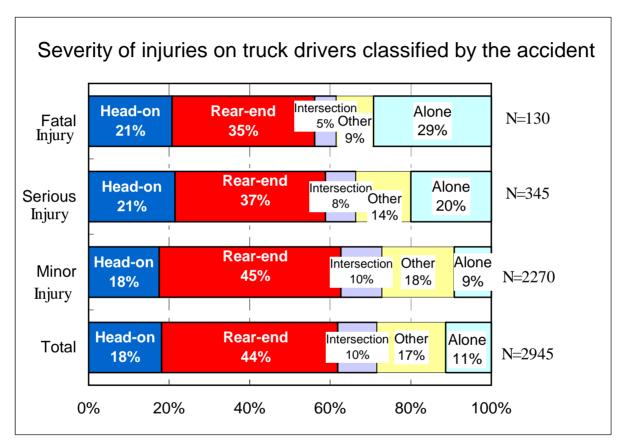
### Overview of Truck Accidents in Japan

(Current materials concerning truck accidents)





### Accident type of truck driver



National traffic accident data in 1995.

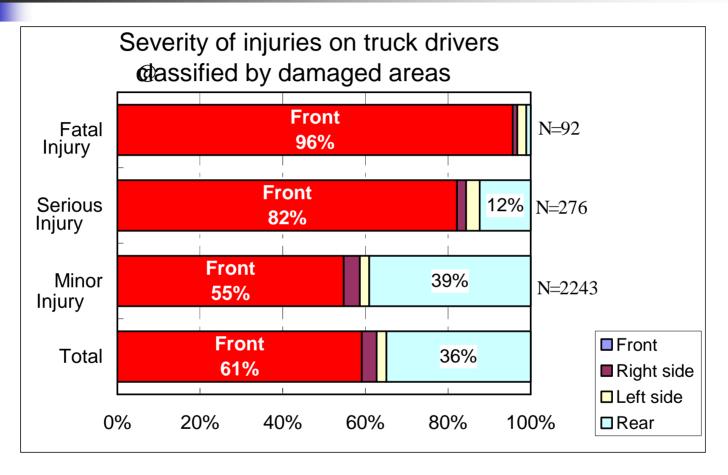
\*Object truck model: 12ton < GVW

\* Except 3rd concerned truck in pile up accidents.





## Collision part of truck



.National traffic accident data in 1995.

\*Object truck model: 12ton < GVW

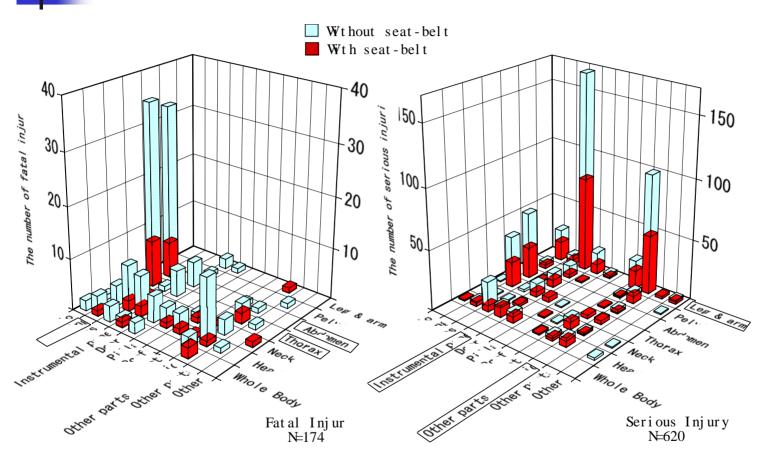




<sup>\*</sup>Vehicle to vehicle collision except 3rd concerned truck in pile up accidents.



