

Planning Process for Traffic Accident Data and Countermeasures in Japan

- To form a unified database from traffic accident statistics of National Police Agency (NPA) and road census data of Ministry of Land, Infrastructure and Transport (MLIT)

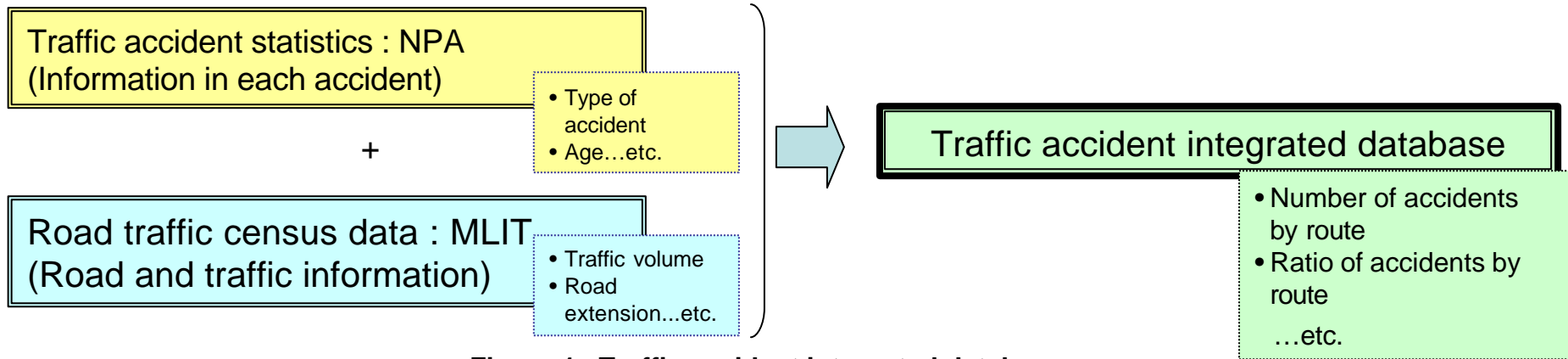
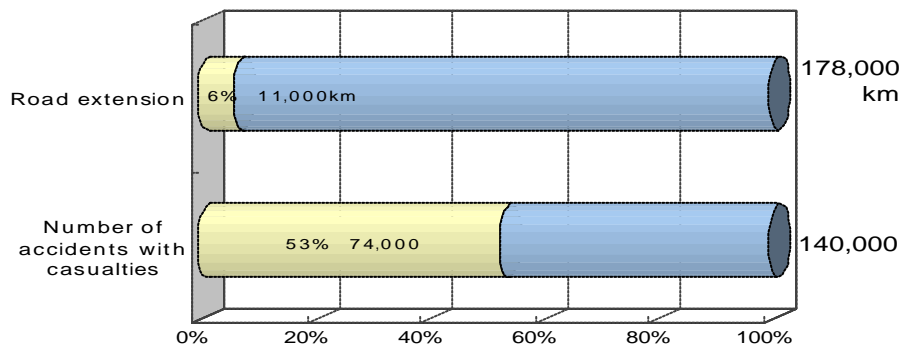


Figure-1. Traffic accident integrated database

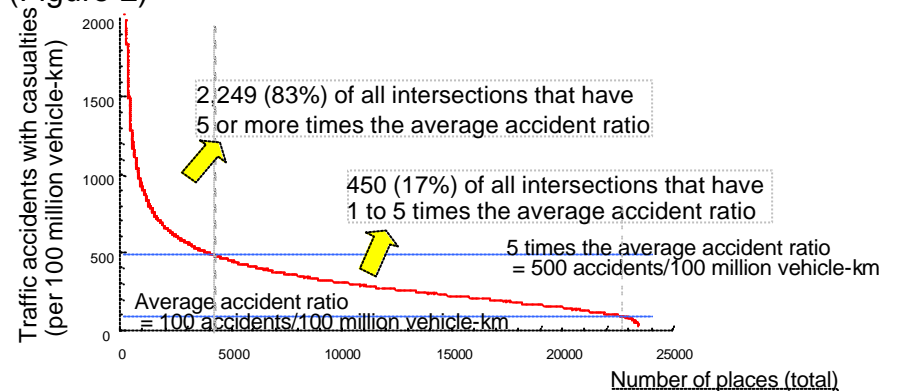
Using the above database provides:

- An understanding of the tendency for traffic accidents to be concentrated at particular places on the highway (Figure-1)
- The ability to extract accident-prone places (black spots) rationally (Figure-2)



* Average accidents with casualties 1996-1998

Figure-2. Road extension and numbers of accidents with casualties on single-lane highway sections



- Percentages shown in the diagram represent the proportion of 2,717 intersections where countermeasures will be implemented in Black Spots.
- This graph ranks intersections with 8 or more accidents with casualties in 4 years according as accident rate.
- Unknown accident ratio: 18

Figure-3. Ratio of accidents with casualties at accident-prone places (intersections)

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- To systematize the procedure from planning to evaluation of countermeasures and to construct an arrangement to feed back information relating to accident countermeasures for effective and efficient accident restraint.

