Road Transport Capacity for Emergency Response





Research Institute of Highway, MOT, PR China











Information system





Teams for recovery of damaged road





Teams for recovery of damaged road Team at the national level





- Composed of armed police as national team for recovery of damaged road
- **A total of 12 teams in main regions**
- For national defense road, major bridge/tunnel
- For major emergency response





- Provincial and municipal road transport emergency response agency is responsible for the team organization & routine management
- With people from road administration & maintenance entity
- Selected road maintenance entity through open bidding
- Road maintenance and emergency recovery of damaged road based on contract agreement





Teams for recovery of damaged road





- Provincial transport emergency response agency is responsible for local fleet & team organization
- To establish passenger and freight service teams respectively based on prefecture city
- To sign agreement with large regional motor carriers for the provision of emergency transport service
- With tax exemption and fuel subsidy for those listed in the emergency transport service



- Capacity reserves units shall keep the emergency transport reserves vehicles in good condition, and strengthen the daily maintenance work
- Technical class of vehicles achieve above secondary level
- Vehicle age shall not be more than 5 years or driving mileage no more than 150,000 vehicle-km



- Establish emergency transport capacity archive, including the entities, vehicle tonnage (seat), type and number of persons
- Exam technical conditions, reserve capacity, entity and personnel changes every year; adjust, supplement and update the records accordingly
- In principle, no less than 300 passenger vehicles, 500 freight vehicles for each of the provinces





- Provincial emergency management agencies formulate emergency plans according to local conditions, mobilize societal forces, organization procedure and decision-making procedures.
- In the case of more highway transport capacity is needed, it should be turned to the people's government at the same level to get the support from the social forces.



- Provide different types of public emergency personnel safety equipment combined with instructions, take necessary safety measures.
- Provide personal accident insurance for those who participate in emergency response services











Information system



Emergency supplies & equipment reserve system



National Highway Emergency Road Transport Materials Storage

Local Highway Emergency Road Transport Materials Storage



Take into consideration of the following factors :

- The layout of the national expressway system
- The timeliness of emergency supplies scheduling and the rationality of covered areas
- Regional climate and geological conditions
- The covering area for each of the centers is about 500-800 km





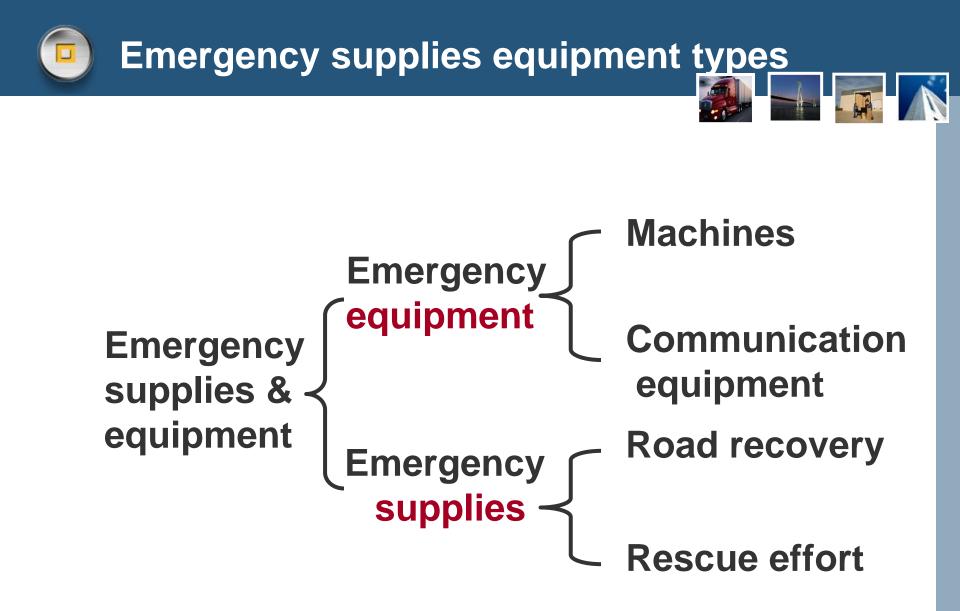
 National emergency transport materials storage centers are to be set in Helongjiang, Liaoning, Neimenggu, Beijing, Hebei, Zhejiang, Jiangsu, Henan, Shanxi, Gansu, Hubei, Sichuan, Yunnan, Guizhou, Guangdong, Fujian, Qinghai,Xizang, Xinjiang, and etc.



- Provincial and municipal transport departments are responsible for road transport emergency materials storage in their regions
- General principles: taking into account of the following factors:
 - Types and characteristics of the road traffic incidents in the jurisdiction area
 - Distribution of road transport emergency fleet and team
 - Various facility resources available from enterprises of road maintenance, construction and road transport
 - The service area for each center should cover about 200 km



- Entrustment system for the management of national road transport emergency materials storage authorized and supervised by MOT; the dispatch/delivery of the materials should be approved by MOT.
- The provincial transport department is the trustee responsible for the construction and management of the materials storage.
- Special team is organized by the provincial transport department with closed management system including specialized warehouses and specially assigned persons.







