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CONSTRUCTION OF BETTER ROADS : PRC & ADB Partnership

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Introduction

ADB

- ADB is a multilateral development finance institution dedicated to reducing poverty in Asia and the Pacific.
- Established in 1966, It is now owned by 60 member countries, mostly from the region. ADB has over 2,000 employees from nearly 50 countries.

Introduction

ADB

- ADB raises fund through bond issues on the world's capital markets, and also rely on its members' contributions.
- In 2001, ADB provided loans totaling US\$5.3 billion, most of which went to the public sector. A total of 257 TA activities, amounting to US\$146.4 million, were also provided for various projects.

Introduction

ADB

- Although most lending is in the public sector, and to governments, ADB also provides direct assistance to private Sectors of DMCs through equity investments and loans.

Introduction

ADB

- Infrastructure development, which has become an essential area of ADB's assistance, is needed to ensure sustainable development, poverty reduction, and socioeconomic growth.

Overview of the Road Sector

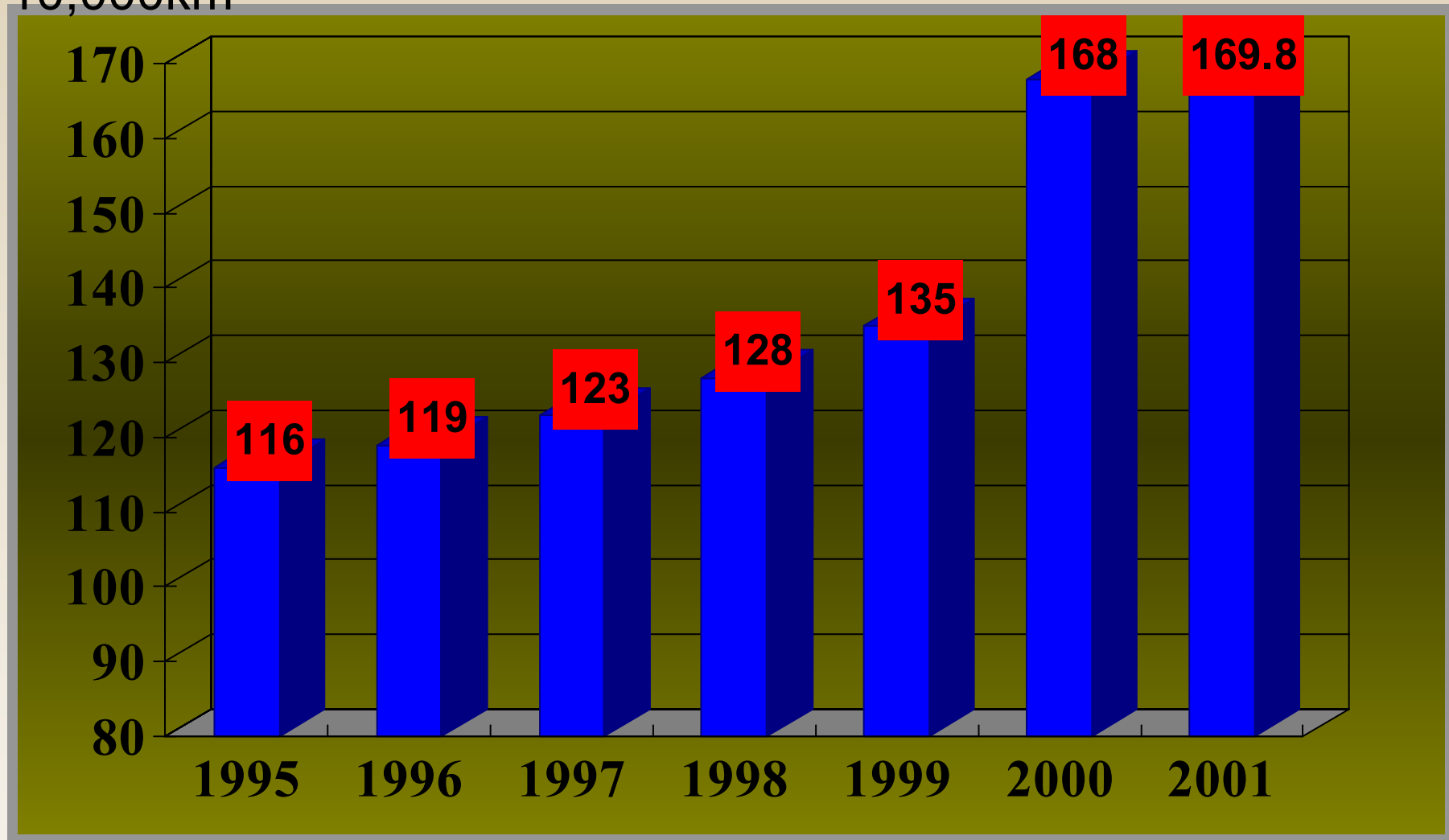
Road

- PRC road network had about 1.7 million km of roads at the end of 2001, compared with 1.2 million km in 1995.
- New roads totaling 51,000 km were opened to traffic in 2000.

Growth of Highway Mmilege in PRC

Source : MOC

10,000km



Overview of the Road Sector

Traffic

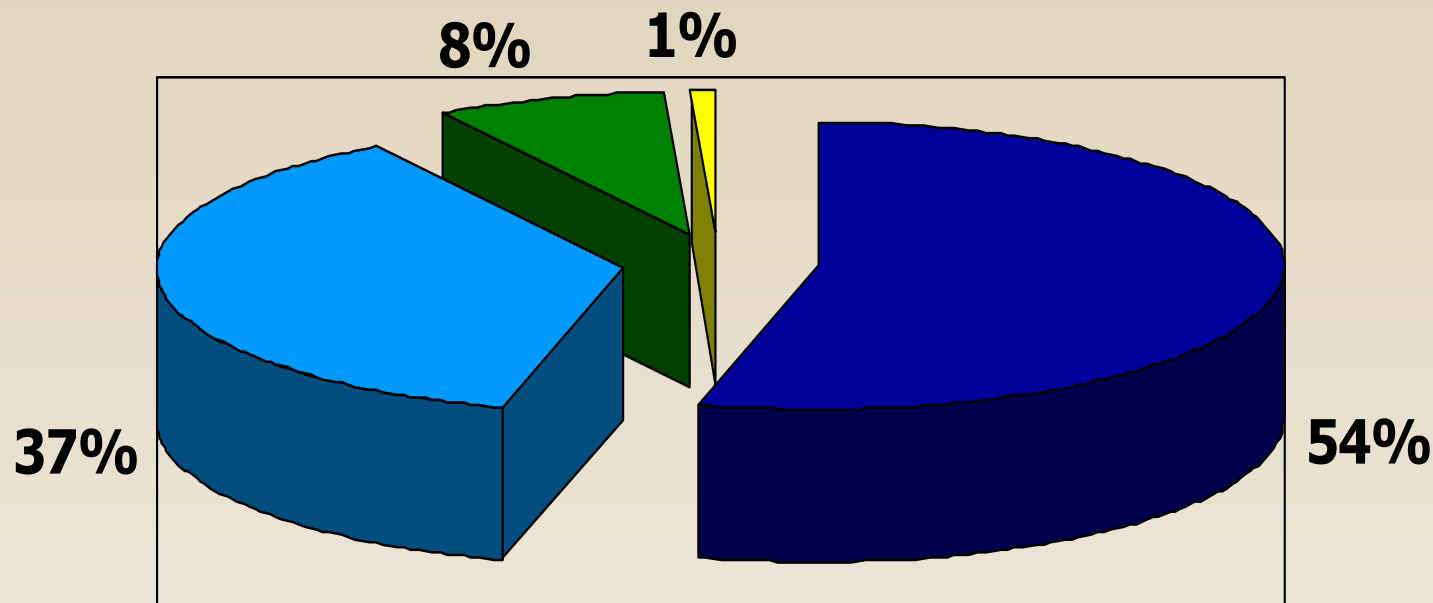
- In all modes, domestic passenger and freight transport grew by 8.0% per annum and 5.2% per year respectively between 1990 & 2000.