### Injury region and contact point



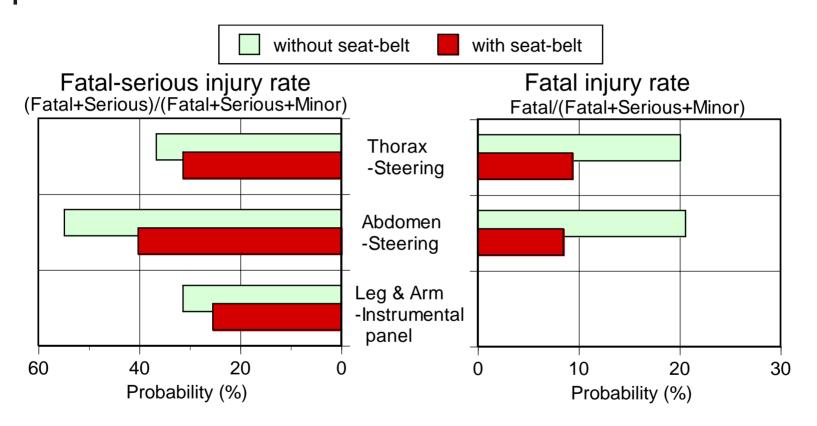
National traffic accident data in 1992-96.

\*Hear-on and Rear-end collision accidents





# Effect of wearing seatbelt



National traffic accident data in 1992-96.

\*Hear-on and Rear-end collision accidents





# In-depth data

- JAMA investigated HGV rollover accidents by using the in-depth data of Japan highway Safety Center (JHS).
- JHS collects a HGV accidents around the Toumei-highway.
- Rollover data: 55 vehicles(1997-2005)
  Nagoya

Data collectimg aria

Toumei-highway

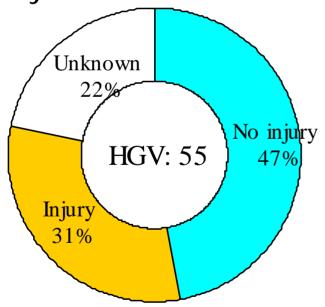


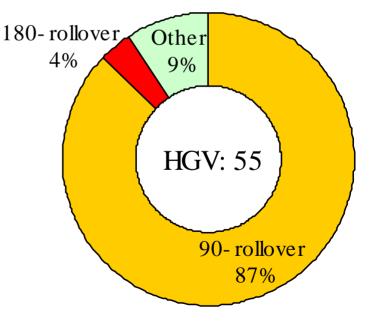


Tokyo

#### Truck rollover accidents

- The rollover accident occurs also in Japan. No injury:47% Injury (almost slight injury):31%
- Therefore, serious rollover accident is few in Japan.
- 90-rollover is 87% of all rollover accident. 180-rollover is only 4%.





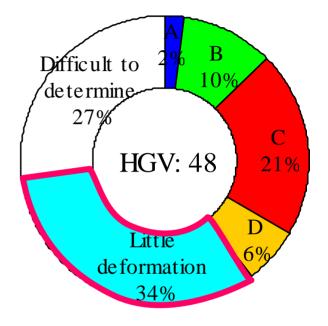


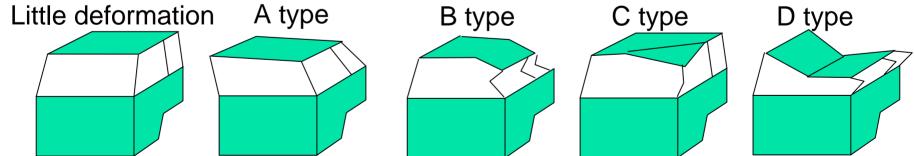


# -

#### Deformation mode of 90 rollover

- Little deformation : 34% (Front guard frame or van body greatly contributed to the restraint of the cab deformation).
- Most many deformation : C-type (21%), these thinks 90-rollover with subsequent impact.









# Summary

- Most important cases of the truck crew's injury .
  - → Frontal accident

- 1) Rear-end (front / rear)
  - 2) Head-on (front / front)
- Rollover accidents are few in serious injuries of trck drivers.





# Thank you!