- Emergency machine equipment including steel bridge (Bailey bridge), excavator, shovel loader, bulldozer, land scraper, compulsory mixer, form spreader, truck cranes, snow blower, air compressor , platform trailer, oil can, fire engine, dynamo, pumps, life detector
- Emergency communication equipment including vehicle station, USW handset, maritime satellite mobile phone and portable generator





- Materials for road recovery including asphalt, gravel, sand rock, cement, straw bag, gunny bag, snowmelt agent, skid resistant, oil absorption material, etc
- Rescue efforts including protective clothing and equipment, tents, fuel, safety sign, emergency transport vehicles, vehicle maintenance tools and protective equipment etc







Emergency supplies & equipment



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Information system

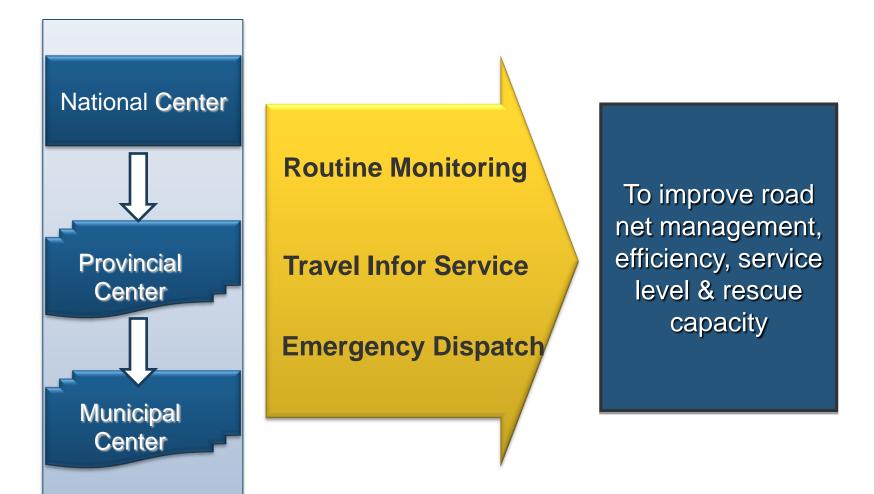


Sased on full integration of the existing transport communication and information resources, to establish and perfect "unified management, multiple networked communication, fast response, effective process" highway transport emergency communication system.

Emergency response centers at ministerial, provincial and municipal levels established.







National road network management and Emergency response center















Data communication among 15 provinces/cities including road condition images captured by video system 路况信息简报。

(2009年8月31日上午9时)。

公路局

签发人: 李华。

Road Condition Information

Management of MOT

全国路网运行监测分析周报。

(2009年8月24日-8月30日)。

24 日至25 日,广东西南部、广西北部、青海东北部、四川西部 地区出现中到大雨,其中,四川地震灾区的局部地区出现暴雨。26 日至30日,我国西北地区东南部、华北南部、黄淮、江淮、四川盆 地、江汉、江南北部等地出现一次较强的降雨过程,部分地区出现暴 雨,河南、安徽、湖北、四川等局部地区出现大暴雨。30日开始, 我国降雨强度降低,降雨区域有所缩小。。

从上周路况系统上报信息看,受上述天气及交通事故的影响,河 北、天津、广东、河南、云南、四川、湖北、重庆等8个省(市、区) 共计7条高速、5条国道(四川G108、G213、G317、G318,湖北 G209)、6条省道(河南S322、云南S214、重庆S103、S202,四川 S308、S309)先后出现局部交通中断。目前除云南S214开远市境内 建水至绿春段发生山体滑坡,造成路基和便道被毁,交通中断外,其 它国道、省道干线公路运行基本正常。。

2009 年 8 月 28 日 9 时 52 分, 青海省海西蒙古族藏族自治州大 ^{181 页 共 4 页+</sub>}





Road weather forecast & bad weather early warning



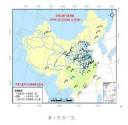
交通部重大公路气象预警。 2008年第01期。

(1月19日16时)+

交通部公路司 签发人: 戴东盖。 · · 全国大范围降雪,宁陕晋鲁豫鄂苏皖等地有大到暴雪。

交通部门要积极做好应对工作。

根据中国气象局今天发布的天气趋势预报:未来三天,我国 自西向东将出现较大范围的雨雪天气,西北地区东部、华北南部、黄 淮、江淮、江汉地区以及江南北部等地的部分地区两雪较大,其中, 青海东南部、甘肃中南部、宁夏、陕西中南部、山西南部、河南大部、 湖北大部、山东南部、苏统中北部等地省大雪,局部地区有暴雪。江 南北部的部分地区有中雨或雨夹雪。。



中国代象局与艾惠运输部 2009 年 09 月 14 日秋合支考全期主要公路代象研织(正式稿)+

中国气象局与交通运输部 2009 年 09 月 14 日。 联合发布全国主要公路气象预报。

14日20时至15日20时,西藏中东部大部、普海大部、甘肃西 部倫勝坦区、快玩东南部、馬龙江北部和中东部、古林东北部、黄淮 南部、江淮、江河、华南以及西南地区大部等地有小列中而或 序而、其中,广东西南部和珠江口地区、清海北部等地的部分地区有大暴雨 (100~200 毫米),广东西南部局部赵区有特大暴雨、最大称人量的 有 250~200 毫米,东北地区北部、五位地区中部。西藏东南部、西 南地区大部、黄淮东南部、征流、江汉面部、江南中东部、华南等地 将有富暴天气、其中、青海南部、国川和主部、云南高部、堡产中东 部、游北西南部、江西南部、城道大部、广东大部、广西东南部、



受大到暴雨悲响的主要路役有:。 京港漂高速(G4)广州一广东深圳段、 广调高速(G4W)广州一广东中山一珠海一澳门段。 [★]10~



Daily weather forecast by China Central TV

China Highway Information Service





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🔏 中国公路信息服务

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- Route/facility inquiry
- Driving navigation
- Road condition information
- **Road weather** • information
- Travel advice

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Emergency response function (developing)