Overview of the Road Sector

Traffic

- Road traffic increased to 9.7% per annum for passenger traffic and 5.9% per annum for freight
- Since 1990, railway share of freight traffic declined by 9.3%.
- Increases in transport demand will be concentrated around and between major cities and in transport corridors serving the ports and the hinterlands.

Traffic in 2000 (passenger-km)



■ road ■ railways ■ civil aviation ■ coastal & inland waterways

Overview of the Road Sector

Vehicle

- In 2000, vehicle fleet in PRC totaled 15.5 million trucks, cars, and buses while other motorized vehicles (motorcycles & agricultural vehicles) totaled 46.5 million.
- Privately owned fleet of motor vehicles increased from 0.3 million to 6.3 million vehicles during 1985-2000.

Overview of the Road Sector

Vehicle

- Public and private vehicle fleets are expected to grow rapidly resulting to substantial increases in volume of road traffic and mounting congestion.
- There will be over 700 million population living in the Cities during the next 10 years, creating huge demand for more road systems.

Administration of Road Sector

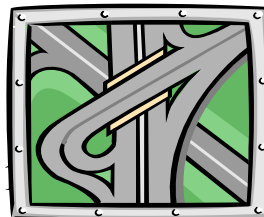
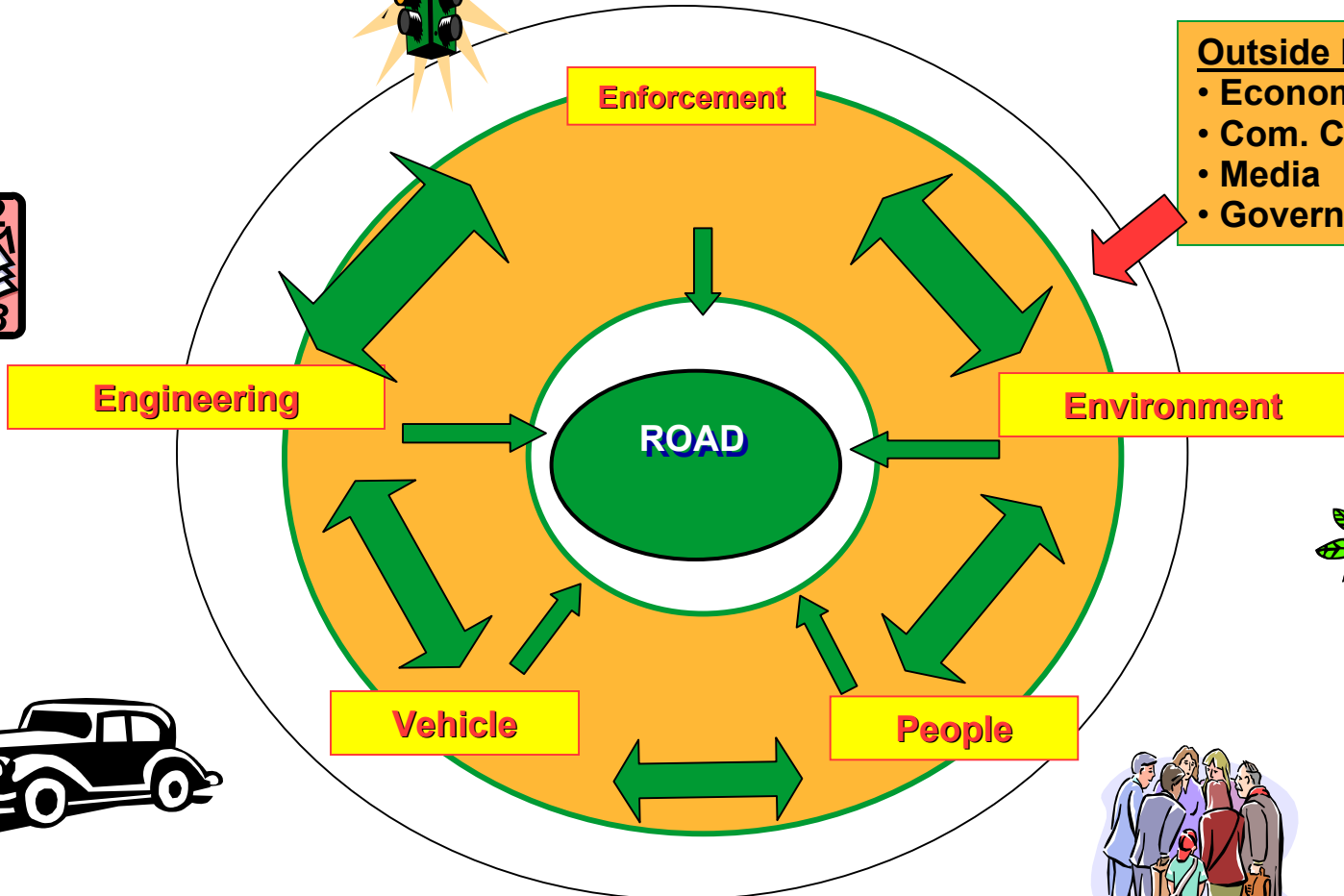
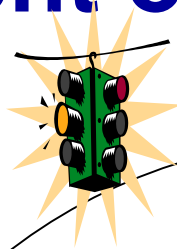
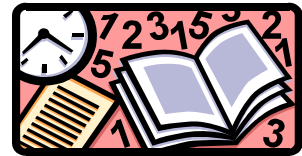
Coordination

