Highway Safety Enhancement Project in China

Ministry of Transport of the People's Republic of China

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Background

Since 2003: Chinese government has taken a series of measures to curb road accidents.

In 2002: peak of fatalities.

In 2004: Ministry of Transport launched the Highway Safety Enhancement Project (HSEP).
Highway Safety Enhancement Project (HSEP)

- **Theme:** Eliminating potential risk, cherishing life.
- **Task:** Handle the dangerous sections on national and provincial highways, such as sharp curve, steep slope, continuous downgrade, poor sight distance, and dangerous roadsides.
- **Measure:** Comprehensive countermeasure, with traffic engineering at the core.
- **Target:** Minimize road traffic casualties and reduce fatality rate.

In 2007, country roads were incorporated into the HSEP.
Highway Safety Enhancement Project (HSEP)

- Safe: W-beam Guardrail, Concrete Barrier, Bumps, Convex Mirror
- Economical: Belgian Surface, Raised Pavement Markers
- Environmental Friendly: Solar Signs, Steel-backed Wood Guardrails
- Effective: Raised Pavement Markers, Lane Dividers, Rumble Strips
Outcome of the HSEP

- Accumulated investment about 20 billion RMB.
- Dealing with over 424,000 sections with potential risk, 134,000 km in total.
- The implementation of the HSEP greatly enhanced road safety.
  - In 2005, the run-off-the-road accidents with 3 fatalities and above in one accident in road transportation enterprises decreased by 45.8% compared with the previous year.
  - According to the sample survey on 219 sections/5,625km covered in the project, annual traffic accident, annual fatalities and annual injured decreased by 69.74%, 81.49% and 72.29% respectively after the third year of the HSEP implementation.
Outcome of the HSEP

4 provinces

highway network
Total 6950km
Outcome of the HSEP

Risk Map

Speed reduction markings

F barrier

village on curve
After the implementation of the HSEP in 2010, the accident rate of all accidents and serious accident per 100 million vehicle kilometers decrease by 23.3% and 33.1% respectively compared to average of the first 3 years before the HSEP implementation.
Thanks