There are various departments responsible for the management of road sector.

- State Development Planning Commission (SDPC);
- PCDs; MOC; Provincial planning commissions; MPS & LG.

Coordination of various departments is essential.

Component of Road Transport



Multidisciplinary Sector

Chengnan Expressway

- A Project Loan in the amount of \$250 million was approved on 5 November 1998, became effective on 24 August 1999. The Project comprises:

Chengnan Expressway

- civil works for: (a) construction of about **214 km** of controlled access toll expressway (4 and 6 lane) linking Chengdu to Nanchong, including flexible and rigid pavement, 3 super large **bridges**(total length 4344.5m) and several large and medium bridges, 2 **tunnels** (total length 1482m);

Chengnan Expressway

- 15 interchanges with 15 toll plazas, 456 vehicle and pedestrian underpasses, 89 overpasses including aqueducts, 982 culverts and siphons, 42,490,000 m³ embankment (high fill 34m), 45,230,000 m³ excavation, (deepest cut 83 m), and 6 service areas; and

Chengnan Expressway

- procurement of equipment for (a) toll collection, traffic measuring and monitoring; (b) axle load test, inspection, supervision and safety vehicles; and (c) road maintenance.
- land acquisition for civil works, and resettlement.

Chengnan Expressway

- The Project also includes upgrading of **300 km** of existing unclassified roads in poverty counties of Nanchong Municipality, to Class III standard (2-lane 6.5 meter wide carriageway). All contracts of these roads have already been completed.

Chengnan Expressway

- **Consultants** : Several domestic and international consultants were involved.
- **Environmental impact** : Environmental guidelines and studies, prior and during construction, were carried out by local University. There was no measurement index exceed the required standard.

Chengnan Expressway

- **Capacity Building** : A 3 years comprehensive plan of staff development has been developed, including in-country and international training. **Trainees have contributed significantly into the development of the Project.**

Chengnan Expressway

- **Quality Control** : A high level of quality control has been established in the project. A comprehensive set of rules for implementation is used. All the supervisors were organized to study the technical specifications. Routine and random inspections are combined.

Chengnan Expressway

- **Assessment** :The Project has been assessed as by ADB as **highly satisfactorily**. There are no major issues concerning Project implementation, completion schedule, construction quality or financing.

ADB's Future Plans

- ADB's operational strategy in the PRC's road sector includes (i) construction of roads; (ii) integration of the network; (iii) promotion of road safety; (iv) institutional strengthening; and (v) improvement of planning and evaluation techniques.
- ADB's support for road development will continue, over \$2 billion during the next three years.
- Lending program will be complemented by a technical assistance / grants, over \$6 billion.

Further Information

- Visit ADB's website at <http://www.adb.org> for more information on ADB's technical assistance and loan projects, other new and forthcoming projects, procurement, consulting services, private sector operations, and cofinancing opportunities.

- Contact Information:

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Towards Efficient and Safer Expressway Construction in Sichuan



Thank you